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INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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TABLE OF CONTENTS

2. PATENTS 4
APPLICATIONS FOR PATENTS 5
ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1) 80
CHANGE OF NAME IN TERMS OF REGULATION 39 80
PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 80
PATENT APPLICATIONS ABANDONED OR WITHDRAWN 80
APPLICATION FOR RESTORATION OF A LAPSED PATENT 80
APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT 81
APPLICATIONS TO AMEND SPECIFICATION 81
INSPECTION OF SPECIFICATIONS 83
HYPOTHECATIONS 461
JUDGMENTS 461
OFFICE PRACTISE NOTICES 461
3. DESIGNS 465
APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993 466
CHANGE OF NAME IN TERMS OF REGULATION 24 471
APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT 471
APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION 472
NOTICE OF REGISTRATION OF DESIGNS 472
HYPOTHECATIONS 523
JUDGMENTS 523
OFFICE PRACTISE NOTICES 523
4. COPYRIGHT 524
NOTICES OF ACCEPTANCE 525
HYPOTHECATIONS 540
JUDGMENTS 540
OFFICE PRACTISE NOTICES 540
5. CORRECTION NOTICES 541
TRADE MARK CORRECTION NOTICES 542
PATENT CORRECTION NOTICES 542
DESIGNS CORRECTION NOTICES 544
COPYRIGHT CORRECTION NOTICES 544
PATENTS 545
DESIGNS 583
OTHER NOTICES 587

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 2022/11/28 -

2022/12881 ~ Provisional ~54:AUTHENTIFICATION TECHNOLOGY NETWORK ~71:Thuso Angelo Motlohi, 290 Johann Place, Willow Acres Estate, South Africa;Winifred Montlenyana Molongoana, 1496 Maifadi Street, South Africa ~72: Thuso Angelo Motlohi;Winifred Montlenyana Molongoana~

2022/12885 ~ Complete ~54:MONGOLIAN MEDICINE MERCURY PROCESSING DEVICE ~71:Inner Mongolia Minzu University, No.536 Huolinhe Street, Horqin District, Tongliao City, Inner Mongolia, People's Republic of China ~72: E Erdunduleng;LI Huifang;LI Xin;WU Lan~

2022/12902 ~ Complete ~54:WEATHER/CLIMATE MODEL FORECAST BIAS EXPLAINABILITY ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: MAKHANYA, Sibusisiwe Audrey;MATHONSI, Thabang;PATEL, Zubeida;VOS, Etienne Eben~ 33:US ~31:17/653,744 ~32:07/03/2022

2022/12910 ~ Complete ~54:DEVICE AND SYSTEM FOR DISPENSING A LIQUID FROM A CONTAINER, AND METHOD FOR ASSEMBLING A DEVICE FOR DISPENSING A LIQUID ~71:DISPENSING TECHNOLOGIES B.V., Achtseweg Zuid 151 B, 5651 GW, Eindhoven, Netherlands ~72: LUKAS JAKOB WILLEM VAN DEN HEUVEL;PAULO NERVO;PETRUS LAMBERTUS HURKMANS~ 33:NL ~31:2025710 ~32:29/05/2020

2022/12918 ~ Complete ~54:SELECTIVE HERBICIDES BASED ON SUBSTITUTED ISOXAZOLIN CARBOXAMIDES AND FURILAZOLE ~71:BAYER AKTIENGESELLSCHAFT, Kaiser-Wilhelm-Allee 1, Leverkusen, Germany ~72: DITTGEN, Jan;GATZWEILER, Elmar;HAAF, Klaus, Bernhard;LORENTZ, Lothar;MENNE, Hubert;PEREZ CATALAN, Julio;ROSINGER, Christopher, Hugh;TRABOLD, Klaus~ 33:EP ~31:20177904.8 ~32:02/06/2020

2022/12922 ~ Complete ~54:EGFR TKIS FOR USE IN THE TREATMENT OF NON-SMALL CELL LUNG CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BORELLINI, Flavia;GHIORGHIU, Serban;MANN, Helen;RUKAZENKOV, Yuri~ 33:US ~31:63/030,372 ~32:27/05/2020

2022/12925 ~ Complete ~54:PROCESS FOR PREPARING A GLP-1/GLUCAGON DUAL AGONIST ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: KOBIERSKI, Michael Edward;KOPACH, Michael Eugene~ 33:US ~31:63/038,363 ~32:12/06/2020

2022/12927 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING DISORDERS ASSOCIATED WITH LOSS-OF-FUNCTION MUTATIONS IN SYNGAP1 ~71:The Florey Institute of Neuroscience and Mental Health, Level 5, Kenneth Myer Building, 30 Royal Pde, The University of Melbourne, MELBOURNE 3010, VIC, AUSTRALIA, Australia ~72: PETROU, Steven~ 33:AU ~31:2020901507 ~32:11/05/2020

2022/12880 ~ Provisional ~54:A LOAD TRANSFER SYSTEM AND METHOD ~71:D A D DESIGN AND DEVELOPMENT PROPRIETARY LIMITED, 38 St Denis Road, Claremont, Cape Town, 7708, SOUTH AFRICA, South Africa ~72: MCVITTY, Alan George Cyril~

2022/12882 ~ Provisional ~54:COOKING ~71:Nimer & Partners. Metal Industries & Trade LLC, Misfah, Oman ~72: Richard Douglas Chadwick~

2022/12884 ~ Complete ~54:A TRACTOR MUFFLER ~71:Zheng Zhou Research Institute of Mechanical Engineering CO.,LTD., No.149 Kexue Avenue, Zhengzhou City, 450001, People's Republic of China;Zhengzhou University of Industrial Technology, No.16 Xueyuan Road, Xinzheng, Zhengzhou City, 450001, People's Republic of China ~72: Cuicui,Wei;Guohu,Wang;Hongen,Niu;Shidang,Yan~ 33:CN ~31:202211357151.3 ~32:01/11/2022

2022/12886 ~ Complete ~54:A JOINT METHOD FOR LONG STRIP SILICONE RUBBER PRODUCTS ~71:xuzhou college of industrial technology, No.1, Xiangjun Road, Gulou District, Xuzhou, Jiangsu, People's Republic of China ~72: Guowen Weng~

2022/12888 ~ Complete ~54:A HOT AIR DRYING DEVICE FOR CHUJU PRODUCTION ~71:Chuzhou Jinyu Chuju Ecological Technology Co., Ltd, Room 505, 5/F, Nanqiao Industrial Development Zone, Chuzhou, People's Republic of China ~72: Gong Jianguo;Gong Shanshan;Liu Xiaocui;Zhang Weiwei;Zhu Ming~ 33:CN ~31:202211380738.6 ~32:04/11/2022

2022/12895 ~ Complete ~54:A MODIFIED BIOGAS SYSTEM ~71:Aman Barthwal, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Anuj Prasad, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Arun Singh, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Ashish Chamel, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Ashish Nayal, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Janak Raj Joshi, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Kushagra Mani, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Nitish Kumar, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Satyendra Singh, Professor, Mechanical Engineering Department, B.T.K.I.T Dwarahat, Almora, Uttarakhand, 263653, India;Shiva Goyal, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Shivasheesh Kaushik, Assistant Professor, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Shriyansh Gairola, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Subhan Ali, Assistant Professor, Mechanical Engineering Department, Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India;Tanishq Kataria, Scholar, Mechanical Engineering Department,Shivalik College Of Engineering Dehradun,

Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand, 248197, India ~72: Aman Barthwal;Anuj Prasad;Arun Singh;Ashish Chamel;Ashish Nayal;Janak Raj Joshi;Kushagra Mani;Nitish Kumar;Satyendra Singh;Shiva Goyal;Shivasheesh Kaushik;Shriyansh Gairola;Subhan Ali;Tanishq Kataria~

2022/12911 ~ Complete ~54:BISPECIFIC IMMUNE CELL ENGAGERS WITH BINDING SPECIFICITY FOR HLA-G AND ANOTHER ANTIGEN ~71:TIZONA THERAPEUTICS, 4000 Shoreline Court, Suite 200, South San Francisco, California, 94080, United States of America ~72: CHRISTINA M KOCHEL;COURTNEY BEERS;DOUG HODGES;LING HON MATTHEW CHU~ 33:US ~31:63/037,985 ~32:11/06/2020

2022/12914 ~ Complete ~54:METHOD OF IMPROVING PROTEASE ACTIVITY ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DIETMAR ANDREAS LANG;IAN MALCOLM TUCKER;MARK LAWRENCE THOMPSON;SARAH LOUISE HOSKING~ 33:EP ~31:20178738.9 ~32:08/06/2020

2022/12915 ~ Complete ~54:EFFICIENT AND SAFE PLANT LIGHTING CIRCUIT ~71:FUJIAN SANAN SINO-SCIENCE PHOTOBIOTECH CO., LTD., Optoelectronics Industrial Park Hengshan Village, Hutou Town, Anxi County, Quanzhou City, Fujian, 362411, People's Republic of China ~72: HONG, Huilun;LI, Haibin;LIN, Shaoqing;WU, Chanjuan;ZENG, Liang~ 33:CN ~31:202010261133.X ~32:03/04/2020

2022/12928 ~ Complete ~54:COMPOSITIONS AND METHODS FOR DELIVERING PHARMACEUTICALLY ACTIVE AGENTS ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: CHRISTIE, Ronald James;URELLO, Morgan Audrey~ 33:US ~31:63/017,281 ~32:29/04/2020

2022/12934 ~ Provisional ~54:THE MAGNETIC MONOPOLE ~71:BRUCE OTTO HAWKINS, 98 SIR GEORGE GREY STREET, South Africa ~72: BRUCE OTTO HAWKINS ~

2022/12889 ~ Complete ~54:PSYCHOLOGICAL QUALITY EVALUATION DEVICE FOR INNOVATION AND ENTREPRENEURSHIP EDUCATION CAPABLE OF QUICKLY FITTING WRIST DETECTION ~71:Anhui Science and Technology University, 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: CAI Weiqing;CHENG Bin~ 33:CN ~31:2021114511229 ~32:01/12/2021

2022/12891 ~ Complete ~54:ANTI-PD-1 ANTIBODIES FOR TREATMENT OF LUNG CANCER ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: LOWY, Israel;RIETSCHEL, Petra~ 33:US ~31:62/461,672 ~32:21/02/2017;33:US ~31:62/595,190 ~32:06/12/2017

2022/12893 ~ Complete ~54:MEDICAL LIQUID DRESSING AND PREPARATION METHOD AND APPLICATION THEREOF ~71:North China University of Science and Technology, 21 Bohai Road, Xincheng Street, Caofeidian District, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Chunteng Zhang;Dayong Zheng;Han Yan;Jiaxuan Bai;Lixun Lv;Menghui Hou;Tongtong Zhang~

2022/12906 ~ Complete ~54:AN ELECTRONIC SYSTEM FOR CONTROLLED SEQUENTIAL DETONATION AND METHOD THEREOF ~71:MAIMOON, Murtaza, 723 Nelson Square, Chindwara Road, Nagpur, Maharashtra, 440013, India;MAIMOON, Sabiha, 723 Nelson Square, Chindwara Road, Nagpur, Maharashtra, 440013, India ~72: MAIMOON, Murtaza;MAIMOON, Sabiha~ 33:IN ~31:202021019657 ~32:09/05/2020

2022/12921 ~ Complete ~54:BRANCHED ALCOHOLS ~71:SCION HOLDINGS LLC, 3011 Scenic Elm Street, Houston, United States of America ~72: KILLEBREW, Kyle;LANE, Samuel Livingston~ 33:US ~31:63/035,073 ~32:05/06/2020;33:US ~31:63/035,280 ~32:05/06/2020;33:US ~31:63/035,479 ~32:05/06/2020;33:US

~31:63/126,780 ~32:17/12/2020;33:US ~31:17/246,580 ~32:30/04/2021;33:US ~31:PCT/US2021/030341 ~32:30/04/2021;33:US ~31:17/331,371 ~32:26/05/2021;33:US ~31:PCT/US2021/034189 ~32:26/05/2021

2022/12930 ~ Complete ~54:LOW-EMISSION NOZZLE, LOW-EMISSION DUAL-FUEL COMBUSTION CHAMBER AND GAS TURBINE GENERATOR SET ~71:HARBIN ENGINEERING UNIVERSITY, No. 145 Nantong Street, Nangang District, Harbin, People's Republic of China;NO. 703 RESEARCH INSTITUTE OF CSSC, No. 35, Honghu Road, Daoli District, Harbin, People's Republic of China ~72: CAO, Tianze;FAN, Liyun;LI, Mingjia;LI, Yajun;LIN, Feng;QI, Xiulong;RAN, Junhui;XU, Wenyan;YANG, Honglei;YANG, Qiang;ZHAO, Ningbo;ZHENG, Hongtao~

2022/12890 ~ Complete ~54:IMPROVED AGROBACTERIUM TUMEFACIENS- MEDIATED GENETIC TRANSFORMATION METHOD OF SUGARCANE CALLI ~71:FUJIAN AGRICULTURE AND FORESTRY UNIVERSITY, No.15 Shangxiadian Road,, People's Republic of China;SUGARCANE RESEARCH INSTITUTE, YUNNAN ACADEMY OF AGRICULTURAL SCIENCES, No.363 Lingquan East Road,, People's Republic of China ~72: CHEN, Rukai;HU, Xin;LI, Chunjia;LI, Xujuan;LIU, Xinlong;QIN, Wei;TIAN, Chunyan;WU, Zhuandi~

2022/12894 ~ Complete ~54:A METHOD FOR PERFORMING MATHEMATICAL MODELING AND VALIDATION OF POLYMER-POLYMER-SOLVENT COATING ~71:Dr. George D. Verros, Department of Chemistry, Aristotle University of Thessaloniki, P.O. Box 454 Plagiari Thes., 57500, Epanomi, Greece;Dr. Raj Kumar Arya, Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, 144027, Punjab, India ~72: Dr. George D. Verros;Dr. Raj Kumar Arya~

2022/12896 ~ Complete ~54:PERCUTANEOUS LUNG PUNCTURE FORCEPS CLIP BIOPSY DEVICE ~71:SUINING CENTRAL HOSPITAL, No.127 Desheng West Road, Chuanshan District, Suining City, Sichuan, 629000, People's Republic of China ~72: HU, Haiyang;LI, Donglin;LIU, Tao;TANG, Shengjie;TANG, Shoujun;YANG, Li;YANG, Ling;YU, Li;ZHOU, Haining~

2022/12897 ~ Complete ~54:METHOD AND SYSTEM FOR REALIZING SAFE OPERATION SPACE OF BIG DATA FOR DATA SHARING SERVICE ~71:Shanghai Fengle Information Technology Co., Ltd, 1500 Tingwei Road, Jinshan District, Shanghai (Shanyang Economic Community), 201500, People's Republic of China;Zhengzhou Sanyou Software Technology Co., Ltd, 801, Floor 8, Building 2, Xinghua Science and Technology Industrial Park, No. 58, Second Street, Zhengzhou Economic and Technological Development Zone, 450016, People's Republic of China ~72: Ji ZheYang;Ma XiaoYu;Wang HaoXue;Wang Zhaoshen;Wu Yi;Xing Yan~

2022/12908 ~ Complete ~54:SANITIZING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANINDYA DASGUPTA;JESSICA ANN KRISIAK;LEONORA H YOKUBINAS;MAYA TREESA SAJI;NEHA SALGAONKAR;SUZANNE LYNN GENCARELLI;VIVEK SUBRAMANIAN~ 33:IN ~31:202021027813 ~32:30/06/2020;33:EP ~31:20198202.2 ~32:24/09/2020

2022/12919 ~ Complete ~54:TRANSPOSITION-BASED THERAPIES ~71:SALIOGEN THERAPEUTICS, INC., 245 FIRST STREET, 18TH FLOOR, CAMBRIDGE, MA 02142, USA, United States of America ~72: HIGGINS, Joseph, J.;MCMILLAN, Scott;TABIBIAZAR, Ray~ 33:US ~31:63/019,709 ~32:04/05/2020;33:US ~31:63/027,561 ~32:20/05/2020;33:US ~31:63/058,200 ~32:29/07/2020;33:US ~31:63/175,345 ~32:15/04/2021

2022/12931 ~ Complete ~54:AXIAL FLOW COMPRESSOR, GAS TURBINE AND METHOD FOR REGULATING ROTATION ANGLE OF ROTATABLE GUIDE VANE ~71:NO. 703 RESEARCH INSTITUTE OF CHINA SHIPBUILDING INDUSTRY CORPORATION, No. 35 Honghu Road, Daoli District, Harbin, People's Republic of China ~72: HONG, Qingsong;LI, Dong;LIN, Feng;REN, Lanxue;WAN, Xinchao;WANG, Qi;WANG, Ting;ZHANG, Zhou~ 33:CN ~31:202011161387.0 ~32:27/10/2020

2022/12883 ~ Provisional ~54:WORD CLOCK ~71:HARBARI TRADING AND PROJECTS (PTY) LTD., 8 Stockdale Road, WINKELSPRUIT, Durban 4126, Kwazulu Natal, SOUTH AFRICA, South Africa ~72: HURDEYAL, Raveen~

2022/12898 ~ Complete ~54:A WEARABLE DEVICE TO MONITOR HUMAN HEALTH CONDITION AND RECOMMEND REMEDIES FOR IMPROVING UNHEALTHY CONDITION ~71:Akhilesh Mahadev Deshmukh, Electrical Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha Maharashtra State, 442001, India;Gaurav Dnyaneshwar Ate, Electrical Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha Maharashtra State, 442001, India;Mansi Kishor Tikhile, Electrical Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha, Maharashtra State, 442001, India;Payal Rajkumar Ghanmode, Computer Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha Maharashtra State, 442001, India;Rahul Somalwar, Assistant Professor, Dept. of Electrical Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha, Maharashtra State, 442001, India;Ruikar Jayesh Deoaro, Assistant Professor, Dept. of Electrical Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha, Maharashtra State, 442001, India;Shreyash Satish Astonkar, Electrical Engineering, Bajaj Institute of Technology, Wardha, Dist- Wardha Maharashtra State, 442001, India ~72: Akhilesh Mahadev Deshmukh;Gaurav Dnyaneshwar Ate;Mansi Kishor Tikhile;Payal Rajkumar Ghanmode;Rahul Somalwar;Ruikar Jayesh Deoaro;Shreyash Satish Astonkar~

2022/12899 ~ Complete ~54:SYSTEM FOR CONGESTION CONTROL USING CONGESTION LOCATION INDICATOR AND SUPPORTING DATA COLLECTOR NODES IN WSN'S USING ML ~71:AJALKAR, Deepika Amol, G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT, PUNE, MAHARASHTRA, India;CHAUDHARI, Archana Kedar, VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE, MAHARASHTRA, India;DESHPANDE, Vivek, VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE, MAHARASHTRA, India;JADHAV, Makarand, NBN SINHGAD SCHOOL OF ENGINEERING, PUNE, MAHARASHTRA, 411041, India;PULUJKAR, Mosami Pradip, 307, KAILASH BUILDING,PROJECT HILLSIDE,BAVDHAN, PUNE, MAHARASHTRA, 411021, India;WAGHOLE, Dattatray, JSPM'S JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING, INDRAYANINAGAR, HANDEWADI ROAD, HADAPSAR, PUNE, MAHARASHTRA, 411028, India ~72: AJALKAR, Deepika Amol;CHAUDHARI, Archana Kedar;DESHPANDE, Vivek;JADHAV, Makarand;PULUJKAR, Mosami Pradip;WAGHOLE, Dattatray~

2022/12901 ~ Complete ~54:CUTTING TOOL MOUNTING ASSEMBLY WITH SPLIT, MODULAR AND WIRELESS WEAR DETECTION SYSTEM ~71:Kennametal Inc., 1600 Technology Way, LATROBE 15650, PA, USA, United States of America ~72: LIU, Yu;YU, Xiaofeng;ZHANG, Shuangyuan;ZHIQUAN, Guo;ZHOU, Hongyu~ 33:CN ~31:202210026643.8 ~32:11/01/2022

2022/12904 ~ Complete ~54:EASY-TO-MOUNT INTELLIGENT AIR VALVE ~71:Li Yali, No.9d, Unit 2, Building 9, Yuanchunyuan, Century City, Guandu District, Kunming, Yunnan Province, 650206, People's Republic of China;Zhang Yuewei, Group 1, Sidong Village, Meishan park Office, Ruzhou City, Henan Province, 467500, People's Republic of China ~72: Li Yali;Zhang Yuewei~

2022/12912 ~ Complete ~54:METHODS AND TREATMENT INVOLVING ANTIBODIES TO IL-18 ~71:AVALO THERAPEUTICS, INC., 540 Gaither Road, Suite 400, Rockville, Maryland 20850, United States of America ~72: GARRY A NEIL;INBAL ZAFIR-LAVIE;LORI ROADCAP~ 33:US ~31:63/032,929 ~32:01/06/2020

2022/12926 ~ Complete ~54:PCSK9 INHIBITORS AND METHODS OF USE THEREOF TO TREAT CHOLESTEROL-RELATED DISORDERS ~71:Amgen Inc., One Amgen Center Drive, Law Dept-Patent Operations, Mail Stop 28-5-A, THOUSAND OAKS 91320, CA, USA, United States of America ~72: BRIDGES, Ian Matthew;HAMER, Andrew W.;KURTZ, Christopher;RUZZA, Andrea;WANG, Huei~ 33:US ~31:63/032,451 ~32:29/05/2020

2022/12932 ~ Complete ~54:STRUCTURAL FATIGUE/DURABILITY EXPERIMENT SYSTEM AND EXPERIMENTAL METHODS IN THE COMPLEX ENVIRONMENTS ~71:SOUTH CHINA UNIVERSITY OF TECHNOLOGY, No. 381 Wushan Road, Tianhe District, Guangzhou, People's Republic of China ~72: CHEN, Zhanbiao;GUO, Xinyan;HUANG, Peiyan;LI, Bo;LI, Shiya;LI, Wen;YAO, Guowen~ 33:CN ~31:202110422122.X ~32:20/04/2021

2022/12887 ~ Complete ~54:A DEVICE FOR MONITORING THE DRYING OF CHUJU CHRYSANTHEMUM ~71:Chuzhou University, No. 1, Huifeng West Road, Nanqiao District, Chuzhou, People's Republic of China ~72: Gong Jianguo;Jia Xiaoli;Lv Riqin;Sun Xing;Zhang Weiwei;Zhu Shuangjie~ 33:CN ~31:202211319778.X ~32:26/10/2022

2022/12892 ~ Complete ~54:CONSUMABLES CHIP, CONSUMABLE, IMAGE-FORMING APPARATUS, COMMUNICATION METHOD, AND DETECTION METHOD ~71:ZHUHAI PANTUM ELECTRONICS CO., LTD., Building 02, 06 and 08, No. 888 Shengping Avenue, People's Republic of China ~72: LI, Haixiong;ZHANG, Hao~ 33:CN ~31:2021116818513 ~32:31/12/2021;33:CN ~31:2022110046222 ~32:22/08/2022

2022/12900 ~ Complete ~54:AN ENERGY-SAVING AND ENVIRONMENT-FRIENDLY THERMAL INSULATION MATERIAL FOR WALLS AND ITS PREPARATION METHOD ~71:Suqian University, No. 399, Huanghe South Road, Sucheng District, Suqian City, Jiangsu Province, People's Republic of China ~72: Gao Li;Sun Chuanzhi;Zuo Gong~ 33:CN ~31:202210510091.8 ~32:11/05/2022

2022/12903 ~ Complete ~54:AN INTERACTIVE GAMING SYSTEM AND METHOD OF ADVERTISING THEREWITH ~71:Gold Circle Proprietary Limited, 150 Avondale Road, South Africa ~72: Patrick Lawrence Loker~

2022/12905 ~ Complete ~54:A SECURITY DEVICE ~71:RAS, Shaun, Adrian, 176 GALLEY ROAD, LEISURE BAY ESTATE, ERASMUS PARK, PRETORIA 0048, SOUTH AFRICA, South Africa ~72: RAS, Shaun, Adrian~ 33:ZA ~31:2021/06171 ~32:26/08/2021;33:ZA ~31:2022/00612 ~32:13/01/2022

2022/12907 ~ Complete ~54:CATALYST SYSTEMS AND PROCESSES FOR PRODUCING POLYETHYLENE USING THE SAME ~71:DOW GLOBAL TECHNOLOGIES LLC, 2211 H.H. Dow Way, United States of America ~72: BAILEY, Brad C.;BAILLIE, Rhett A.;CAMELIO, Andrew M.;DELORBE, Johnathan E.;DO, Hien Q.;FONTAINE, Philip P.;PEARSON, David M.;ROSEN, Mari S.~ 33:US ~31:63/031,638 ~32:29/05/2020;33:US ~31:63/143,333 ~32:29/01/2021

2022/12909 ~ Complete ~54:TUBULYSINS AND PROTEIN-TUBULYSIN CONJUGATES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: AMY HAN~ 33:US ~31:63/043,771 ~32:24/06/2020

2022/12913 ~ Complete ~54:SYSTEMS AND METHODS FOR CONTROLLING AND MONITORING ENVIRONMENTAL CONDITIONS OF A SEMEN SAMPLE DURING TRANSPORT ~71:FELLOW HEALTH INC., 953 Indiana Street, San Francisco, California 94107, United States of America ~72: OWEN FALK;WILLIAM MATTHEWS~ 33:US ~31:63/030,730 ~32:27/05/2020

2022/12916 ~ Complete ~54:ELECTROWINNING AND ELECTROREFINING ENVIRONMENT COMMUNICATOR ~71:GREENWAY, Timothy Kelvynge, The River Club 1589, Val de Vie Estate, Kliprug Minor Road, South Africa ~72: DE VILLIERS, Lourens Francois;DYZEL, Dennis Thomas;GREENWAY, Timothy Kelvynge;LOOCK, Johan Hendrik~ 33:ZA ~31:PCT/IB2021/054510 ~32:23/06/2020

2022/12917 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING PLP1 ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-

Hoa;FREIER, Susan, M.;POWERS, Berit, Elissa;RIGO, Frank~ 33:US ~31:63/045,740 ~32:29/06/2020;33:US ~31:63/124,476 ~32:11/12/2020

2022/12920 ~ Complete ~54:INPUT DEVICE ~71:TEKERLEK, Korkut, IN DER BREITI 1, 8185 WINKEL, SWITZERLAND, Switzerland ~72: TEKERLEK, Korkut~ 33:EP ~31:PCT/EP2020/062451 ~32:05/05/2020

2022/12923 ~ Complete ~54:AUTOMATED SEWING AND THREAD MANAGEMENT ~71:Edwards Lifesciences Corporation, One Edwards Way, IRVINE 92614, CA, USA, United States of America ~72: KOH, Wei Nee;PETRULIS, Marius Tomas;SARIAN, Sam Nicolas;SHIH, Ping-yang~

2022/12924 ~ Complete ~54:NUT AND NON-DAIRY COMPONENTS HAVING REDUCED TRACE ELEMENT CONTENT, COMPOSITIONS COMPRISING THEM AND PROCESSES FOR THEIR PRODUCTION ~71:Else Nutrition GH Ltd, 6 Hanachoshet St, TEL AVIV 6971070, ISRAEL, Israel ~72: AZAR, Michael;BAR-YOSEPH, Fabiana;KESLER, Uriel;WIDBERG, Asher;YITZHAK, Hamutal~ 33:US ~31:63/027,989 ~32:21/05/2020

2022/12929 ~ Complete ~54:ANIMAL FEED OR FEED PRODUCT INCLUDING BEETROOT POWDER ~71:CAN Technologies, Inc., 15407 McGinty Road West, WAYZATA 55391, MN, USA, United States of America ~72: COOK, David A.;VAN DEN BOSCH, Moniek~ 33:US ~31:63/031,829 ~32:29/05/2020

2022/12933 ~ Complete ~54:METHODS FOR CONTROLLING MERISTEM SIZE FOR CROP IMPROVEMENT ~71:PAIRWISE PLANTS SERVICES, INC., 807 East Main Street, Suite 4-100, Durham, United States of America ~72: GRAHAM, Nathaniel;O'CONNOR, Devin~ 33:US ~31:63/033,273 ~32:02/06/2020

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2022/12941 ~ Complete ~54:METHOD FOR IMPROVING MUCKY SOIL BY USING SELF-VERTICAL REINFORCEMENT STRAW PILES ~71:Jiangsu Ocean University, #59, Cangwu Road, Haizhou District, Lianyungang, Jiangsu, 222005, People's Republic of China ~72: Dai Siyu;Li Shixuan;Li Zhenqi;Song Mingzhi;Song Yuxuan;Tao Shiheng;Yang Mingyu;Zhang Wenhao~

2022/12962 ~ Complete ~54:FROST PROTECTION SYSTEM ~71:FROLIGHT BV, Legen Heirweg 23, Belgium ~72: SCHMIDT, Alexander~ 33:BE ~31:BE2020/5549 ~32:27/07/2020

2022/12966 ~ Complete ~54:METHOD AND SYSTEM FOR APPLYING A LAYER OF SOUNDABSORBING MATERIAL TO THE SURFACE OF AN INNER CAVITY OF A PNEUMATIC TYRE ~71:Bridgestone Europe NV/SA, Kleine Kloosterstraat 10, ZAVENTEM 1932, BELGIUM, Belgium ~72: GENTILI, Arnaldo;PONTONE, Roberto~ 33:IT ~31:102020000009493 ~32:30/04/2020

2022/12971 ~ Complete ~54:DEVICE FOR TRANSFORMING A DATASET WITH A SECRET KEY ~71:TMIA GMBH, Peter-Behrens-Platz 4, 4020, Linz, Austria ~72: JÜRGEN AURACHER~ 33:AT ~31:A60141/2020 ~32:06/05/2020

2022/12942 ~ Complete ~54:METHOD FOR REINFORCING WALL STRUCTURE BY RETRACTABLE FLAT STEEL SYSTEM ~71:Jiangsu Ocean University, #59, Cangwu Road, Haizhou District, Lianyungang, jiangsu, 222005, People's Republic of China ~72: Dai Siyu;Li Shixuan;Li Zhenqi;Liu Xiang;Song Mingzhi;Tang Qin;Tao Shiheng;Yang Mingyu;Zuo Yuhang~

2022/12945 ~ Complete ~54:PROCESS FOR PRODUCING PURELY BREWED LIQUOR FROM POLYGONATUM CYRTONEMA GROWING IN FORESTS ~71:Hangzhou Qiandao Lake Heling Family Farm Co., Ltd., Tea Factory, Yejiafan Village, Linqi Town, Chun'an County, Zhejiang Province, 311703, People's Republic of China ~72: HONG, Hejun;HU, Laiting;LI, Hongjun;LIAO, Tangqing;SONG, Weiqing;WU, Shufang;WU, Yongqiang;YU, Shuyun;YU, Wenzhong;YU, Yunlin;ZHENG, Peng;ZHENG, Pinghan;ZHOU, Weiqing~

2022/12947 ~ Complete ~54:FACILITATING APPOINTMENT OF AN AGENT ~71:JHAGAROO, Randir Tahal, 436 Carlswald North Estate, Tamboti Road, South Africa ~72: JHAGAROO, Randir Tahal~ 33:US ~31:63/283,748 ~32:29/11/2021

2022/12950 ~ Complete ~54:HEATSINK ~71:ETA Green Power Limited, Hethel Engineering Centre, Chapman Way, HETHEL NR14 8FB, UNITED KINGDOM, United Kingdom ~72: BOWMAN, Liam;MORGAN, David~ 33:GB ~31:2117309.1 ~32:30/11/2021;33:GB ~31:2216860.3 ~32:11/11/2022

2022/12953 ~ Complete ~54:A COMPOSITION AND A METHOD FOR DEVELOPMENT AND OPTIMIZATION OF IFOSFAMIDE NANOSTRUCTURED LIPID CARRIERS FOR ORAL DELIVERY ~71:Dineshkumar Settu, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Gouthami Ammapalli, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Hemalatha Kanagarajan, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Lokeshvar Ravikumar, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Magesh Mohan, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Mahalakshmi Devaraji, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Nandhini Jayaprakash, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Ramaiyan Velmurugan, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Santhanakrish nan Ramanujam, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Saveetha Institute of Medical and Technical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Sujaritha Jayaraj, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India;Vandhana Vijayakumar, Faculty of Pharmaceutical Sciences, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India ~72: Dineshkumar Settu;Gouthami Ammapalli;Hemalatha Kanagarajan;Lokeshvar Ravikumar;Magesh Mohan;Mahalakshmi Devaraji;Nandhini Jayaprakash;Ramaiyan Velmurugan;Santhanankrishnan Ramanujam;Saveetha Institute of Medical and Technical Sciences;Sujaritha Jayaraj;Vandhana Vijayakumar~

2022/13031 ~ Provisional ~54:BICAR ~71:LETSEKO ROBERT SELEKA, 10032 MOONG VILLAGE GA-SELEKA, South Africa ~72: LETSEKO ROBERT SELEKA~

2022/12935 ~ Provisional ~54:RIDE ON JACK ~71:lizelle Kleynhans, Phuzamoya Farm, Karkloof, Howick, South Africa ~72: lizelle Kleynhans~

2022/12938 ~ Complete ~54:AUXILIARY POWER SUPPLY AND GENERATION SYSTEM ~71:ZONBOR TECHNOLOGIES (PTY) LTD, 1917 Loerie Lane, Eye of Africa Estate, South Africa ~72: BORRILL, Sean David;ZONDI, Mondli Goodman~ 33:ZA ~31:2021/10301 ~32:13/12/2021

2022/12939 ~ Complete ~54:A HYBRID MODIFIED PHOTOSENSITIVE RESIN AND ITS PREPARATION METHOD, AND A 3D PRINTING PHOTOSENSITIVE RESIN AND ITS BRACES ~71:Taiyuan University of Technology, 79 Yingze West Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Fengbo ZHU;Fuyong LIU;Hongwei HE;Lan JIA;Qiang ZHENG;Wenwen YU;Yanqin WANG~

2022/12959 ~ Complete ~54:POLY HETEROCYCLIC CONJUGATES AND THEIR PHARMACEUTICAL USES ~71:NATIONAL HEALTH RESEARCH INSTITUTES, Technology Transfer Center (A-3160), No. 35, Keyan Road, Taiwan (R.O.C) ~72: CHEN, Chiung-Tong;HUANG, Kuan-Hsun;SHIH, Chuan;TSOU, Lun Kelvin~ 33:US ~31:63/042,276 ~32:22/06/2020

2022/12969 ~ Complete ~54:METHODS FOR SIMULTANEOUS FRAGMENTATION AND PURIFICATION OF BACTERIAL POLYSACCHARIDES ~71:Serum Institute of India Private Limited, 212/2, Off Soli Poonawalla Road,

Hadapsar, PUNE 411028, MAHARASHTRA, INDIA, India ~72: DHERE, Rajeev Mhalasakant;GAIKWAD, Walmik Karbhari;JANA, Swapan Kumar~ 33:IN ~31:202021020339 ~32:14/05/2020

2022/12975 ~ Complete ~54:CONTINUOUS SCANNING OPTICAL ASSEMBLY AND METHOD OF USE THEREOF ~71:TRUVIAN SCIENCES, INC., 10300 Campus Point Drive, Suite 190, San Diego, California, 92121, United States of America ~72: GEORGE BRABON;JEFFREY HAWKINS;MICHAEL ADAMS;MICHAEL SHANE BOWEN;ROGER TAYLOR~ 33:US ~31:63/026,589 ~32:18/05/2020

2022/12957 ~ Complete ~54:METHOD, APPARATUS, DEVICE AND SYSTEM FOR THE GENERATION OF ELECTRICITY ~71:PAREKH, Suneel, Navnitdas, A-10 MANOJ CHSL. S G MARG. PRABHADEVI, MUMBAI 400025, INDIA, India;SU-N ENERGY HOLDINGS LTD., #3011, 21 WIDMER STREET, TORONTO, ONTARIO M5V OB8, CANADA, Canada ~72: PAREKH, Navnitdas, Radhakishan;PAREKH, Platina ,Suneel;PAREKH, Suneel, Navnitdas~ 33:IN ~31:202021026656 ~32:24/06/2020

2022/12958 ~ Complete ~54:SELECTIVE HERBICIDES BASED ON SUBSTITUTED ISOXAZOLIN CARBOXAMIDES AND MEFENPYR-DIETHYL ~71:BAYER AKTIENGESELLSCHAFT, Kaiser-Wilhelm-Allee 1, Leverkusen, Germany ~72: DITTGEN, Jan;GATZWEILER, Elmar;HAAF, Klaus, Bernhard;LORENTZ, Lothar;MENNE, Hubert;PEREZ CATALAN, Julio;ROSINGER, Christopher, Hugh;TRABOLD, Klaus~ 33:EP ~31:20177910.5 ~32:02/06/2020

2022/12960 ~ Complete ~54:HETEROARYL SUBSTITUTED SPIROPIPERIDINYL DERIVATIVES AND PHARMACEUTICAL USES THEREOF ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BUSHABOINA, Mallesh;CHEN, Xin;CHEUNG, Atwood Kim;CULSHAW, Andrew, James;HURLEY, Timothy, Brian;LABBE-GIGUERE, Nancy;MILTZ, Wolfgang;ORAIN, David;PATEL, Tajesh;RAJAGOPALAN, Srinivasan;ROEHN, Till;SANDHAM, David, Andrew;THOMA, Gebhard;TICHKULE, Ritesh, Bhanudasji;WÄLCHLI, Rudolf~ 33:EP ~31:20191191.4 ~32:14/08/2020

2022/12965 ~ Complete ~54:AZETIDIN-3-YLMETHANOL DERIVATIVES AS CCR6 RECEPTOR MODULATORS ~71:Idorsia Pharmaceuticals Ltd, Hegenheimermattweg 91, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: ALLEMANN, Oliver;CAROFF, Eva;CHAVANTON-ARPEL, Alexia;CROXFORD, Andrew;HUBLER, Francis;JACOB, Loïc;MEYER, Emmanuel;RICHARD-BILDSTEIN, Sylvia~ 33:IB ~31:2020/062103 ~32:30/04/2020

2022/12967 ~ Complete ~54:IMIDAZOPYRIDAZINES AS MODULATORS OF IL-17 ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: BEHENNA, Douglas;DECKHUT, Charlotte;GOLDBERG, Steven;KEITH, John;KUMMER, David;LOSKOT, Steven;MARTIN, Connor;MCCARVER, Stefan;MEDUNA, Steven;RHORER, Timothy;ROVIRA, Alexander;TANIS, Virginia;VALDES, Alexander;WOODS, Craig;XUE, Xiaohua~ 33:US ~31:63/017,682 ~32:30/04/2020

2022/12974 ~ Complete ~54:ADVANTAGEOUS BENZOFURAN COMPOSITIONS FOR MENTAL DISORDERS OR ENHANCEMENT ~71:TACTOGEN INC, 3790 El Camino Real, #510 Palo Alto, California 94306, United States of America ~72: MATTHEW BAGGOTT~ 33:US ~31:63/036,382 ~32:08/06/2020;33:US ~31:63/046,496 ~32:30/06/2020;33:US ~31:63/048,616 ~32:06/07/2020;33:US ~31:63/055,897 ~32:23/07/2020;33:US ~31:63/062,434 ~32:06/08/2020;33:US ~31:63/149,223 ~32:13/02/2021;33:US ~31:63/165,731 ~32:24/03/2021

2022/12976 ~ Complete ~54:MARKERS FOR USE IN METHODS FOR TREATING CANCERS WITH ANTIBODY DRUG CONJUGATES (ADC) ~71:AGENSYS, INC., 1 Astellas Way, Northbrook, Illinois, 60062, United States of America;SEAGEN INC., 21823 30th Drive SE, Bothell, Washington, 98021, United States of America ~72: BERNARD ARTHUR LIU;TIMOTHY SHAUN LEWIS~ 33:US ~31:63/041,636 ~32:19/06/2020

2022/12979 ~ Complete ~54:PROCESS FOR PURIFYING A PHOSPHATE CONTAINING ACIDIC SOLUTION COMPRISING IMPURITIES AND APPARATUS FOR APPLYING SAME ~71:PRAYON, Rue Joseph Wauters 144, 4480 Engis, Belgium ~72: DAMIEN HUEBER;MARC SONVEAUX~ 33:EP ~31:20180333.5 ~32:16/06/2020

2022/12944 ~ Complete ~54:COMBINED GRAPE TRELLIS APPLICABLE TO MULTIPLE ENVIRONMENTS ~71:Zhejiang Academy of Agricultural Sciences, No. 298, Desheng Middle Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310004, People's Republic of China ~72: CHENG, Jianhui;WEI, Lingzhu;WU, Jiang;XIANG, Jiang;ZHENG, Ting~

2022/12949 ~ Complete ~54:AN INDUCTOR AND A METHOD OF PROVIDING AN INDUCTOR ~71:ETA Green Power Limited, Hethel Engineering Centre, Chapman Way, HETHEL NR14 8FB, UNITED KINGDOM, United Kingdom ~72: BOWMAN, Liam;BURKE, Sean;WOOD, Robert~ 33:GB ~31:2117307.5 ~32:30/11/2021

2022/12951 ~ Complete ~54:ENCODING AND DECODING METHOD, DEVICE AND APPARATUS ~71:Hangzhou Hikvision Digital Technology Co., Ltd., No.555 Qianmo Road, Binjiang District, HANGZHOU 310051, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Fangdong~ 33:CN ~31:201910901352.7 ~32:23/09/2019

2022/12963 ~ Complete ~54:NICOTINE REPLACEMENT THERAPY SMART DEVICE ~71:McNeil AB, Norrbroplatsen 2, HELSINGBORG 25109, SWEDEN, Sweden ~72: BINNER, Curt;DONG, Ming;EDGAR, Sophie;MELLINGER, Justin;WALSH, Ryan~ 33:US ~31:63/018,035 ~32:30/04/2020

2022/12970 ~ Complete ~54:PHARMACEUTICAL FORMULATION COMPRISING A BITE, BISPECIFIC ANTIBODY, AND METHIONINE ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: JAGANNATHAN, Bharadwaj~ 33:US ~31:63/069,432 ~32:24/08/2020;33:US ~31:63/197,020 ~32:04/06/2021

2022/12973 ~ Complete ~54:FORMULATION FOR ANTI-FCRN ANTIBODY ~71:HANALL BIOPHARMA CO., LTD., 43, Sangseodang 1-gil, Daedeok-gu, Daejeon 34344, Republic of Korea ~72: HYEA KYUNG AHN;MI JIN JUNG;YOUNG JU KIM~ 33:KR ~31:10-2020-0079135 ~32:29/06/2020

2022/12943 ~ Complete ~54:TWO-DIMENSIONAL SIMULATION METHOD OF BIO-NANO FLOODING PROCESS IN MICROCHANNEL OF LOW PERMEABILITY RESERVOIR ~71:China Oilfield Services Limited, No. 1581, Haichuan Road, Tanggu Marine Science Park, Binhai High-tech Zone, Tianjin, 300000, People's Republic of China ~72: FENG, Qing;GONG, Ruxiang;LI, Shengsheng;LI, Xiaonan;SHE, Yuehui;SUN, Yanni;ZHANG, Fan~

2022/12946 ~ Complete ~54:TECHNIQUE FOR PRODUCING PURE BREWED WINE OF RED FRUITS OF RUBUS IDAEUS GROWN IN MOUNTAINOUS AREAS ~71:Hangzhou Qiandao Lake Heling Family Farm Co., Ltd., Tea Factory, Yejiafan Village, Linqi Town, Chun'an County, Zhejiang Province, 311703, People's Republic of China ~72: HONG, Hejun;HU, Laiting;LI, Hongjun;LIAO, Tangqing;LU, Weichuan;WU, Shufang;WU, Yongqiang;YU, Shuyun;YU, Yunlin;ZHENG, Peng;ZHENG, Pinghan;ZHOU, Weiqing~

2022/12952 ~ Complete ~54:METHOD FOR CONCENTRATION INCREASE AND ENRICHMENT OF VENTILATION GAS ~71:BEIJING ZHONGYUAN BOZHI ENERGY SAVING TECHNOLOGY CO., LTD., No. 102 Jushan Farm, Xingshikou Road, Haidian District, Beijing, 100093, People's Republic of China ~72: WANG, Jianxue;XIAO, Qi~ 33:CN ~31:202210581963.X ~32:26/05/2022

2022/12954 ~ Complete ~54:A METHOD FOR FAULT TOLERANCE IN FOG COMPUTING NETWORK USING CLASSIFICATION AND REPLICATION ~71:Dr. Priti Kumari, Assistant Professor, Deptt. of CSE Ashoka Institute of Technology & Management, Ashoka Engineering Chauraha, Paharia- Sarnath Road, Varanasi, Uttar Pradesh, 221007, India;Prof. (Dr.) Vandana Dubey, Professor, Deptt. of CSE Ashoka Institute of Technology

& Management, Ashoka Engineering Chauraha, Paharia- Sarnath Road, Varanasi, Uttar Pradesh, 221007, India ~72: Dr. Priti Kumari;Prof. (Dr.) Vandana Dubey~

2022/12956 ~ Complete ~54:PREPARATION METHOD OF GRAPHITIC CARBON NITRIDE THIN FILM ELECTRODE ~71:China Three Gorges University, Material and Chemical College of China Three Gorges University, No. 8, Daxue Road, Xiling District, Yichang, Hubei, 443000, People's Republic of China ~72: Doudou Zhang;Niu Huang;Panpan Sun;Xiaohua Sun;Xiaowei Lv~

2022/12937 ~ Complete ~54:KEY ACTION DETECTION SYSTEM OF PHYSICAL EDUCATION VIDEO BASED ON DEEP LEARNING ~71:Ningde Normal University, No.1, Xueyuan Road, Dongqiao Economic Development Zone, Ningde City, Fujian Province, People's Republic of China ~72: HUANG Zhaoyuan~

2022/12968 ~ Complete ~54:IMIDAZOPYRIMIDINES AS MODULATORS OF IL-17 ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: GOLDBERG, Steven;MARTIN, Connor;RHORER, Timothy B.;TANIS, Virginia M.;XUE, Xiaohua~ 33:US ~31:63/017,679 ~32:30/04/2020

2022/12977 ~ Complete ~54:TIP SETTERS AND TIP ADAPTERS FOR INSTALLING INJECTION TOOLS TO PLANT PARTS ~71:INVAIO SCIENCES INTERNATIONAL GMBH, Schneidergasse 7, CH-4051, Basel, Switzerland ~72: ANTONY MATHAI CHETTOOR;DIMITRI VERWEIRE;LUKAS RUDOLF SCHÜPBACH;MICHAEL CHRISTIAN OEHL;URS WIDMER~ 33:US ~31:63/033,745 ~32:02/06/2020;33:US ~31:63/143,640 ~32:29/01/2021

2022/12961 ~ Complete ~54:POLYUREA LUBRICATING GREASES CONTAINING CARBONATES, AND THEIR USE ~71:FUCHS PETROLUB SE, Einsteinstrasse 11, Germany ~72: Hans Jürgen ERKEL;Olaf BINKLE;Torsten GOERZ~ 33:DE ~31:10 2020 117 671.6 ~32:03/07/2020

2022/12972 ~ Complete ~54:ADAPTER AND WEAR ELEMENT WITH A PIN ARRANGED AT A LOW STRESS POINT ~71:METALOGENIA RESEARCH & TECHNOLOGIES S.L., Àvila 45, 08005, Barcelona, Spain ~72: ALBERT GIMENO TORDERA;FERMÍN SÁNCHEZ GUISADO;RAÚL TORRES MONTALVO~ 33:EP ~31:20382649.0 ~32:17/07/2020

2022/12978 ~ Complete ~54:HUBLESS SHEAVE ~71:SHERMAN + REILLY, INC., 400 West 33rd Street, Chattanooga, Tennessee, 37410, United States of America ~72: DOUGLAS BRUCE MACDONALD;HARBY CARTER HOLLIS;JOHN JEREMIAH MORTON;TONI CORINNE TRAN~ 33:US ~31:63/043,881 ~32:25/06/2020

2022/12964 ~ Complete ~54:BIOMARKER BASED NICOTINE REPLACEMENT THERAPY ~71:McNeil AB, Norrbroplatsen 2, HELSINGBORG 25109, SWEDEN, Sweden ~72: BINNER, Curt;DONG, Ming;EDGAR, Sophie;MELLINGER, Justin;WALSH, Ryan~ 33:US ~31:63/018,035 ~32:30/04/2020

2022/12940 ~ Complete ~54:METHOD AND SYSTEM FOR MEASURING WALKABILITY OF URBAN ROAD, ELECTRONIC DEVICE AND STORAGE MEDIUM ~71:Chinese Academy of Surveying and Mapping, Yard 28, Lianhuachi West Road, Haidian District, Beijing, 100830, People's Republic of China ~72: CHENG, Yao;DU, Chuan;DUAN, Minyan;GAO, Wujun;LU, Wenjuan;MA, Weijun;MAO, Xi;WANG, Zhangpeng;YANG, Xuejiao;YIN, Hongmei;ZHAO, Zhanjie~

2022/12948 ~ Complete ~54:RELEASEABLE CATHETER HUB RETAINER ~71:Smiths Medical ASD, Inc., 6000 Nathan Lane North, PLYMOUTH 55442, MN, USA, United States of America ~72: AKCAY, Gursel;CHHEDA, Harsh;GORAL, David;MUSKATELLO, James;PALIWODA, Brian~ 33:US ~31:62/109,673 ~32:30/01/2015;33:US ~31:62/109,710 ~32:30/01/2015;33:US ~31:62/109,715 ~32:30/01/2015;33:US ~31:62/109,722 ~32:30/01/2015;33:US ~31:62/109,735 ~32:30/01/2015;33:US ~31:62/109,742 ~32:30/01/2015;33:US

~31:62/109,745 ~32:30/01/2015;33:US ~31:62/109,750 ~32:30/01/2015;33:US ~31:62/109,755 ~32:30/01/2015;33:US ~31:62/109,759 ~32:30/01/2015;33:US ~31:62/109,766 ~32:30/01/2015

2022/12955 ~ Complete ~54:SOLAR COOKER ~71:COX, Matthew Roger, c/o Unit 2, 61 Koper Street, Laboria, POLOKWANE 0699, Limpopo, SOUTH AFRICA, South Africa;JONES, Tessa Marie, c/o Unit 2, 61 Koper Street, Laboria, POLOKWANE 0699, Limpopo, SOUTH AFRICA, South Africa ~72: COX, Matthew Roger~ 33:ZA ~31:2021/10179 ~32:09/12/2021

2022/12936 ~ Provisional ~54:SELF SUSTAINING ELECTRICAL HYDRO MOBILE GENERATOR SYSTEM ~71:Donovan, 3 Merriman Street, South Africa ~72: Ben Fouche';Donovan Van Eeden~ 33:ZA ~31:9106065065084 ~32:01/11/2022

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2022/13030 ~ Provisional ~54:SHOCK ABSORBENT CRUTCHES AND WALKING STICKS ~71:SEAN KENNETH SWART, 235 HOLWORTHY AVENUE, EERSTERUST, South Africa ~72: SEAN KENNETH SWART ~

2022/12990 ~ Complete ~54:SAFE PRODUCTION METHOD FOR SPINACH IN CALCAREOUS VEGETABLE FIELD CONTAMINATED WITH MODERATE-MILD CADMIUM ~71:Institute of Agricultural Resources and Environment, Hebei Academy of Agriculture and Forestry Sciences, No. 598, Heping West Road, Shijiazhuang City, Hebei Province, 050050, People's Republic of China ~72: HOU, Limin;RU, Shuhua;SUN, Shiyou;WANG, Ce;WANG, Xueqing;XIAO, Guangmin;ZHAO, Ouya~

2022/13028 ~ Provisional ~54:TRANS ~71:IAMNOVA, 4131 MEADOWLANDS, ZONE 9, South Africa ~72: THABISO FRANS MAVIMBELA~

2022/13005 ~ Complete ~54:AN INTEGRATED HIGH-PRESSURE OIL PUMP ~71:Sichuan Aerospace Shiyuan Technology Co,Ltd., No. 118, Hangtian North Road, Longquan Street, Chengdu Economic and Technological Development Zone (Longquanyi District), Sichuan Province, 610000, People's Republic of China ~72: Chen Lianshan;Duan Shengqiu;Liu Lin;Pu Yi;Wang Guocheng;Yang Bo~

2022/13006 ~ Complete ~54:AN INTERNET OF THINGS-BASED DRAINAGE PIPES CLEANING ROBOT SYSTEM ~71:Dr. G. Vijaya, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, 641008, India;Dr. J. Janet, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, 641008, India;Dr. L. Prabhu, Aarupadai Veedu Institute of Technology, Vinayaka Mission's Research Foundation, Paiyanoor, Chennai, India;Dr. P. Kavitha Rani, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, 641008, India;Dr. P. Mohan Kumar, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, 641008, India;Dr. Ravi Kumar Poluru, Institute of Aeronautical Engineering, Hyderabad, India;Dr. S. Balakrishnan, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, 641008, India;Dr. S. Venkata Lakshmi, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, 641008, India;Dr. S. Vinodhkumar, Rajalakshmi Engineering College, Chennai. Tamilnadu, India;ETB Samuel Jigme Harrison, 61, C.G.E. Colony, Tuticorin, 628003, India ~72: Dr. G. Vijaya;Dr. J. Janet;Dr. L. Prabhu;Dr. P. Kavitha Rani;Dr. P. Mohan Kumar;Dr. Ravi Kumar Poluru;Dr. S. Balakrishnan;Dr. S. Venkata Lakshmi;Dr. S. Vinodhkumar;ETB Samuel Jigme Harrison~

2022/13007 ~ Complete ~54:A METHOD FOR PRODUCING BIOETHANOL USING SUGARCANE TRASH AS CHEAP CARBON SOURCE WITH MOLASSES ~71:Dr. Abhijeet Ganpatrao Mulik, Asst. Professor, Dept. of Chemistry. SADGURU GADAGE MAHARAJ COLLEGE, KARAD. Dist: Satara, Maharashtra, 415124, India;Dr. Abulkalam Usman Sutar, Professor, Dept. of Zoology. SADGURU GADAGE MAHARAJ COLLEGE, KARAD. Dist: Satara, Maharashtra, 415124, India;Dr. Satish Gundu Parte, Asst. Professor, Dept. of Zoology. SADGURU

GADAGE MAHARAJ COLLEGE, KARAD. Dist: Satara, Maharashtra, 415124, India;Prin. Dr. Mohan Martand Rajmane, Principal, SADGURU GADAGE MAHARAJ COLLEGE, KARAD. Dist: Satara, Maharashtra, 415124, India;Somnath Dattatray Vibhute, Asst. Professor, Dept. of Biotechnology SADGURU GADAGE MAHARAJ COLLEGE, KARAD. Dist: Satara, Maharashtra, 415124, India ~72: Dr. Abhijeet Ganpatrao Mulik;Dr. Abulkalam Usman Sutar;Dr. Satish Gundu Parte;Prin. Dr. Mohan Martand Rajmane;Somnath Dattatray Vibhute~

2022/13011 ~ Complete ~54:ATTENUATED VARIANT OF THE RIFT VALLEY FEVER VIRUS, COMPOSITION COMPRISING SAME, AND USES THEREOF ~71:CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC), Serrano 142, Spain ~72: BORREGO RIVERO, María Belén;BRUN TORRES, Alejandro;MORENO FERNÁNDEZ, Sandra~ 33:ES ~31:P202030529 ~32:04/06/2020

2022/13013 ~ Complete ~54:BICYCLIC HETEROCYCLES AND THEIR USE AS HERBICIDES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: ALLEGRETTA, Giuseppe;ANDERS, Ulrike;KORDES, Markus;KRAEMER, Gerd;LERCHL, Jens;SEISER, Tobias;SEITZ, Thomas;ZIMMERMANN, Gunther~ 33:EP ~31:20172950.6 ~32:05/05/2020

2022/13021 ~ Complete ~54:SECURELY CHANGING CRYPTOGRAPHIC STRENGTH DURING RECONFIGURATION ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BERNSEN, Johannes Arnoldus Cornelis~ 33:EP ~31:20172609.8 ~32:01/05/2020;33:EP ~31:20181399.5 ~32:22/06/2020;33:EP ~31:20185523.6 ~32:13/07/2020;33:EP ~31:21167205.0 ~32:07/04/2021

2022/13003 ~ Complete ~54:MOTOR ROTOR AND METHODS OF MANUFACTURE ~71:ETA Green Power Limited, Hethel Engineering Centre, Chapman Way, HETHEL NR14 8FB, UNITED KINGDOM, United Kingdom ~72: BOWMAN, Liam;MORGAN, David~ 33:GB ~31:2117310.9 ~32:30/11/2021;33:GB ~31:2217803.2 ~32:28/11/2022

2022/13004 ~ Complete ~54:GRAPHENE-BASED COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION ~71:Zhengzhou University of Aeronautics, No.2, University Middle Road, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: TANG, Shengquan;TANG, Zhaojun;ZENG, Fanguang~

2022/13012 ~ Complete ~54:SCAN POSTS SYSTEM AND METHOD ~71:VP INNOVATO HOLDINGS LTD., Evvoias 4 Str., Cyprus ~72: PAPADOPOULOS, Georgios;VERGOULLIS, Ioannis~ 33:GR ~31:20200100312 ~32:04/06/2020

2022/13014 ~ Complete ~54:ZONAL AND TARGETED METHODS AND USES FOR TREATING A MIGRAINE DISORDER ~71:MIOTOX, LLC, 120 SOUTH SPALDING DRIVE, SUITE 340, BEVERLY HILLS, CALIFORNIA 90212, USA, United States of America ~72: BINDER, William, J.~ 33:US ~31:63/034,215 ~32:03/06/2020

2022/13022 ~ Complete ~54:LOOP PREVENTION WHEN RECONFIGURING DEVICES ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BERNSEN, Johannes Arnoldus Cornelis~ 33:EP ~31:20172609.8 ~32:01/05/2020;33:EP ~31:20181399.5 ~32:22/06/2020;33:EP ~31:20185523.6 ~32:13/07/2020

2022/13023 ~ Complete ~54:SYSTEM AND METHODS FOR ROBOTIC PROCESS AUTOMATION ~71:Blue Prism Limited, 2 Cinnamon Park, Crab Lane, Fearnhead, WARRINGTON WA2 0XP, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: AKTAS, Ümit Rusen;CALI, Jacques;CARR, Ben;CUCURULL, Guillem;DUBBA, Krishna~

2022/13024 ~ Complete ~54:ANTIBODIES TARGETING A COMPLEX COMPRISING NON-CLASSICAL HLA-I AND NEOANTIGEN AND THEIR METHODS OF USE ~71:Boehringer Ingelheim Pharmaceuticals, Inc., 900

Ridgebury Road, RIDGEFIELD 06877, CT, USA, United States of America ~72: UPCHURCH-ANGE, Katherine;WEIDANZ, Jon~ 33:US ~31:63/032,886 ~32:01/06/2020;33:US ~31:17/199,258 ~32:11/03/2021

2022/12981 ~ Provisional ~54:COMPOSITE GROOVE PANEL, DOOR AND METHOD OF CONSTRUCTION ~71:AFRICA TIMBER MARKETING CC, Plot 365, R104 Road, Donkerhoek, Pretoria East, South Africa ~72: SERVAAS JACOBUS BADENHORST~

2022/12982 ~ Provisional ~54:TJA BOGOSHING ~71:Mareketle KEDIBONE MCHABELENG, NO 112B MMOTONG SECTION, South Africa ~72: Mareketle KEDIBONE MCHABELENG~

2022/12984 ~ Provisional ~54:MYNEWS COMMUNITY NEWS MOBILE APPLICATION CONCEPT ~71:Lucelle Shevonne Henry, Apartment 1202, The Franklin, 4 Pritchard Street, South Africa ~72: Lucelle Shevonne Henry~

2022/12992 ~ Complete ~54:METHOD FOR TREATING DEAD MONOPTERUS ALBUS IN AQUACULTURE CAGE ~71:Shanghai Academy of Agricultural Sciences, No.1000, Jinqi Road, Fengxian District, Shanghai, People's Republic of China;Shanghai Ocean University, No.999, Huchenghuan Rd, Pudong New Area, Shanghai, People's Republic of China ~72: Dong LIU;Lang GUI;Mingyou LI;Qinghua ZHANG;Quan YUAN;Weiwei HUANG;Weiwei LV;Wenzong ZHOU;Xiaolin SUN~

2022/12994 ~ Complete ~54:AN EXTRACTION PROCESS FOR CHOLESTEROL ~71:Anhui Kebao Biological Engineering Co., Ltd, Liuzhuang Industrial Park, Lieshan District, Huaibei City, People's Republic of China ~72: Guo Qing;Hua Mengjun;Xu Binpeng;Zhao Houfa;Zhao Lu~ 33:CN ~31:202210287018.9 ~32:22/03/2022

2022/12997 ~ Complete ~54:METHOD FOR EXTRACTING AND PURIFYING MANGIFERIN FROM MANGO KERNEL ~71:HEZHOU UNIVERSITY, No.18, Xihuan Road, Hezhou City, People's Republic of China ~72: KANG, Chao;LIU, Fengting~

2022/13029 ~ Provisional ~54:THE SPICE BABE ~71:LEONARD PETERSEN FAMILY TRUST I/T 132/2004, 45-30TH AVE, ELSIES RIVER, South Africa ~72: LEONARD PETERSEN ~

2022/12989 ~ Complete ~54:CONDITIONING AGENT FOR REPAIRING SOIL CONTAMINATED WITH HEAVY METAL CADMIUM, PREPARATION METHOD AND APPLICATION THEREOF ~71:Hebei North University, No. 11, Zuanshi South Road, High tech Zone, Zhangjiakou City, Hebei Province, 075000, People's Republic of China;Institute of Agricultural Resources and Environment, Hebei Academy of Agriculture and Forestry Sciences, No. 598, Heping West Road, Shijiazhuang City, Hebei Province, 050050, People's Republic of China ~72: HOU, Limin;LIU, Lei;RU, Shuhua;SUN, Shiyou;WANG, Jiqing;XIAO, Guangmin;ZHAO, Ouya~

2022/12991 ~ Complete ~54:MANUFACTURING METHOD OF MEDICAL COMPRESSION STOCKING ~71:Shandong Liangyue Medical Instrument Technology Co. LTD, Building A4, Tancheng High-tech Electronics Industrial Park, Qingshan Village, Lizhuang Town, Tancheng County, Linyi City, Shandong Province, People's Republic of China ~72: Fengxian JIANG;Lin LIANG~ 33:CN ~31:202210815259.6 ~32:08/07/2022

2022/13015 ~ Complete ~54:IL-2 SEQUENCES AND USES THEREOF ~71:ASCENDIS PHARMA ONCOLOGY DIVISION A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: GUNNARSSON, Nina;MALECKIS, Matiss;ROSEN, David, B~ 33:EP ~31:20177974.1 ~32:03/06/2020;33:EP ~31:20202299.2 ~32:16/10/2020;33:US ~31:63/116,102 ~32:19/11/2020;33:EP ~31:20216052.9 ~32:21/12/2020;33:EP ~31:21160477.2 ~32:03/03/2021;33:EP ~31:21162030.7 ~32:11/03/2021

2022/13017 ~ Complete ~54:GAIT ANALYSIS SYSTEM ~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;XUEFANG WU~ 33:US ~31:63/030,006 ~32:26/05/2020;33:US ~31:63/054,007 ~32:20/07/2020

2022/13020 ~ Complete ~54:RANDOM MAC CONFIGURING ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BERNSEN, Johannes Arnoldus Cornelis~ 33:EP ~31:20172609.8 ~32:01/05/2020;33:EP ~31:20181399.5 ~32:22/06/2020

2022/13027 ~ Complete ~54:VENTILATION MONITORING METHOD AND SYSTEM THEREFOR ~71:NORTH-WEST UNIVERSITY, 11 Hoffman Street, POTCHEFSTROOM 2520, SOUTH AFRICA, South Africa ~72: GROBLER, Magdalena Johanna;MARAIS, Henri-Jean;VAN KAMPEN, Bas Derk~ 33:ZA ~31:2020/02432 ~32:05/05/2020

2022/12980 ~ Provisional ~54:ADJUSTABLE, INTERCHANGEABLE HOLSTER ~71:Johan Hendrik Georg van der Merwe, Plot 153-3 Second Ave, Gerhardsville,, South Africa ~72: Van der Merwe, Johan Hendrik Georg~

2022/13016 ~ Complete ~54:SYNCHRONOUS WIND WHEEL WITH MULTIPLE ROWS OF TURBINE FAN ~71:LIU, Fangping, 403, Building 100, Baile Road, Wangdian Town, Xiuzhou District, Jiaxing, Zhejiang, 314011, People's Republic of China ~72: LIU, Fangping~ 33:CN ~31:202022623342.2 ~32:13/11/2020

2022/13018 ~ Complete ~54:WIND TURBINE TOWER ~71:DREIVENTUM S.L.U., La Rioja, 17-7, Spain ~72: ESTAÚN IBAÑEZ, Miguel;JIMENO ALONSO, Jorge~ 33:ES ~31:ES202030987U ~32:20/05/2020

2022/13025 ~ Complete ~54:RNAI CONSTRUCTS FOR INHIBITING HSD17B13 EXPRESSION AND METHODS OF USE THEREOF ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: COLLINS, Patrick;DAS, Amrita;HERBERICH, Bradley J.;HOMANN, Oliver;LIN, Daniel C.H.;MURRAY, Justin K.;OLLMANN, Michael~ 33:US ~31:63/033,128 ~32:01/06/2020

2022/13001 ~ Complete ~54:HOUSING FOR A LASER PROCESSING MACHINE AND LASER PROCESSING MACHINE HAVING A HOUSING ~71:BLM S.P.A., Via Selvaregina, 30, CANTU' 22063, (CO), ITALY, Italy ~72: CATTANEO, Corrado;COLOMBO, Andrea;CROSATO, Andrea;GEMIGNANI, Roberto;RAFFAELLI, Davide;RIVA, Giovanni~ 33:IT ~31:102021000030653 ~32:03/12/2021

2022/13002 ~ Complete ~54:AIR COOLER FOR LIQUIDS ~71:HiRef S.p.A., Viale Spagna, 31/33, TRIBANO (PD) 35020, ITALY, Italy ~72: FACCIO, Matteo;MANTOVAN (Deceased), Mauro;POLETTO, Fabio;SIMONATO, Luca~ 33:IT ~31:102021000030377 ~32:01/12/2021

2022/13008 ~ Complete ~54:A TUBE BENDING DEVICE FOR PROCESSING TUBULAR METAL MATERIALS ~71:Xuzhou College of Industrial Technology, No.1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu, People's Republic of China ~72: Zhang Chaoyan;Zhang Lixia~

2022/13067 ~ Provisional ~54:ENHANCED GRAVITY BATTERIES USING VACUUM PHYSICS ~71:Emile Engelbrecht, 101 Dennis Road, 13 Surrey Manor, South Africa ~72: Emile Engelbrecht~

2022/12995 ~ Complete ~54:A METHOD OF SYNCHRONOUS RECOVERY OF AU AND VALUE-ADDED UTILIZATION OF SB IN AU-BEARING ANTIMONY ORE ~71:Kunming University of Science and Technology, No.68, Yieryi Street, Wenchang Road, Wuhua District, Kunming, Yunnan, 650500, People's Republic of China ~72: Hou Kanwen;Jiang Wenlong;Kong Xiangfeng;Li Yifu;Liu Dachun;Shi Hongyong;Tian Yang;Wang Fei;Wang Wei;Xia Lixin;Xiong Heng;Xu Baoqiang;Yang Bin;Yang Jia~

2022/12996 ~ Complete ~54:PUMPED STORAGE UNIT ~71:Xianbo HU, Room 502, Building 34, Hupan Yujing, No. 65 Huantan Road, Xiangshan District, Huaibei, Anhui, People's Republic of China ~72: Xianbo HU~ 33:CN ~31:202211044739.3 ~32:23/08/2022

2022/12998 ~ Complete ~54:SALT-BATH KEROSENE HEATING AND CRACKING SIMULATION TEST METHOD ~71:Hunan Institute Of Traffic Engineering, Daiyingling,Zhengxiang District, Hengyang City, Hunan Province, 421001, People's Republic of China ~72: Sha PAN;Wenxiong XI;Xincai LI;Zhijian LUO~

2022/12999 ~ Complete ~54:METHOD OF CLEANING A STEEL SURFACE ~71:NUVEST RECOVERY SOLUTIONS (PTY) LTD, 65 Philip Engelbrecht Dr, Meyersdal, 1448, South Africa ~72: ARTHUR PRETORIUS;IAN TUNNICLIFFE~ 33:ZA ~31:2021/09746 ~32:26/11/2021

2022/13000 ~ Complete ~54:HOUSING FOR A LASER PROCESSING MACHINE AND LASER PROCESSING MACHINE HAVING A HOUSING ~71:BLM S.P.A., Via Selvaregina, 30, CANTU' 22063, (CO), ITALY, Italy ~72: CATTANEO, Corrado;COLOMBO, Andrea;CROSATO, Andrea;GEMIGNANI, Roberto;RAFFAELLI, Davide;RIVA, Giovanni~ 33:IT ~31:102021000030638 ~32:03/12/2021

2022/13009 ~ Complete ~54:AN AUXILIARY MARKING DEVICE FOR WATERWAYS ~71:Zhejiang International Maritime College, No. 268, Haitian Avenue, Lincheng, Dinghai District, Zhoushan City, Zhejiang Province, People's Republic of China ~72: Chen Jianliang;Hao Yongzhi;Li Yongguang;Xu Chao;Yang Qilei;Zhang Yijiu~

2022/13010 ~ Complete ~54:IMMOBILISED LIPASE AND METHOD OF PRODUCING BIODIESEL USING THE SAME ~71:VAAL UNIVERSITY OF TECHNOLOGY, VANDERBIJLPARK CAMPUS ANDRIES POTGIETER BLVD VANDERBIJLPARK, South Africa ~72: FETO, Naser Aliye;MOLOTO, Makwena Justice;NKHI, Mpho Gladys~

2022/13019 ~ Complete ~54:A FILLER COMPOUND AND USE OF A FILLER COMPOUND ~71:SAINT-GOBAIN PLACO, Tour Saint-Gobain 12 place de l'Iris, France ~72: ADAM, Robert;RIDDLE, Carl~ 33:EP ~31:20305837.5 ~32:21/07/2020

2022/13026 ~ Complete ~54:CANNABINOID RECEPTOR TYPE 2 (CB2) MODULATORS AND USES THEREOF ~71:Teon Therapeutics, Inc., 555 Twin Dolphin Dr., Suite 120, REDWOOD CITY 94065, CA, USA, United States of America ~72: ELZEIN, Elfatih;LIU, Jiwen~ 33:US ~31:63/020,489 ~32:05/05/2020;33:US ~31:63/054,096 ~32:20/07/2020

2022/12983 ~ Provisional ~54:GRAVIGEM ~71:Peter Phillip Jordaan, 28 Marseille Crescent, South Africa ~72: Peter Phillip Jordaan~

2022/12985 ~ Provisional ~54:CONNECTOR BOX AND RETENTION FORMATION ~71:PIMMS Group (Pty) Ltd, 1050 Liner Ave, Corner Zeiss Rd, Laser Park, Honeydew, South Africa ~72: SHANE KEATES~

2022/12986 ~ Complete ~54:SELF-EXCITED VIBRATION SENSOR ~71:Jinjiang Wanxinchen Electronic Technology Co., Ltd., 205, Zone B, Sanchuang Park, Century Avenue, Luoshan Street, Jinjiang City, Quanzhou City, Fujian Province, 362200, People's Republic of China ~72: CAI, Shuri;CHEN, Zuhui;GAN, Li;LIU, Xin;NI, Cairong;NI, Zhensong;SU, Xin;ZHANG, Xiaochen~

2022/12987 ~ Complete ~54:FLUE GAS WASTE HEAT RECOVERY SYSTEM AND RECOVERY METHOD THEREOF ~71:Central South University, No. 932, Lushan South Road, Yuelu District, Changsha City, Hunan Province, 410000, People's Republic of China ~72: LIU, Han;TU, Fubing;ZHANG, Yifei;ZHANG, Zuheng~ 33:CN ~31:202111484392.X ~32:07/12/2021

2022/12988 ~ Complete ~54:SEEDER FOR QUICKLY REPLACING SEEDING TRAY ~71:SICHUAN AGRICULTURAL UNIVERSITY, No 221 Huimin Road, Wenjiang District, Chengdu City, Sichuan Province, People's Republic of China ~72: JIANG Yuxiao;LV Xiaolian;LV Xiaorong;TU Xinye;YANG Long~

2022/12993 ~ Complete ~54:FENCE PILE PRE-EMBEDDER ~71:GUIZHOU EXTENSION STATION OF GRASSLAND TECHNOLOGY, Zhulin 2055, Dashuigou, Huaxi District, People's Republic of China;GUIZHOU UNIVERSITY, College of Forestry, Guizhou University, People's Republic of China;GUIZHOU VOCATIONAL COLLEGE OF AGRICULTURE, West of Vocational Education Town, Qingzhen City, People's Republic of China ~72: CHEN, Xiuhua;DAI, Xinghong;LI, Li;LIU, Jiming;LUO, Bin;SU, Shaoyuan;WANG, Puchang;WANG, Shunying;WANG, Zhiwei;YANG, Xuedong~

. - APPLIED ON 2022/12/01 -

2022/13032 ~ Complete ~54:IN-MINE-SHAFT SEISMIC MONITORING DEVICE ~71:Huating Coal Industry Group Co., Ltd., No. 109, Lianhu Road, Shangting Community, Xihua Town, Huating City, Pingliang City, Gansu Province, People's Republic of China;Xuzhou Hongyi Technology Development Co., Ltd., No. 20-1-611, Zhongneng Science and Technology Park, Third Ring South Road, Quanshan District, Xuzhou City, People's Republic of China ~72: DONG Yiwu;GE Qing;GONG Siyuan;GUO Minjie;LI Shoufeng;LIN Fei;QU Ying;TANG Lei;WANG Juanjuan;WANYAN Xiaoliang;XUE Zaijun;YANG Haitao~ 33:CN ~31:202211188531.9 ~32:28/09/2022

2022/13033 ~ Complete ~54:ENVIRONMENT-FRIENDLY PREPARATION METHOD OF CHLOROACETALDEHYDE ~71:China University of Petroleum (East China), No. 739, Bei Yi Road, Dongying district, Dongying city, Shandong province, People's Republic of China;Dongying Wanghao Chemical Co., LTD, No. 1 Fengshou Road, Shengtuo Town, Kenli District, Dongying city, Shandong province, People's Republic of China ~72: FU Lingzi;LIN Aiguo;MENG Xianlong;WU Chunfeng;YUAN Haifeng;YUAN Yufeng~

2022/13036 ~ Complete ~54:METHOD FOR INTEGRATED FARMING OF RICE, RICE FIELD EEL, RED SWAMP CRAYFISH AND CHINESE SOFT-SHELLED TURTLE ~71:Shanghai Academy of Agricultural Sciences, No.1000, Jinqi Road, Fengxian District, Shanghai, 201403, People's Republic of China ~72: Quan YUAN;Weiwei HUANG;Weiwei LV;Wenzong ZHOU;Xiao WANG;Xiaolin SUN;Yaqin LIU~

2022/13038 ~ Complete ~54:A NOVEL POLYMERIC MICELLE AND PROCESS THEREOF ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, PUNJAB, India ~72: Dr. Monica Gulati;Dr. Sachin Kumar Singh;Jaskiran Kaur~ 33:IN ~31:202211008808 ~32:20/02/2022

2022/13056 ~ Complete ~54:METHOD OF PRODUCING ULTRA-HIGH-PURITY PIG IRON BY IRON BATH SMELTING REDUCTION PROCESS ~71:SHANDONG MOLONG PETROLEUM MACHINERY CO., LTD, No.999, Wensheng Street, Shouguang City, Weifang, Shandong, 262700, People's Republic of China ~72: CHEN, Qingmeng;HAN, Junyi;WANG, Jinxia;ZHANG, Guanqi;ZHANG, Xiaofeng~ 33:CN ~31:202010877489.6 ~32:27/08/2020

2022/13060 ~ Complete ~54:GENETICALLY MODIFIED NATURAL KILLER CELLS FOR CD70-DIRECTED CANCER IMMUNOTHERAPY ~71:Nkarta, Inc., 6000 Shoreline Court, Suite 102, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: CHAN, Ivan;GUO, Chao;JAMBORETZ, Katherine;LAZETIC, Alexandra Leida Liana;TRAGER, James Barnaby~ 33:US ~31:63/038,645 ~32:12/06/2020;33:US ~31:63/090,041 ~32:09/10/2020;33:US ~31:63/141,411 ~32:25/01/2021;33:US ~31:63/201,490 ~32:30/04/2021

2022/13049 ~ Complete ~54:IMAGE ENHANCEMENT METHOD AND APPARATUS ~71:HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., No.555, Qianmo Road, Binjiang District, Hangzhou, 310051, People's Republic of China ~72: FANGDONG CHEN~ 33:CN ~31:202010508167.4 ~32:05/06/2020

2022/13053 ~ Complete ~54:SELECTIVE CDK4/6 INHIBITOR CANCER THERAPEUTICS ~71:LUNELLA BIOTECH, INC., 145 Richmond Road, Ottawa, Ontario, K1Z 1A1, Canada ~72: FEDERICA SOTGIA;JUSSI KANGASMETSA;MICHAEL P LISANTI~ 33:US ~31:63/037,898 ~32:11/06/2020

2022/13052 ~ Complete ~54:TRANSACTION CARDS WITH DISCONTINUOUS METAL STRATA ~71:COMPOSECURE, LLC, 500 Memorial Drive, Somerset, New Jersey, 08873, United States of America ~72: ADAM LOWE;JOHN ESAU~ 33:US ~31:63/032,911 ~32:01/06/2020

2022/13058 ~ Complete ~54:METHOD AND DEVICE FOR CONTROLLING FOAMED SLAG FURNACE CONDITIONS IN IRON BATH SMELTING REDUCTION ~71:SHANDONG MOLONG PETROLEUM MACHINERY CO., LTD, No.999, Wensheng Street, Shouguang City, Weifang, Shandong, 262700, People's Republic of China ~72: CHEN, Qingmeng;HAN, Junyi;WANG, Jinxia;ZHANG, Guanglei;ZHANG, Guanqi~ 33:CN ~31:202010877523.X ~32:27/08/2020

2022/13063 ~ Complete ~54:IMPROVED ANTIGEN BINDING RECEPTORS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: DAROWSKI, Diana;FREIMOSER-GRUNDSCHOBER, Anne;KLEIN, Christian;MOESSNER, Ekkehard~ 33:EP ~31:20189196.7 ~32:03/08/2020;33:EP ~31:21158659.9 ~32:23/02/2021

2022/13061 ~ Complete ~54:ANTIBODIES BINDING TO CD3 AND CD19 ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: FREIMOSER-GRUNDSCHOBER, Anne;GONZALEZ NICOLINI, Maria Valeria;HOSSE, Ralf;KLEIN, Christian;KNAUPP, Alexander;MOESSNER, Ekkehard;RICHTER, Wolfgang;TROCHANOWSKA, Halina;UMAÑA, Pablo;WALDHAUER, Inja~ 33:EP ~31:20181056.1 ~32:19/06/2020

2022/13066 ~ Complete ~54:ANTIBODIES BINDING TO CD3 AND FOLR1 ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BRUENKER, Peter;GEIGER, Martina;KLEIN, Christian;KNAUPP, Alexander~ 33:EP ~31:20181022.3 ~32:19/06/2020

2022/13037 ~ Complete ~54:IMPROVEMENT OF PRODUCTION EFFICIENCY OF LARGE PASTA MACHINE BY KALMAN FILTER OPTIMIZATION ALGORITHM ~71:Hunan Agricultural University, No. 1 Nongda Road, Furong District, Changsha City, Hunan Province, People's Republic of China;SHEN JING BO, No. 1 Nongda Road, Furong District, Changsha City, Hunan Province, People's Republic of China ~72: SHEN JING BO~

2022/13041 ~ Complete ~54:A NOVEL PAVER FOR RAINWATER HARVESTING AND METHOD THEREOF ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Atul Singla;Tara Singla;Vijay Mishra~ 33:IN ~31:202211018772 ~32:30/03/2022

2022/13047 ~ Complete ~54:METHODS RELATING TO MEDICAL DIAGNOSTICS AND TO MEDICAL DIAGNOSTIC SYSTEMS ~71:UNIVERSITY OF JOHANNESBURG, Cnr Kingsway Avenue and University Road, Auckland Park, JOHANNESBURG 2006, SOUTH AFRICA, South Africa ~72: ANDREW, Richard Charles;CONNELL, Simon Henry;COOK, Martin Nkululeko Hogan~ 33:ZA ~31:2020/02707 ~32:13/05/2020

2022/13055 ~ Complete ~54:NUT ARRANGEMENT, ROCK BOLT AND DRIVER APPARATUS ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, 2191 Sandton, South Africa ~72: MARTIN NARE MASITISE~ 33:GB ~31:2006483.8 ~32:01/05/2020;33:ZA ~31:2020/07430 ~32:30/11/2020

2022/13059 ~ Complete ~54:SPIRO-LACTAM COMPOUNDS AND METHODS OF TREATING VIRAL INFECTIONS ~71:Aptinyx Inc., 909 Davis Street, Suite 600, EVANSTON 60201, IL, USA, United States of America ~72: KHAN, M. Amin~ 33:US ~31:63/034,076 ~32:03/06/2020;33:US ~31:63/133,901 ~32:05/01/2021

2022/13064 ~ Complete ~54:STABLE CYMOXANIL FORMULATIONS ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: FIRER, Viacheslav;POLIAK, Diana~ 33:US ~31:63/035,960 ~32:08/06/2020

2022/13044 ~ Complete ~54:COMPOSITION COMPRISING ALBUMIN FOR USE IN THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS (ALS) BY PLASMA EXCHANGE ~71:GRIFOLS WORLDWIDE OPERATIONS LIMITED, Grange Castle Business Park, Ireland ~72: JORBA RIBES, Javier;PAEZ REGADERA, Antonio Manuel~ 33:EP ~31:20382375.2 ~32:07/05/2020

2022/13035 ~ Complete ~54:A DOUBLE-TRACTION TRANSFER VEHICLE ~71:Jiangsu Zhengjin Special Vehicle Manufacturing Co., Ltd., 288 meters west of 16 K intersection, Masi Village, Datun Sub-district Office, Pei County, Xuzhou, Jiangsu, People's Republic of China ~72: Houdong Sun;Yang Sun~ 33:CN ~31:202210783502.0 ~32:27/06/2022

2022/13042 ~ Complete ~54:METHOD FOR SCREENING AND IDENTIFYING SORGHUM SALT-TOLERANT MATERIALS ~71:Sorghum Research Institute, Shanxi Agricultural University, No.238 Yunhua Street, Yuci District, Jinzhong City, Shanxi Province, People's Republic of China ~72: WANG Rui;YAN Fengxia;YANG Bin;ZHANG Haiyan;ZHANG Yizhong;ZHAO Weijun;ZHOU Fuping~

2022/13040 ~ Complete ~54:A NOVEL BAMBOO (BAMBUSOIDEAE) CONFECTIONARY ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Ashish Vyas;Dr. Chandra Mohan Mehta;Dr. Prasad Rasane;Dr. Sawinder Kaur;Jyoti Singh;Manisha Kumari;Pallavi Vyas~ 33:IN ~31:202211018773 ~32:30/03/2022

2022/13043 ~ Complete ~54:CABLE BRACE SYSTEM ~71:MOBIUS TECHNOLOGIES, LLC, 251 Northwood Way, Suite B, United States of America ~72: FLEMING, Darren~ 33:US ~31:16/436,786 ~32:10/06/2019

2022/13045 ~ Complete ~54:PROCESS FOR EXTRACTING A HYALURONIC ACID FROM A FUNGUS, A HYALURONIC ACID OF PLANT ORIGIN AND USE THEREOF ~71:VIVATIS PHARMA GMBH, Grüner Deich 1-3, Germany ~72: BOS, Peter;CERANA, Giorgio Stefano~ 33:IT ~31:102020000013618 ~32:08/06/2020;33:IT ~31:102020000013633 ~32:08/06/2020

2022/13051 ~ Complete ~54:CANNABIS WITH ALTERED CANNABINOID CONTENT ~71:BETTERSEEDS LTD, 54 Birkat Am Street, POB 46 , Givat Chen, 4390500, Israel ~72: IDO MARGALIT;SHIRA COREM;TAL SHERMAN~ 33:US ~31:62/705,719 ~32:13/07/2020

2022/13054 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING INSOLUBLE ACTIVE INGREDIENTS ~71:ADVENT THERAPEUTICS INC., 6500 Old Carversville Road, Lumberville, Pennsylvania, 18933-9729, United States of America ~72: CRAIG ALAN GELFAND;DAVID LAWRENCE LOPEZ;ROBERT SEGAL;VIRENDER REHAN~ 33:US ~31:63/032,768 ~32:01/06/2020;33:US ~31:63/054,425 ~32:21/07/2020;33:US ~31:63/069,927 ~32:25/08/2020

2022/13039 ~ Complete ~54:A NOVEL PHARMACEUTICAL FORMULATION FOR CHLOROGENIC ACID ~71:LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, India ~72: Goutam, Umesh;Kumar, Bimlesh;Pandey, Narendra Kumar;Panja, Amica;Singh, Sachin Kumar~ 33:IN ~31:202211002752 ~32:18/01/2022

2022/13046 ~ Complete ~54:PROCESS FOR THE PREPARATION OF VERDIPERSTAT ~71:BIOHAVEN THERAPEUTICS LTD., 215 Church Street, New Haven, Connecticut, United States of America ~72: CHILAKALA, Dhanaraj;KANDIYALA, Srinivasa;KATHAM, Srinivasa;KEDAS, Chendrasekhar;MENDE, Sreenivas;PENDRI, Yadagiri R~ 33:US ~31:63/021,041 ~32:06/05/2020

2022/13048 ~ Complete ~54:ENCODING AND DECODING METHOD AND APPARATUS, AND DEVICE THEREFOR ~71:HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., No.555 Qianmo Road, Binjiang District Hangzhou, Zhejiang, 310051, People's Republic of China ~72: YUCHENG SUN~ 33:CN ~31:202010486400.3 ~32:01/06/2020

2022/13050 ~ Complete ~54:MICROORGANISM WITH KNOCK-IN AT ACETOLACTATE DECARBOXYLASE GENE LOCUS ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: CHING LEANG~ 33:US ~31:63/035,739 ~32:06/06/2020

2022/13057 ~ Complete ~54:METHOD FOR LAYING REFRACTORIES OF SMELTING REDUCTION VESSEL ~71:SHANDONG MOLONG PETROLEUM MACHINERY CO., LTD, No.999, Wensheng Street, Shouguang City, Weifang, Shandong, 262700, People's Republic of China ~72: WANG, Jinxia;WEI, Zhaoqiang;ZHANG, Guanglei;ZHANG, Guanqi;ZHANG, Xiaofeng~ 33:CN ~31:202010858082.9 ~32:24/08/2020

2022/13062 ~ Complete ~54:NOVEL SMALL MOLECULES FOR TARGETED DEGRADATION OF UNTARGETABLE KRAS IN CANCER THERAPY ~71:Pillai Universal LLC, 963 Topsy Lane 306-351, CARSON CITY 92590, NV, USA, United States of America ~72: DINESH , M. G.;PILLAI, Baskaran~ 33:IN ~31:202041023434 ~32:04/06/2020

2022/13065 ~ Complete ~54:NOVEL CONSTRUCTS FOR CHIMERIC ANTIGEN RECEPTORS ~71:Carisma Therapeutics Inc., 3675 Market Street, Ste 200, PHILADELPHIA 19104, PA, USA, United States of America ~72: ANDERSON, Nicholas;KLICHINSKY, Michael;MINUTOLO, Nicholas~ 33:US ~31:63/034,873 ~32:04/06/2020;33:US ~31:63/044,934 ~32:26/06/2020;33:US ~31:63/082,584 ~32:24/09/2020

2022/13034 ~ Complete ~54:WORKING ASSEMBLY FOR OFFSHORE OIL POLLUTION TREATMENT DEVICE ~71:Anhui University of Technology, No. 59, Hudong Road, Ma'anshan City, Anhui Province, 243002, People's Republic of China ~72: CHEN, Xiaoyu;HONG, Wenyan;LIU, Yuntao;SHI, Fangzhi;WU, Jinlong;YAO, Zhijie;ZHANG, Chenyang~

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2022/13073 ~ Complete ~54:METHOD FOR PREPARING EFFICIENT ANTI-BLOCKING SELF-PURIFICATION STEEL SLAG MICROBIAL PERVIOUS CONCRETE ~71:Anhui University of Technology, No. 59, Hudong Road, Ma'anshan City, Anhui Province, 243002, People's Republic of China ~72: FANG, Yuan;WU, Ping;YIN, Longlong;YU, Feng~

2022/13076 ~ Complete ~54:A SHRIMP CHILI SAUCE AND A PREPARATION METHOD THEREOF ~71:Yongxing Zheng, 601, Building 11, Liantang Panshan Huayuan, Luohu Dist., Shenzhen, Guangdong, People's Republic of China ~72: Yongxing Zheng~

2022/13088 ~ Complete ~54:AN INFECTIOUS DISEASE SCREENING 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:EP ~31:20177685.3 ~32:01/06/2020;33:US ~31:63/064,386 ~32:11/08/2020;33:EP ~31:20200852.0 ~32:08/10/2020;33:EP ~31:20214228.7 ~32:15/12/2020;33:GB ~31:PCT/GB2021/050822 ~32:01/04/2021

2022/13098 ~ Complete ~54:PLASTIC CONTAINER COMPRISING AT LEAST ONE ANTI-ROTATION PORTION ~71:Sidel Participations, Avenue de la Patrouille de France, OCTEVILLE-SUR-MER 76930, FRANCE, France ~72: BOUKOBZA, Michel;DERRIEN, Mikael~ 33:FR ~31:2005964 ~32:08/06/2020

2022/13074 ~ Complete ~54:METHOD FOR CATCHING NICOTINE FROM TOBACCO REDRIED FLUE GAS BY USING MOLECULARLY IMPRINTED POLYMER ~71:Kunming University of Science and Technology, No. 68, Wenchang Road, 121 Street, Kunming City, Yunnan Province, 650504, People's Republic of China;Yunnan Tobacco leaf Co., Ltd, No. 51, Yuantong Street, Wuhua District, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: GU, Lili;HUANG, Wenyong;JING, Lianpeng;LI, Ruidong;LI, Zengliang;PENG, Jian;TANG, Xuyu;WANG, Xianyou;YANG, Zehui;YAO, Wen~

2022/13081 ~ Complete ~54:COOLING SYSTEM, AIR-CONDITIONING SYSTEM, MOTOR ASSEMBLY AND ASSOCIATED METHODS ~71:EOSGEN-TECHNOLOGIES, 12 Avenue des Saules, France ~72: VERNET, Jean-Philippe Georges~ 33:FR ~31:2004428 ~32:05/05/2020

2022/13082 ~ Complete ~54:MULTIPLEX PCR DETECTION KIT FOR GARLIC VIRUSES ~71:JIANGSU XUHUAI DISTRICT XUZHOU INSTITUTE OF AGRICULTURAL SCIENCES (JIANGSU XUZHOU SWEET POTATO RESEARCH CENTER), Room 8405, Keyan Building, Xuzhou Academy Of Agricultural Sciences, Xuhai Road, Xuzhou, People's Republic of China ~72: FAN, Jide;GE, Jie;LI, Yong;LIU, Canyu;LU, Xinjuan;SHI, Xinmin;YANG, Feng;YANG, Qingqing;ZHANG, Biwei;ZHAO, Yongqiang~ 33:CN ~31:202111255823.5 ~32:27/10/2021

2022/13091 ~ Complete ~54:ANTISTATIC POWDER COATING AND PREPARATION METHOD THEREFOR ~71:Wesdon River Powder Paint Scientific Research Co., Ltd., No. A1-1, Nanhai Plainvim International Smart Industrial Park, No. 12-1, Huasha Road, Shishan Town, Nanhai District, Foshan, Guangdong, 528200, People's Republic of China ~72: Xinping ZHU;Yanming WU;Yufu WEI;Zhuoxuan HUANG~ 33:CN ~31:202011574451.8 ~32:25/12/2020

2022/13094 ~ Complete ~54:METHOD TO ROAST COFFEE BEANS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DUBIEF, Flavien Florent;MOREND, Joël~ 33:EP ~31:20173946.3 ~32:11/05/2020

2022/13071 ~ Complete ~54:METHOD FOR PREPARING COMPOSITE CEMENTITIOUS MATERIAL BY USING IRON TAILING POWDER, FINE SLAG POWDER AND DESULFURIZATION ASH ~71:Anhui Masteel Jiahua New Building Materials Co., Ltd., Liannong Village, Jiangbian, Ma'anshan City, Anhui Province, 243000, People's Republic of China;Anhui University of Technology, No. 59, Hudong Road, Ma'anshan City, Anhui Province, 243002, People's Republic of China ~72: CHEN, Zhonghua;FANG, Yuan;GUO, Weidong;LENG, Dezhi;YANG, Yun;YAO, Chi;YU, Feng~

2022/13075 ~ Complete ~54:VISIBLE LIGHT-RESPONSIVE PEANUT-SHAPED BISMUTH VANADATE AND PREPARATION METHOD THEREOF ~71:Shanghai Polytechnic University, No. 2360, Jinhai Road, Pudong New Area, Shanghai, 201209, People's Republic of China ~72: MAO, Yuqin;WEI, Jiangang;WU, Yuxin;ZHU, Luping~

2022/13079 ~ Complete ~54:COMPOSITION FOR NORMALISATION OF FATTY LIVER AND METHOD FOR PRODUCING THE SAME ~71:HOVID BERHAD, 121, Jalan Tunku Abdul Rahman, 30010 Ipoh Perak, Malaysia ~72: HO, David Sue San;HO, Sarah Lee-Mun~ 33:MY ~31:PI 2020002852 ~32:04/06/2020

2022/13085 ~ Complete ~54:METHOD FOR PRODUCTION OF VARICELLA ZOSTER VIRUS SURFACE PROTEIN ANTIGEN ~71:GREEN CROSS CORPORATION, 107, Ihyeon-ro 30beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 16924, Republic of Korea ~72: JI SUNG YOU;JI YEON KIM;JUNG AE LIM;KWANG BAE LEE;MI SUK KIM;SEUNG RYEL HAN;YOO MIN JEONG~ 33:KR ~31:10-2020-0085685 ~32:10/07/2020

2022/13092 ~ Complete ~54:CODON-OPTIMIZED NUCLEIC ACID THAT ENCODES SMN1 PROTEIN, AND USE THEREOF ~71:JOINT STOCK COMPANY "BIOCAD", Pomeschch. 89 Street, 1, d. 38, ul. Svyazi, Russian Federation ~72: GERSHOVICH, Pavel Mikhailovich;LOMUNOVA, Maria Andreevna;MADERA,

Dmitriy Aleksandrovich;MOROZOV, Dmitry Valentinovich;SHKLIAEVA, Margarita Aleksandrovna;SHUGAEVA, Tatiana Evgenievna;VESELOVA, Anna Sergeevna~ 33:RU ~31:2020118148 ~32:02/06/2020

2022/13099 ~ Complete ~54:ENOL ETHER PROPERFUME ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: WOMACK, Gary Bernard~ 33:US ~31:63/038,160 ~32:12/06/2020;33:EP ~31:20182200.4 ~32:25/06/2020

2022/13104 ~ Complete ~54:TREATMENT OF NEUROLOGICAL DISEASES USING MODULATORS OF GENE TRANSCRIPTS ~71:QurAlis Corporation, 700 Main Street, North, CAMBRIDGE 02139, MA, USA, United States of America ~72: ELBAUM, Daniel;HINCKLEY, Sandra~ 33:US ~31:63/033,926 ~32:03/06/2020;33:US ~31:63/119,717 ~32:01/12/2020

2022/13068 ~ Provisional ~54:USE OF NOVEL PHTHALOCYANINE COMPOUNDS FOR THE TREATMENT OF DISEASES ~71:RHODES UNIVERSITY, Drosty Road, Makhanda (formerly Grahamstown), South Africa ~72: NYOKONG, Tebello;SEN, Pinar~

2022/13069 ~ Provisional ~54:HORTICULTURAL LIGHTING AND METHOD OF USE ~71:GIANTLIGHT (PTY) LTD, 169 Bush Telegraph Road, Northlands Business Park, North Riding, South Africa ~72: HORLACHER, Otto~

2022/13072 ~ Complete ~54:NOVEL CLINKER-FREE HIGH-PERFORMANCE LOW-COST COMPOSITE CEMENTITIOUS MATERIAL ~71:Anhui Masteel Jiahua New Building Materials Co., Ltd., Liannong Village, Jiangbian, Ma'anshan City, Anhui Province, 243000, People's Republic of China;Anhui University of Technology, No. 59, Hudong Road, Ma'anshan City, Anhui Province, 243002, People's Republic of China ~72: FANG, Yuan;HOU, Fei;WANG, Liang;WANG, Xianshuang;WANG, Zongsen;YAO, Chi;YU, Feng~

2022/13084 ~ Complete ~54:ANTI-HERV-W ENVELOPE PROTEIN ANTIBODY FOR USE IN THE TREATMENT OF PSYCHOTIC DISEASES ~71:FONDAMENTAL, Hôpital Albert Chenevier Pôle Psychiatrie 40 rue de Mesly, 94000, Creteil, France;GENEURO SA, Chemin du Pré-Fleuri 3, 1228, Plan-Les-Ouates, Switzerland ~72: HERVÉ PERRON;MARION LEBOYER~ 33:EP ~31:20305561.1 ~32:28/05/2020

2022/13096 ~ Complete ~54:CRYSTALLINE FORMS OF IRAK DEGRADERS ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: CORSON, Don;ZHENG, Xiaozhang~ 33:US ~31:63/034,088 ~32:03/06/2020

2022/13101 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: HUMEAU, Anne;MEUNIER , Marie;REYNAUD , Romain;SCANDOLERA, Amandine~ 33:GB ~31:2009109.6 ~32:16/06/2020

2022/13103 ~ Complete ~54:AMNIOTIC-LIKE EPITHELIAL CELL GENERATION ~71:The Babraham Institute, Babraham Hall, Babraham, CAMBRIDGE CB22 3AT, UNITED KINGDOM, United Kingdom ~72: ROSTOVSKAYA, Maria;RUGG-GUNN, Peter~ 33:GB ~31:2008119.6 ~32:29/05/2020

2022/13106 ~ Complete ~54:FLAVOR ADDITIVE FOR CIGARETTES AND PREPARATION METHOD THEREFOR ~71:HEBEI RUILONG BIOTECHNOLOGY CO., LTD, Room 3-2-602, Hengda Apartment, Weiming South Street, Qiaoxi District, Shijiazhuang City, People's Republic of China ~72: CHEN, Jian;CHEN, Zhimin;HE, Aimin;LI, Ang;LI, Weijia;ZHANG, Li~ 33:CN ~31:202010381944.3 ~32:08/05/2020

2022/13108 ~ Provisional ~54:METHOD AND APPARATUS TO TRACK,MANAGE AND RECORD SPORTING ACTIVITIES ~71:NDALAMO PHANNY MOTSHABI, 56 Midland Estate,, South Africa ~72: NDALAMO PHANNY MOTSHABI~

2022/13070 ~ Provisional ~54:REINFORCED COVERAGE SYSTEM ~71:SPAMER, Hendrik Jacobus Venter, 16 Castle Pine Crescent, Silver Lakes Golf Estate, South Africa ~72: SPAMER, Hendrik Jacobus Venter~

2022/13078 ~ Complete ~54:ABSORBENT WOUND DRESSING ~71:MEDTRADE PRODUCTS LIMITED, Electra House, Crewe Business Park, United Kingdom ~72: DEELEY, Nicola;HAYNES, Jennifer;JOHNSON, Neil;LANE, Thomas;O'BRIEN, Dr. Mark~ 33:GB ~31:2006588.4 ~32:04/05/2020

2022/13083 ~ Complete ~54:SIGNALING OF GENERAL CONSTRAIN INFORMATION ~71:BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: LI ZHANG;YE-KUI WANG~ 33:US ~31:63/033,689 ~32:02/06/2020

2022/13086 ~ Complete ~54:MOUNTING SYSTEM, MOUNTING ASSEMBLY, AND SOLAR INSTALLATION ~71:K2 SYSTEMS GMBH, Industriestr. 18, 71272, Renningen, Germany ~72: BERND KOCH;MATTHEW G DANNING;MELANIE WIGGERS~ 33:DE ~31:10 2020 206 810.0 ~32:29/05/2020

2022/13089 ~ Complete ~54:AN INFECTIOUS DISEASE SCREENING SYSTEM ~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:EP ~31:20177685.3 ~32:01/06/2020;33:EP ~31:20200852.0 ~32:08/10/2020;33:EP ~31:20214228.7 ~32:15/12/2020;33:GB ~31:PCT/GB2021/050822 ~32:01/04/2021

2022/13095 ~ Complete ~54:CYCLOBUTYL DIHYDROQUINOLINE SULFONAMIDE COMPOUNDS ~71:Amgen Inc., One Amgen Center Drive, M/S 28-5-A, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CHERNEY, Alan H.;MARX, Isaac E.;MILGRAM, Benjamin C.;WANG, Haoxuan~ 33:US ~31:63/037,001 ~32:10/06/2020

2022/13090 ~ Complete ~54:BEADS AS TRANSPOSOME CARRIERS ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: BRODIN, Jeffery;FISHER, Jeffery S.;KHURANA, Tarun Kumar;ROSÀS-CANYELLES, Elisabet;SHEN, Fei;STORMS, Lena;WU, Yir-Shyuan~ 33:US ~31:63/049,172 ~32:08/07/2020

2022/13093 ~ Complete ~54:UNDERGROUND TANK SYSTEM AND METHOD OF MANUFACTURING AN UNDERGROUND TANK SYSTEM ~71:Morgan Rungen PILLAY, Allsop Road, Catoridge, South Africa ~72: PILLAY, Morgan Rungen~ 33:ZA ~31:2020/02706 ~32:13/05/2020

2022/13100 ~ Complete ~54:1-AMINO-1-CYCLOPROPANECARBOXYLIC ACID MIXTURES AND USES THEREOF ~71:Valent BioSciences LLC, 1910 Innovation Way, Suite 100, LIBERTYVILLE 60048, IL, USA, United States of America ~72: FRITTS Jr., Robert;SILVERMAN, Franklin Paul;SURPIN, Marci Ann;WOOLARD, Derek~ 33:US ~31:63/044,566 ~32:26/06/2020

2022/13077 ~ Complete ~54:MULTIFUNCTIONAL SPORTS EQUIPMENT ~71:Zhenfu Zou, No. 12, Xi An Group, Zhonghe Village, Longsheng Town, Beiliu, Yulin, Guangxi, People's Republic of China ~72: Zhenfu Zou~

2022/13080 ~ Complete ~54:USE OF A COMBINATION OF COLCHICINE AND A CXCR-2 INHIBITOR FOR THE TREATMENT OR PREVENTION OF FAMILIAL MEDITERRANEAN FEVER (FMF) AND FLARE-UPS THEREOF ~71:ARISTEA THERAPEUTICS, INC., 12770 High Bluff Drive, Suite 380, United States of America ~72: BAUMGARTNER, Scott;BHAKTA, Nihar~ 33:US ~31:63/035,500 ~32:05/06/2020

2022/13087 ~ Complete ~54:A UNIT DOSE CAPSULE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: YANCHAO CHEN~ 33:CN ~31:PCT/CN2020/100182 ~32:03/07/2020;33:EP ~31:20190809.2 ~32:13/08/2020

2022/13097 ~ Complete ~54:ECCENTRIC SCREW PUMP WITH A MODULAR DESIGN ~71:NETZSCH Pumpen & Systeme GmbH, Gebrüder-Netzsch-Straße 19, SELB 95100, GERMANY, Germany ~72: GOETZ, Frank;NUEBL, Philipp;VOIT, Stefan;ZIERHOFER, Martin~ 33:DE ~31:10 2020 114 937.9 ~32:05/06/2020

2022/13102 ~ Complete ~54:NEW COMPOUNDS AND THEIR USE AS THERAPEUTICALLY ACTIVE SUBSTANCES IN THE TREATMENT AND/OR PREVENTION OF DISEASES INVOLVING THE RETINAL PIGMENT EPITHELIUM ~71:Endogena Therapeutics, Inc., 111 Pine Street, SAN FRANCISCO 94111, CA, USA, United States of America ~72: MARIGO, Mauro;MUELLER, Alex;STEGER, Matthias~

2022/13105 ~ Complete ~54:METHOD OF MODIFYING A YEAST STRAIN, MODIFIED YEAST STRAINS OBTAINED THEREBY AND USES THEREOF ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: BRANDT, Bianca Anina;GÖRGENS, Johann Ferdinand;VAN ZYL, Willem Heber~ 33:ZA ~31:2020/02428 ~32:05/05/2020

2022/13107 ~ Complete ~54:A SALT RECOVERY SOLUTION AND PROCESSES OF USE THEREOF ~71:AQUAFORTUS TECHNOLOGIES LIMITED, c/- Simpson Grierson, Level 27, 88 Shortland Street, New Zealand ~72: MADDOX, Crystal;PRAKASH, Chaitra;TANG, Haiming~ 33:US ~31:63/050,402 ~32:10/07/2020

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2022/13112 ~ Provisional ~54:BUGGY WHIP/FLAG STICK SLEEVE ~71:Aloma Annelene Grobler, 24 Tuin Straat Oos , Postmasburg , 8420 , Northern Cape, South Africa ~72: Aloma Annelene Grobler~

2022/13116 ~ Complete ~54:A MODIFIED STYRENE BUTADIENE RUBBER, ITS PREPARATION METHOD AND APPLICATION, A COVERING RUBBER, ITS PREPARATION METHOD AND APPLICATION ~71:Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering, 87 Zhengyang Street, Xiaodian District, Taiyuan City, Shanxi Province, 030001, People's Republic of China;Taiyuan University of Technology, 79 Yingze West Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Fengbo ZHU;Fuyong LIU;Hongwei HE;Qiang ZHENG;Wenwen YU~

2022/13120 ~ Complete ~54:RECOMBINANT PLASMID OF ENTEROCOCCUS FAECALIS VACCINE, ITS CONSTRUCTION METHOD AND APPLICATION ~71:HEILONGJIANG AGRICULTURAL ECONOMY VOCATIONAL COLLEGE, Wenchun Town, Xi'an District, Mudanjiang City, Heilongjiang Province, People's Republic of China ~72: FAN Xuewei;JIANG Xin;LI Shudong;LI Xiaojuan;LIU Zhengping;QIAN Feng;TONG Guiwen~

2022/13130 ~ Complete ~54:DYNAMIC OBSERVATION SYSTEM FOR CROSS-SHORE PROFILE OF COASTAL ENGINEERING BEACH EVOLUTION PHYSICAL MODEL TEST ~71:Dalian Maritime University, No.1 Linghai Road,Ganjingzi District, Dalian City, Liaoning Province, People's Republic of China ~72: LIANG Bingchen;WANG Jun;YANG Bo;YANG Zhengtong;YOU Zaijin~

2022/13133 ~ Complete ~54:A WATER SURFACE CLEANING ROBOT ~71:Zhejiang International Maritime College, No. 268, Haitian Avenue, Lincheng, Zhoushan, Zhejiang, 316021, People's Republic of China ~72: Feijun Guo;Haixia Zhu;Jialing Jiang;Minchao Xu;Mingwei Xu;Yiming Wang;Zhenhang Zhong~ 33:CN ~31:202111478030.X ~32:06/12/2021

2022/13137 ~ Complete ~54:A THIN-WALLED MULTI-CAVITY MOULD RAPID PROTOTYPING EQUIPMENT ~71:Suqian University, No. 399, Huanghe South Road, Sucheng District, Suqian City, Jiangsu Province, People's Republic of China ~72: Chen Yegao;Li Shuyong;Pan Haicheng;Sun Xiaoxia;Zhang Jun~ 33:CN ~31:202210375592.X ~32:11/04/2022

2022/13144 ~ Complete ~54:SELECTION METHOD OF SEED TREES WITH EXCELLENT FRUITING CHARACTERS IN NATURAL FOREST PINUS KORAIENSIS SIBE.ET ZUCC ~71:JILIN PROVINCIAL ACADEMY OF FORESTRY SCIENCES, NO. 3528, LINHE STREET, People's Republic of China ~72: LI, Guoquan;LU, Zhimin;LUO, Ye;WANG, Fang;WANG, Jun;WANG, Yuanxing;YANG, Yuchun;YU, Haiyang;ZHANG, Yanming~

2022/13155 ~ Complete ~54:A PROCESS FOR MAKING A PARTICULATE LAUNDRY DETERGENT COMPOSITION ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: DYTER, Zoe;PREST, Joss;ROBLES, Eric San Jose;TANTAWY, Hossam Hassan~ 33:EP ~31:20184329.9 ~32:06/07/2020

2022/13171 ~ Complete ~54:TEMPORARY POOL COVER AND FLOOR SYSTEM ~71:COLHURST CONCEPTS, LLC, 5935 Colhurst Street, Dallas, Texas, 75230, United States of America ~72: ITALIA MARISOL OVALLE;LUIS FERNANDO RAMIREZ;SHERWOOD NOËL WAGNER~ 33:US ~31:16/866,662 ~32:05/05/2020

2022/13117 ~ Complete ~54:CONVEX-SHAPED CARBON BRUSH OF AUTOMOBILE RIPPLE MOTOR AND PREPARATION METHOD THEREOF ~71:Zhejiang Industry And Trade Vocational College, No. 301, Yanyun Road, Oujiangkou Industrial Cluster, Wenzhou, Zhejiang Province, 325700, People's Republic of China;Zhejiang Kav Carbon Material Co., Ltd., No. 478, Linghua Road, Oujiangkou Industrial Cluster, Wenzhou, Zhejiang Province, 325700, People's Republic of China ~72: DUAN, Kaige;GAO, Yao;LIU, Taotao;MA, Jialun~

2022/13119 ~ Complete ~54:INTELLIGENT CAMPUS STREET LAMP CONTROL DEVICE ~71:Central China Normal University, NO.152 Luoyu Road, Wuhan, Hubei, People's Republic of China;Wuhan Redbirdedu Technology Co., Ltd., D-6F Chuangxinghui Science Park,No.8 Shanxi Road, Maodian, East Lake New Technology Development District, Wuha, Hube, People's Republic of China ~72: Chen Meiyi;Du Yuming;Han Yuan;Hu Xi;Ma Yanmei;Shi Jiahao;Sun Hanyuan;Wu Yanwen;Xiong Peng;Xiong Xujie~ 33:CN ~31:2022230118426 ~32:11/11/2022

2022/13123 ~ Complete ~54:METHOD FOR OBTAINING HIGH OLEIC ACID OILSEED RAPE BASED ON DOUBLE-LOCUS GENOME EDITING ~71:Huzhou Agricultural Science and Technology Development Center, No. 768, Luwang Road, Wuxing District, Huzhou City, Zhejiang Province, 313009, People's Republic of China;Zhejiang Academy of Agricultural Sciences, No. 198, Shiqiao Road, Hangzhou City, Zhejiang Province, 310021, People's Republic of China ~72: HAO, Pengfei;HU, Hao;HUA, Shuijin;LIN, Baogang;LIU, Han;LOU, Weidong;REN, Yun~

2022/13127 ~ Complete ~54:METHOD AND DEVICE FOR HIERARCHICAL CONTROL METHOD OF URBAN ROAD SECTION BASED ON TRAFFIC FLOW RESILIENCE ~71:Tongji University, 1239 Siping Road, Shanghai, 200433, People's Republic of China ~72: Wang Yuejiao;Ye Xin~

2022/13134 ~ Complete ~54:MECHANICAL CLAW ~71:ZHEJIANG INSTITUTE OF MECHANICAL & ELECTRICAL ENGINEERING, 528 Binwen Road, Binjiang District, Hangzhou, Zhejiang, 310053, People's Republic of China ~72: Chen Xiaohong;Gu Qijun;Qiu Jiafei~

2022/13139 ~ Complete ~54:CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR ~71:Arnaldo S. De Guzman, School Director, University of Perpetual Help System, Dalta, Las Pinas City, 1740, Philippines;Dr. Pankaj Kumar Singh, Professor & Director - Research, R D Engineering College, C-10, Model Town, Ghaziabad, Uttar Pradesh, India;Dr. Parsanjeet Kumar, Professor & Pro Vice-Chancellor, Management, Noida International University, Uttar Pradesh, 201306, India;Dr. Prerna Gaur, Professor, Netaji Subhash University of Technology, Sec-3, Dwarka, Delhi, 110078, India;Dr. Sadhana Gupta, Associate Professor, IIMT College of Management, Greater Noida, Uttar Pradesh, India;Dr. Shilpi Singh, Associate Professor, Noida

International University, C-10, Model Town , Ghaziabad, Uttar Pradesh, 201001, India;IIMT College of Management, Greater Noida, 201310, Uttar Pradesh, India;Netaji Subhash University of Technology, Sec-3, Dwarka, Delhi, 110078, India;Noida International University, Plot -1 ,Yamuna Expressway, Sector -17 A, Uttar Pradesh, 203201, India;Prism Johnson Limited, Laxmi Niwas Apartments, Ameerpet, Hyderabad, 500016, India;R D Engineering College, 8th KM Mile Stone from Ghaziabad National Highway (NH) No-58, Delhi - Meerut Expy, Duhai, Ghaziabad, Uttar Pradesh, 201206, India;Sachin Singh, Executive Engg. Trainee, Prism Johnson Ltd, Hyderabad, India;Shruti Singh, MD, Doctorate Of Medicine, University Of Perpetual Help System, Dalta, 1740, Philippines;Subham Biswal, Student, Doctorate Of Medicine, 3rd Year, University Of Perpetual Help System, Dalta, 1740, Philippines;University Of Perpetual Help System Dalta, Phillipines, PIN - 1700, Philippines;Yogesh Gupta, Associate Professor, Mechanical Department, R D Engineering College, Ghaziabad, Uttar Pradesh, India ~72: Arnaldo S. De Guzman;Dr. Pankaj Kumar Singh;Dr. Parsanjeet Kumar;Dr. Prerna Gaur;Dr. Sadhana Gupta;Dr. Shilpi Singh;Sachin Singh;Shruti Singh;Subham Biswal;Yogesh Gupta~

2022/13145 ~ Complete ~54:PAPER SHEET FILTER ELEMENT FOR A SMOKING ARTICLE, AND ASSOCIATED METHOD ~71:R. J. REYNOLDS TOBACCO COMPANY, 401 North Main Street, Winston-Salem, United States of America ~72: ADEME, Balager;CHAPMAN, Paul Stuart;JONES, Wesley Steven~ 33:US ~31:63/034,856 ~32:04/06/2020

2022/13151 ~ Complete ~54:METHOD FOR OPERATING AN SOFC FOR THE COMBINED PRODUCTION OF ELECTRICITY AND NITRIC OXIDE ~71:YARA INTERNATIONAL ASA, Drammensveien 131, Norway ~72: LARRING, Yngve;RASTEN, Egil;WALLER, David~ 33:EP ~31:20184486.7 ~32:07/07/2020

2022/13160 ~ Complete ~54:THREE-DIMENSIONAL DATA ENCODING METHOD, THREE-DIMENSIONAL DATA DECODING METHOD, THREE-DIMENSIONAL DATA ENCODING DEVICE, AND THREE-DIMENSIONAL DATA DECODING DEVICE ~71:Panasonic Intellectual Property Corporation of America, 2050 W 190th Street, Suite 450, TORRANCE 90504, CA, USA, United States of America ~72: IGUCHI, Noritaka;SUGIO, Toshiyasu~ 33:US ~31:63/042,169 ~32:22/06/2020

2022/13172 ~ Complete ~54:METHOD OF COST OPTIMISATION ~71:KETCHA NGASSAM, Ernest, 21A METROPOLITAN STREET, South Africa ~72: HATSU, Sylvester;KETCHA NGASSAM, Ernest~ 33:WO ~31:PCT/IB2021/054478 ~32:24/05/2021

2022/13125 ~ Complete ~54:FRACTURE IDENTIFICATION METHOD USING RESERVOIR STRESS DATA ~71:Northeast Petroleum University, High-tech Zone, Daqing City, Heilongjiang Province, 163318, People's Republic of China ~72: LI, Fei;LIU, Yunxin;MU, Guangshan;XIU, Ouyang;YI, Xiaodong;ZHANG, Meiling~

2022/13131 ~ Complete ~54:METHOD FOR INHIBITING TOBACCO AXILLARY BUD GROWTH BY INJECTING RAPESEED OIL ON ABSORBENT COTTON WITH SYRINGE ~71:China National Tobacco Corporation Sichuan Company, No. 936, Shijicheng Road, High tech Zone, Chengdu, Sichuan, People's Republic of China;Sichuan Agricultural University, No. 211, Huimin Road, Wenjiang District, Chengdu, Sichuan, People's Republic of China ~72: GUO Shiping;LIU Lei;LIU Yajie;YANG Minfeng;ZENG Shuhua~

2022/13169 ~ Complete ~54:METHODS OF TREATMENT OF TUBEROUS SCLEROSIS COMPLEX ~71:NOEMA PHARMA AG, Barfusserplatz 3, 4051, Basel, Switzerland ~72: GEORGE GARIBALDI~ 33:US ~31:63/035,313 ~32:05/06/2020

2022/13114 ~ Complete ~54:MINE UNDERGROUND FILLING MORTAR ~71:Anhui Masteel Jiahua New Building Materials Co., Ltd., Liannong Village, Jiangbian, Ma'anshan City, Anhui Province, 243000, People's Republic of China;Anhui University of Technology, No. 59, Hudong Road, Ma'anshan City, Anhui Province, 243002, People's Republic of China ~72: CHEN, Taiyao;FANG, Yuan;WU, Ping;XU, Shinan;YANG, Lei;YU, Feng;ZHAO, Luqing~

2022/13118 ~ Complete ~54:RECOMBINANT PLASMID OF CLOSTRIDIUM BUTYRICUM VACCINE, ITS CONSTRUCTION METHOD AND APPLICATION ~71:HEILONGJIANG AGRICULTURAL ECONOMY VOCATIONAL COLLEGE, Wenchun Town, Xi'an District, Mudanjiang City, Heilongjiang Province, 157041, People's Republic of China ~72: FAN Xuewei;JIANG Xin;LI Shudong;LI Xiaojuan;LU Zixiu;WANG Jing;ZHANG Chunfeng;ZHU Yujian~

2022/13124 ~ Complete ~54:METHOD FOR PLASMA DEGRADATION OF DEOXYNIVALENOL IN AQUEOUS SOLUTION ~71:SHANGHAI ACADEMY OF AGRICULTURAL SCIENCES, No. 2901 Bei Di Road, Minhang District, Shanghai, 201106, People's Republic of China ~72: CHEN, Shanshan;WANG, Jianhua;YANG, Junhua;YANG, Xianli;ZHAO, Zhiyong;ZHOU, Changyan;ZHOU, Jiaxin~

2022/13128 ~ Complete ~54:A TESTING MACHINE FOR DETERMINING THE COEFFICIENT OF FRICTION ~71:Wina Seiko (Suzhou) CO., LTD., No. 25-1, No. 8 Jintai Road, Taiping Street, Xiangcheng District, Suzhou City, Jiangsu Province, 215137, People's Republic of China;Yancheng Institute of Technology, No. 1 Xiwang Avenue Middle Road, Tinghu District, Yancheng City, Jiangsu Province, 224051, People's Republic of China ~72: Banghua Ye;Jiansheng Xia;Shaohua Zhu;Shasha Dou~

2022/13140 ~ Complete ~54:A METHOD OF PINEAPPLE SEEDLINGS REGENERATION AND AXILLARY BUDS GROWTH POINT TRANSFORMATION ~71:LU DONG UNIVERSITY, Ludong University, 186 Hongqizhong Road, Yantai, Shandong Province, 264025, People's Republic of China ~72: CHEN, Lele;GUO, Xiaotong;LI, Bei;YANG, Shuaiwei;ZHANG, Hongxia;ZHANG, Shuhao~ 33:CN ~31:202210498092.5 ~32:09/05/2022

2022/13143 ~ Complete ~54:LASER INDUCED FLUORESCENCE SYSTEM FOR RAPID IN SITU DETECTION OF PETROLEUM HYDROCARBON CONTAMINANTS IN SOIL ~71:Huainan Normal University, Donshan road, Huainan, Anhui Province, 232038, People's Republic of China ~72: Meng Deshuo;Wang Shouya;Yu Haijun;Zhang Ke~

2022/13149 ~ Complete ~54:AERO-ACOUSTIC MATERIALS PROCESSING APPARATUS AND METHOD ~71:VORTEX INDUSTRIAL SOLUTIONS LIMITED, THIRD FLOOR, 1 LE TRUCHOT, ST PETER PORT, GUERNSEY GY1 1WD, ~72: RAWSON, Colin~ 33:ZA ~31:2020/02500 ~32:07/05/2020

2022/13154 ~ Complete ~54:NOVEL HETEROARYL-TRIAZOLE COMPOUNDS AS PESTICIDES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: ARLT, Alexander;CANCHO GRANDE, Yolanda;DAMIJONAITIS, Arunas Jonas;EBBINGHAUS-KINTSCHER, Ulrich;FÜSSLEIN, Martin;HEISLER, Iring;JESCHKE, Peter;LÖSEL, Peter;LINKA, Marc;MÜLLER, Steffen;MANDZHULO, Oleksandr;SCHWARZ, Hans-Georg;TELSER, Joachim;TURBERG, Andreas~ 33:EP ~31:20173275.7 ~32:06/05/2020;33:EP ~31:20205300.5 ~32:02/11/2020;33:EP ~31:21157134.4 ~32:15/02/2021

2022/13158 ~ Complete ~54:ANTIBODIES THAT BIND TGF-ALPHA AND EPIREGULIN FOR USE IN THE TREATMENT OF PAIN ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CHEDID, Marcio;HEUER, Josef G.~ 33:US ~31:63/044,455 ~32:26/06/2020;33:US ~31:63/070,507 ~32:26/08/2020

2022/13173 ~ Complete ~54:SOLUBLE NPY2 RECEPTOR AGONISTS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BRENNAUER, Albert;HAEBEL, Peter;MADSEN, Charlotte, Stahl;PEDERSEN, Søren, Ljungberg;PETERS, Stefan~ 33:EP ~31:20189966.3 ~32:07/08/2020

2022/13132 ~ Complete ~54:PVA/ BIOMASS PESTICIDE SLOW-RELEASE POLYELECTROLYTE FILM AND PREPARATION METHOD THEREOF ~71:Yantai Vocational College, No.2018 Binhai Middle Road, High-tech

Zone, Yantai City, Shandong Province, 264670, People's Republic of China ~72: LIU Zhelin;SU Ling;WANG Xu;XU Yulan;ZHAI Miao~

2022/13135 ~ Complete ~54:AUTOMOBILE AUTOMATIC ANTI-COLLISION SYSTEM ~71:ZHEJIANG INSTITUTE OF MECHANICAL & ELECTRICAL ENGINEERING, 528 Binwen Road, Binjiang District, Hangzhou, Zhejiang, People's Republic of China ~72: Chen Junming;Chen Xiaohong;Tao Yong~

2022/13141 ~ Complete ~54:AN AUTOMATED CEILING FAN BLADE CLEANING MACHINE ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, Trichy, Tamil Nadu, India-621 112, India ~72: Albert Francis Arockiya Raj;Bhuvanendran Dhandapani;Dr Srinivasan Devaraju;Kaarthick Kathiravan;Ragul Pushparaj;Ramakrishnan Hariharan~

2022/13147 ~ Complete ~54:NOVEL DIAGNOSTIC MARKER FOR PROSTATE CANCER ~71:URTESTE S.A., ul. Starodworska 1, Poland ~72: GRUBA, Natalia;LESNER, Adam~ 33:EP ~31:20461540.5 ~32:04/06/2020

2022/13153 ~ Complete ~54:ROTATION LOCK DEVICE, LEVER HOIST, AND HOISTING MACHINE ~71:Kito Corporation, 2000,Tsuijiarai, Showa-cho, Nakakoma-gun, YAMANASHI 4093853, JAPAN, Japan ~72: KASAI Takayuki~ 33:JP ~31:2020-100235 ~32:09/06/2020;33:JP ~31:2020-198927 ~32:30/11/2020

2022/13159 ~ Complete ~54:METHOD AND SYSTEM FOR CONTROLLING DRILL FUNCTIONALITY ~71:Technological Resources Pty Limited, 360 Collins Street, Level 7, MELBOURNE 3000, VICTORIA, AUSTRALIA, Australia ~72: HENNESSY, Ross;INNES, Chris;LEEMAN, Joshua~

2022/13162 ~ Complete ~54:ULTRA-FAST PCR THERMOCYCLER ~71:Fast MDx (IP) Limited, 65 Bideford Avenue, Perivale, GREENFORD UB6 7PP, MIDDLESEX, UNITED KINGDOM, United Kingdom ~72: GUNTER, Ian;LEWIS, Richard~ 33:US ~31:63/044,719 ~32:26/06/2020;33:US ~31:63/119,833 ~32:01/12/2020

2022/13175 ~ Complete ~54:ANTI-CANCER PROTEINS ~71:UNICHEM LABORATORIES LTD, Unichem Bhavan, Prabhat Estate, Off. S.v. Road, Jogeshwari (West), India ~72: IYAPPAN, Sarvanakumar;PAWAR, Dilip;SATHE, Dhananjay~ 33:IN ~31:202021019406 ~32:07/05/2020

2022/13165 ~ Complete ~54:COMBINATION PORCINE VACCINE ~71:BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., 3239 Satellite Blvd., Duluth, Georgia, United States of America ~72: CLINE, Greg Stewart;DIAZ, Edgar;KROLL, Jeremy;LEITE, Fernando Lopes Leivas;ROOF, Michael B.;STEILEN, Mike Alan~ 33:US ~31:63/055,947 ~32:24/07/2020;33:EP ~31:20196349.3 ~32:16/09/2020

2022/13167 ~ Complete ~54:ADMINISTRATION OF CEBP-BETA ANTAGONIST AND METHODS OF USE ~71:SAPIENCE THERAPEUTICS, INC., 500 Mamaroneck Avenue, Suite 320, Harrison, New York, 10528, United States of America ~72: ALICE SUSANNAH BEXON;BARRY JAY KAPPEL;GENE MERUTKA;JIMMY ANDREW ROTOLO;ROBERT E MICHEL~ 33:US ~31:63/041,986 ~32:21/06/2020;33:US ~31:63/041,988 ~32:21/06/2020;33:US ~31:63/041,989 ~32:21/06/2020;33:US ~31:63/041,990 ~32:21/06/2020;33:US ~31:63/041,991 ~32:21/06/2020;33:US ~31:63/172,560 ~32:08/04/2021

2022/13164 ~ Complete ~54:OPTIMIZED NUCLEOTIDE SEQUENCES ENCODING SARS-COV-2 ANTIGENS ~71:TRANSLATE BIO, INC., 29 Hartwell Avenue, Lexington, MA, United States of America ~72: BOEGLIN, Lianne;CASIMIRO, Danilo;CHIVUKULA, Sudha;DEROSA, Frank;DIAS, Anusha;DUBINS, Jeffrey, S.;FU, Tong-Ming;GU, Xiaobo;KALNIN, Kirill;KARVE, Shrirang;PLITNIK, Timothy;SKALESKI, Joseph, A.;TRAN, Khang, Anh;ZACHARIA, Minnie~ 33:US ~31:63/021,319 ~32:07/05/2020;33:US ~31:63/032,825 ~32:01/06/2020;33:US ~31:63/076,718 ~32:10/09/2020;33:US ~31:63/076,729 ~32:10/09/2020;33:US ~31:63/088,739 ~32:07/10/2020;33:US ~31:63/143,604 ~32:29/01/2021

2022/13177 ~ Complete ~54:INHIBITORS OF FIBROBLAST GROWTH FACTOR RECEPTOR KINASES ~71:KINNATE BIOPHARMA INC., 12830 El Camino Real, Suite 150, United States of America ~72: ARNOLD, Lee D.;COX, Jason M.;KALDOR, Stephen W.;KANIA, Robert;KANOUNI, Toufike;MURPHY, Eric A.;TYHONAS, John~ 33:US ~31:63/035,155 ~32:05/06/2020;33:US ~31:63/106,812 ~32:28/10/2020

2022/13163 ~ Complete ~54:INTERNAL COMBUSTION ENGINE HAVING A GAS EXCHANGE CHAMBER ~71:AQUARIUS ENGINES (A.M.) LTD., 19 Hamelacha Street, Industrial Park Afek, Rosh Haayin, Israel ~72: YAAKOBY, Shaul~ 33:US ~31:63/044,096 ~32:25/06/2020

2022/13178 ~ Complete ~54:COMPOUNDS AND METHODS FOR THE TREATMENT OF EYE DISORDERS ~71:OCCURX PTY. LTD., Level 9, 31 Queen Street, Australia ~72: BURNS, Chris;DANIELS, Eric;KELLY, Darren;PAPADIMITRIOU, Michelle~ 33:AU ~31:2020901856 ~32:05/06/2020;33:AU ~31:2020901858 ~32:05/06/2020

2022/13180 ~ Provisional ~54:POLICE DIGITAL BOOKING AND DOCKET DATABASE MANAGEMENT AND CALL CENTER SYSTEM ~71:Danzel Mohamed, 8 Bentelsie Street, South Africa;SI Source (Pty) Ltd, 102 Alabaster Street, South Africa ~72: Danzel Mohamed;SI Source (Pty) Ltd~

2022/13109 ~ Provisional ~54:TIME GROUPED SELECTION CONVERSATION MODEL ~71:CANDY RAYMOND MDUNGE, 522 SBU SIBIYA ROAD, South Africa ~72: CANDY RAYMOND MDUNGE;PHILANI BLESSING ZONDI~

2022/13110 ~ Provisional ~54:ORGANOTRISULFIDE AND ORGANOTETRASULFIDE COMPOUNDS AND THE USE THEREOF IN METHODS OF TREATMENT ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, Western Cape, 7600, South Africa;UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, Cape Town, 7700, South Africa ~72: CATHERINE HART KASCHULA;ROGER HUNTER~

2022/13111 ~ Provisional ~54:A METHOD FOR IMPROVING FUEL MONITORING INSIDE VEHICLES USING AN ELECTRONIC FUEL MEASURING DEVICE ~71:HENRY PHILLIP ACKHURST, 31 DRAKENSBERG AVENUE, VAN RIEBEECK PARK, South Africa ~72: HENRY PHILLIP ACKHURST~

2022/13113 ~ Complete ~54:LAYERED EXTRACTABLE HIGH-PRECISION FREQUENCY ADJUSTMENT SIEVE SHAKER ~71:Ma’anshan No. 8 Middle School, No. 855, Jiankang Road, Huashan District, Ma'anshan City, Anhui Province, 243099, People's Republic of China ~72: YU, Ziyou~

2022/13115 ~ Complete ~54:MACROFUNGI PROTECTANT AND APPLICATION THEREOF ~71:Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment, No. 8 Jiangwangmiao Street, Nanjing City, Jiangsu Province, 210042, People's Republic of China ~72: DING, Hui;HU, Yaping;TIAN, Jing;WANG, Le;WANG, Yifei~

2022/13121 ~ Complete ~54:PROCESS FOR PRODUCING AN OLIGOMERIZATION CATALYST HAVING A HYDROTHERMAL TREATMENT STEP ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: FRANKE, Robert;KNOSSALLA, Johannes;QUANDT, Thomas~ 33:EP ~31:21213152.8 ~32:08/12/2021

2022/13129 ~ Complete ~54:CERVICAL VERTEBRA PROTECTOR FOR DOG ~71:Northeast Agricultural University, No.600 Changjiang Road, Xiangfang District, Harbin, Heilongjiang, People's Republic of China ~72: CHEN Hao;LI Xuenan;LIU Shuya;MA Jun;WANG Xin~

2022/13142 ~ Complete ~54:A BIO-FOOD WASTE PROCESSING DEVICE ~71:Suzhou University, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, People's Republic of China ~72: Gao Fengwei;Zhang Dongjing~ 33:CN ~31:202210197231.0 ~32:01/03/2022

2022/13148 ~ Complete ~54:VITAMIN-A BIOSYNTHESIZING BOVINE PROBIOTIC BACTERIA ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: BUYS, Elna Maria;KRISHNAMOORTHY, Srinivasan~ 33:ZA ~31:2020/03399 ~32:08/06/2020

2022/13150 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF WEATHER-RESISTANT, WEAR-RESISTANT AND HYDROPHOBIC AID ~71:Wesdon River Powder Paint Scientific Research Co., Ltd., No. A1-1, Nanhai Plainvim International Smart Industrial Park, No. 12-1, Huasha Road, Shishan Town, Nanhai District, Foshan, Guangdong, 528200, People's Republic of China ~72: Hui ZHANG;Jingxu ZHU~ 33:CN ~31:202011513864.5 ~32:19/12/2020

2022/13156 ~ Complete ~54:LEWIS/BRONSTED ACID/BASE AND NICKEL PHOSPHIDE BINARY CATALYST-SYSTEM (CO-CATALYSTS) FOR DIRECT ELECTROCHEMICAL CO_2 REDUCTION TO HYDROCARBONS ~71:Rutgers, The State University of New Jersey, 83 Somerset Street, NEW BRUNSWICK 08901, NJ, USA, United States of America ~72: CALVINHO, Karin Ute Doehl;DISMUKES, Charles G.;LAURSEN, Anders Bo~ 33:US ~31:16/878,165 ~32:19/05/2020

2022/13157 ~ Complete ~54:CEREBLON BINDING COMPOUNDS, COMPOSITIONS THEREOF, AND METHODS OF TREATMENT THEREWITH ~71:Celgene Corporation, 86 Morris Avenue, SUMMIT 07901, NJ, USA, United States of America ~72: ALEXANDER, Matthew D.;CORREA, Matthew D.;DALVIE, Deepak;GRANT, Virginia Heather Sharron;HANSEN, Joshua;HARRIS III , Roy L.;HORN, Evan J.;HUANG, Dehua;MAYNE, Christopher;NORRIS, Stephen;PLANTEVIN-KRENITSKY, Veronique;SAPIENZA, John J.;TEHRANI, Lida;WHITEFIELD, Brandon W.~ 33:US ~31:63/043,555 ~32:24/06/2020

2022/13161 ~ Complete ~54:LOCK AND RELATED KEY ~71:CISA S.p.A., Via Guglielmo Oberdan, 42, FAENZA 48018, ITALY, Italy ~72: FABBRI, Matteo;FERRI, Giovanni;TALAMONTI, Enzo~

2022/13170 ~ Complete ~54:CHAIN PIN ASSEMBLY ~71:ITALTRACTOR ITM S.P.A., Via Confortino 30, Valsamoggia - Fraziona, I-40056, Crespellano (Bologna), Italy ~72: EUSTACHIO CALIA;NICOLAS MORETTI~ 33:IT ~31:102020000012427 ~32:26/05/2020

2022/13168 ~ Complete ~54:USE OF A PHOSPHODIESTERASE 10 INHIBITOR FOR THE TREATMENT OF TOURETTE SYNDROME ~71:NOEMA PHARMA AG, Barfusserplatz 3, 4051, Basel, Switzerland ~72: GEORGE GARIBALDI~ 33:US ~31:63/035,310 ~32:05/06/2020;33:US ~31:63/160,302 ~32:12/03/2021

2022/13122 ~ Complete ~54:CONTINUOUS ULTRASONIC AUTOMATIC DEFOAMING DEVICE AND METHOD ~71:Taiyuan University of Technology, No. 79, Yingze West Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: FAN, Yachen;GUAN, Chongyang;PANG, Xinyu;WANG, Yuewei;ZHAO, Peng~ 33:CN ~31:202210529348.4 ~32:16/05/2022

2022/13126 ~ Complete ~54:METHOD FOR CALCULATING HEAVY METAL DIFFUSION FLUX IN RAINFALL RUNOFF OF NON-FERROUS METAL POLLUTED SITES ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, 727 Jingming South Road, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: DONG Peng;LI Chenchen;MENG Qi;XIE Ruosong;ZHANG Yingjie~

2022/13136 ~ Complete ~54:INTELLIGENT EXOSKELETON ARM FOR INFORMATION RECOGNITION ~71:PUFENGSUO INDUSTRY (SHANGHAI) CO., LTD., No. 10, Lane 658, Jinzhong Road, Changning District,

People's Republic of China ~72: DOS SANTOS ANTÓNIO, Nelson José;FU, Yuli;PANG, Xueyan;SHI, Hao;WANG, Xiyuan~

2022/13138 ~ Complete ~54:AN ENVIRONMENTALLY FRIENDLY ANIMAL MANURE TREATMENT DEVICE ~71:Gansu Institute of Animal Husbandry and Veterinary medicine, No.143 Kongtong East Road, Kongtong District, Pingliang City, Gansu, 744000, People's Republic of China ~72: Gao Ziyue;Gu Lingrong;Guo Hailong;He Maochang;Yang Junxiang;Zhang Pengyue~

2022/13146 ~ Complete ~54:GRAPE SKIN COMPOSITIONS AND COMPOUNDS, AND METHODS OF PREPARATION AND USE THEREFOR ~71:PHANTASM LIMITED, 9 Walmer Street, New Zealand ~72: RUFFELL, Joshua~ 33:NZ ~31:765291 ~32:10/06/2020

2022/13152 ~ Complete ~54:NOVEL ACID SECRETION INHIBITOR AND USE THEREOF ~71:Ildong Pharmaceutical Co., Ltd., 2, Baumoe-ro, 27-gil Seocho-gu, SEOUL 06752, REPUBLIC OF KOREA, Republic of Korea ~72: AN, Kyung Mi;CHANG, Min Whan;HEO, Jae Ho;HONG, Chang Hee;HONG, Da Hae;IM, A Rang;JE, In Gyu;JEON, Woo Jin;KANG, Su Yeon;KIM, Jung Ho;LEE, Joo Yun;LEE, Jung Woo;PARK, Joon Tae;PARK, Jung Eun;SHIN, Jae Eui;SOHN, Te Ik;SONG, Yoon Sung;YOO, Yeong Ran;YOON, Hong Chul~ 33:KR ~31:10-2020-0073900 ~32:17/06/2020

2022/13174 ~ Complete ~54:ROTATABLE AIRFOIL STRUCTURE WITH INTEGRATED SOLAR PHOTOVOLTAIC ELECTRICITY GENERATION ~71:COOK, Bradley, 1898 S Bannock Street, Unit 204 Denver, United States of America ~72: COOK, Bradley~ 33:US ~31:63/021,257 ~32:07/05/2020

2022/13166 ~ Complete ~54:METHODS OF TREATMENT OF TRIGEMINAL NEURALGIA ~71:NOEMA PHARMA AG, Barfusserplatz 3, 4051, Basel, Switzerland ~72: GEORGE GARIBALDI~ 33:US ~31:63/058,630 ~32:30/07/2020

2022/13176 ~ Complete ~54:VERTICAL-INPUT OUTBOARD-MOTOR FORWARD-REVERSE ANGLED-DRIVE LOWER UNIT ~71:Brian PROVOST, 9104 Choupique Road, Germany ~72: Brian PROVOST~ 33:US ~31:16/908,326 ~32:22/06/2020

2022/13179 ~ Complete ~54:AN ASEPTIC LIQUID PACKAGING CONTAINER ~71:UFLEX LIMITED, 305, III Floor, Bhanot Corner, Pamposh Enclave, Greater Kailash-1, India ~72: Ashok Chaturvedi~ 33:IN ~31:202011023791 ~32:06/06/2022

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2022/13222 ~ Complete ~54:ANTAGONISTS OF THE ADENOSINE A2A RECEPTOR ~71:AdoRx Therapeutics Limited, 137a George Street, EDINBURGH EH2 4JY, UNITED KINGDOM, United Kingdom ~72: MCCARTHY, Clive;MOULTON, Benjamin~ 33:GB ~31:2006823.5 ~32:07/05/2020;33:GB ~31:2019922.0 ~32:16/12/2020

2022/13186 ~ Complete ~54:DISTILLER ~71:ZHEJIANG INSTITUTE OF MECHANICAL & ELECTRICAL ENGINEERING, 528 Binwen Road, Binjiang District, Hangzhou, Zhejiang, 310053, People's Republic of China ~72: Chen Xiaohong;Zou Jinqiao~

2022/13190 ~ Complete ~54:AUTOMATIC FILING DEVICE FOR ARCHIVES ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No.1, Xiangwang Road, Gulou District, Xuzhou, Jiangsu, People's Republic of China ~72: HE Hongmei;LI Mengying;LI Ying;NING Junsheng;WU Yali~

2022/13197 ~ Complete ~54:METHOD FOR PREPARING COLLAGEN-COATED ABSORBABLE MEDICAL SUTURE ~71:SHANDONG BODA MEDICAL PRODUCTS CO., LTD., East End of Shandang Road, Shan

County, Heze City, Shandong Province, 274300, People's Republic of China ~72: GAO, Hongyu;ZHANG, Shuo;ZHANG, Yufu~

2022/13201 ~ Complete ~54:A MODULAR MERCHANDISE DISPLAY ~71:SMART CART (PTY) LTD, First Floor, Trafalgar House, corner St Andrew Str & Edgewood Ave, Birdhaven 2196, South Africa ~72: CECIL WINTON UNGERER~

2022/13189 ~ Complete ~54:ASPERGILLUS FUNIGATUS WY2 AND APPLICATIONS THEREOF IN BIOTRANSFORMATION OF GINSENOSIDES ~71:Yanbian University, No. 977 Gongyuan Road, Yanji City, Jilin Province, 133000, People's Republic of China ~72: DONG, Weiwei;FAN, Siyao;HU, Qian;JI, Wenxiu;LI, Yaqian;LIU, Qi;PIAO, Hongjie;XU, Wenman;YANG, Zhengguo~

2022/13193 ~ Complete ~54:HOSPITAL BUILDING EPIDEMIC PREVENTION SYSTEM BASED ON 5G INTERNET OF THINGS ~71:Maoming People's Hospital, No. 101, Weimin Road, Maoming, Guangdong, 525099, People's Republic of China ~72: CAO, Jian;CHEN, Fengqin;CHEN, Haitian;CHEN, Kun;CHEN, Qinhua;DENG, Xinqi;HUANG, Jinbo;HUANG, Sumei;LI, Yaocai;WANG, Guangwen;WU, Xianjun;ZENG, Haiyan;ZHANG, Shuyuan~

2022/13194 ~ Complete ~54:FILTERING DEVICE FOR PRODUCTION OF FLUIDIZED ICE ~71:Institute of Energy Research, Jiangxi Academy of Sciences, No. 7777, Changdong Avenue, Nanchang City, Jiangxi Province, 330096, People's Republic of China ~72: HAN, Zhi;XI, Xiping;XIE, Yanfeng;XIE, Yunsheng;ZAN, Xingyu;ZHANG, Jiayin;ZHOU, Yunjun;ZHUANG, Jiacheng~

2022/13200 ~ Complete ~54:THREE-DIMENSIONAL BEAMFORMING METHOD OF A MINIATURIZED VOLUME ARRAY BASED ON ACOUSTIC VECTOR HYDROPHONE ~71:Harbin Engineering University, No. 145, Nantong Street, Nangang District,, Harbin City,, Heilongjiang Province, 150000, People's Republic of China ~72: GUO, Junyuan;LI, Liangwen;PIAO, Shengchun;ZHANG, Minghui~ 33:CN ~31:202111494099.1 ~32:08/12/2021

2022/13203 ~ Complete ~54:METHOD FOR DETECTING MALONDIALDEHYDE IN FOOD ~71:Shanghai Academy of Agricultural Sciences, No. 1000 Jin Qi Road, Fengxian District, Shanghai 201403, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Lei;JIN, Xiaofen;LIU, Haiyan;SI, Wenshuai;YANG, Haifeng;YAO, Chunxia~

2022/13212 ~ Complete ~54:PLANT PATHOGEN DEFENCE ELICITORS ~71:UNIVERSITÉ LIBRE DE BRUXELLES, 50, avenue F.D. Roosevelt, Belgium ~72: CANNELLA, David;ZARATTINI, Marco~ 33:EP ~31:20189578.6 ~32:05/08/2020

2022/13214 ~ Complete ~54:ENVIRONMENTALLY FRIENDLY CLOTHING DYEING APPARATUS ~71:DEZHOU UNIVERSITY, No. 566 University Rd. West, Decheng District, Dezhou, Shandong, 253023, People's Republic of China ~72: SONG, Kexin~ 33:CN ~31:202011626791. 0 ~32:31/12/2020

2022/13224 ~ Complete ~54:METHOD FOR PRODUCING PELLETIZED FUEL FROM URANIUM-MOLYBDENUM POWDERS ~71:JOINT-STOCK COMPANY "TVEL", Kashirskoe shosse st, 49 Moscow, 115409, Russian Federation ~72: KARPYUK, Leonid Aleksandrovich;LYSIKOV, Aleksandr Vladimirovich;MIKHEEV, Evgeniy Nikolaevich;MISSORIN, Denis Sergeevich;NOVIKOV, Vladimir Vladimirovich;SHIPUNOV, Nikolay Ivanovich;SIVOV, Roman Borisovich~

2022/13229 ~ Complete ~54:BANKNOTE WITH PROCESSOR ~71:BUNDESDRUCKEREI GMBH, Kommandantenstrasse 18, Germany ~72: PETERS, Florian;SAUTER, Dieter-Heinrich~ 33:DE ~31:10 2020 115 034.2 ~32:05/06/2020

2022/13206 ~ Complete ~54:A STABILISING SUPPORT DEVICE FOR TUNNEL CONSTRUCTION ~71:Shaanxi Yuantu&Zhangxin Technology Co., Ltd, 503, Building 18, No. 180, Dianzi 1st Road, Yanta District, Xi'an city, Shaanxi province, 710065, People's Republic of China;Xi'an Shiyou University, No. 18, Dianzi Second Road, Yanta District, Xi'an city, Shaanxi province, 710065, People's Republic of China ~72: Guo Chanjuan;Huang Jun~

2022/13208 ~ Complete ~54:A CONTAINERIZED PUBLIC EXHIBITION HALL ~71:xuzhou college of industrial technology, No.1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu, People's Republic of China ~72: Yang Qiong;Yue Zixuan~

2022/13213 ~ Complete ~54:AN ADAPTOR ASSEMBLY FOR A FLUID DISPENSING SYSTEM ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: CRISMANN, Sebastiano;HODOSSY, Sofia;OLSSON, Joel;WALHEIM, Karl~

2022/13219 ~ Complete ~54:COMPOUNDS AND METHODS FOR STIMULATING PLANTS ~71:SOUND AGRICULTURE COMPANY, 5858 Horton Street, Suite 575, Emeryville, California, 94608, United States of America ~72: ALLISON SCHWARTZ;CHRISTIAN IBARRA;SHAILAJA CHADHA;TRAVIS S BAYER~ 33:US ~31:63/034,228 ~32:03/06/2020

2022/13225 ~ Complete ~54:BONE GRAFT MATERIAL LOADING ASSEMBLY AND ASSOCIATED DEVICES, SYSTEMS, AND METHODS ~71:ORTHOFIX US LLC, 3451 Plano Parkway Lewisville, United States of America ~72: BLAKE, Stephen Vincent~ 33:US ~31:63/037,719 ~32:11/06/2020;33:US ~31:17/343,389 ~32:09/06/2021

2022/13202 ~ Complete ~54:PHASE-CHANGE HEAT-STORAGE HEAT EXCHANGER FEATURING CONVENIENT DISASSEMBLY AND COMBINING PHOTOVOLTAIC HEATING AND HOT WATER HEATING ~71:ZHEJIANG UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER, No.583, Xuelin Avenue, Hi-Education Park, Xiasha District, Zhejiang Province, People's Republic of China ~72: GAO, Yubo;LIN, Tianze;MEI, Congli;SU, Shuran;YANG, Yaqi;ZHOU, Enhao;ZHU, Chuanhui~ 33:CN ~31:CN 202222911782.7 ~32:02/11/2022

2022/13204 ~ Complete ~54:A FIRE PROTECTION DEVICE SUITABLE FOR THE GROOVE-TYPED EXTERIOR WALL OF A BUILDING ~71:Chongqing University of Science & Technology, No.20 Daxuecheng East Road, Shapingba District, Chongqing City, 40000, People's Republic of China ~72: Bihai Zou;Jialiang Geng;Jiawei Geng;Meiling Cai;Yuxin Xia~

2022/13210 ~ Complete ~54:GENERATION OF OPTIMIZED NUCLEOTIDE SEQUENCES ~71:TRANSLATE BIO, INC., 29 Hartwell Avenue, Lexington, MA, United States of America ~72: DEROSA, Frank;DIAS, Anusha;TRAN, Khang, Anh~ 33:US ~31:63/021,345 ~32:07/05/2020

2022/13216 ~ Complete ~54:DEVICE FOR DISPENSING A MATERIAL BY MEANS OF PRESSURIZED GAS AND PARTIALLY GAS-FILLED TUBULAR BODY FOR USE THEREIN ~71:DISPENSING TECHNOLOGIES B.V., Achtseweg Zuid 151 B, 5651 GW, Eindhoven, Netherlands ~72: DENNIS VAN MELICK;DOMINICUS JAN VAN WIJK;PAULO NERVO~ 33:NL ~31:2025666 ~32:25/05/2020;33:NL ~31:2026776 ~32:27/10/2020

2022/13218 ~ Complete ~54:UNIT DOSE CAPSULE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: JUN SHEN~ 33:CN ~31:PCT/CN2020/100181 ~32:03/07/2020;33:EP ~31:20190805.0 ~32:13/08/2020

2022/13183 ~ Provisional ~54:GYROSCOPIC (GIMBAL TORQUE AND HYDRAULIC FORCE) AND SHM-DAMPENING AND FORCE-BALANCING STABILIZATION SYSTEMS, LOCKING SYSTEM, A GEAR AND

AERODYNAMIC LAYER/SYSTEM ~71:Mike Junior McKerson, 7 Quibeba, Arboretum, South Africa ~72: Mike Junior McKerson~ 33:ZA ~31:2022/01852 ~32:14/02/2022

2022/13185 ~ Complete ~54:DEVICE FOR TESTING ANCHORING PERFORMANCE OF GROUTING MATERIAL FOR FULL-LENGTH ANCHORING OF ANCHOR CABLE ~71:Anhui University of Science and Technology, 168 Taifeng Street, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China;Anhui Weipei Mining Technology Co., Ltd, 701, 7F, building A, entrepreneurship and innovation center, Taining Street, Shannan New District, Huainan City, Anhui Province, People's Republic of China;Anhui chen'an Mine Support Technology Co., Ltd., 701, 7F, building A, entrepreneurship and innovation center, Taining Street, Shannan New District, Huainan City, Anhui Province, People's Republic of China;Hetaoyu Coal Mine of Huaneng Qingyang Coal Power Co., Ltd, Qiaopo Administrative Village, ZhouJia Township , Zhengning County, Qingyang City, Gansu Province, People's Republic of China ~72: DOU Jiangang;JING Laiwang;JING Wei;LIANG Gelong;LIU Zhiwen;WANG Gang;XUE Weipei;YANG Xiaoquan;ZHANG Manguo~

2022/13187 ~ Complete ~54:METHOD FOR CLASSIFYING AND EVALUATING VOLCANIC RESERVOIRS ~71:Exploration and Development Research Institute, PetroChina Southwest Oil and Gas Field Company, No.12, North Section of Tianfu Avenue, High-tech Zone, Chengdu City, Sichuan Province, 610095, People's Republic of China;Southwest Petroleum University, No. 8, Xindu Avenue, Xindu District, Chengdu City, Sichuan Province, 610500, People's Republic of China ~72: CHAI, Bingqiang;FAN, Yi;HE, Kailai;JIA, Song;LI, Yang;LIN, Yi;XIA, Maolong;ZENG, Yiyang;ZHAO, Chunni;ZHAO, Feng~

2022/13207 ~ Complete ~54:A RUBBER SOUND INSULATION MATERIAL AND ITS PREPARATION METHOD AND APPLICATION ~71:xuzhou college of industrial technology, No. 1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Wang Zaixue;Wang Zhaowei;Xu Yunhui;Zhang Shuangye;Zhang Zhaohong~ 33:CN ~31:202210268753.5 ~32:18/03/2022

2022/13209 ~ Complete ~54:FACE RECOGNITION METHOD IN MASK WEARING STATE ~71:JIANGSU UNIVERSITY OF TECHNOLOGY, WANG Xiaolan No.1801,Zhongwu Avenue, Changzhou, Jiangsu, 213001, People's Republic of China ~72: JIANG Shaozhong;LI Feng;WANG Xiaolan;WANG Yi;YAO Keming~ 33:CN ~31:202111478584.X ~32:06/12/2021

2022/13220 ~ Complete ~54:INSECT NEUROPEPTIDE ANALOGUES ~71:THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, University Avenue, Glasgow, G12 8QQ, United Kingdom ~72: JULIAN A. T DOW;ROBERT M. J LISKAMP;SHIREEN A DAVIES~ 33:GB ~31:2008445.5 ~32:04/06/2020

2022/13223 ~ Complete ~54:HEAVY LOAD VORTEX INTERNAL APPARATUS FOR HANDLING PLASTIC GRANULAR MATERIAL, AND METHOD RELATED THERETO ~71:VIBRA MASCHINENFABRIK SCHULTHEIS GMBH & CO., Im Grossen Ahl 50, Offenbach, 63075, Germany ~72: SCHULTHEIS, Winfried~

2022/13226 ~ Complete ~54:1'-CYANO NUCLEOSIDE ANALOGS AND USES THEREOF ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: BYUN, DANIEL H.;CHUN, BYOUNG-KWON;CLARKE, MICHAEL O.;JANSA, PETR;KALLA, RAO V.;KOLTUN, DMITRY;MACKMAN, RICHARD L.;PERRY, THAO D.;SIEGEL, DUSTIN S.;SIMONOVICH, SCOTT P.~ 33:US ~31:63/043,349 ~32:24/06/2020;33:US ~31:63/139,648 ~32:20/01/2021

2022/13228 ~ Complete ~54:NON-ROTATING ALTERNATING CURRENT GENERATING DEVICE ~71:CHOI, Woo Hee, 302ho, 82, Banghak-ro 5-gil, Republic of Korea;HWANG, Nan Kyung, 321-31, Tongil-ro, Republic of Korea;YOO, Hyung Ju, 401ho, 6-11, Yeonseo-ro 34ga-gil, Republic of Korea ~72: CHOI, Woo Hee;HWANG, Nan Kyung;YOO, Hyung Ju;YU, Sung Kwon~ 33:KR ~31:10-2020-0057044 ~32:13/05/2020;33:KR ~31:10-2020-0057048 ~32:13/05/2020

2022/13181 ~ Provisional ~54:MULTISENSORY THERAPUTIC DEVICE ~71:Raphael V Smith, 43 Arnold Street, South Africa ~72: Raphael V Smith~

2022/13184 ~ Complete ~54:LLC RESONANT CONVERTER AND CONTROL METHOD THEREOF ~71:Northwestern Polytechnical University, 127 West Youyi Road, Beilin District, Xi'an, Shaanxi, 710072, People's Republic of China ~72: GAO Tian;HOU Jing;YANG Yan~

2022/13182 ~ Provisional ~54:TOWING APPARATUS ~71:KINITO SA (PTY) LTD, 24 MEADOW STREET, HIGHVELD, South Africa ~72: VISSER, Riaan Jacobus~

2022/13192 ~ Complete ~54:SYSTEM AND METHOD FOR LIFESTYLE INTERVENTION OF OBESE CHILDREN ~71:Wuxi Maternal and Child Health Hospital, No.48 Huaishu Lane, Liangxi District, Wuxi City, Jiangsu Province, People's Republic of China;Wuxi School of Medicine, Jiangnan University, No.48 Huaishu Lane, Liangxi District, Wuxi City, Jiangsu Province, People's Republic of China ~72: DING Yang;GUO Bingbing;JIANG Xinye;PEI Jingjing;QI Ying;XU Yin;ZHOU Yu;ZHUANG Jielian~

2022/13196 ~ Complete ~54:MULTI-MINERAL FEED ADDITIVE, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:YAN, Songgui, In the Courtyard of County Finance Bureau, Wuling West Road, Erligang Community, Zhangjiang Town, Taoyuan County, Changde City, Hunan Province, 415700, People's Republic of China ~72: YAN, Songgui~ 33:CN ~31:202211299058.1 ~32:24/10/2022

2022/13199 ~ Complete ~54:APPLICATION OF NATURAL MONOTERPENE COMPOUND SABINENE IN PREPARATION OF HERBICIDE ~71:Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, No. 818, Beijing South Road, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: SHAO Hua;SHAO Wei;ZHANG Chi;ZHOU Shixing~

2022/13188 ~ Complete ~54:ENDOPHYTIC FUNGUS FROM MARTIANUS DERMESTOIDES CAPABLE OF EFFICIENTLY PREPARING GINSENOSIDES RD AND RH1 AND APPLICATIONS THEREOF ~71:Yanbian University, No. 977 Gongyuan Road, Yanji City, Jilin Province, 133000, People's Republic of China ~72: DONG, Weiwei;FENG, Shuaiqi;JI, Wenxiu;LIANG, Xue;LIU, Pin;NAN, Li;NIE, Botao;WANG, Yan;ZHANG, Jiyue;ZHANG, Zhen~

2022/13191 ~ Complete ~54:GRIPPER ~71:Zhejiang Institute of Mechanical & Electrical Engineering, 528 Binwen Road, Binjiang District, Hangzhou, Zhejiang, 310053, People's Republic of China ~72: Chen Xiaohong;Gu Qijun;Jiang Xiaoqiang~

2022/13195 ~ Complete ~54:ANTI-PROTEIN ADSORPTION NASOINTESTINAL TUBE AND PREPARATION METHOD ~71:Maoming People's Hospital, No. 101, Weimin Road, Maoming, Guangdong, 525099, People's Republic of China ~72: CHEN, Chunbo;HU, Linhui;HUANG, Jinbo;WU, Xianjun~

2022/13198 ~ Complete ~54:FIVE-STAND TANDEM ROLLING MILL SPEED SETTING METHOD BASED ON GLOBAL MASS FLOW ~71:Liaoning University, No. 66, Chongshan Road, Huanggu District, Shenyang City, Liaoning Province, 110031, People's Republic of China;Shenyang University of Technology, No. 111, Shenliao West Road, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: CHEN, Lijia;WANG, Chuan;ZHANG, Haoyu;ZHANG, Shengquan;ZHANG, Shuai;ZHANG, Siqian;ZHANG, Zhipeng;ZHOU, Ge~

2022/13205 ~ Complete ~54:DOUBLE-BODY DEEP-SEA SALVAGE OPERATION SHIP ~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;Yan Tianming;Zhou Hongfen~ 33:CN ~31:202111482598.9 ~32:07/12/2021

2022/13211 ~ Complete ~54:METHODS FOR DELAYING, PREVENTING, AND TREATING ACQUIRED RESISTANCE TO RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, United States of America ~72: EVANS, James, W;JIANG, Jingjing;SCHULZE, Christopher, J;SINGH, Mallika;YANG, Yu Chi~ 33:US ~31:63/041,071 ~32:18/06/2020;33:US ~31:63/062,973 ~32:07/08/2020;33:US ~31:63/117,417 ~32:23/11/2020;33:US ~31:63/134,128 ~32:05/01/2021;33:US ~31:63/192,976 ~32:25/05/2021

2022/13215 ~ Complete ~54:BTLA ANTIBODIES ~71:MIROBIO LIMITED, Winchester House, Heatley Road, Oxford Science Park, United Kingdom;OXFORD UNIVERSITY INNOVATION LIMITED, Buxton Court, 3 West Way, United Kingdom ~72: CORNALL, RICHARD JOHN;DAVIS, SIMON JOHN;PALUCH, CHRISTOPHER DOUGLAS~ 33:GB ~31:2008860.5 ~32:11/06/2020

2022/13217 ~ Complete ~54:SOLID FORMS OF APOL1 INHIBITOR AND USING THE SAME ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALES MEDEK;FAITH WITKOS;JACK RAPHAEL MINCHOM;JICONG LI;KEVIN JAMES GAGNON;MUNA SHRESTHA;YI SHI~ 33:US ~31:63/038,271 ~32:12/06/2020

2022/13221 ~ Complete ~54:PROCESSES FOR MAKING SERD TRICYCLIC COMPOUNDS HAVING A SUBSTITUTED PHENYL OR PYRIDINYL MOIETY ~71:F. HOFFMANN-LA ROCHE AG, Grenzacherstrasse 124, 4070, Basel, Switzerland;GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: ALFRED STUTZ;GEORG WUITSCHIK;HAIMING ZHANG;JIE XU;JOHANNES BURKHARD;REMY ANGELAUD;SEBASTIAN HEROLD;TOBIAS BRUETSCH~ 33:US ~31:63/046,216 ~32:30/06/2020

2022/13227 ~ Complete ~54:INTER-FRAME PREDICTION METHOD, ENCODER, DECODER, AND COMPUTER STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, People's Republic of China ~72: YANG, Ning~ 33:CN ~31:202010746227.6 ~32:29/07/2020

2022/13279 ~ Provisional ~54:FOOD CRUSHER DRINK (FCD) ~71:SAKHILE HOPEWELL NTULI, 1351 Empumelelweni, Ext 8 Ward 29, South Africa ~72: SAKHILE HOPEWELL NTULI~

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2022/13262 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AND IMAGING AGENTS FOR IMAGING HUNTINGTIN PROTEIN ~71:CHDI FOUNDATION, INC., c/o CHDI Management, Inc., 350 Seventh Avenue, United States of America ~72: DOMINGUEZ, Celia;GREENAWAY, Catherine Jane;JOHNSON, Peter David;KHURANA, Kanika;LEE, Matthew;LIU, Longbin;MILLS, Matthew Robert;ROTA, Filippo~ 33:US ~31:63/037,751 ~32:11/06/2020

2022/13271 ~ Complete ~54:AN ANTIMICROBIAL COMPOSITION FOR TACKLING MALODOUR ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANINDYA DASGUPTA;MAYA TREESA SAJI;NEHA SALGAONKAR~ 33:IN ~31:202021025117 ~32:15/06/2020

2022/13276 ~ Complete ~54:CRF1 RECEPTOR ANTAGONIST FOR THE TREATMENT OF CONGENITAL ADRENAL HYPERPLASIA ~71:Neurocrine Biosciences, Inc., 12780 El Camino Real, SAN DIEGO 92130, CA, USA, United States of America;Sanofi, 54 Rue de La Boetie, PARIS 75008, FRANCE, France ~72: CHAN, Jean L.;CHARLIER, Anne;COSTA, Christina Marie;CUTLER Jr., Gordon B.;DOWNING, Kristie M.;FARBER, Robert H.;GIRI, Nagdeep;IYOHA, Kingsley;LOEWEN, Gordon Raphael;MEHTON, Gurvinder;NAKANISHI, Arline;NGWENYA-JONES, Ayanda;PARKS, Stacy;ROBERTS, Eiry;SAYERS, Brian;STIRN, Scott;TAYLOR, Graeme;VICKERY, Anthony D.;ZHANG, Xiaoping~ 33:FR ~31:2006039 ~32:10/06/2020

2022/13231 ~ Provisional ~54:WEDGED NUT AND SELF THREADING NUT FOR ANCHOR TENDONS ~71:Johannes Jacobus Naude, 12 Arend avenue, South Africa ~72: FREDERICK LIVHUWANI MUGERI;Johannes Jacobus Naude~

2022/13233 ~ Complete ~54:RISK PREDICTION AND PREVENTION SYSTEM BASED ON BIG DATA ~71:Guangdong Polytechnic of Science and Technology, No. 65, South Side of Zhuhai Avenue, Jinwan District, Zhuhai City, Guangdong Province, 519090, People's Republic of China ~72: DING, Nan;GAO, Jie;SHEN, Yanli;XU, Shengjie;ZHANG, Jun;ZHAO, Xi~

2022/13282 ~ Complete ~54:LIGHT EMISSION DEVICE ~71:SEOUL VIOSYS CO., LTD., 65-16, SANDAN-RO 163 BEON-GIL, DANWON-GU, ANSAN-SI, GYEONGGI-DO, Republic of Korea ~72: BAE, HEE HO;LEE, A YOUNG;LEE, CHUNG HOON;YOON, YEONG MIN~ 33:US ~31:62/820,493 ~32:19/03/2019;33:US ~31:16/821,024 ~32:17/03/2020

2022/13232 ~ Complete ~54:EXPERIMENTAL SYSTEM AND METHOD FOR COAL ROCK CUTTING DUST PRODUCTION ~71:China University of Mining and Technology, No. 1 University Road, Xuzhou City, Jiangsu Province, 221116, People's Republic of China;Guizhou University, South Section of Huaxi Avenue, Huaxi District, Guiyang, Guizhou Province, 550004, People's Republic of China;Henan Polytechnic University, No. 142, Jiefang Middle Road, Jiaozuo City, Henan Province, 454003, People's Republic of China;Huaibei Mining Co., Ltd., No. 276, Renmin Middle Road, Xiangshan District, Huaibei City, Anhui Province, 235000, People's Republic of China;Liupanshui Normal University, Minghu Road, Zhongshan District, Liupanshui City, Guizhou Province, 553004, People's Republic of China ~72: CHEN, Gui;LI, Xijian;NIE, Ziqi;WANG, Hetang;WANG, Hui;ZHANG, Hongtu;ZHOU, Wendong~

2022/13243 ~ Complete ~54:NOVEL SHOCK ISOLATOR FOR NAVAL EQUIPMENT ~71:SHENYANG UNIVERSITY OF TECHNOLOGY, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang City, Liaoning Province, People's Republic of China ~72: BA Zhongcheng;LI Jihao;LIU Bo;SUN He;WANG Peng;WU Jianping;XU Wei~

2022/13245 ~ Complete ~54:VERNIER CALIPER CONVENIENT FOR FOLDING AND STORING FOR PHYSICS TEACHING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: CHEN Yanyan;DUAN Kunjie;HUANG Xiaoya;LI Wei;LIU Zhiqing;WANG Chaoyong;WANG Wenfang;WANG Xinlian;XU Huafeng;ZHANG Renqi~

2022/13250 ~ Complete ~54:PREPARATION METHOD OF GLUCOSYL/AMINO ACID COMPOSITE CARBON SPHERES AND THE APPLICATION ~71:Institute of Chemical Industry of Forest Products,CAF, No.16 Suojin, Wucun Xuanwu District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Ding Haiyang;Li Mei;Li Shouhai;XU Lina;Yang Xiaohua;Yao Nan;Zhang Yan~

2022/13257 ~ Complete ~54:METHOD FOR DETERMINING RISK OF PRE-TERM BIRTH ~71:ARCEDI BIOTECH APS, Tabletvej 1, Denmark;BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: CHRISTENSEN, Inga Baasch;HATT, Lotte;JENSEN, Palle Schelde;MENON, Ramkumar;RAVN, Katarina Kiilerich;SINGH, Ripudaman~ 33:US ~31:63/037,212 ~32:10/06/2020

2022/13264 ~ Complete ~54:A CABLE-POWERED CONVEYANCE SYSTEM FOR AN AERIAL VEHICLE ~71:HIGH SPEED HIGH POD TECHNOLOGIES, 71, Shree Nagar Extension, Khajrana Main Road Indore, India ~72: AGNIHOTRI, Harshit;AGNIHOTRI, Rajeev~ 33:IN ~31:202121046908 ~32:14/10/2021;33:IN ~31:202221002455 ~32:15/01/2022

2022/13278 ~ Complete ~54:MOUNTING BRACKET ~71:Array Technologies, Inc., 3901 Midway Place NE, ALBUQUERQUE 87109, NM, USA, United States of America ~72: ADDINK, Jason;CHASE, Andrew;CREASY, Lucas;SCHUKNECHT, Nathan~ 33:US ~31:63/022,319 ~32:08/05/2020;33:US ~31:17/315,285 ~32:08/05/2021

2022/13235 ~ Complete ~54:HIGH-EFFICIENCY AND ENERGY-SAVING SMELTING METHOD FOR FAST SLAG MELTING OF LF ~71:NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 21 BOHAI AVENUE, People's Republic of China ~72: FANG, Ming;GAO, Jianguo;KONG, Chao;LI, Yang;TIAN, Peng;WANG, Dan;WANG, Shuhuan;XUE, Yuekai;ZHAO, Dingguo~

2022/13239 ~ Complete ~54:PREPARATION METHOD OF SPECIAL PRECOATED SAND FOR STEERING GEAR ~71:Chengde Dongwei New Material Technology Co., Ltd., Luanheyan Village, Jingoutun Town, Luanping County, Chengde City, Hebei, 068250, People's Republic of China ~72: LI, Chao;MENG, Qingliang;ZHANG, Yancheng;ZHAO, Peng;ZHAO, Ruidong;ZHAO, Wei~

2022/13242 ~ Complete ~54:METHOD AND DEVICE FOR MEASURING THE PIPELINE'S INNER WALL TEMPERATURE OF NUCLEAR POWER PLANT ~71:China Guangdong Nuclear Power Group Co., Ltd., 33rd Floor, South Building, CGN Building, No.2002 Shennan Avenue, Futian District, Shenzhen City, Guangdong Province, 518026, People's Republic of China;China Nuclear Power Engineering Co., Ltd., Office building of Daya Bay Nuclear Power Base Engineering Company, Pengfei Road, Dapeng New Area, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Ajun Meng;Dayu He;Guihe Zhang;Hongtao Liu;Jun Ling;Lang Liu;Leisheng Cao;Qing Mao~

2022/13246 ~ Complete ~54:APPLICATION OF MESENCHYMAL STEM CELLS MODIFIED BY DEACETYLASE SIRT1 GENE IN IMPROVING AIRWAY INFLAMMATION OF BRONCHIAL ASTHMA ~71:Shunde Women and Children's Hospital (Shunde Maternal and Child Healthcare Hosital), Guangdong Medical University, No.3 Baojian Road Daliang Street, Shunde District, Foshan City, Guangdong Province, People's Republic of China ~72: Ai Ruixuan;Chen Riling;Cheng Yisen;Huang Si;Luo Fei;Ma Guoda;Wang Yajun;Xu Xusan;Zeng Jieqing;Zhen Xiangfan~

2022/13251 ~ Complete ~54:HEALTH MANAGEMENT SYSTEM BASED ON RTFMRI-NF TECHNOLOGY ~71:Yongli Li, Henan Provincial People's Hospital, No.7, Weiwu Road,, Zhengzhou, Henan,, People's Republic of China ~72: Fengshan Yan;Gang Li;Huimin Ma;Jing Zhou;Shewei Dou;Xiaojuan Zhao;Xiaoling Wu;Yongli Li;Zhi Zou;Zhonglin Li~

2022/13253 ~ Complete ~54:A CATTLE AND SHEEP APHRODISIAC PREGNANCY-PROMOTING PREPARATION ~71:EJIN HORO QI WENBING AGRICULTURAL MACHINERY SERVICE ENTERPRISE, Block B, Chenyuan Building, Yijinhuoluo Banner, Ordos City, Inner Mongolia, 017200, People's Republic of China ~72: AOTEGENG, Dalai;FENG, Haoda;HAN, Wenbing;LIANG, Haixia;LIU, Haifeng;LIU, Heping;LIU, Heyu;LIU, Peng;LIU, Yaoxian;SUN, Haizhou;WANG, Dongbing;WANG, Peng;WANG, Yongrong;WANG, Zeping;ZHANG, Chongzhi;ZI, Zhanfei~

2022/13258 ~ Complete ~54:AGRICULTURALLY BENEFICIAL MICROBES, MICROBIAL COMPOSITIONS, AND CONSORTIA ~71:BIOCONSORTIA, INC., 279 Cousteau Place, Suite 100, United States of America ~72: HYMUS, Graham;PATRI, Abhishek;SANTIAGO-ORTIZ, Jorge;WILK, Debora;WILLIAMS, Thomas;ZHU, Hong~ 33:US ~31:62/705,239 ~32:17/06/2020

2022/13265 ~ Complete ~54:COMPOUNDS AS BCL-2 INHIBITORS ~71:FOCHON PHARMACEUTICALS, LTD., 100 Xingguang Avenue, Renhe street, new North District, Chongqing, 401121, People's Republic of China ~72: BIN LIU;CHENGXI HE;HAOHAN TAN;HONGBIN LIU;HUA XU;JINHUA YU;LIHUA JIANG;LIJUN YANG;LING CHEN;QIHONG LIU;RUI TAN;SHU LIN;WEIBO WANG;WEIPENG ZHANG;XINGDONG ZHAO;YUE

RONG;YUNLING WANG;ZHIFANG CHEN;ZHIFU LI;ZUWEN ZHOU~ 33:US ~31:63/021,816 ~32:08/05/2020;33:US ~31:63/115,471 ~32:18/11/2020;33:US ~31:63/146,601 ~32:06/02/2021

2022/13267 ~ Complete ~54:METHOD AND REACTOR FOR PRODUCING SYNTHESIS GAS FROM A CARBON AND HYDROGEN SOURCE IN THE PRESENCE OF AN OXY FLAME ~71:HYDRO-QUÉBEC, 75 René-Lévesque Ouest, Montréal, Québec, H2Z 1A4, Canada ~72: GERMAIN LAROCQUE;MICHEL VIENNEAU;RAYNALD LABRECQUE;ROBERT SCHULZ~ 33:CA ~31:3,081,971 ~32:04/06/2020

2022/13269 ~ Complete ~54:A UNIT DOSE CAPSULE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: MO DAI;SIYU DONG~ 33:CN ~31:PCT/CN2020/100209 ~32:03/07/2020;33:EP ~31:20190812.6 ~32:13/08/2020

2022/13274 ~ Complete ~54:METHODS FOR DETECTION OF PATHOGENIC INFECTIONS USING RED BLOOD CELL-CONTAINING PATIENT SAMPLES ~71:THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 3600 Civic Center Blvd., 9th Floor, Philadelphia, Pennsylvania 19104, United States of America ~72: NILAM MANGALMURTI~ 33:US ~31:63/022,181 ~32:08/05/2020

2022/13236 ~ Complete ~54:RIFLE SAFE ~71:Biagi Saga Technologies (Pty) Ltd, 45 Eva Rd, Fairleads AH, South Africa ~72: KUISIS, Gerald~ 33:ZA ~31:2021/06640 ~32:09/09/2021

2022/13240 ~ Complete ~54:MULTIPLEX PCR METHOD FOR SIMULTANEOUS DETECTION OF TOMATO (SOLANUM LYCOPERSICUM) RESISTANCE GENES MI, TM-22 AND CF-9 ~71:Hebei University of Science & Technology, No. 26, Yuxiang Street, Shijiazhuang City, Hebei Province, 050018, People's Republic of China ~72: Li zhen xia;Ren su xian;Song jian jun~

2022/13248 ~ Complete ~54:AN ART DESIGN PROFESSIONAL TEACHING DISPLAY SYSTEM ~71:Zhejiang International Maritime College, No. 268 Haitian Avenue, Lincheng New District, Zhoushan City, Zhejiang Province, 316000, People's Republic of China ~72: Bei WU~

2022/13244 ~ Complete ~54:NOVEL SOLID-LIQUID ANTI-SHOCK ISOLATOR FOR WARSHIP EQUIPMENT ~71:SHENYANG UNIVERSITY OF TECHNOLOGY, No.111,Shenliao West Road,Economic&Technological Development Zone, Shenyang City, Liaoning Province, People's Republic of China ~72: BA Zhongcheng;HAN He;JIN Xingbo;LIU Bo;TANG Liying;WANG Peng;XU Wei~

2022/13249 ~ Complete ~54:AN OXIDE SOLID ELECTROLYTE MEMBRANE AND ITS PREPARATION METHOD ~71:Hainan University, No.58 Renmin Avenue, Haikou City, Hainan Province, 570228, People's Republic of China ~72: Daming CHEN~

2022/13256 ~ Complete ~54:DEUTERATED TRYPTAMINE DERIVATIVES AND METHODS OF USE ~71:CYBIN IRL LIMITED, ONE SPENCER DOCK, NORTH WALL QUAY, DUBLIN 1, IE D01X9R7, IRELAND, Ireland ~72: NIVOROZHKIN, Alex;PALFREYMAN, Michael~ 33:US ~31:63/026,939 ~32:19/05/2020;33:US ~31:63/114,738 ~32:17/11/2020;33:US ~31:63/157,118 ~32:05/03/2021

2022/13260 ~ Complete ~54:CELLULAR BASED PUBLIC WARNING SYSTEM AND METHOD OF OPERATION THEREFOR ~71:UTIMACO TECHNOLOGIES LTD., 32 Maskit Street, Israel ~72: PRIMO, Avi~ 33:IL ~31:275454 ~32:17/06/2020

2022/13263 ~ Complete ~54:RECOMBINANT HVT VECTORS EXPRESSING INFLUENZA HEMAGGLUTININ AND IMMUNOGENIC COMPOSITIONS, AND PRODUCTION AND USES THEREOF ~71:BOEHRINGER

INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: KASSA, Aemro;MEBATSION, Teshome~ 33:US ~31:63/040,411 ~32:17/06/2020

2022/13277 ~ Complete ~54:INHIBITORS OF NEK7 KINASE ~71:Halia Therapeutics, Inc., 1865 W 2100 S, Suite 100, SALT LAKE CITY 84119, UT, USA, United States of America ~72: BEARSS, David James;KAUWE III, John Sai Keong;MOLLARD, Alexis Henri Abel~ 33:US ~31:63/036,244 ~32:08/06/2020;33:US ~31:63/170,776 ~32:05/04/2021;33:US ~31:63/185,257 ~32:06/05/2021

2022/13230 ~ Provisional ~54:FIDGETING DEVICE ~71:AGATHAGELOU, Andrea Peter, 9 Lynburn Road, South Africa ~72: AGATHAGELOU, Andrea Peter;BECKER, Leslie~

2022/13234 ~ Complete ~54:BENTONITE SAND FIXATION METHOD ~71:Qitai Guoping Bentonite Mine, Sanqinggong Lane, Qitai County, Changji Prefecture, Xinjiang, People's Republic of China;Xinjiang Institute of ecology and geography Chinese academy of sciences, No.818, Beijing South Road, Urumqi, Xinjiang, People's Republic of China ~72: LI Congjuan;LIU Guojun;LIU Wenhua;LIU Yongping;LU Xueliang;Madinai·Abulimiti;SHEN Qiang;WANG Shijie;ZHONG Fashu~

2022/13238 ~ Complete ~54:3D PRINTING AND POST-PROCESSING METHOD OF WOOD-BASED FIBER BIOMASS MATERIAL ~71:Research Institute of Wood Industry, Chinese Academy of Forestry, No. 1, Dongxiaofu, Xiangshan Road, Haidian District, Beijing, 100091, People's Republic of China ~72: LI, Xiaoxu;LIU, Dong;LIU, Zixin;YAN, Chenglin~ 33:CN ~31:202111495994.5 ~32:08/12/2021

2022/13241 ~ Complete ~54:POWDER SPRAYING MECHANISM ~71:Qingdao University of Technology, No. 1, East Outer Ring, Feixian County, Linyi City, Shandong Province, 273400, People's Republic of China ~72: CUI, Chenghao;DU, Ruijie;LI, Xiaogang;LIU, Jianze;SUI, Jiqing~

2022/13247 ~ Complete ~54:AN IMPREGNATED DISSEMINATED ARTIFICIAL MAGNETITE WITH CONTROLLABLE MAGNETIC PARAMETERS AND ITS MANUFACTURING METHOD ~71:Fuzhou University, No.2 Wulongjiang North Avenue, Minhou County, Fuzhou, Fujian Province, People's Republic of China ~72: Ku Jiangang;Lei Zhongyun;Wang Kaiwen;Xie Yinan;Zhao Ruiqi~ 33:CN ~31:202210381262.1 ~32:13/04/2022

2022/13255 ~ Complete ~54:A STAC SUPER CAPACITOR ~71:Huainan Normal University, No. 38, Dongshan West Road, Bagongshan District, Huainan City, Anhui Province, People's Republic of China ~72: Liu Yong;Wang Zifeng;Zhang Ke;Zhang Xian~

2022/13261 ~ Complete ~54:PRE-PACKAGED LIQUID CONTAINER AND CORRESPONDING DEVICE ~71:OROFINO PHARMACEUTICALS GROUP SRL, Via Paolo Mercuri, 8, Italy ~72: OROFINO, Ernesto~ 33:IT ~31:102020000014743 ~32:19/06/2020

2022/13266 ~ Complete ~54:SPIRO-SULFONAMIDE DERIVATIVES AS INHIBITORS OF MYELOID CELL LEUKEMIA-1 (MCL-1) PROTEIN ~71:PRELUDE THERAPEUTICS, INCORPORATED, 200 Powder Mill Road, Experimental Station E440/3213, Wilmington, Delaware, 19803, United States of America ~72: ANDREW PAUL COMBS;GANFENG CAO;HUAPING ZHANG;JINCONG ZHUO;QUN LI~ 33:US ~31:63/024,110 ~32:13/05/2020

2022/13270 ~ Complete ~54:CANCER THERAPY ~71:PROKARIUM LIMITED, London Bioscience Innovation Centre, 2 Royal College Street, London, NW1 0NH, United Kingdom ~72: HYAM LEVITSKY;LIVIJA DEBAN~ 33:US ~31:63/037,179 ~32:10/06/2020;33:EP ~31:20184698.7 ~32:08/07/2020

2022/13272 ~ Complete ~54:IRON FORTIFIED TEA-BASED BEVERAGE ~71:EKATERRA RESEARCH AND DEVELOPMENT UK LIMITED, 100 Victoria Embankment, London EC4Y 0DY, United Kingdom ~72: JANSJE

HANNIGJE CATHARINA EILANDER;KRASSIMIR PETKOV VELIKOV;MONIQUE CECILIA DÉSIRÉ VAN DER BURG-KOOREVAAR~ 33:EP ~31:20181066.0 ~32:19/06/2020

2022/13275 ~ Complete ~54:ATR INHIBITORS FOR THE TREATMENT OF CANCER ~71:AstraZeneca AB, SÖDERTÄLJE 151 85, SWEDEN, Sweden ~72: CLACK, Glen;DEAN, Emma Jane;LEE, Jeeyun;SMITH, Simon Andrew~ 33:US ~31:63/022,730 ~32:11/05/2020;33:US ~31:63/166,291 ~32:26/03/2021

2022/13237 ~ Complete ~54:REPAIR AGENT FOR PROMOTING SOIL FORMATION OF PHOSPHOGYPSUM AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:Guizhou Institute of Soil and Fertilizer, No. 1, Jinnong Road, Jinxin Community, Huaxi District, Guiyang City, Guizhou Province, 550006, People's Republic of China ~72: HUANG, Xingcheng;JIANG, Taiming;LI, Yu;LIU, Yanling;XIONG, Han;YANG, Yehua;ZHANG, Yarong;ZHU, Huaqing~ 33:CN ~31:202211271944.3 ~32:18/10/2022

2022/13252 ~ Complete ~54:SOLID-STATE SUPER CAPACITOR ~71:Huainan Normal University, No. 38, Dongshan West Road, Bagongshan District, Huainan City, Anhui Province, People's Republic of China ~72: Liu Yong;Wang Zifeng;Zhang Ke;Zhang Xian~

2022/13254 ~ Complete ~54:ANTI-VIBRATION SUP CAPACITOR ~71:Huainan Normal University, No. 38, Dongshan West Road, Bagongshan District, Huainan City, Anhui Province, People's Republic of China ~72: Liu Yong;Wang Zifeng;Zhang Ke;Zhang Xian~

2022/13259 ~ Complete ~54:METHOD FOR PROCESSING BLACK LIQUOR SOAP ~71:MOLCYCLE OY, Isoharjantie 6, Finland ~72: LEPPÄNEN, Jukka;RAATIKAINEN, Olavi;SUVANTO, Petro;TURHANEN, Petri;VEPSÄLÄINEN, Jouko~ 33:FI ~31:20205682 ~32:26/06/2020

2022/13268 ~ Complete ~54:IRON FORTIFIED TEA-BASED BEVERAGE ~71:EKATERRA RESEARCH AND DEVELOPMENT UK LIMITED, 100 Victoria Embankment, London EC4Y 0DY, United Kingdom ~72: GUSTAAF SERVAAS MARIE JOSEPH EMILE DUCHATEAU;KRASSIMIR PETKOV VELIKOV;MONIQUE CECILIA DÉSIRÉ VAN DER BURG-KOOREVAAR~ 33:EP ~31:20181088.4 ~32:19/06/2020

2022/13273 ~ Complete ~54:MICROBIAL-BASED PROCESS FOR IMPROVED QUALITY PROTEIN CONCENTRATE ~71:PRAIRIE AQUATECH LLC, 705 32nd Avenue, Brookings, South Dakota, 57006, United States of America ~72: DENNIS HARSTAD;SERGIO F NATES~ 33:US ~31:63/035,797 ~32:07/06/2020;33:US ~31:63/036,274 ~32:08/06/2020;33:US ~31:63/039,694 ~32:16/06/2020;33:US ~31:63/052,745 ~32:16/07/2020;33:US ~31:17/093,557 ~32:09/11/2020

2022/13280 ~ Provisional ~54:MEDICAL OXYGEN 99.7% ~71:O2 MEDI PTY LTD 2020/561529/07, , South Africa;WENDY CHARLENE BAYER, 13 THORA CRESCENT, South Africa ~72: WENDY CHARLENE BAYER~

2022/13281 ~ Provisional ~54:SIX OSCILLATORS (HAMMERS) ELECTRICITY GENERATOR ~71:UNEXPECTIVELY SODINDA NCUBE, 2267 SIKWAMA STR, JABULANI EXT 1, South Africa ~72: UNEXPECTIVELY SODINDA NCUBE~

. - APPLIED ON 2022/12/08 -

2022/13290 ~ Complete ~54:A SYSTEM BASED ON ARTIFICIAL INTELLIGENCE RECOGNITION FOR LANGUAGE MAINTENANCE ~71:Dr. (CA) Vishwanathan Hariharan Iyer, M.com, SET, FCA, Ph. D (Commerce and Management)., Vice Principal, Assistant Professor, Vedanta Foundation's Vedanta college, Vithalwadi station Road, Ulhasnagar-3, Maharashtra, 421003, India;Dr. (Mrs.) Archana Kedar Prabhudesai, M. Com., SET, MBA, M. PHIL. B. Ed., Ph. D. (Commerce), Assistant Professor and Nodal Officer for UGC -NSQF, Joshi Bedekar

College, Chendani Bunder Road, Koliwada, Near CIDCO Bus Stop, Thane West, Maharashtra, 400601, India;Dr. Anaya Aditya Markandeya, M.Com. M.Phil. NET, Ph.D. (Commerce), Assistant Professor, MES's Mahatma Night Degree College of Arts and Commerce, S.T. Road, Opposite Fire Brigade, Chembur Naka, Chembur, Mumbai, Maharashtra, 400071, India;Dr. Hayri Uygun, AP Recep Tayyip Erdogan University Rize, Turkey, Turkey;Dr. Kishori Jagdish Bhagat, M. Com. M. Phil. MBA. NET, Ph.D.(Commerce), Ph.D.(Management Studies), Associate Professor, Pragati College of Arts and Commerce, Dattanagar Pragati college Road, Dombivli East, Maharashtra, 421201, India;Dr. Neha Gupta, Professor, Faculty of Computer Applications, Manav Rachna International Institute of Research and Studies, Faridabad, 121001, India;Dr. Prashant Madhukar Shinde, M.Com. M.Phil. NET. SET, Ph.D.(Commerce), Assistant Professor, Bunts Sangha Mumbai's Anna Leela College of Commerce and Economics, Kurla East, Mumbai, Maharashtra, 400070, India;Dr. Pritesh Somani, Ph.D.(Commerce), MMS(Marketing), M.com (Management), NET(Management), SET (Management), DFM, Assistant professor, Balaji Institute of International Business, Sri Balaji University, Pune, Maharashtra, 411033, India;Dr. Rashmi Gujrati, Campus Director, KC Group of Institutions, Hansron-Karyam Road,KC Estate, Nawanshahr, Punjab, 144514, India;Prof. Sasmita Rani Samanta, Vice Chancellor, Kalinga Institute Of Industrial Technology, Deemed To Be University, KIIT Road, Patia, Bhubaneswar, Odisha, 751024, India ~72: Dr. (CA) Vishwanathan Hariharan Iyer;Dr. (Mrs.) Archana Kedar Prabhudesai;Dr. Anaya Aditya Markandeya;Dr. Hayri Uygun;Dr. Kishori Jagdish Bhagat;Dr. Neha Gupta;Dr. Prashant Madhukar Shinde;Dr. Pritesh Somani;Dr. Rashmi Gujrati;Prof. Sasmita Rani Samanta~

2022/13298 ~ Complete ~54:AN IMPROVED ASTROCYTE CULTURE METHOD ~71:FU, Xiaoli, Shijiazhuang First Retired Cadre Rest Home, Tieyuan North Road, Chang 'an District, Shijiazhuang City, Hebei Province, 050011, People's Republic of China;LIU, Yanjie, Affiliated Hospital of Guizhou Medical University, Guyi Checkup Building, No. 9 Beijing Road, Yunyan District, Guiyang City, Guizhou Province, 550001, People's Republic of China;ZHOU, Xiao, Affiliated Hospital of Guizhou Medical University, Guyi Checkup Building, No. 9 Beijing Road, Yunyan District, Guiyang City, Guizhou Province, 550001, People's Republic of China ~72: FU, Xiaoli;LIU, Yanjie;ZHOU, Xiao~

2022/13302 ~ Complete ~54:PACKAGE DISPENSER FOR WIPES, PACKAGE BLANK AND A METHOD FOR THE PRODUCTION OF PACKAGE DISPENSER ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, - 405 03, Sweden ~72: HELLQVIST, Anders;STRANDQVIST, Mikael~

2022/13304 ~ Complete ~54:WELLBORE SEGMENTED OPERATION METHOD AND RUBBER PLUG FOR SAID METHOD ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, No. 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China;SINOPEC SOUTHWEST OIL & GAS COMPANY, No. 688, Jitai Road Hi-Tech Industrial Development Zone Chengdu, People's Republic of China ~72: DONG, Haifeng;FANG, Zhou;HOU, Zhimin;LAN, Lin;LEI, Wei;QIAO, Zhiguo;WANG, Xiaogang;WANG, Xingwen;YAN, Yancheng~ 33:CN ~31:202010534828.0 ~32:12/06/2020;33:CN ~31:202010534849.2 ~32:12/06/2020;33:CN ~31:202010596721.9 ~32:28/06/2020

2022/13288 ~ Complete ~54:CONVENIENT AND FAST SELF-SERVICE DEVICE FOR RETURNING BOOKS IN LIBRARY ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No.1, Xiangwang Road, Gulou District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: LEI Shuiwang;ZHANG Yu~

2022/13284 ~ Provisional ~54:UNDERGROUND SUPPORT STRUCTURE AND METHOD OF USING SAME ~71:MPC CHEMICALS (PTY) LTD., 11 Lombaard street, Pienaarsdorp, South Africa ~72: KEEN, JOHN EDWARD~

2022/13308 ~ Complete ~54:ORAL SARS-COV-2 VACCINE, PREPARATION THEREFOR, AND APPLICATION THEREOF ~71:TIANJIN UNIVERSITY, No. 92 Weijin Road, People's Republic of China ~72: GUO, Yanyu;HUANG, Jinhai;ZHANG, Lilin~ 33:CN ~31:202010529961.7 ~32:11/06/2020

2022/13309 ~ Complete ~54:UP-DOWN PARALLEL GLUE GUN FOR POLYURETHANE FOAM CAULK CONSTRUCTION ~71:SHIJIAZHUANG DONGXIANG CHEMICAL CO., LTD., West of DAQIAOTOU Village, People's Republic of China ~72: BU, He;BU, Shuai;CAO, Jingwei;LI, Xiaogang;ZHANG, Wang~ 33:CN ~31:202220207026.3 ~32:25/01/2022

2022/13314 ~ Complete ~54:VECTOR ~71:PURESPRING THERAPEUTICS LIMITED, 8 Bloomsbury Street, 2nd Floor London WC1B 3SR, United Kingdom;SYNCONA INVESTMENT MANAGEMENT LIMITED, 8 Bloomsbury St, 2nd Floor, London, WC1B 3SR, United Kingdom;THE UNIVERSITY OF BRISTOL, Beacon House, Queens Road, Bristol, BS8 1QU, United Kingdom ~72: ALAN WILLIAM GRIFFITH;CHRIS HOLLOWOOD;DOMINIC SCHMIDT;GAVIN IAIN WELSH;LUKAS STANCZUK;MOIN AHSON SALEEM-UDDIN;VALERYIA KUZMUK~ 33:GB ~31:2010009.5 ~32:30/06/2020

2022/13318 ~ Complete ~54:ANTIFUNGAL AGENT FOR USE IN HUMANS ~71:ISHIHARA SANGYO KAISHA, LTD., 3-15, Edobori 1-chome Nishi-Ku Osaka-shi, Osaka, 5500002, Japan ~72: HIROSHI SHIKAMA;KOJI HIGUCHI;SHOGO ATSUMI;TAKAYUKI IMURA~ 33:JP ~31:2020-097174 ~32:03/06/2020

2022/13327 ~ Complete ~54:TREATMENT OF DISEASES CHARACTERIZED BY OVEREXPRESSION OF ERYTHROPOIETIN-PRODUCING HEPATOCELLULAR RECEPTOR A2 (EPHA2) ~71:BicycleTx Limited, Building 900, Babraham Research Campus, CAMBRIDGE CB22 3AT, UNITED KINGDOM, United Kingdom ~72: BENNETT, Gavin;BLAKEMORE, Stephen;CAMPBELL, Carly;RIGBY, Michael~ 33:US ~31:63/038,279 ~32:12/06/2020

2022/13283 ~ Provisional ~54:RETAINING DEVICE FOR MEDICAL TUBING ~71:PEAKO MEDICAL (PTY) LTD, 19 Culemborg Crescent, Die Boord, South Africa ~72: CURRAN, Lindsay John;O'HARE, James Michael~

2022/13285 ~ Complete ~54:SINGLE CRYSTAL REGENERATION METHOD OF WASTE TERNARY ANODE MATERIALS ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, 727 Jingming South Road, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: DONG Peng;FEI Zitong;MENG Qi;ZHANG Yannan;ZHANG Yingjie;ZHANG Yiyong~

2022/13295 ~ Complete ~54:ATTENTION PRE-TRAINING BASED PICTURE QUESTION ANSWERING METHOD ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: LI LANG;LIU YUN;TIAN PENG;YAN GENGLONG;ZHANG LEILEI~ 33:CN ~31:202211315945.3 ~32:26/10/2022

2022/13299 ~ Complete ~54:HIGH-ISOLATION, DUPLEX AND DUAL-POLARIZED ANTENNA BASED ON NOVEL HYBRID RING FEED ~71:Dongguan University Of Technology, No.1, Daxue Road, Songshan Lake Science and Technology Industrial Park, Dongguan, Guangdong, 523000, People's Republic of China ~72: Huang Gengtao;Lin Xianjing;Wu Zhenhua;Zhang Yanbin;Zhang Yao;Zheng Yaoshen;Zhu Yujie~ 33:CN ~31:202210741680.7 ~32:27/06/2022

2022/13305 ~ Complete ~54:SLIDING SLEEVE DEVICE ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, No. 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China;SINOPEC SOUTHWEST OIL & GAS COMPANY, No. 688, Jitai Road Hi-Tech Industrial Development Zone Chengdu, People's Republic of China ~72: CHEN, Chen;CI, Jianfa;HOU, Zhimin;HU, Dan;LIU, Tao;PANG, Wenfeng;QIAN, Jiang;TENG, Wenjiang;WANG, Qiang;ZHOU, Yijun~ 33:CN ~31:202010534832.7 ~32:12/06/2020;33:CN ~31:202010534864.7 ~32:12/06/2020;33:CN ~31:202010535615.X ~32:12/06/2020

2022/13310 ~ Complete ~54:SULCARDINE ADMINISTRATION FOR TREATMENT OF ACUTE ATRIAL FIBRILLATION ~71:HUYABIO INTERNATIONAL, LLC, 12531 High Bluff Drive, Suite 138, United States of

America ~72: ELLIOTT, Gary;GILLINGS, Mireille;GOODENOW, Robert;MASON, Jay;RADZISZEWSKI, Waldemar;ROMANO, Suzanne~ 33:US ~31:63/038,664 ~32:12/06/2020

2022/13317 ~ Complete ~54:SARS-COV2 NEUTRALIZING SINGLE DOMAIN ANTIBODY CONSTRUCTS ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin St., Twelfth Floor, Oakland, California, 94607, United States of America ~72: AASHISH MANGLIK;BRYAN FAUST;CHRISTIAN BILLESBOELLE;MICHAEL SCHOOF;NICHOLAS HOPPE;PETER WALTER;REUBEN SAUNDERS~ 33:US ~31:63/023,645 ~32:12/05/2020;33:US ~31:63/042,135 ~32:22/06/2020;33:US ~31:63/047,655 ~32:02/07/2020;33:US ~31:63/061,928 ~32:06/08/2020

2022/13322 ~ Complete ~54:COMPOSITIONS AND METHODS FOR OVERCOMING MICROENVIRONMENT-MEDIATED RESISTANCE VIA E-SELECTIN TARGETING ~71:GLYCOMIMETICS, INC., 9708 Medical Center Drive, Rockville, Maryland, 20850, United States of America ~72: JOHN L. MAGNANI;THEODORE SMITH;WILLIAM E FOGLER~ 33:US ~31:63/038,856 ~32:14/06/2020;33:US ~31:63/060,605 ~32:03/08/2020;33:US ~31:63/198,856 ~32:17/11/2020

2022/13297 ~ Complete ~54:MPPT-BASED DISTRIBUTED CONTROL METHOD AND DEVICE FOR GRID-CONNECTED CASCADED PHOTOVOLTAIC INVERTERS ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;YAN GENGLONG;ZHANG LEILEI~ 33:CN ~31:202211315975.4 ~32:26/10/2022

2022/13307 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PROMOTING PLANT HEALTH ~71:LOCUS SOLUTIONS IPCO, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean;ZORNER, Paul~ 33:US ~31:63/039,184 ~32:15/06/2020

2022/13312 ~ Complete ~54:SUBSTITUTED TRICYCLIC AMIDES, ANALOGUES THEREOF, AND METHODS USING SAME ~71:ARBUTUS BIOPHARMA CORPORATION, 100-8900 Glenlyon Parkway , Burnaby, British Columbia, V5J 5J8, Canada ~72: ANDREW G COLE;BENJAMIN J DUGAN;BRUCE D DORSEY;EUGEN F MESAROS;MICHAEL J SOFIA;STEVEN G KULTGEN;YI FAN~ 33:US ~31:63/024,559 ~32:14/05/2020

2022/13316 ~ Complete ~54:ARYLSULFONYL DERIVATIVES AND THEIR USE AS MUSCARINIC ACETYLCHOLINE RECEPTOR M5 INHIBITORS ~71:VANDERBILT UNIVERSITY, 305 Kirkland Hall 2201 West End Avenue, Nashville, TN 37240, United States of America ~72: ANDREW S FELTS;CHANGHO HAN;CRAIG W LINDSLEY;DAVID L WHOMBLE;DOUGLAS L ORSI;P. JEFFREY CONN;RORY A CAPSTICK~ 33:US ~31:63/041,477 ~32:19/06/2020

2022/13321 ~ Complete ~54:SENSITIZER FOR CANCER TREATMENT ~71:KORTUC INC, 4th floor, Shiroyama Trust Tower, 4-3-1 Toranomon, Minato-ku, Tokyo, 1056004, Japan ~72: SOMAIAH NAVITA;YASUHIRO OGAWA~ 33:JP ~31:2020-103121 ~32:15/06/2020

2022/13324 ~ Complete ~54:A CONNECTOR ASSEMBLY FOR A DRILLING APPARATUS ~71:MAMMOTH PLANT AND EQUIPMENT PROPRIETARY LIMITED, 9A Chopin Street, Klarinet Industrial Area, Witbank 1035, Mpumalanga, SOUTH AFRICA, South Africa ~72: GOUWS, Juan~ 33:ZA ~31:2020/05061 ~32:17/08/2020

2022/13329 ~ Complete ~54:INORGANIC NANOPARTICLE-BASED VACCINE COMPOSITIONS FOR CANCER TREATMENT ~71:Centro de Inmunología Molecular, Calle 216 y 15, Atabey, Playa, LA HABANA 11300, CUBA, Cuba;Universidad de La Habana, San Lázaro y L, Vedado, Plaza de la Revolución, LA HABANA 10400, CUBA, Cuba ~72: BORDALLO LEÓN, Fernando;CRUZ RODRÍGUEZ, Mabel;ECHEVERRÍA LUNA, Yerandy;GARCÍA ARTALEJO, Judey Aymed;GONZÁLEZ MARTÍNEZ, David Alejandro;GONZÁLEZ PALOMO, Adys;GONZÁLEZ RUIZ, Gustavo;LÓPEZ MATILLA, Lien;LEÓN MONZÓN, Kalet;LUZARDO LORENZO, Maria del

Carmen;RUIZ CASTRO, Elaine;SÁNCHEZ RAMÍREZ, Belinda;SANTO TOMÁS POMPA, Julio Felipe~ 33:CU ~31:CU- 2020-0032 ~32:09/06/2020

2022/13291 ~ Complete ~54:METHOD FOR INSTALLING A MOVABLE DECK ~71:Zhejiang International Maritime College, No. 268, Haitian Avenue, Lincheng, Zhoushan, Zhejiang, 316021, People's Republic of China ~72: Yan Lin;Yishan Li;Zailiang Liu~

2022/13293 ~ Complete ~54:CARBON FIBER POLYMER COMPOSITE MATERIAL PRESSURE-RESISTANT CABIN BODY AND PREPARATION TECHNOLOGY THEREOF ~71:Jimei University, No. 185, Yinjiang Road, Jimei District, Xiamen 361021, Fujian, CHINA (P.R.C.), People's Republic of China;Shanghai Marine Diesel Engine Research Institute, No. 3111, Huaning Road, Minhang District, 201108, Shanghai, CHINA (P.R.C.), People's Republic of China;Shanghai Maritime University, No. 1550, Haigang Avenue, Pudong New Area, Shanghai 201306, CHINA (P.R.C.), People's Republic of China;Shanghai Ocean University, No. 999, Huchenghuan Rd., Pudong New Area, 201306, Shanghai, CHINA (P.R.C.), People's Republic of China ~72: CAI, Weiqiang;DAI, Leyang;LIAO, Jianbin;LIU, Zhangchao;WU, Yu;YANG, Chao;ZHANG, Zhonggang~

2022/13296 ~ Complete ~54:PROGRESSIVE NEURAL NETWORK BASED MULTI-MODAL EMOTION CLASSIFICATION METHOD ~71:MOUTAI INSTITUTE, Luban Avenue, Renhuai City, Guizhou Province, 564500, People's Republic of China ~72: LI LANG;LIU YUN;SHEN SHIXUN;TIAN PENG;ZHANG LEILEI~ 33:CN ~31:202211315981.X ~32:26/10/2022

2022/13300 ~ Complete ~54:A METHOD FOR CONSOLIDATING A FIBROUS MATERIAL WITH A BIO-BASED BINDER POLYMER, A CONSOLIDATED FIBROUS MATERIAL AND AN AQUEOUS BINDER SOLUTION ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, - 405 03, Sweden ~72: HAGBERG, Daniel;NIHLSTRAND, Anna;NODBRANDT, Andrea;WISS, Véronique~ 33:SE ~31:PCT/SE2020/050564 ~32:04/06/2020

2022/13301 ~ Complete ~54:DISPENSER WITH ELECTRONIC LOCK ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, - 405 03, Sweden ~72: HENSON, Mark W.;KÄLLGREN, Antonio;KLING, Robert~

2022/13306 ~ Complete ~54:SYSTEM AND METHOD FOR THE STERILE FILLING OF CONTAINERS ~71:GRIFOLS WORLDWIDE OPERATIONS LIMITED, Grange Castle Business Park, Ireland ~72: BOIRA BONHORA, Jordi;PAGES BECERRA, David;ROURA SALIETTI, Carlos~ 33:EP ~31:20382399.2 ~32:13/05/2020

2022/13286 ~ Complete ~54:LIQUID MEDICINE FOR RAPIDLY TREATING SCALD AND BURN ~71:TAN Shengwu, No.98 Bulingtun, Taiping Village, Taiping Town, Pingguo County, Baise City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: TAN Shengwu~

2022/13292 ~ Complete ~54:MODELING METHOD FOR ELECTROMAGNETIC NONDESTRUCTIVE TESTING OF CARBON FIBER REINFORCED PLASTIC ~71:CRRC SMD (Shanghai) Ltd., No. 321, Feizhou Road, Lingang New Area, Shanghai 201306, CHINA (P.R.C.), People's Republic of China;Jimei University, No. 185, Yinjiang Road, Jimei District, Xiamen 361021, Fujian, CHINA (P.R.C.), People's Republic of China;Shanghai Marine Diesel Engine Research Institute, No. 3111, Huaning Road, Minhang District, 201108, Shanghai, CHINA (P.R.C.), People's Republic of China;Shanghai Maritime University, No. 1550, Haigang Avenue, Pudong New Area, Shanghai 201306, CHINA (P.R.C.), People's Republic of China;Shanghai Ocean University, No. 999, Huchenghuan Rd., Pudong New Area, 201306, Shanghai, CHINA (P.R.C.), People's Republic of China ~72: DAI, Leyang;LIU, Zhangchao;PEI, Yuyao;SONG, Junhui;WU, Yu;YANG, Chao;ZHANG, Dinghua;ZHANG, Zhonggang~

2022/13294 ~ Complete ~54:ELECTRONIC LOCK BRACKET, LOCKING SYSTEM AND SHARED NURSING CHAIR ~71:Weihai Wego Qiquan Medical Equipment Co., Ltd., No.566-1, Qishan Road, Caomiaozi Town, Weihai

International Port Economic and Technologic264211, Shandong, CHINA (P.R.C.), People's Republic of China ~72: GUO, Qiang;JU, Hongfeng;YU, Shikun;ZHANG, Xuanwei~

2022/13311 ~ Complete ~54:USE OF BISPECIFIC CD123 X CD3 DIABODIES FOR THE TREATMENT OF HEMATOLOGIC MALIGNANCIES ~71:MACROGENICS, INC., 9704 Medical Center Drive, United States of America;NOTTINGHAM TRENT UNIVERSITY, 50 Shakespeare Street, United Kingdom ~72: Jan, Kenneth DAVIDSON;Sergio RUTELLA~ 33:US ~31:63/041,051 ~32:18/06/2020

2022/13313 ~ Complete ~54:ANTIMICROBIAL AGENT OR NON-HUMAN ANIMAL ~71:ISHIHARA SANGYO KAISHA, LTD., 3-15, Edobori 1-chome Nishi-Ku Osaka-shi, Osaka, 5500002, Japan ~72: HIROSHI SHIKAMA;KOJI HIGUCHI;SHOGO ATSUMI;TAKAYUKI IMURA~ 33:JP ~31:2020-097170 ~32:03/06/2020

2022/13315 ~ Complete ~54:RESOURCE SCHEDULING SYSTEM FOR A WIRELESS COMMUNICATION NETWORK ~71:WIREPAS OY, Visiokatu 4, Tampere, 33720, Finland ~72: JUHO PIRSKANEN;VILLE KASEVA~ 33:FI ~31:20205602 ~32:10/06/2020

2022/13319 ~ Complete ~54:GRAVITY SEPARATION OF SLURRIES ~71:EXTRAKT PROCESS SOLUTIONS, LLC, 140 Turner Ct, Bowling Green, Kentucky, 42101, United States of America ~72: ARON LUPINSKY;CHRISTIAN KUJAWA;PAUL C PAINTER~ 33:US ~31:63/034,613 ~32:04/06/2020

2022/13326 ~ Complete ~54:HETEROZYGOUS CENH3 MONOCOTS AND METHODS OF USE THEREOF FOR HAPLOID INDUCTION AND SIMULTANEOUS GENOME EDITING ~71:Cold Spring Harbor Laboratory, 1 Bungtown Road, COLD SPRING HARBOR 11724, NY, USA, United States of America;University of Georgia Research Foundation, Inc., 210 Jackson Street, 110 Terrell Hall, ATHENS 30602, GA, USA, United States of America ~72: DAWE, R. Kelly;JACKSON, David~ 33:US ~31:63/036,902 ~32:09/06/2020;33:US ~31:63/036,910 ~32:09/06/2020

2022/13320 ~ Complete ~54:DISTRIBUTION OF HIGH DYNAMIC RANGE IMAGES IN A MIXED CAPABILITY PLAYBACK SYSTEM ~71:DOLBY LABORATORIES LICENSING CORPORATION, 1275 Market Street, San Francisco, California, 94103, United States of America ~72: GOPI LAKSHMINARAYANAN;GUAN-MING SU;ROBIN ATKINS~ 33:EP ~31:20183398.5 ~32:01/07/2020;33:US ~31:63/046,796 ~32:01/07/2020

2022/13325 ~ Complete ~54:TRICYCLIC HETEROCYCLES ~71:Cancer Research Technology Ltd., 2 Redman Place, LONDON E20 1JQ, UNITED KINGDOM, United Kingdom;Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: BLUM, Andreas;CARSWELL, Emma;GUNERA, Jakub;HEINRICH, Timo;KOETZNER, Lisa;SCHLESIGER, Sarah~ 33:EP ~31:20187542.4 ~32:23/07/2020

2022/13323 ~ Complete ~54:CAPTURE ASSEMBLY AND METHOD OF USE THEREOF ~71:TRUVIAN SCIENCES, INC., 10300 Campus Point Drive, Suite 190, San Diego, California, 92121, United States of America ~72: DANIEL ADAM TROTT;JEFF HAWKINS;JOHNNY STEVE RACHELE;PETER DELMENICO;ROGER TAYLOR~ 33:US ~31:63/026,581 ~32:18/05/2020

2022/13328 ~ Complete ~54:NOVEL RESISTANCE GENES ASSOCIATED WITH DISEASE RESISTANCE IN SOYBEANS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BREITINGER, Becky Welsh;CHUNG, Euihwan;CURLEY Jr., Thomas Joseph;DAWSON, John Luther;FARMER, Andrew David;HIPSKIND, John Daniel;LIU, Qingli;TAN, Xiaoping~ 33:US ~31:63/042,101 ~32:22/06/2020

2022/13287 ~ Complete ~54:SINGLE-END BIDIRECTIONAL MOVING IMPACT ISOLATION DEVICE OF TENSION SPRING ~71:SHENYANG UNIVERSITY OF TECHNOLOGY, No.111,Shenliao West

Road,Economic&Technological Development Zone, Shenyang City, Liaoning Province, People's Republic of China ~72: BA Zhongcheng;LI Jihao;LI Zhenjun;SUN He;TANG Liying;XU Wei~

2022/13289 ~ Complete ~54:A PENETRATION CRYSTALLIZATION INTERNAL DOPING TYPE TRIPLE COMPOUND IMPERMEABLE AGENT PREPARATION METHOD AND APPLICATION ~71:Xinxiang City Runfeng Zeyu Environmental Material Technology Co., Hongqi District 863 Industrial Park, Xinxiang City, Henan Province, 453000, People's Republic of China ~72: Xinran ZHANG;Yuwei ZHANG~

2022/13303 ~ Complete ~54:BACULOVIRUS EXPRESSION SYSTEMS ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: DELAGRAVE, Simon;PITTS, Jared, David~ 33:US ~31:63/038,603 ~32:12/06/2020;33:US ~31:63/147,056 ~32:08/02/2021

. - APPLIED ON 2022/12/09 -

2022/13369 ~ Complete ~54:DETECTING NUCLEIC ACIDS USING SUGAR-LECTIN COUPLINGS ~71:ILLUMINA SINGAPORE PTE. LTD., 29 Woodlands Industrial Park E1, North Tech Lobby 3, #02-13/18, Singapore, 757716, Singapore;ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ALLEN ECKHARDT;DANIEL ORTIZ;ERIC VERMAAS;RIGO PANTOJA;XIANGYAUN YANG;YIN NAH TEO~ 33:US ~31:63/077,416 ~32:11/09/2020

2022/13376 ~ Complete ~54:METHOD OF OPERATING A MINING HOIST ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: GARTNER, Tim;KATOLIK, Jerzy~ 33:EP ~31:20179280.1 ~32:10/06/2020

2022/13331 ~ Provisional ~54:KIKO VITALS BLOAT CAPSULE ~71:Kerri-lee Taylor, 10 GABBRO PLACE, BOSKLOOF ECO ESTATE, BOSKLOOF DRIVE, South Africa ~72: Kerri-lee Taylor~

2022/13339 ~ Complete ~54:APPLICATION OF SOLUBLE CALCIUM SALTS IN REDUCTION OF ACCUMULATION OF HEAVY METAL CADMIUM IN RICE GRAINS ~71:China Jiliang University Huangshan High Quality Development Research Institute Co., Ltd., No. 99, Meilin Avenue, Huangshan High-tech Industrial Development Zone, Anhui Province, 245702, People's Republic of China;Huangshan Huikefang Food Co., Ltd., No. 27, Zhenxing Avenue, Chengbei Industrial Park, Huizhou District, Huangshan City, Anhui Province, 245061, People's Republic of China ~72: DING, Yanfei;DONG, Kongyi;WANG, Feijuan;ZHU, Cheng~

2022/13345 ~ Complete ~54:PATTERN LAYER TO BE ADHERED TO LIVING BODY ~71:IZAWA Yuto, 5-16-8, Nukuikitamachi, Koganeishi, Japan ~72: IZAWA Yuto~ 33:JP ~31:2020-116736 ~32:06/07/2020

2022/13333 ~ Provisional ~54:POCKET BURQAH ~71:Shenaaz Mahomed, Spinney Close Village, Unit 2, South Africa ~72: Shenaaz Mahomed~

2022/13349 ~ Complete ~54:COUPLING ARRANGEMENT ~71:KUZUCAN, Mehmet, Bora, 43 SHORE GARDENS, OAKVILLE, ONTARIO L6L 5Z2, CANADA, Turkey ~72: KUZUCAN, Mehmet, Bora~

2022/13358 ~ Complete ~54:IMAGE SENSOR STRUCTURES AND RELATED METHODS ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, Cambridgeshire, CB21 6DF, United Kingdom;ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: CRAIG LEE HETHERINGTON;CRAIG M CIESLA;JASON BETLEY;JEFFREY FISHER;LEWIS KRAFT;MICHAEL BUREK~ 33:US ~31:63/123,741 ~32:10/12/2020

2022/13366 ~ Complete ~54:NUCLEIC ACID CAPTURE, CONCENTRATION, AND PURIFICATION ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ANMIV

PRABHU;MICHELLE HIGGINS;RIGO PANTOJA;SEAN M RAMIREZ~ 33:US ~31:63/047,103 ~32:01/07/2020;33:NL ~31:2026080 ~32:17/07/2020

2022/13335 ~ Complete ~54:SELF-SUCTION DIFFERENTIAL REVERSING LIQUID QUANTITATIVE PROPORTIONING DEVICE FOR THE COAL MINE DUST SUPPRESSANT ~71:Taiyuan University of Technology, No.79 Yingze West Street, Wanbailin District, Taiyuan, Shanxi Province, People's Republic of China ~72: Du Jingyong;Duan Zhen;Gao Guijun;Kou Ziming;Wang Yan;Zhang Ke~

2022/13338 ~ Complete ~54:AN AGRICULTURAL ENVIRONMENT DETECTION DEVICE AND ITS DETECTION METHOD ~71:Chuzhou University, No. 1, Huifeng West Road, Nanqiao District, Chuzhou, 239000, People's Republic of China ~72: Sun Chenyang;Sun Haoyuan;Wang Kai;Wang Linhai;Wang Zongfei~ 33:CN ~31:202211414416.9 ~32:11/11/2022

2022/13351 ~ Complete ~54:METHOD AND DEVICE FOR PRODUCING DIRECT REDUCED METAL ~71:GREENIRON H2 AB, Box 2376, Sweden ~72: MURRAY, Hans E.H.~ 33:SE ~31:2050771-1 ~32:26/06/2020

2022/13362 ~ Complete ~54:MICROARRAYS, HYBRIDIZATION SEALS, AND RELATED METHODS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ADAM GAUSTAD;CHANDLER BURKE;DANIEL SOLIS;JELENA STOJAKOVIC;JEREMY ZETTERBERG;JULIEN CORS;NORMAN KHOO~ 33:US ~31:63/051,855 ~32:14/07/2020

2022/13385 ~ Complete ~54:ANTIBODY FORMULATION DILUENT ~71:Ichnos Sciences SA, Chemin de la Combeta 5, LA CHAUX-DE-FONDS 2300, SWITZERLAND, Switzerland ~72: DUBEY, Sachin;GASSIAT, Brice~ 33:EP ~31:20179607.5 ~32:12/06/2020

2022/13341 ~ Complete ~54:DEEP SEA WATERTIGHT PRESSURE CABIN ~71:Jimei University, No. 185, Yinjiang Road, Jimei District, Xiamen 361021, Fujian, CHINA (P.R.C.), People's Republic of China;Shanghai Marine Diesel Engine Research Institute, No. 3111, Huaning Road, Minhang District, 201108, Shanghai, CHINA (P.R.C.), People's Republic of China;Shanghai Maritime University, No. 1550, Haigang Avenue, Pudong New Area, SHANGHAI 200135, CHINA (P.R.C.), People's Republic of China;Shanghai Ocean University, No. 999, Huchenghuan Rd., Pudong New Area, 201306, Shanghai, CHINA (P.R.C.), People's Republic of China ~72: DAI, Leyang;LIAO, Jianbin;LIU, Zhangchao;PEI, Yuyao;WU, Yu;YANG, Chao;ZHANG, Zhonggang~

2022/13359 ~ Complete ~54:COMPOSITIONS AND METHODS FOR CAPTURING AND AMPLIFYING TARGET POLYNUCLEOTIDES USING MODIFIED CAPTURE PRIMERS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ESTEBAN ARMIJO;HAYDEN BLACK;MATHIEU LESSARD-VIGER~ 33:US ~31:63/128,675 ~32:21/12/2020

2022/13361 ~ Complete ~54:METHODS, SYSTEMS AND COMPOSITIONS FOR NUCLEIC ACID SEQUENCING ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, Cambridgeshire, CB21 6DF, United Kingdom ~72: ANTOINE FRANCAIS;ELENA CRESSINA;NIKOLAI NIKOLAEVICH ROMANOV;PATRICK MCCAULEY;XIAOHAI LIU;XIAOLIN WU~ 33:US ~31:63/127,043 ~32:17/12/2020

2022/13334 ~ Complete ~54:CONTROLLED AGILE LASER CHAOTIC SIGNAL GENERATOR AND POLYMORPHIC CHAOTIC AGILE LIDAR ~71:SOUTHWEST UNIVERSITY, 2 Tiansheng Road, Beibei District, Chongqing City, 400715, People's Republic of China ~72: CHENG Hao;WU Jiagui;YANG Junbo~ 33:CN ~31:2021115177288 ~32:10/12/2021

2022/13364 ~ Complete ~54:SEPARATING POLYNUCLEOTIDE FRAGMENTS ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, Cambridgeshire, CB21 6DF, United Kingdom;ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ANDREW SLATTER;FRANK STEEMERS;JEFFREY FISHER;LEWIS KRAFT;M. SHANE BOWEN;MARIA CANDELARIA ROGERT BACIGALUPO;NIALL GORMLEY~ 33:US ~31:63/048,347 ~32:06/07/2020

2022/13363 ~ Complete ~54:A METHOD TO CALIBRATE NUCLEIC ACID LIBRARY SEEDING EFFICIENCY IN FLOWCELLS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: FILIZ GORPE-YASAR;JEFF BRODIN;JEFF FISHER;YIR-SHYUAN WU~ 33:US ~31:63/047,817 ~32:02/07/2020

2022/13330 ~ Provisional ~54:KIKO HORMONE BALANCE CAPSULE ~71:Kerri-lee Taylor, 10 GABBRO PLACE, BOSKLOOF ECO ESTATE, BOSKLOOF DRIVE, South Africa ~72: Kerri-lee Taylor~

2022/13337 ~ Complete ~54:DATA-DRIVEN QUANTITATIVE PREDICTION METHOD OF MINERAL RESOURCES BASED ON POSITIVE-UNLABELED LEARNING ~71:China University of Geosciences, Beijing, No.29,Xueyuan Road,Haidian District, Beijing, People's Republic of China ~72: GAO Meng;WANG Gongwen;ZHANG Zhiqiang~

2022/13343 ~ Complete ~54:CONTROL CIRCUITRY FOR OFFLINE AUTHENTICATION IN AN AEROSOL-GENERATING DEVICE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: CRISTIAN, Gregory André;WAGNER, Christian~ 33:EP ~31:20191764.8 ~32:19/08/2020

2022/13346 ~ Complete ~54:TANDEM ANELLOVIRUS CONSTRUCTS ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: DELAGRAVE, Simon;LEBO, Kevin, James;NAWANDAR, Dhananjay, Maniklal;TIMPONA, Joseph, Louis~ 33:US ~31:63/038,483 ~32:12/06/2020;33:US ~31:63/146,963 ~32:08/02/2021

2022/13355 ~ Complete ~54:FIXTURES AND RELATED IMPRINTING SYSTEMS AND METHODS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: AUDREY ZAK;MICHAEL RAPP;TIMOTHY MERKEL~ 33:US ~31:63/073,423 ~32:01/09/2020

2022/13360 ~ Complete ~54:SELECTING APTAMERS USING SEQUENCING ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: CASSANDRA CHAMOUN~ 33:US ~31:63/128,669 ~32:21/12/2020

2022/13368 ~ Complete ~54:METHODS FOR MAKING FLOW CELLS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: BRIAN D MATHER;BRINDA KODIRA CARIAPPA;JEFFREY S FISHER;LEWIS J KRAFT;SAHNGKI HONG;VANESSA MONTANO-MACHADO~ 33:US ~31:63/084,983 ~32:29/09/2020

2022/13375 ~ Complete ~54:METHODS FOR TREATING MULTIPLE MYELOMA ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: ADAMS, Homer;BANERJEE, Arnob;GIRGIS, Suzette;GOLDBERG, Jenna;LIN, Shun xin Wang;STEPHENSON, Tara;VERONA, Raluca~ 33:US ~31:63/023,092 ~32:11/05/2020;33:US ~31:63/024,209 ~32:13/05/2020;33:US ~31:63/159,303 ~32:10/03/2021

2022/13378 ~ Complete ~54:USE OF CXCL13 BINDING MOLECULES TO PROMOTE PERIPHERAL NERVE REGENERATION ~71:Vaccinex, Inc., 1895 Mt. Hope Avenue, ROCHESTER 14620, NY, USA, United States of America ~72: DIGIOVANNI, Simone;ZHOU, Luming~ 33:US ~31:63/037,755 ~32:11/06/2020

2022/13381 ~ Complete ~54:PROCESS TO PRODUCE MICROFIBRILLATED/NANOFIBRILLATED CELLULOSE BY IMPACTS ~71:Suzano S.A., Avenida Professor Magalhães Neto, nº 1.752, 10º andar, salas 1010 e 1011, Pituba, SALVADOR - BA 41810-012, BRAZIL, Brazil ~72: GUIMARÃES, Matheus Antunes;MAI, Estevão Frigini;RUBINI, Bibiana Ribeiro~ 33:US ~31:63/023,075 ~32:11/05/2020;33:US ~31:16/988,458 ~32:07/08/2020

2022/13384 ~ Complete ~54:IMIDAZOPYRIDAZINE COMPOUNDS WITH ACTIVITY AS ALK2 INHIBITORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: BAI, Yu;PAN, Jun;WU, Liangxing;YAO, Wenqing~ 33:US ~31:63/038,410 ~32:12/06/2020

2022/13348 ~ Complete ~54:COMPRESSOR ~71:KUZUCAN, Mehmet, Bora, 43 SHORE GARDENS, OAKVILLE, ONTARIO L6L 5Z2, CANADA, Turkey ~72: KUZUCAN, Mehmet, Bora~

2022/13352 ~ Complete ~54:ST2 ANTIGEN BINDING PROTEIN ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No. 369 Yuzhou South Rd., Lianyungang, Jiangsu, 222062, People's Republic of China ~72: HONGJIANG XU;JUN GUO;LING YANG;SHUSONG YING;WEI SHI;WEI SONG;XIQUAN ZHANG;YUNYAN ZHOU;ZHENGPING ZHANG~ 33:CN ~31:202010397572.3 ~32:12/05/2020

2022/13371 ~ Complete ~54:COMPOSITIONS AND METHODS USEFUL FOR THE PREVENTION AND/OR TREATMENT OF DISEASE IN MAMMALS ~71:VIRO-GEN PTY LTD, 313 CLIFF AVENUE, WATERKLOOF RIDGE x2, South Africa ~72: SMIT, MICHELLE OLGA PATRICIA GIESTEIRA DA SILVA~ 33:ZA ~31:2020/03850 ~32:09/07/2020;33:ZA ~31:2020/04008 ~32:09/07/2020

2022/13373 ~ Complete ~54:PNEUMATIC HANDLE AND DENTAL ELEVATOR ~71:HEBEI RUNYUE MEDICAL DEVICE CO., LTD, Room 506-510, 5th Floor, Chuangxin Building, Jinshi Industrial Park, No. 368 Xinshi North Road, Shijiazhuang City, People's Republic of China ~72: XING, Shuzhe;XING, Yunfei~ 33:CN ~31:CN202020951050.9 ~32:29/05/2020

2022/13377 ~ Complete ~54:USE OF SEMAPHORIN-4D BINDING MOLECULES FOR THE TREATMENT OF RETT SYNDROME ~71:The Sydney Children's Hospital Network, ABN 53 188 579 090 of Hawkesbury Rd and Hainsworth, WESTMEAD 2145, NSW, AUSTRALIA, Australia;Vaccinex, Inc., 1895 Mt. Hope Avenue, ROCHESTER 14620, NY, USA, United States of America ~72: EVANS, Elizabeth E.;GOLD, Wendy;MAO, Matthew Yilin;ZAUDERER, Maurice~ 33:US ~31:63/043,945 ~32:25/06/2020

2022/13379 ~ Complete ~54:METHOD FOR MONITORING A RAILWAY TRACK AND MONITORING SYSTEM FOR MONITORING A RAILWAY TRACK ~71:Frauscher Sensor Technology Group GmbH, Gewerbestr. 1, ST. MARIENKIRCHEN 4774, AUSTRIA, Austria ~72: DEETLEFS, Richard;EBERTSEDER, Andreas;HUBER, Stefan;MILLEDER, Roman;ZEILINGER, Rene~ 33:EP ~31:20180357.4 ~32:16/06/2020

2022/13382 ~ Complete ~54:SUSPENSION STABILIZER AGENT ~71:Suzano S.A., Avenida Professor Magalhães Neto, 1.752, 10º andar, salas 1009, 1010 e 1011, Pituba, SALVADOR - BA 41810-012, BRAZIL, Brazil ~72: GUIMARÃES, Matheus Antunes;MAI, Estevão Frigini;SIQUEIRA, Germano Andrade;VIEIRA, Richieli Teles~ 33:US ~31:63/023,056 ~32:11/05/2020

2022/13365 ~ Complete ~54:DEVICES WITH FIELD EFFECT TRANSISTORS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: BOYAN BOYANOV;JEFFREY G MANDELL;RICO OTTO~ 33:US ~31:63/047,743 ~32:02/07/2020;33:US ~31:63/200,868 ~32:31/03/2021

2022/13386 ~ Complete ~54:THERMOSET UNDERCOATING COMPOSITIONS COMPATIBLE WITH FREE-RADICALLY CURED OVERCOATING FOR METAL SUBSTRATES ~71:SWIMC LLC, 101 West Prospect

Avenue, 1100 Midland Bldg, CLEVELAND 44115, OH, USA, United States of America ~72: QUEREAU, Marie Edith;TURGIS, Jean-Dominique~ 33:US ~31:63/025,364 ~32:15/05/2020

2022/13336 ~ Complete ~54:ORGANIC FERTILIZER CAPABLE OF IMPROVING ORGANIC CARBON COMPONENTS IN TOBACCO-PLANTING SOIL ~71:Institute of Agricultural Resources and Environment, SAAS, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China;Liangshan Prefecture Branch of Sichuan Tobacco Company, 432 East Sanchakou Road, Xichang City, Sichuan Province, 615000, People's Republic of China ~72: CHEN, Shuhong;CHEN, Yulan;FAN, Hongzhu;GAO, Yong;LI, Changming;LI, Feng;LONG, Gang;LUO, Lin;QU, Jingxiong;WANG, Yong;ZHANG, Xiao~

2022/13340 ~ Complete ~54:METHOD AND DEVICE FOR MEASURING CONDITION OF TERRAIN AND LANDFORMS ~71:Chinese Academy of Surveying and Mapping, No. 28, Lianhuachi West Road, Haidian District, Beijing, 100830, People's Republic of China ~72: HOU, Wei;LIU, Jia;QIAO, Qinghua;ZHAI, Liang~ 33:CN ~31:202111517473.5 ~32:13/12/2021

2022/13353 ~ Complete ~54:SUBSTITUTED COUMARIN DYES AND USES AS FLUORESCENT LABELS ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, Cambridgeshire, CB21 6DF, United Kingdom ~72: CAROLE ANASTASI;MICHAEL CALLINGHAM;NATASHA CRAKE;NIALL HYNES;NIKOLAI NIKOLAEVICH ROMANOV;PATRICK MCCAULEY;XIAOHAI LIU;XIAOLIN WU~ 33:US ~31:63/057,758 ~32:28/07/2020

2022/13354 ~ Complete ~54:COMPOSITIONS AND METHODS FOR DETECTING AN ABASIC SITE OF A NUCLEIC ACID ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: JIE MAO;RANDALL SMITH~ 33:US ~31:63/077,119 ~32:11/09/2020

2022/13332 ~ Provisional ~54:CALLER ADS ~71:Boikarabelo Marvin Mashego, 2042 Kgwele Dr, South Africa ~72: Marvin Boikarabelo Mashego~

2022/13342 ~ Complete ~54:BLOCKCHAIN SUPPORTED BANKNOTE ~71:BUNDESDRUCKEREI GMBH, Kommandantenstrasse 18, Germany ~72: BÖSCH, Christoph;PETERS, Florian;RÜCKRIEMEN, Jörg;SZEGVARI, Piotr~ 33:DE ~31:10 2020 115 035.0 ~32:05/06/2020

2022/13344 ~ Complete ~54:PROCESS FOR PRODUCING A PURIFIED RHABDOVIRUS FROM CELL CULTURE ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: GARCIA, Alan, Pardo;GREIN, Tanja, Anneliese;KAESS, Friedrich;MUELLER, Dethardt;NG, Judy;PESTA, Katharina;SCHNEIDER, Sabrina;TURNBULL, Jordan~ 33:EP ~31:20185118.5 ~32:10/07/2020

2022/13347 ~ Complete ~54:A SOLVENT DRYING SOLUTION AND PROCESSES THEREFOR ~71:AQUAFORTUS TECHNOLOGIES LIMITED, c/- Simpson Grierson, Level 27, 88 Shortland Street, New Zealand ~72: MADDOX, Crystal;PRAKASH, Chaitra;TANG, Haiming~ 33:US ~31:63/050,546 ~32:10/07/2020;33:US ~31:63/084,856 ~32:29/09/2020

2022/13350 ~ Complete ~54:DEVICE AND METHOD FOR UNDERWATER SAMPLING ~71:RUSSEL 10984 (PTY) LTD, 119 Burman Road, Deal Party, South Africa ~72: DU PLESSIS, Alwyn;HEUNIS, Francois Petrus;RAUTENBACH, Russel James~ 33:ZA ~31:2020/02705 ~32:13/05/2020

2022/13356 ~ Complete ~54:DETECTING MATERIALS IN A MIXTURE USING OLIGONUCLEOTIDES ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: SHAUN HUNTER~ 33:US ~31:63/110,655 ~32:06/11/2020

2022/13357 ~ Complete ~54:FLOW CELLS AND METHODS FOR MAKING THE SAME ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: LEWIS J KRAFT;SAHNGKI HONG~ 33:US ~31:63/084,986 ~32:29/09/2020

2022/13367 ~ Complete ~54:COMPOSITIONS AND METHODS FOR AMPLIFYING POLYNUCLEOTIDES ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, Cambridgeshire, CB21 6DF, United Kingdom;ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: JASON BETLEY;JEFFREY FISHER~ 33:US ~31:63/077,857 ~32:14/09/2020

2022/13370 ~ Complete ~54:FLOW CELLS ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: BRIAN D MATHER;RAYMOND CAMPOS;SEAN M RAMIREZ~ 33:US ~31:63/094,147 ~32:20/10/2020

2022/13372 ~ Complete ~54:SAFETY SOCKET MODULE, AND POWER STRIP AND MOBILE CABLE REEL COMPRISING SAFETY SOCKET MODULE ~71:DALIAN SAFE TECHNOLOGY CO., LTD, Huang Lingzi, Huaqiao Farm, Ganjingzi District, Dalian, People's Republic of China ~72: CAO, Liwei;MA, Junge;MA, Wen~ 33:CN ~31:202010513546.2 ~32:08/06/2020

2022/13374 ~ Complete ~54:DOSING AND ADMINISTRATION OF ACTIVATABLE ANTI-CTLA-4 ANTIBODY ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: BROWN, Michelle;JAMES, Leonard P.~ 33:US ~31:63/023,850 ~32:12/05/2020

2022/13380 ~ Complete ~54:SARS-COV-2 ANTIBODIES AND METHODS OF SELECTING AND USING THE SAME ~71:AstraZeneca UK Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, UNITED KINGDOM, United Kingdom ~72: DU, Qun;ESSER, Mark;LOO, Yueh-Ming;MCTAMNEY II, Patrick;RAJAN, Saravanan;STEINHARDT, James;VARKEY, Reena M.~ 33:US ~31:63/026,121 ~32:17/05/2020

2022/13383 ~ Complete ~54:SYSTEMS AND METHODS TO PRESERVE WILDLIFE AND ENABLE REMOTE WILDLIFE TOURISM ~71:Themba Inc., 201 Industrial Road, Suite 410, SAN CARLOS 94070, CA, USA, United States of America ~72: CALLAWAY, Noah;EIRAN, Margot;EIRAN, Ori;LEV, Omer;RABINOWITZ, Matthew;SHEENA, Jonathan~ 33:US ~31:63/023,524 ~32:12/05/2020;33:US ~31:63/024,695 ~32:14/05/2020

2022/13387 ~ Complete ~54:ANTI-STALL AUTOMATED TRACK STEER PROPULSION ~71:Technological Resources Pty Limited, 360 Collins Street, Level 7, MELBOURNE 3000, VICTORIA, AUSTRALIA, Australia ~72: CARTWRIGHT, Joel;INNES, Chris~

. - APPLIED ON 2022/12/12 -

2022/13390 ~ Provisional ~54:VERIFICATION SYSTEM ~71:AKHIDUE, Charles Osemudiamen, The Catalyst, 100 Pretoria Ave, South Africa ~72: AKHIDUE, Charles Osemudiamen~

2022/13392 ~ Provisional ~54:SEALING GROMMET ~71:PIMMS Group (Pty) Ltd, 1050 Liner Ave, Corner Zeiss Rd, Laser Park, Honeydew, South Africa ~72: DAVID PAUL STIEVENART;JASCHKA SWART~

2022/13394 ~ Provisional ~54:SS DYNAMIC BOLT ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2022/13396 ~ Complete ~54:GROWTH-PROMOTING COMPOUND LIVE BACTERIA PREPARATION FOR DONKEYS AND PREPARATION METHOD THEREFOR ~71:Branch of Animal Husbandry and Veterinary, Heilongjiang Academy of Agricultural Sciences, No. 61, Shenjiang Road, Nanhang Street, Longsha District, Qiqihar City, Heilongjiang Province, 161000, People's Republic of China;Heilongjiang Santoulu Agricultural Technology Co., Ltd., Gongnong Street, Fulaerji District, Qiqihar City, Heilongjiang Province, 161041, People's

Republic of China;North Grid Heilongjiang Agriculture and Animal Husbandry Technology Co., Ltd., Block A, Lianda Lijing Zutuan, Jianhua District, Qiqihar City, Heilongjiang Province, 161006, People's Republic of China;Qiqihar Kanghe Animal Husbandry Co., Ltd., Angangxi District, Qiqihar City, Heilongjiang Province, 161031, People's Republic of China ~72: DING, Liyan;JIANG, Botao;JIN, Zhenhua;LAN, Shijie;LI, Hongjun;LI, Li;LI, Ping;LI, Wei;LIU, Xuesong;LIU, Yu;WANG, Jiahui;WANG, Likun;WANG, Shuang;WU, Xian;XU, Tingting;YIN, Junyi;ZHANG, Yan;ZHU, Qinghe;ZHU, Zhonghua;ZOU, Yue~

2022/13402 ~ Complete ~54:A SECRET FORMULA FOR SCATTERING TUMORS AND TREATING CANCERS ~71:Zuogui Lv, Lvcong Dazhuangwu wan, Xiaojipu Village, Dajipu Town, Daye, Hubei, People's Republic of China ~72: Zuogui Lv~

2022/13406 ~ Complete ~54:A PRODUCTION PROCESS FOR ORGANOSILICON TERNARY COPPER CATALYSTS ~71:Anhui Xu Jing fen ti new material technology co., ltd, Jinsheng Road, Yi 'an Economic Development Zone, Yi 'an District, Tongling City, Anhui Province,China, People's Republic of China ~72: Jiang Jianping;Jiang xu~

2022/13407 ~ Complete ~54:COMPOSITIONS AND METHODS OF MANUFACTURING TRIVALENT FILOVIRUS VACCINES ~71:SOLIGENIX, INC., 29 Emmons Drive, Suite B-10, Princeton, New Jersey, 08540, United States of America;UNIVERSITY OF HAWAII, 2425 Campus Road, Sinclair 10, Honolulu, Hawaii, 96822, United States of America ~72: AXEL LEHRER;OREOLA DONINI~ 33:US ~31:62/850,443 ~32:20/05/2019

2022/13417 ~ Complete ~54:ADDING AUDIO CONTENT TO DIGITAL WORKS ~71:AUDIOMOB LTD, 71 - 75 Shelton Street, Covent Garden, United Kingdom ~72: FACEY, Christian;OBENG-BOAKYE, Wilfrid~ 33:US ~31:63/042,296 ~32:22/06/2020

2022/13424 ~ Complete ~54:HP-HMG FOR USE IN THE TREATMENT OF INFERTILITY IN A PATIENT WITH POLYCYSTIC OVARY SYNDROME ~71:Ferring B.V., Polaris Avenue 144, HOOFDDORP 2132 JX, THE NETHERLANDS, Netherlands ~72: HEISER, Patrick~

2022/13431 ~ Complete ~54:RATE ENHANCEMENT OF GAS CAPTURE PROCESSES ~71:C-Capture Ltd, Unit 14, Evans Business Centre, Albion Way, LEEDS LS12 2EP, YORKSHIRE, UNITED KINGDOM, United Kingdom ~72: BARNES, Douglas;HOLDSWORTH, Duncan;RAYNER, Christopher;SCHOOLDERMAN, Caspar~ 33:GB ~31:2010908.8 ~32:15/07/2020

2022/13436 ~ Complete ~54:MONO- AND BIS-NITROSYLATED PROPANEDIOLS FOR THERAPEUTIC USE ~71:ATTGENO AB, Grönbrinksgatan 10, 11759, Stockholm, Sweden ~72: ANNA KAROLINA MARIA STENE HURTSÉN;KRISTOFER BO INGEMAR NILSSON;LEIF CHRISTOFER ADDING;PER HÅKAN AGVALD~ 33:GB ~31:2007929.9 ~32:27/05/2020

2022/13400 ~ Complete ~54:A METHOD FOR EXTRACTING VEGETATION INFORMATION FROM AERIAL PHOTOGRAPHS OF SYNERGISTIC REMOTE SENSING IMAGES ~71:Guizhou Institute of prataculture, No.1 Jinnong Road, Jinxin Community, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China ~72: JI Yuyu;LIU Fengpeng;OU Erling;TANG Huajiang;WANG Qian;WANG Zhiwei~

2022/13404 ~ Complete ~54:COMBINATION WALL AND FENCE SYSTEM WITH INTRUSION DETECTION ~71:SPEIRS, Michael, 21 Tewkesbury, Cotswold Downs, South Africa ~72: SPEIRS, Michael~ 33:ZA ~31:2021/10241 ~32:10/12/2021

2022/13408 ~ Complete ~54:DYNAMIC WETTING HEAD ~71:PROPROCESS ENGINEERING (PTY) LTD., 7 Sam Green Road, Tunney, Germiston, Gauteng, 1401, South Africa ~72: MARK ANTHONY MARCUS~

2022/13412 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS CONTAINING ENTEROKINE-RELEASING SUBSTANCES IN MULTIPLE DOSAGE FORMS IN COMBINATION WITH GELLING AGENTS ~71:APHAIA IP AG, Bahnhofstrasse 28, Switzerland ~72: BOLZ, Steffen-Sebastian;DEUSCH, Kai~

2022/13419 ~ Complete ~54:TEST SYSTEM AND MAIN DEVICE AND ADDITIONAL DEVICE THEREOF FOR TESTING AN ELECTRIC DEVICE ~71:OMICRON electronics GmbH, Oberes Ried 1, KLAUS 6833, AUSTRIA, Austria ~72: BITSCHNAU, Lukas;DE VILLIERS, Wernich;FEUSTEL, Felix;KAUFMANN, Reinhard;KUKUK, Matthias;RÄDLER, Michael;SCHEDLER, Horst;STUDER, Klaus;UNTERER, Boris~ 33:AT ~31:A50416/2020 ~32:13/05/2020

2022/13427 ~ Complete ~54:SPIRO COMPOUNDS AS MELANOCORTIN 4 RECEPTOR ANTAGONISTS AND USES THEREOF ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: BUTLER, Christopher Ryan;GARNSEY, Michelle Renee;OGILVIE, Kevin Alexander;POLIVKOVA, Jana;SAMMONS, Matthew Forrest;SMITH, Aaron Christopher;YANG, Qingyi~ 33:US ~31:63/036,798 ~32:09/06/2020;33:US ~31:63/167,271 ~32:29/03/2021

2022/13434 ~ Complete ~54:ANTI-LILRB1 ANTIBODY AND USES THEREOF ~71:LG CHEM, LTD., 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea ~72: HAN BYUL KIM;HEEHANG KIM;JUNG A KIM;JUNHAENG CHO;MINSOON KIM;SHINYOUNG KANG;YOON AA CHOI~ 33:KR ~31:10-2020-0094053 ~32:28/07/2020

2022/13389 ~ Provisional ~54:HYDROGEN FUEL CELL SELF-POWERED ELECTRIC VEHICLE (EVS) ~71:AHMED WASEEF SAIB, 24 Park Avenue, Desainagar, South Africa ~72: AHMED WASEEF SAIB~

2022/13395 ~ Complete ~54:IRON-RICH MICROBIAL COMPLEX AGENT FOR FEED AND PREPARATION AND APPLICATION THEREOF ~71:Hunan Institute of Microbiology, No. 18, Xinkaipu Road, Changsha, Hunan, 410009, People's Republic of China ~72: WANG, Chunping;YIN, Hongmei;ZENG, Yan;ZHOU, Bingyu~ 33:CN ~31:202210964804.8 ~32:12/07/2022

2022/13398 ~ Complete ~54:METHOD FOR PREDICTING VEGETATION TYPES IN HIGH-ALTITUDE PERMAFROST REGIONS ~71:Guizhou Institute of prataculture, No.1 Jinnong Road, Jinxin Community, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China ~72: JI Yuyu;LIU Fengpeng;OU Erling;TANG Huajiang;WANG Qian;WANG Zhiwei~

2022/13403 ~ Complete ~54:GREEN, COST-SAVING AND EFFICIENT PREVENTION AND CONTROL METHOD FOR TETRANYCHUS CINNABARINUS OF MANIHOT ESCULENTA CRANTZ ~71:GUANGXI SUBTROPICAL CROPS RESEARCH INSTITUTE, NO. 22 RONGWU ROAD, People's Republic of China;HUNG LOC AGRICULTURAL RESEARCH CENTER, HUNG THINH COMMUNE, Viet Nam ~72: CHEN, Jiongyu;CHEN, Ruirui;FU, Haitian;HUANG, Jianqi;LI, Jun;LU, Saiqing;LUO, Yanchun;NGUYEN, Ba Tung;PAN, Huan;PAN, Zhengliang;PHAM, Thi Nhan;SHI, Lanrong;SONG, Enliang;SU, Wenpan;TRUONG, Minh Hoa;VO, Van Tuan;WEI, Lijun;WEI, Yundong;WEN, Feng;XU, Chuan;YU, Benchi;ZENG, Xinhua;ZHAO, Xinxin;ZHAO, Ying;ZHENG, Hua;ZHOU, Shiyi~

2022/13414 ~ Complete ~54:COMPOSITIONS COMPRISING AN ANTIBODY AGAINST INTERLEUKIN-6 RECEPTOR FOR THE TREATMENT OF RHEUMATOID ARTHRITIS AND METHODS OF USING SAME ~71:SANOFI BIOTECHNOLOGY, 54 rue la Boétie, France ~72: ALBRECHT, Inka;ARIES, Peer-Malte;BURKHARDT, Harald;FEIST, Eugen;TONEY, Hans-Peter;ZINE, Silke~ 33:US ~31:63/030,065 ~32:26/05/2020;33:US ~31:63/155,125 ~32:01/03/2021;33:EP ~31:21315087.3 ~32:25/05/2021

2022/13428 ~ Complete ~54:ENHANCED OLIGONUCLEOTIDES FOR MODULATING FUBP1 EXPRESSION ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72:

D'ARIENZO, Valentina;GYLLING, Helene Maria;HRUSCHKA, Natascha;KOLLER, Erich;LUANGSAY, Souphalone;MOHR, Susanne;OTTOSEN, Søren;PEDERSEN, Lykke;RAVN, Jacob;SEWING, Sabine;WALTHER, Johanna Marie~ 33:EP ~31:20182437.2 ~32:26/06/2020

2022/13432 ~ Complete ~54:SIGNALING CONSTRAINTS IN NON-SCALABLE NESTED VIDEO SYNTAX ELEMENTS ~71:BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: YE-KUI WANG~ 33:US ~31:63/036,808 ~32:09/06/2020

2022/13409 ~ Complete ~54:INTELLIGENT CAMPUS STREET LAMP CONTROL DEVICE ~71:Central China Normal University, NO.152 Luoyu Road, Wuhan, Hubei, People's Republic of China;Wuhan Redbirdedu Technology Co., Ltd., D-6F Chuangxinghui Science Park,No.8 Shanxi Road, Maodian, East Lake New Technology Development District, Wuha, Hube, People's Republic of China ~72: Chen Meiyi;Du Yuming;Han Yuan;Hu Xi;Ma Yanmei;Shi Jiahao;Sun Hanyuan;Wu Yanwen;Xiong Peng;Xiong Xujie~ 33:CN ~31:2022230118426 ~32:11/11/2022

2022/13418 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING SLC26A4-ASSOCIATED HEARING LOSS ~71:Akouos, Inc., 645 Summer Street, Suite 200, BOSTON 02210, MA, USA, United States of America;Taipei Veterans General Hospital, 201, Sec 2, Shi-Pai Road, TAIPEI 112 , TAIWAN (R.O.C.), Taiwan, Province of China ~72: CHENG, Yen-Fu;NG, Robert;SIMONS, Emmanuel John~ 33:US ~31:63/024,466 ~32:13/05/2020

2022/13423 ~ Complete ~54:FASTENING OF SCREENING MEDIA TO SCREENING EQUIPMENT ~71:Sandvik SRP AB, SVEDALA 23381, SWEDEN, Sweden ~72: FRIMAN, André;HENSSIEN, Adrien~

2022/13425 ~ Complete ~54:DENTAL IMPLANTOLOGY USING SPHERICAL COMPONENTS ~71:GALLEGO, Jean Welingthon Kraft, Rua Leão Sollum, CURITIBA, BRAZIL, Brazil ~72: DA SILVA, Fábio Augusto;GALLEGO, Jean Welingthon Kraft~ 33:BR ~31:20 2020 011065 4 ~32:02/06/2020

2022/13430 ~ Complete ~54:SULFONE DERIVATIVES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BELL, Andrew Simon;BESNARD, Jérémy;BRADLEY, Anthony Richard;GREEN, Luke;HAAP, Wolfgang;KOCER, Buelent;KUGLSTATTER, Andreas;LUCAS, Xavier;MATTEI, Patrizio;MAZUNIN, Dmitry;RIEMER, Claus;VAN HOORN, Willem Paul~ 33:EP ~31:20181363.1 ~32:22/06/2020

2022/13435 ~ Complete ~54:CD4 BINDING APTAMERS AND APPLICATIONS THEREOF ~71:RHODES UNIVERSITY, Lucas Avenue 6139, Grahamstown, South Africa ~72: JANICE LEIGH LIMSON;RONEN FOGEL;TAMIKA FELLOWS~ 33:ZA ~31:2020/03305 ~32:03/06/2020

2022/13437 ~ Complete ~54:MONO- AND BIS-NITROSYLATED ALKYL POLYOLS FOR THERAPEUTIC USE ~71:ATTGENO AB, Grönbrinksgatan 10, 11759, Stockholm, Sweden ~72: KRISTOFER BO INGEMAR NILSSON;LEIF CHRISTOFER ADDING;PER HÅKAN AGVALD~ 33:GB ~31:2007928.1 ~32:27/05/2020

2022/13391 ~ Provisional ~54:CAR WASH ~71:GCWABAZA FAMILY TRUST, 4 Jones Avenue, Pioneer Park, South Africa ~72: GCWABAZA, Jibha Richman~

2022/13393 ~ Provisional ~54:CUSTOMISABLE ELECTRONIC ELECTION SYSTEM AND PROCESS ~71:ELECTIONS CONSULTING AGENCY OF AFRICA, 645 JACQUELINE DRIVE UNIT 8, GARSFONTEIN OFFICE PARK, South Africa ~72: Noluthando Sweetness White~

2022/13399 ~ Complete ~54:A MULTI-SOURCE REMOTE SENSING DATA CLASSIFICATION METHOD BASED ON THE CLASSIFICATION SAMPLE POINTS EXTRACTED BY THE UAV ~71:Guizhou Institute of

prataculture, No.1 Jinnong Road, Jinxin Community, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China ~72: JI Yuyu;LIU Fengpeng;OU Erling;TANG Huajiang;WANG Qian;WANG Zhiwei~

2022/13401 ~ Complete ~54:METHOD FOR TREATING KERATIN FIBERS COMPRISING THE APPLICATION OF GUANIDINE CARBONATE, ALKALI AND/OR ALKALINE EARTH METAL HYDROXIDE AND (C6-C16) FATTY ACID TRIGLYCERIDE ~71:L'OREAL, 14, rue Royale, France ~72: EASON, Jason;MOLAMODI, Kwezikazi;NAICKER, Pradisha;RABUTHU, Obakeng~

2022/13415 ~ Complete ~54:METHODS OF IDENTIFYING AND CHARACTERIZING ANELLOVIRUSES AND USES THEREOF ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: ANDERSEN, Kristian, Graugaard;ARZE, Cesar, A;DELAGRAVE, Simon;ECHELARD, Yann, Paul, Guy, Régis;HAJJAR, Roger, Joseph;KAHVEJIAN, Avak;SPRINGER, Simeon, Ungerleider;WEINSTEIN, Erica, Gabrielle;YOZWIAK, Nathan, Lawrence~ 33:US ~31:63/040,371 ~32:17/06/2020;33:US ~31:63/130,074 ~32:23/12/2020;33:US ~31:63/147,029 ~32:08/02/2021

2022/13420 ~ Complete ~54:ENGINEERED HEPATITIS B VIRUS NEUTRALIZING ANTIBODIES AND USES THEREOF ~71:Humabs BioMed SA, Via dei Gaggini 3, BELLINZONA 6500, SWITZERLAND, Switzerland;Vir Biotechnology, Inc., 499 Illinois Street, Suite 500, SAN FRANCISCO 94158, CA, USA, United States of America ~72: CAMERONI, Elisabetta;CORTI, Davide;CZUDNOCHOWSKI, Nadine;LEMPP, Florian A.;ROSEN, Laura;SNELL, Gyorgy~ 33:US ~31:63/043,692 ~32:24/06/2020

2022/13438 ~ Complete ~54:APPARATUS AND METHOD FOR APPLYING AN ANNULAR BODY TO A PERIMETER FLANGE OF A CONTAINER ~71:SARONG SOCIETA' PER AZIONI, Via Colombo 18, 42046 Reggiolo, (Reggio Emilia), Italy ~72: ANDREA BARTOLI;DAVIDE CAPITINI~ 33:IT ~31:102020000015670 ~32:29/06/2020

2022/13440 ~ Complete ~54:COMPOSITIONS AND METHODS FOR CELLULAR REPROGRAMMING USING CIRCULAR RNA ~71:ELEVATEBIO TECHNOLOGIES, INC., 139 Main Street, Suite 500 Cambridge, Massachusetts, 02142, United States of America ~72: AUSTIN THIEL;CHERYLENE PLEWA;MELISSA CARPENTER;MIRANDA YANG;MITCHELL HOWARD FINER;SANTOSH NARAYAN~ 33:US ~31:63/046,976 ~32:01/07/2020

2022/13388 ~ Provisional ~54:SD CARD READER RADIO ALARM CLOCK WITH ON OFF WIRELESS CONTROL SWITCH RECEIVER TRANSMITTER FOR LED LAMP WITH BUILT-IN HANDS FREE PHONE CALL. ~71:AHMED WASEEF SAIB, 24 Park Avenue, Desainagar, South Africa ~72: AHMED WASEEF SAIB~

2022/13397 ~ Complete ~54:SIZE-FRACTIONATED THICKENING DEWATERING DEVICE FOR MINE TAILINGS ~71:Backfill Engineering Laboratory, Shandong Gold Mining Technology Co., Ltd., Jiaojia Village, Jincheng Town, Laizhou City, Yantai City, Shandong Province, 261441, People's Republic of China;Shandong Gold Mining Technology Co., Ltd., No. 2503, Jingshi Road, Licheng District, Jinan City, Shandong Province, 250002, People's Republic of China ~72: Gengjie Zhu;Guangbo Li;Jiaren Guo;Jiguang Yang;Laifa Sang;Xiaodong Jing;Yuhang Sheng;Yuliang Wang;Yunpeng Kou;Zaihai Wu;Zengjia Wang;Zepu Song;Zhaojun Qi~ 33:CN ~31:202210838425.4 ~32:18/07/2022

2022/13405 ~ Complete ~54:STABILIZED SOLUBLE PRE-FUSION RSV F PROTEINS ~71:Janssen Vaccines & Prevention B.V., Archimedesweg 4, LEIDEN 2333 CN, THE NETHERLANDS, Netherlands ~72: KRARUP, Anders;LANGEDIJK, Johannes Petrus Maria~ 33:EP ~31:16163810.1 ~32:05/04/2016

2022/13410 ~ Complete ~54:DOOR PANEL STRUCTURE FOR SHIP SAFETY CABINS ~71:Zhejiang International Maritime College, No. 268, Haitian Avenue, Lincheng, Zhoushan, Zhejiang, 316021, People's Republic of China ~72: Chao Xu;Kaiyu Zheng;Shuangdong Liu;Yongzhi Hao~

2022/13411 ~ Complete ~54:SYSTEMS AND METHODS FOR ALGAE CULTIVATION USING DIRECT AIR CAPTURE ~71:GLOBAL ALGAE TECHNOLOGY, LLC, 10704 Prospect Avenue, Suite C, United States of America ~72: HAZLEBECK, David, A.;HAZLEBECK, Paul;RICKMAN, William~ 33:US ~31:63/038,021 ~32:11/06/2020

2022/13413 ~ Complete ~54:TUMOUR BIOMARKERS FOR IMMUNOTHERAPY ~71:KYMAB LIMITED, The Bennet Building (B930), Babraham Research Campus, United Kingdom ~72: DEANTONIO, Cecilia;HSU, Chih-Hung;LU, Li-Chun;SAINSON, Richard, Charles, Alfred;SHERRY, Lorcan, Adrian~ 33:GB ~31:2007099.1 ~32:14/05/2020

2022/13416 ~ Complete ~54:ALLOSTERIC EGFR INHIBITORS AND METHODS OF USE THEREOF ~71:DANA-FARBER CANCER INSTITUTE, INC., 450 Brookline Avenue, Boston, United States of America ~72: BEYETT, Tyler;GERO, Thomas;GIPSON, Krista E.;HEPPNER, David;HUANG, Shih-Chung;SCOTT, David A.;STROUD, Steve~ 33:US ~31:63/036,622 ~32:09/06/2020;33:US ~31:63/111,429 ~32:09/11/2020

2022/13421 ~ Complete ~54:SEAL GAS OPTIMIZATION SYSTEMS AND METHODS FOR A DIRECT REDUCTION PROCESS ~71:Midrex Technologies, Inc., 3735 Glen Lake Drive, Suite 400, CHARLOTTE 28208, NC, USA, United States of America ~72: FINNOUCHE, Faycal;OSWALD, David~

2022/13422 ~ Complete ~54:AROMATIC POLYOL-STABILIZED RESOL RESIN ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: LEGRAND, Aurélie;OBERT, Edouard~ 33:FR ~31:2006774 ~32:29/06/2020

2022/13426 ~ Complete ~54:DEVICE AND METHOD FOR FEEDING TRANSVERSE WIRES IN A MESH WELDING MACHINE ~71:EVG Entwicklungs- u. Verwertungs-Gesellschaft m.b.H, Gustinus-Ambrosi-Straße 1-3, RAABA 8074, AUSTRIA, Austria ~72: DROSCHL, Georg;STINDL, Johann~ 33:AT ~31:A 00137/2020 ~32:17/06/2020

2022/13429 ~ Complete ~54:SYSTEM FOR FILTERING AND REGULATING THE ELECTROLYTIC COMPOSITION OF WATER FOR AN ESPRESSO COFFEE MACHINE AND ASSOCIATED ESPRESSO COFFEE MACHINE ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA 50038, FI, ITALY, Italy ~72: FRANCINI, Filippo;GIORDANO, Emanuele;WURM, Enrico Vittorio~ 33:IT ~31:102020000016078 ~32:02/07/2020

2022/13433 ~ Complete ~54:SUBCUTANEOUS TELOMERASE INHIBITOR COMPOSITIONS AND METHODS FOR USING SAME ~71:GERON CORPORATION, 919 E. Hillsdale Blvd. Suite 250, Foster City, California, 94404, United States of America ~72: ANIL KAPUR;PATRICK MURPHY~ 33:US ~31:63/053,455 ~32:17/07/2020;33:US ~31:63/128,708 ~32:21/12/2020

2022/13439 ~ Complete ~54:SYSTEM FOR PREPARING BEVERAGES ~71:SARONG SOCIETA' PER AZIONI, Via Colombo 18, 42046 Reggiolo, (Reggio Emilia), Italy ~72: ANDREA BARTOLI;DAVIDE CAPITINI~ 33:IT ~31:102020000015676 ~32:29/06/2020

. - APPLIED ON 2022/12/13 -

2022/13504 ~ Provisional ~54:HANDSAW KNIFE ~71:RHUDOLF SEEMISE MOATSHE, 1344 STAND SECTION, MOTHOTLUNG MADIBENG, South Africa ~72: RHUDOLF SEEMISE MOATSHE~

2022/13445 ~ Complete ~54:MICROBIAL GROWTH PROMOTER AND USE THEREOF ~71:Southwest Forestry University, 300 Bailong Temple, Panlong District, Kunming, Yunnan, 650224, People's Republic of China ~72: LEI, E;SHI, Rui;XIONG, Zhi;ZHOU, Xiang~

2022/13448 ~ Complete ~54:SHIP LIQUID LEVEL DETECTION DEVICE ~71:ZHEJIANG INTERNATIONAL MARITIME COLLEGE, No. 268, Haitian Avenue, Lincheng New District, Zhoushan City, Zhejiang Province, 316021, People's Republic of China ~72: HE, Xiaoping;LIU, Huijun;LIU, Jinbao;SUN, Bo~

2022/13453 ~ Complete ~54:SEMEN BRASSICAE EXTRACT AND A PREPARATION METHOD AND APPLICATION THEREOF ~71:SHANGHAI INSTITUTE OF TECHNOLOGY, No.100 Haiquan Road, Fengxian District, Shanghai, People's Republic of China ~72: FANG Xiang;WEI Mengyue;XU Jing;ZHANG Yunbin~

2022/13468 ~ Complete ~54:FASTENING CONTROL STRUCTURE FOR SECONDARY GROUTING OF PROXIMITY TUNNEL SHIELD SEGMENT AND GROUTING CONSTRUCTION METHOD ~71:JIANGXI FENGQIANG TECHNOLOGY DEVELOPMENT CO., LTD., Yichun Economic and Technological Development Zone, Yichun City, Jiangxi Province, 336027, People's Republic of China;YICHUN COLLEGE, No. 576, Xuefu Road, Yichun City, Jiangxi Province, 336000, People's Republic of China ~72: AN, Bin;CHEN, Jiehua;LIN, Chao;LIU, Xiang-e;RAO, Li;SHI, Chenghua;TAN, Xianjun;WU, Guojun;XIAO, Hongxu;YANG, Diansen;ZHANG, Haiping;ZHAO, Baofeng~ 33:CN ~31:202211453534.0 ~32:21/11/2022

2022/13470 ~ Complete ~54:LOW HYGROSCOPICITY ACTIVE POWDER COMPOSITIONS ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: SPADARO, Fabiana;ZUBER, Gerard~ 33:EP ~31:20194434.5 ~32:03/09/2020

2022/13475 ~ Complete ~54:TRANSPORT DEVICE FOR TRANSPORTING A DELICATE OBJECT ~71:ROLLOR I.P. B.V., Binckhorstlaan 36 Unit M2 12, Netherlands ~72: HOOGLAND, Peter;KAISER, Alina;VAN DER LAAN, Teun Kornelis~ 33:NL ~31:2025839 ~32:16/06/2020

2022/13459 ~ Complete ~54:VISIBLE LIGHT RESPONSIVE ZINC STANNATE/BISMUTHYL IODIDE COMPOSITE PHOTOCATALYTIC MATERIAL AND PREPARATION METHOD THEREFOR ~71:Shanghai Polytechnic University, 2360 Jinhai Road, Pudong New Area, Shanghai, 201209, People's Republic of China ~72: Wang Lijun;Wang Xiaoyu;Yang Hui;Zhu Luping;Zhu Xiangrong~

2022/13483 ~ Complete ~54:IMMUNE PRIMING TO ACCELERATE/ENHANCE IMMUNE RESPONSE THROUGH ADMINISTRATION OF NATURAL IMMUNE MODULATOR ~71:ZIVO BIOSCIENCE, INC., 21 East Long Lake Rd., Suite 100 Bloomfield Hills, Michigan, 48304, United States of America ~72: AMY E STEFFEK;ANDREW A DAHL;WILLIAM P PFUND~ 33:US ~31:63/044,841 ~32:26/06/2020;33:US ~31:17/358,878 ~32:25/06/2021

2022/13490 ~ Complete ~54:METHOD AND SYSTEM FOR CONTROLLING A PLURALITY OF DRILL RIGS ~71:Technological Resources Pty Limited, 360 Collins Street, Level 7, MELBOURNE 3000, VICTORIA, AUSTRALIA, Australia ~72: COOK, Steven;INNES, Chris;JONES, Benjamin;LEEMAN, Joshua~

2022/13498 ~ Complete ~54:A HEATING UNIT ~71:LIKUA ENDUSTRIYEL AMBALAJ MALZM. SAN. VE TIC. LTD. STI., Atabey Cad. No: 28 Kat:1, Turkey ~72: KOHEN, Yusuf~ 33:TR ~31:2020/14636 ~32:15/09/2020

2022/13488 ~ Complete ~54:TERMINATION ARRANGEMENT FOR AN OVERHEAD ELECTRICAL CABLE INCLUDING A TENSILE STRAIN SHEATH ~71:CTC Global Corporation, 2026 McGaw Avenue, IRVINE 92614, CA, USA, United States of America ~72: WEBB, William;WONG, Christopher~ 33:US ~31:62/704,516 ~32:14/05/2020

2022/13497 ~ Complete ~54:LIVE ATTENUATED STRAINS OF FOOT AND MOUTH DISEASE MODIFIED BY DEOPTIMIZATION AND USES THEREOF ~71:CODAGENIX INC., 3 Bioscience Park Drive, Farmingdale, United States of America;THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE, 1400 Independence Ave. S. W., Washington, United States of America ~72: COLEMAN, John

R.;DE LOS SANTOS, Teresa B.;DIAZ-SAN SEGUNDO, Fayna C.;KLOC, Anna;MEDINA, Gisselle N.;MUELLER, Steffen;RIEDER, Aida E.~ 33:US ~31:63/030,431 ~32:27/05/2020;33:US ~31:17/330,545 ~32:26/05/2021

2022/13443 ~ Provisional ~54:A CORROSION RESISTANT WRAPPING ~71:BROWNLOW, George, 340A Spionkop Road, South Africa ~72: BROWNLOW, George~

2022/13447 ~ Complete ~54:MICRO-BUBBLE FLOTATION METHOD FOR FINE OXIDIZED MINERALS ~71:Wuhan University of Technology, No. 122 Luoshi Road, Hongshan District, Wuhan City, Hubei Province, People's Republic of China ~72: QIU Hang;REN Liuyi~

2022/13451 ~ Complete ~54:BACK-SUPPORTING BENT-LEG TYPE MULTIFUNCTIONAL HOME FITNESS EXERCISE EQUIPMENT ~71:Zhenxin Wang, No. 101, Unit 5, Building 3, Zone 4, Dianliu New Village, Lixia District, Jinan, Shandong, People's Republic of China ~72: Zhenxin Wang~

2022/13455 ~ Complete ~54:METHOD FOR BLOCKING DENDROBIUM OFFICINALE KIMURA ET MIGO TISSUE CULTURE SEEDLINGS FROM BEING POLLUTED BY BACTERIA ~71:FLOWER RESEARCH INSTITUTE, YAAS, NO. 2238, BEIJING ROAD, People's Republic of China;YUXI CHENGHUA BIOLOGY SCIENCE AND TECHNOLOGY CO., LTD., GROUP 6, MAFANG VILLAGE, JIHUA RESIDENT COMMITTEE, People's Republic of China ~72: CAO, Hua;JI, Yulu;LI, Han;LI, Shenchong;LU, Lin;ZHANG, Hao~

2022/13500 ~ Complete ~54:USE OF COMPOUND IN PREVENTING AND/OR TREATING PATHOGEN INFECTION IN ANIMALS ~71:FELICAMED BIOTECHNOLOGY CO., LTD., Room 105-45342, No. 6 Baohua Road, Hengqin New District (Centralized Office Area) Zhuhai, People's Republic of China ~72: KANG, Di;LI, Danni;LIN, Xingyu;LU, Tingting~ 33:CN ~31:202010547186.8 ~32:16/06/2020

2022/13502 ~ Complete ~54:A SYSTEM AND METHOD FOR PROTECTING CABINETS FROM EMI ~71:PRIMOZONE PRODUCTION AB, Terminalvägen 2 246 42, Sweden ~72: STOLTZ, Fredrik;VAN DER SCHAAF, Joakim~ 33:EP ~31:20180560.3 ~32:17/06/2020

2022/13462 ~ Complete ~54:A DETONATOR HOLDER ~71:PLASTIC INNOVATIONS (PTY) LTD, 2 Aintree Street, Savoy Estate, South Africa ~72: STEPHEN CHARLES LIPSCHITZ~

2022/13463 ~ Complete ~54:A FATIGUE LIFE ESTIMATION METHOD FOR NUCLEAR POWER PLANT PIPELINES ~71:China Guangdong Nuclear Power Group Co., Ltd., 33rd Floor, South Building, CGN Building, No.2002 Shennan Avenue, Futian District, Shenzhen City, Guangdong Province, 518026, People's Republic of China;China Nuclear Power Engineering Co., Ltd., Office building of Daya Bay Nuclear Power Base Engineering Company, Pengfei Road, Dapeng New Area, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Ajun Meng;Guihe Zhang;Hongtao Liu;Huaqing Peng;Jiaoya Wang;Jing Zhang;Jingchuan Xiong;Jun Ling;Lang Liu;Qing Mao;Qing Song;Ying Meng;Zhenshun Liu~

2022/13467 ~ Complete ~54:CABLE FAULT ACCURATE POINT SWITCH DEVICE ~71:Shaanxi Qilida Electronic Technology Co., Ltd, Floor 30, Unit 1, Building 1, Kyoto International, Changle East Road Xi'an, Shaanxi Province, People's Republic of China ~72: Mi Aizhen;Tao Yuhui~

2022/13469 ~ Complete ~54:IMMUNO ONCOLOGY COMBINATION THERAPY WITH IL-2 CONJUGATES AND ANTI-EGFR ANTIBODIES ~71:SYNTHORX, INC., 11099 North Torrey Pines Road, Suite 190, United States of America ~72: ABBADESSA, Giovanni;CAFFARO, Carolina, E.;LEVEQUE, Joseph;MILLA, Marcos;PTACIN, Jerod;WAGENAAR, Timothy R.~ 33:US ~31:63/044,199 ~32:25/06/2020;33:US ~31:63/196,448 ~32:03/06/2021

2022/13479 ~ Complete ~54:POSITIVE LATENCY EFFECTS ON COCCIDIOSIS PREVENTION AND TREATMENT VIA ANIMAL FEED ~71:ZIVO BIOSCIENCE, INC., 21 East Long Lake Rd., Suite 100 Bloomfield Hills, Michigan, 48304, United States of America ~72: AMY E STEFFEK;ANDREW A DAHL;WILLIAM P PFUND~ 33:US ~31:63/044,770 ~32:26/06/2020;33:US ~31:17/358,953 ~32:25/06/2021

2022/13481 ~ Complete ~54:THERAPEUTIC RNA FOR HPV-POSITIVE CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIGE GMBH, Freiligrathstrasse 12, 55131, Mainz, Germany ~72: CHRISTIAN GRUNWITZ;FULVIA VASCOTTO;MUSTAFA DIKEN;NADJA SALOMON;SEBASTIAN KREITER;UGUR SAHIN~ 33:EP ~31:PCT/EP2020/069146 ~32:07/07/2020

2022/13487 ~ Complete ~54:A MEDICAL IMAGING APPARATUS HAVING A RADIATION SOURCE AND AN IMAGING DEVICE WITH ROTATIONAL ARMS ~71:Pristem SA, Rue du Grand-Pré 4, LAUSANNE 1007, SWITZERLAND, Switzerland ~72: BLANCHARD, Hubert;GABELLA, Thomas;GANSHOF VAN DER MEERSCH, Nicolas~ 33:EP ~31:20182896.9 ~32:29/06/2020

2022/13496 ~ Complete ~54:METHODS AND COMPOSITIONS FOR EDITING THE B2M LOCUS IN B CELLS ~71:Seattle Children's Hospital (dba Seattle Children's Research Institute), 1900 Ninth Avenue, SEATTLE 98101, WA, USA, United States of America ~72: COOK, Peter J.;JAMES, Richard G.;RAWLINGS, David J.;STOFFERS, Claire Marie~ 33:US ~31:63/047,978 ~32:03/07/2020;33:US ~31:63/114,131 ~32:16/11/2020

2022/13446 ~ Complete ~54:CAGED AND SCATTERED INTEGRATED ECOLOGICAL CHICKEN HOUSE CAPABLE OF REDUCING CARBON EMISSION AND BREEDING METHOD THEREOF ~71:Shandong Dayi Biological Technology Group Co., Ltd., No. 8878, Weichang Road, Nanlebu Village, Lebushan Ecological Economic Development Zone, Weicheng District, Weifang City, Shandong Province, 261057, People's Republic of China;Weifang Academy of Agricultural Sciences, No. 1921, Shengli East Street, Weifang City, Shandong Province, 261071, People's Republic of China;Weifang Agricultural Technology Extension Center, East Area of 7th Floor, Yangguang Building, No. 6396, Dongfeng East Street, High-tech Zone, Weifang City, Shandong Province, 261000, People's Republic of China ~72: JIANG, Guanheng;LI, Yutao;LIU, Kang;LIU, Yongxian;SUN, Xiwen;WANG, Aiping;WANG, Xinhua;WANG, Yujie;WANG, Zhijia;WANG, Ziqiang;WU, Yuanyuan;YU, Meng;ZHOU, Feng;ZHU, Zhenyan~

2022/13452 ~ Complete ~54:MOTOR DEVICE SUPERVISION METHOD AND SYSTEM ~71:Beijing Zhuoer Loyalty Technology Co., Ltd., No. 12, Xiangyang Road, Yanshan, Fangshan District, Beijing, 102599, People's Republic of China ~72: JIAO, Kun;XIN, Quanshuang~

2022/13454 ~ Complete ~54:A CF-BASED NMF ELECTRICITY SALES PACKAGE RECOMMENDATION METHOD ~71:Zhejiang Sci-Tech University, No. 928, No. 2 Street, Xiasha Higher Education Park, Hangzhou, Zhejiang, People's Republic of China ~72: Jianyu Ruan;Ruinan Zheng;Yuanqian Ma~

2022/13456 ~ Complete ~54:A RIFLE BRACKET ~71:BEKKER, Shaun Henry, 38 Blairgowrie Drive, Blairgowrie, South Africa ~72: BEKKER, Shaun Henry~

2022/13457 ~ Complete ~54:BRAKE ASSEMBLY WITH THERMAL FUSE ~71:RATIER-FIGEAC SAS, B.P.#2, Avenue Ratier, 46101 Figeac, Cedex, France ~72: ERIC DELBOS~ 33:EP ~31:22290001.1 ~32:27/01/2022

2022/13465 ~ Complete ~54:WATER LEAKAGE POSITIONING DEVICE BASED ON FREQUENCY SWEEPING RESONANCE ~71:Shaanxi Qilida Electronic Technology Co., Ltd, Floor 30, Unit 1, Building 1, Kyoto International, Changle East Road Xi'an, Shaanxi Province, People's Republic of China ~72: Mi Aizhen;Tao Yuhui~

2022/13471 ~ Complete ~54:METHODS FOR THE REMOVAL OF FREE FACTOR VIII FROM PREPARATIONS OF LENTIVIRAL VECTORS MODIFIED TO EXPRESS SAID PROTEIN ~71:BIOVERATIV THERAPEUTICS INC., 225 Second Avenue, Waltham, Massachusetts, United States of America;FONDAZIONE TELETHON, Varese 16B, Italy;OSPEDALE SAN RAFFAELE S.R.L., Via Olgettina 60, Italy ~72: ISMAIL, Ayman;LIU, Tongyao;MAYANI, Mukesh~ 33:US ~31:63/043,697 ~32:24/06/2020;33:US ~31:63/062,120 ~32:06/08/2020

2022/13480 ~ Complete ~54:METHOD FOR ACTIVATING EXPRESSION OF GAMMA-GLOBIN GENE, AND COMPOSITION ~71:GUANGZHOU REFORGENE MEDICINE CO., LTD., Room 801, Building 4, No.188, Kaiyuan Road, Huangpu District Guangzhou, Guangdong, 510700, People's Republic of China ~72: BO GU;HUI XU;JUNBIN LIANG~ 33:CN ~31:202010616648.7 ~32:01/07/2020

2022/13484 ~ Complete ~54:METHODS OF TREATING IGA NEPHROPATHY WITH AN APRIL BINDING ANTIBODY ~71:ADURO BIOTECH HOLDINGS, EUROPE B.V., MOLENSTRAAT 40F, 5242 HA, ROSMALEN, THE NETHERLANDS, Netherlands;CHINOOK THERAPEUTICS, INC., 1600 FAIRVIEW AVE. E., SUITE 100, SEATTLE, WASHINGTON 98102, USA, United States of America ~72: DE COCK, Eduard;DULOS, John;HONARMAND, Somayeh;VAN DE LAAR, Teun~ 33:US ~31:62/704,831 ~32:29/05/2020

2022/13491 ~ Complete ~54:A STABILIZATION SYSTEM FOR AN AGROCHEMICAL COMPOSITION ~71:UPL Limited, UPL House, 610 B/2, off Western Express Highway, Bandra Village, Bandra- East, MUMBAI 400051, MAHARASHTRA, INDIA, India ~72: BORANE, Mahesh Dharma;CHAVAN, Popat Ganesh;MORE, Pravin Namadeo~ 33:IN ~31:202021020816 ~32:18/05/2020

2022/13494 ~ Complete ~54:HIGH SPEED NUT CRACKING APPARATUS ~71:Savage Equipment Incorporated, 1020 North Industrial Road, MADILL 73446, OK, USA, United States of America ~72: SAVAGE, Basil W.;SAVAGE, Steven W.;WAGONER, William Ferrell~ 33:US ~31:63/040,349 ~32:17/06/2020

2022/13499 ~ Complete ~54:DOOR SYSTEM AND MODULE THEREFORE ~71:Y.STERN ENGINEERING (1989) LTD., 15 Gan-Rave Blvd., P.O.BOX 13107, Israel ~72: STERN, Yosef;STERN, Yuval~ 33:IL ~31:275425 ~32:16/06/2020

2022/13489 ~ Complete ~54:AMINOPYRIMIDINYL DERIVATIVES ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: GERSTENBERGER, Brian Stephen;JIAO, Wenhua;LALL, Manjinder Singh;LIRA, Ricardo;SCHNUTE, Mark Edward~ 33:US ~31:63/047,606 ~32:02/07/2020

2022/13473 ~ Complete ~54:SYSTEM AND METHOD FOR FABRICATION OF A THREE-DIMENSIONAL EDIBLE PRODUCT ~71:REDEFINE MEAT LTD., 10 Oppenheimer Street, Israel ~72: COMFORTI, Eyal;DIKOVSKY, Daniel;MANDELIK, Daniel;SCHACHTER, Sagee;SHAPIRA, Gur~ 33:IL ~31:278059 ~32:14/10/2020

2022/13450 ~ Complete ~54:MORTISE AND TENON CONFIGURATION OF SECTIONAL BLADES OF LARGE WIND TURBINES AND CONNECTION THEREOF ~71:CEN Yuxin, 2-502, Lane 115, Gaodongxin Road, Pudong New Area, Shanghai, People's Republic of China ~72: CEN Yuxin~

2022/13477 ~ Complete ~54:DUAL-AGONIST COMPOUND FOR BOTH GLP-1 AND GIP RECEPTORS AND APPLICATION THEREOF ~71:BEIJING TUO JIE BIOPHARMACEUTICAL CO. LTD, Level 7, No.4 Building, No.9 Yi Ke Road, ZGC Life Science Park, Changping District Beijing, 102206, People's Republic of China ~72: FANGZHOU WU;HAIQING HUA;LEI WANG;RAN WU;RENZHI LIU;XUCHAO HUANG~ 33:CN ~31:202010472577.8 ~32:29/05/2020;33:CN ~31:202110335100.X ~32:29/03/2021

2022/13482 ~ Complete ~54:A MINERAL LIBERATION MACHINE ~71:MAELGWYN MINERAL SERVICES LIMITED, Ty Maelgwyn 1A Gower Street Cardiff CF24 4PA, United Kingdom ~72: RAINER MARIA IMHOF~ 33:GB ~31:2008822.5 ~32:10/06/2020

2022/13486 ~ Complete ~54:NATURAL ANTIBACTERIAL AND ANTIVIRAL BIOLOGICAL COMPOSITIONS, COMPOUNDS, METHOD FOR OBTAINING SAME, AND USE THEREOF ~71:BEEOTEC Holding S/A, Av. Silva Jardim, 2818, Apt. 91., CURITIBA 80.240-020, BRAZIL, Brazil ~72: COSTA, Francisco Eduardo De Carvalho;RIBEIRO, Maria Cristina Marcucci~ 33:BR ~31:10 2020 009939 6 ~32:19/05/2020

2022/13493 ~ Complete ~54:ALK2 INHIBITORS FOR THE TREATMENT OF ANEMIA ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: ASATIANI, Ekaterine;CHEN, Yaoyu;SÉGUY, Francis~ 33:US ~31:63/039,742 ~32:16/06/2020;33:US ~31:63/056,761 ~32:27/07/2020;33:US ~31:63/152,516 ~32:23/02/2021

2022/13501 ~ Complete ~54:MONITORING LINER WEAR IN INDUSTRIAL MILLS ~71:NATIONAL RESEARCH COUNCIL OF CANADA, 1200 Montreal Rd., Canada ~72: HU, Cheng;KRÜGER, Silvio Elton;SUN, Zhigang;WU, Kuo-Ting~ 33:US ~31:63/047,958 ~32:03/07/2020

2022/13441 ~ Provisional ~54:COMPOUNDS, COMPOSITIONS AND METHODS FOR TREATING, REVERSING OR PREVENTING CANCER ~71:VIRO-GEN PTY LTD, 313 CLIFF AVENUE, WATERKLOOF RIDGE x2, South Africa ~72: SMIT, MICHELLE OLGA PATRICIA GIESTEIRA DA SILVA~

2022/13442 ~ Provisional ~54:AN UMBRELLA ANCHORING SYSTEM ~71:DU PLOOY, Nicolaas Jacobus, 117 De Beers Road, Strand, Cape Town 7140, SOUTH AFRICA, South Africa ~72: DU PLOOY, Nicolaas Jacobus~

2022/13444 ~ Provisional ~54:COATING MATERIALS ~71:SELOKONG SA DIMELANA (PTY) LTD, 1 Jan Smuts Avenue Richard Ward Building, South Africa ~72: MABAPA, Thabang Jacob;MBATHA, Siphesihle;MUKAYA, Hembe Elie;NEKHAVHAMBE, Edza;NKAZI, Diakanua Bavon~

2022/13449 ~ Complete ~54:RAPID REGENERATION METHOD OF WASTE TERNARY LITHIUM ION BATTERY CATHODE MATERIAL ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, 727 Jingming South Road, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: DONG Peng;FEI Zitong;MENG Qi;ZHANG Yannan;ZHANG Yingjie;ZHANG Yiyong~

2022/13458 ~ Complete ~54:IMPROVED REGION GROWING METHOD FOR OPTIC CUP IMAGE ~71:Shenyang University of Technology, Economic and Technological Development Zone, Shenyang City, Liaoning Province, 110870, People's Republic of China ~72: Zhenyu LIU~

2022/13460 ~ Complete ~54:POLYHERBAL FORMULATION FOR HEALING WOUND ~71:Dr. Arun Kumar Mishra, Professor and Head Pharmacy, IFTM University, Lodhipur-Rajput Delhi Road, NH-24, Moradabad, Uttar Pradesh, India;Dr. Gowrish Bhat, Nitte (Deemed to be University) AB Shetty Memorial Institute of Dental Sciences, Department of Conservative Dentistry and Endodontics, Deralakatte, Mangaluru, Karnataka, 575018, India;Dr. Shazia Afzal Usmani, Professor, Faculty of Pharmacy, Integral University, Dasauli, Kursi Road, Lucknow, Uttar Pradesh, 226026, India;Dr. Tapan Behl, Associate Professor, Department of Pharmacology School of Health Sciences & Technology, University of Petroleum and Energy Studies, Bidholi-24800, Dehradun, Uttarakhand, India;Dr. Vandana Sadananda, Nitte (Deemed to be University) AB Shetty Memorial Institute of Dental Sciences, Department of Conservative Dentistry and Endodontics, Deralakatte, Mangaluru, Karnataka, 575018, India;Hemanta Pathak, Assistant Professor, Department of Pharmaceutical Sciences, Dibrugarh University, Department of Pharmaceutical Sciences, Dibrugarh, Assam, India;Meera Kumari, Assistant Professor, Goel Institute of Pharmacy and Sciences, Lucknow, Uttar Pradesh, India;Pavan Kumar, HOD and Associate Professor, JIVIKA College of Pharmacy, Madaarpur, Bharawan, Sandila, Hardoi, Uttar Pradesh,

241202, India;Priyanka Bajpai, Assistant Professor, Goel Institute of Pharmacy and Sciences, Lucknow, Uttar Pradesh, India;Vikrant Vijaykumar Chilate, Principal, Taywade Institute of Diploma in Pharmacy, Koradi, Maharashtra, 441111, India ~72: Dr. Arun Kumar Mishra;Dr. Gowrish Bhat;Dr. Shazia Afzal Usmani;Dr. Tapan Behl;Dr. Vandana Sadananda;Hemanta Pathak;Meera Kumari;Pavan Kumar;Priyanka Bajpai;Vikrant Vijaykumar Chilate~

2022/13461 ~ Complete ~54:LOW-TEMPERATURE SEALED COAL CORE DRILLING DEVICE OF UNDERGROUND COAL MINE AND METHOD THEREOF ~71:Guizhou Mine Safety Scientific Research Institute Co., Ltd., 48 Dazhi Road, Dashuigou, Huaxi District, Guiyang City 550025, Guizhou Province, CHINA (P.R.C.), People's Republic of China ~72: DUAN, Zhengpeng;LI, Hongsheng;LI, Xing;LIU, Baisong;ZHAO, Xun~ 33:CN ~31:2022101224593.0 ~32:10/02/2022

2022/13464 ~ Complete ~54:FERMENTATION METHOD OF STRAW ~71:Institute of Pratacultural, Tibet Academy of Agricultural and Animal Husbandry Sciences, No.147, Nongke Road, Chengguan District, Lhasa, Tibet, 850000, People's Republic of China ~72: Bao YuHong;Dundup Gyantsen;Liao YangCi;Phupu Tsering;Shi RuiZhi;Tsedon~

2022/13466 ~ Complete ~54:A METHOD FOR NITRIC OXIDE MEDIATED ALLEVIATION OF ABIOTIC CHALLENGES IN PLANTS ~71:Dr. Afsana Praveen, Department of Biotechnology & Microbiology School of Sciences Noida International University Yamuna Expressway, Sector 17A, Uttar Pradesh, 203201, India;Dr. Shilpy Singh, Department of Biotechnology & Microbiology School of Sciences Noida International University Yamuna Expressway, Sector 17A, Uttar Pradesh, 203201, India ~72: Dr. Afsana Praveen;Dr. Shilpy Singh~

2022/13472 ~ Complete ~54:MEAT ANALOGUE AND METHOD OF PRODUCING THE SAME ~71:REDEFINE MEAT LTD., 10 Oppenheimer Street, Israel ~72: DIKOVSKY, Daniel;HAUSNER, Jonathan~ 33:IL ~31:278052 ~32:14/10/2020

2022/13474 ~ Complete ~54:SENDING AUDIO CONTENT TO DIGITAL WORKS ~71:AUDIOMOB LTD, 71 - 75 Shelton Street, Covent Garden, United Kingdom ~72: FACEY, Christian;OBENG-BOAKYE, Wilfrid~ 33:US ~31:63/042,296 ~32:22/06/2020

2022/13476 ~ Complete ~54:MULTI-PURPOSE AUTOMATED BLOOD CELL COUNTING DEVICE ~71:SHIMBU SO, 4-6-7-4002, Kounan, Minato-Ku, Tokyo, 1080075, Japan ~72: SHIMBU SO~ 33:JP ~31:2020-095973 ~32:02/06/2020

2022/13478 ~ Complete ~54:OSMOTIC DOSAGE FORMS COMPRISING DEUTETRABENAZINE AND METHODS OF USE THEREOF ~71:AUSPEX PHARMACEUTICALS, INC., 400 Interpace Parkway, Parsippany, New Jersey, 07054, United States of America ~72: DIVYANG PATEL;MAYANK JOSHI;PARAG SHAH;SANDEEP PANDITA;SOUMEN PATTANAYEK~ 33:US ~31:63/037,369 ~32:10/06/2020;33:US ~31:63/037,953 ~32:11/06/2020;33:US ~31:63/044,451 ~32:26/06/2020

2022/13485 ~ Complete ~54:POWER HEADROOM REPORT FOR A SERVING CELL ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HENTTONEN, Tero;KOSKELA, Jarkko;TURTINEN, Samuli;WU, Chunli~

2022/13492 ~ Complete ~54:TEST STRIP FIXATION DEVICE FOR OPTICAL MEASUREMENTS OF AN ANALYTE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BERG, Max;HAILER, Fredrik;LIMBURG, Bernd;MELCHINGER, Christian~ 33:EP ~31:20190454.7 ~32:11/08/2020

2022/13495 ~ Complete ~54:ACTRII PROTEINS FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION (PAH) ~71:Acceleron Pharma Inc., 128 Sidney Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANDRE, Patrick;DE OLIVEIRA PENA, Janethe;JOSHI, Sachindra;KUMAR, Ravindra;LI, Gang;LINDE, Peter~ 33:US ~31:63/042,722 ~32:23/06/2020;33:US ~31:63/084,409 ~32:28/09/2020;33:US ~31:63/112,513 ~32:11/11/2020;33:US ~31:63/188,141 ~32:13/05/2021

2022/13503 ~ Complete ~54:GENETICALLY MODIFIED NON-HUMAN ANIMALS WITH COMMON LIGHT CHAIN IMMUNOGLOBULIN LOCUS ~71:BIOCYTOGEN PHARMACEUTICALS (BEIJING) CO., LTD., No.12 Baoshen South Street Daxing Bio-Medicine Industry Park, People's Republic of China ~72: LU, Hui;SHEN, Yuelei;YANG, Yi;YAO, Jiawei;ZHANG, Yabo;ZHAO, Huizhen~ 33:CN ~31:PCT/CN2020/094000 ~32:02/06/2020;33:CN ~31:PCT/CN2021/085839 ~32:07/04/2021

. - APPLIED ON 2022/12/14 -

2022/13527 ~ Complete ~54:METHODS OF PREPARING GROWING POLYNUCLEOTIDES USING NUCLEOTIDES WITH 3' AOM BLOCKING GROUP ~71:ILLUMINA CAMBRIDGE LIMITED, Chesterford Research Place, Nr Saffron Walden, CB10 1XL, United Kingdom ~72: ADAM CULLEY;ANGELICA MARIANI;ANTOINE FRANCAIS;ELENA CRESSINA;XIAOHAI LIU;XIAOLIN WU~ 33:US ~31:62/784,970 ~32:26/12/2018;33:US ~31:62/784,994 ~32:26/12/2018

2022/13533 ~ Complete ~54:METHOD FOR SEMIAUTOMATICALLY BUILDING DATABASE, COMPUTER-READABLE MEDIUM ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, Beijing, 100000, People's Republic of China ~72: ZHAN, Haolin~ 33:CN ~31:202211038594.6 ~32:26/08/2022

2022/13553 ~ Complete ~54:2-(INDAZOL-5-YL)-6-(PIPERIDIN-4-YL)-1,7-NAPHTHYRIDINE DERIVATIVES AND RELATED COMPOUNDS AS MODULATORS FOR SPLICING NUCLEIC ACIDS AND FOR THE TREATMENT OF PROLIFERATIVE DISEASES ~71:REMIX THERAPEUTICS INC., One Kendall Square Building 600, 4th Floor Cambridge, Massachusetts, 02139, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;MICHAEL W SEILER;PETER SMITH;STEPAN VYSKOCIL;SUDEEP PRAJAPATI~ 33:US ~31:63/047,898 ~32:02/07/2020;33:US ~31:63/072,921 ~32:31/08/2020;33:US ~31:63/126,495 ~32:16/12/2020

2022/13564 ~ Complete ~54:GENERATING SECRET SHARES ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: PETTIT, Michaella~ 33:GB ~31:2009062.7 ~32:15/06/2020

2022/13566 ~ Complete ~54:2-OXOIMIDAZOLIDINE-4-CARBOXAMIDES AS NAV1.8 INHIBITORS ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: ARASAPPAN, Ashok;BELL, Ian M.;BUNGARD, Christopher James;BURGEY, Christopher S.;COX, Jason M.;KELLY III, Michael J.;LAYTON, Mark E.;LIU, Hong;LIU, Jian;PERKINS, James J.;SHAH, Akshay A.;VANHEYST, Michael David;WU, Zhe~ 33:US ~31:63/040,461 ~32:17/06/2020

2022/13569 ~ Complete ~54:METHOD OF PERFORMING AT LEAST ONE ANALYTICAL MEASUREMENT BY USING A MOBILE DEVICE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: ALPEROWITZ, Lukas;BERG, Max;HAILER, Fredrik;LIMBURG, Bernd~ 33:EP ~31:20184181.4 ~32:06/07/2020

2022/13557 ~ Complete ~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 ~71:OLMIX, Lieu-dit Le Lintan, France ~72: AUDIER, Thierry;DARIDON, Bruno;LEVERGE, Clément;NYVALL-COLLEN, Pi~ 33:FR ~31:2006760 ~32:26/06/2020

2022/13565 ~ Complete ~54:COMBINATION OF A METHIONINE AMINOPEPTIDASE 2 INHIBITOR AND VEGFR/VEGF INHIBITOR ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: BOGATYROVA, Olga;FRIESE-HAMIM, Manja;GIMMI, Claude;ROHDICH, Felix;SCHULTES, Christoph~ 33:EP ~31:20184962.7 ~32:09/07/2020

2022/13568 ~ Complete ~54:GIS-TYPE ZEOLITE ~71:Asahi Kasei Kabushiki Kaisha, 1-1-2 Yurakucho, Chiyoda-ku, TOKYO 1000006, JAPAN, Japan ~72: AKAOGI, Takayuki;OHKUBO, Atsushi;TANAKA, Saya~ 33:JP ~31:2020-130309 ~32:31/07/2020

2022/13515 ~ Complete ~54:WET CENTRIFUGAL DUST REMOVAL DEVICE WITH PULSE ADJUSTABLE BACKWASHING ~71:Taiyuan University of Technology, No.79 Yingze West Street, Wanbailin District, Taiyuan, Shanxi Province, People's Republic of China ~72: Du Jingyong;Gao Guijun;Kou Ziming;Wang Weibo~

2022/13517 ~ Complete ~54:APPARATUS FOR PREVENTING AND CONTROLLING HIGH TEMPERATURE OF PAVEMENT BASED ON INTELLIGENT TRAFFIC ~71:Zhejiang University City College, No.51, Huzhou Street, Gongshu District, Hangzhou City, Zhejiang Province, 310015, People's Republic of China ~72: WANG, Fang~ 33:CN ~31:202211328652.9 ~32:27/10/2022

2022/13522 ~ Complete ~54:A PLANT SPECIES CONFIGURATION METHOD BASED ON MINE ECOLOGICAL RESTORATION ~71:Academy of Water Resource Conservation forests of Qilian Mountains in Gansu Province, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Erwen XU;Hao YUAN;Longqing WU;Rongxin WANG;Weijun ZHAO;Wenmao JING;Xiurong WU~

2022/13525 ~ Complete ~54:TOPICAL FORMULATION OF BERBERIS ARISTA IN INFECTIOUS WOUND HEALING ~71:BABAR, Anandrao, Shivaji, Assistant Professor, Department of Pharmacognosy, Arvind Gavali College of Pharmacy Jaitapur, India;DALVI , Apeksha, Mukta, Assistant Professor, Samarth Institute of Pharmacy, Belhe, India;GALGATTE, Upendra, Chandrakant, Shubhashree Residentials, Phase 1, D-404, Jai Ganesh Vision, India;GUNJAL, Sachinkumar, Dnyaneshwar, Amrutvahini Sheti and Shikshan Vikas Sanstha, Amrutvahini college of pharmacy, India;HABBU, Prasanna, Vasantrao, Professor and Head, Department of Pharmacognosy, S.E.T,s College of Pharmacy, India;JADHAV , Rahul, Laxman, House no-A8, Street name-Ajaynktara road, Shahunagar, Godoli, District-Satara, India;TARATE, Vivek, Subhash, House No. 13, Raghukul Bungalow, Shivtej Colony, Shahunagar, India;YADAV, Vishal, Dadasaheb, Associate Professor and Head, Department of Pharmaceutics, Arvind Gavali college of Pharmacy, Gat No.261, At - Jaitapur, India ~72: BABAR, Anandrao, Shivaji;DALVI , Apeksha, Mukta;GALGATTE, Upendra, Chandrakant;GUNJAL, Sachinkumar, Dnyaneshwar;HABBU, Prasanna, Vasantrao;JADHAV , Rahul, Laxman;TARATE, Vivek, Subhash;YADAV, Vishal, Dadasaheb~

2022/13530 ~ Complete ~54:AN INTELLIGENT NETWORKED VEHICLE TESTING DEVICE ~71:Jiangsu College Of Safety Technology, No. 381 Tongshan Road, Yunlong District, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: Bao Xiaozhan;Liang Chao~ 33:CN ~31:202210518743.2 ~32:13/05/2022

2022/13534 ~ Complete ~54:SYSTEM AND METHOD FOR AUTHENTICATING A DEVICE ON A NETWORK ~71:IOT.nxt BV, Zuid Hollandlaan 7, Netherlands ~72: JACOBS, Gysbert Johannes~ 33:ZA ~31:2020/03301 ~32:03/06/2020

2022/13547 ~ Complete ~54:ELECTRONIC PADLOCK ~71:ABLOY OY, Wahlforssinkatu 20, Finland ~72: RAATIKAINEN, Juha~ 33:FI ~31:20205701 ~32:01/07/2020

2022/13554 ~ Complete ~54:HEAD SUPPORT ASSEMBLY AND HEAD SUPPORT UNIT ~71:HEADOVATIONS LTD, 3 Adirim, Apt. 44, Israel ~72: COHEN GAZIT, Ben;LIBRUS, Michael;SHAHAM, Kalman~ 33:IL ~31:275441 ~32:17/06/2020

2022/13560 ~ Complete ~54:TRIGGERING METHOD AND TRIGGERING APPARATUS OF INTERVENTION PROMPT ON THE BASIS OF USER SMOKING BEHAVIOR RECORDS ~71:McNeil AB, Norrbroplatsen 2, HELSINGBORG S-251 09, SWEDEN, Sweden ~72: WU, Congyang;XING, Licong;XU, Zhiyu;ZHANG, Ge;ZHANG, Jing~ 33:CN ~31:202010417547.7 ~32:15/05/2020

2022/13563 ~ Complete ~54:ANTIBODIES AND METHODS FOR TREATING CLAUDIN-ASSOCIATED DISEASES ~71:Antengene Biologics Limited, Suite 1206-1209, Block B, Zhongshan SOHO Plaza, 1065 West Zhongshan Road, CHANGNING DISTRICT 200051, SHANGHAI, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Peng;HOU, Bing;MEI, Jay;SHAN, Bo;YUWEN, Hui~ 33:IB ~31:2020/097635 ~32:23/06/2020;33:IB ~31:2021/098416 ~32:04/06/2021

2022/13558 ~ Complete ~54:PROCESS FOR THE RECOVERY OF AT LEAST ONE FRACTIONAL SUBSTANCE FROM VAPOURS DURING ALCOHOL REDUCTION OF A BEVERAGE, AND FRACTIONAL SUBSTANCE RECOVERY DEVICE ~71:API SCHMIDT-BRETTEN GMBH & CO. KG, Langenmorgen 4, Germany ~72: Christoph GÜLTLINGER;Karlheinz SAUTNER~ 33:EP ~31:20184715.9 ~32:08/07/2020

2022/13509 ~ Complete ~54:ROYAL JELLY POLYPEPTIDES AND SMALL MOLECULAR PEPTIDES WITH ANTIOXIDANT ACTIVITY AND THEIR APPLICATIONS ~71:Ocean University of China, No. 238, Songling Road, Laoshan District, Qingdao, People's Republic of China ~72: Cui Baojin;Ge Zhen;Liu Juncai;Mao Xiangzhao;Sun Jian'an;Zhang Ping~ 33:CN ~31:202211204109.8 ~32:29/09/2022

2022/13512 ~ Complete ~54:GNSS SYSTEM JOINT POSITIONING DEVICE AND JOINT POSITIONING METHOD BASED ON DATA FUSION ~71:HEFEI UNIVERSITY, No. 158, Jinxiu Avenue, Linhu Street, Hefei City, Anhui Province, People's Republic of China;HUAINAN NORMAL UNIVERSITY, 238 Dongshan West Road, Longquan Street, Huainan City, Anhui Province, People's Republic of China;SUN CREATE ELECTRONICS CO.LTD., No. 88, Pihe Road, Wulidun Street, Hefei City, Anhui Province, People's Republic of China ~72: CAI Jianan;CHENG Zhi;HU Yanli;HUANG Lunwen;LIU Tuanjie;MIAO Lei;WANG Yang;ZHANG Xin;ZHU Jiabing~

2022/13513 ~ Complete ~54:INTEGRATED WATER COLLECTING AND SPRINKLING DEVICE FOR LANDSCAPING ~71:Anhui Science and Technology University, 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: LIAN Hongyan;ZHANG Yuanbing~ 33:CN ~31:202211044424.9 ~32:30/08/2022

2022/13521 ~ Complete ~54:A HYDROLOGICAL FLOW FLUCTUATION SITUATION IDENTIFICATION SYSTEM ~71:Academy of Water Resource Conservation forests of Qilian Mountains in Gansu Province, No.3, East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Erwen XU;Jingzhong ZHAO;Rongxin WANG;Weijun ZHAO;Wenmao JING;Xiurong WU~

2022/13532 ~ Complete ~54:SYSTEM FOR PLANNING AND CONSTRUCTING URBAN LANDSCAPE ~71:Institute of Geographic Sciences and Natural Resources Research, CAS, A11 Datun Road, Chaoyang District, Beijing, 100020, People's Republic of China;Zhongke Ji'an Ecological Environment Research Institute, Jinggangshan Agricultural Science and Technology Park Management Committee, No. 61, Xingqiao Street, Jizhou District, Ji'an City, 343000, People's Republic of China ~72: Gao Yu;Tian Li~

2022/13542 ~ Complete ~54:MORINGA PEREGRINA SEED EXTRACT RICH IN 2,5-DIFORMYLFURAN, PROCESS FOR OBTAINING SAME AND USE THEREOF IN COSMETIC COMPOSITIONS ~71:AGENCE FRANCAISE POUR LE DEVELOPPEMENT D'AL ULA, 82 RUE DE COURCELLES, 75008 PARIS, FRANCE, France ~72: BOURGETEAU, Vincent;DODINET, Elizabeth~ 33:FR ~31:FR2005429 ~32:21/05/2020;33:FR ~31:FR2102686 ~32:17/03/2021

2022/13545 ~ Complete ~54:MAXI-K POTASSIUM CHANNEL OPENERS FOR THE TREATMENT OF FRAGILE X ASSOCIATED DISORDERS ~71:KAERUS BIOSCIENCE LIMITED, 24 CHISWELL STREET, THIRD FLOOR, LONDON EC1Y 4YX, UNITED KINGDOM, United Kingdom ~72: FLECK, Roman;PROUDFOOT, John~ 33:EP ~31:20175820.8 ~32:20/05/2020

2022/13546 ~ Complete ~54:HIGH QUALITY MASK ~71:NANA PRODUCTS LLC, 5218 LOTUS STREET, HOUSTON TEXAS 77045, USA, United States of America ~72: COLEMAN, Johnathan~ 33:US ~31:63/040,053 ~32:17/06/2020

2022/13549 ~ Complete ~54:ANTI-CD93 CONSTRUCTS AND USES THEREOF ~71:DYNAMICURE BIOTECHNOLOGY LLC, One Broadway 14FL, Cambridge, Massachusetts 02142, United States of America ~72: ANGELA NORTON;GREGORY JONES;JIAN LI;LIHUA WU;ROXANN GUERRETTE;SHIGERU KOMABA;ZHINAN XIA;ZIRONG CHEN~ 33:US ~31:63/033,755 ~32:02/06/2020;33:US ~31:63/058,359 ~32:29/07/2020;33:US ~31:63/084,474 ~32:28/09/2020

2022/13551 ~ Complete ~54:MANUFACTURE, FORMULATION AND DOSING OF APRAGLUTIDE ~71:VECTIVBIO AG, Aeschenvorstadt 36, 4051 Basel, Switzerland ~72: FEDERICO BOLOGNANI;GLEB FELDMAN~ 33:US ~31:63/036,507 ~32:09/06/2020;33:US ~31:63/074,119 ~32:03/09/2020;33:US ~31:63/157,083 ~32:05/03/2021

2022/13567 ~ Complete ~54:COLLISION DETECTION AND AVOIDANCE INSIDE A MINE ~71:Newtrax Technologies Inc., 360 St-Jacques, Floor 8, MONTREAL (QUEBEC) H2Y 1P5, CANADA, Canada;Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: CERVINKA, Alexandre;MANNONEN, Petri;MARTIKAINEN, Pekka;MURPHY, Patrick~ 33:EP ~31:20183073.4 ~32:30/06/2020;33:US ~31:63/046,056 ~32:30/06/2020

2022/13508 ~ Complete ~54:METHOD FOR EFFICIENTLY AND MASSIVELY PRODUCING CONIDIA FROM TRICHODERMA HARZIANUM THROUGH SOLID STATE FERMENTATION ~71:Shandong Academy of Agricultural Sciences, No. 23788, Industrial North Road, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China;Zhifeng Agricultural and Chemical Group Co., Ltd., No. 9, South Side of Yunlong Road, West Ring, Liangshan County, Jining City, Shandong Province, 272600, People's Republic of China ~72: DING, Yaoping;GU, Feng;LIU, Zhaohui;MA, Ronghui;TAN, Deshui;WEI, Jianlin;WU, Dehua;WU, Xiaobin;ZHAN, Ying;ZHANG, Qing~

2022/13511 ~ Complete ~54:WASTE HEAT RECOVERY DEVICE FOR WHITE CARBON BLACK PRODUCTION ~71:Anhui Science and Technology University, No. 9, Donghua Road, Fengyang County, Chuzhou City, Anhui Province, 233100, People's Republic of China ~72: CHEN, Chen;CHEN, Junhua;GUO, Yu;KE, Xiang;LI, Qiming;YANG, Wanke;ZHOU, Li~

2022/13506 ~ Provisional ~54:SMART MUTLIPLUG WITH BATTERY BACKUP ~71:Lindile Matyana, 18 Santie Ave, The Reeds, South Africa ~72: Lindile Matyana~

2022/13507 ~ Complete ~54:TERPOLYMERS FOR LIPID NANODISC FORMATION ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: KLUMPERMAN, Lubertus;KUYLER, Gestél Christine~ 33:GB ~31:2118192.0 ~32:15/12/2021

2022/13520 ~ Complete ~54:METHOD FOR HETEROGENEOUS DATA REGISTRATION OF GROUND-BASED INTERFEROMETRIC RADAR ~71:China Academy of Safety Science and Technology, Anquan Plaza, No. 32, Beiyuan Road, Chaoyang District, Beijing, 100012, People's Republic of China ~72: HOU, Shanshan;MA, Haitao;REN, Guiwen;YANG, Xiaolin;YU, Zhengxing;ZHANG, Hao~

2022/13524 ~ Complete ~54:MULTILAYERED BUCCAL PATCH OF ANTIHYPERTENSIVE DRUGS ~71:CHOUGULE , Poonam, Nilesh, Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Maharashtra, India;CHOUGULE, Nilesh,Balasaheb, Ashokrao Mane Institute of Pharmacy, Ambap, Maharashtra, India;KHAN, Ziyakhan Khalikhan, Chhabada Institute of Pharmacy, Raigaon, Satara, Maharashtra, India;KULKARNI, Abhijeet, Shashikant, Chhabada Institute of Pharmacy, Raigaon, Satara, India;PATIL, Sachin Vasantrao, Ashokrao Mane College of Pharmacy, Peth-Vadgaon, India;SHELKE , Sandip, Sarjerao, Ambabai Talim Sanstha College of Pharmacy, Miraj, Maharashtra, India;SHINDE , Vikram, Ramchandra, Dadasaheb Chavan Memorial Institute of Pharmacy, Malwadi, Masur Tal, India;TARATE, Vivek, Subhash, House No. 13, Raghukul Bungalow, Shivtej Colony, Shahunagar, India;UBALE, Amol Tanaji, Mahalaxmi Institute of Pharmacy, (D. Pharm) Raigaon, Satara, India ~72: CHOUGULE , Poonam, Nilesh;CHOUGULE, Nilesh,Balasaheb;KHAN, Ziyakhan Khalikhan;KULKARNI, Abhijeet, Shashikant;PATIL, Sachin Vasantrao;SHELKE , Sandip, Sarjerao;SHINDE , Vikram, Ramchandra;TARATE, Vivek, Subhash;UBALE, Amol Tanaji~

2022/13529 ~ Complete ~54:A SHORT VIDEO SHOOTING DEVICE FOR E-COMMERCE BASED PROMOTION ~71:XUZHOU VOCATIONAL COLLEGE OF BIOENGINEERING, No. 297, West Third Ring Road, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Li Yang~ 33:CN ~31:202210520600.5 ~32:13/05/2022

2022/13531 ~ Complete ~54:A METHOD FOR STUDYING THE COMPOSITIONAL DEPENDENCY ON PHYSICAL AND OPTICAL PROPERTIES OF MULTICOMPONENT CHALCOGENIDE GLASSY SYSTEMS ~71:Arpan Mandal, Mechanical Engineering Department, Regent Education and Research Foundation, Bara Kanthalia, Barrackpore, PO: Sewli Telini Para. Dist: North 24 Pargana, Kolkata , 700121, West Bengal, India;Dr Dipankar Biswas, Department of Electronics and Communication Engineering, National Institute of Technology Manipur, Langol, Imphal, 795004, India;Dr. Anindya Sundar Das, Department of Electronics and Communication Engineering, Swami Vivekananda Institute of Science &Technology, Dakshin Gobindapur, P.S.- Sonarpur, Kolkata, 700145, West Bengal, India;Dr. Chiranjib Chakrabarti, Department of Basic Science and Humanities (Physics), Regent Education and Research Foundation Bara Kanthalia, Barrackpore, PO: Sewli Telini Para. Dist: North 24 Pargana, Kolkata -700121. West Bengal, India;Dr. Loitongbam Surajkumar Singh, Department of Electronics and Communication Engineering, National Institute of Technology Manipur, Langol, Imphal, 795004, India;Dr. Sonjoy Mondal, Department of Physics, Sidho-Kanho-Birsha University, P.O.: Sainik School, Ranchi Road, Dist.: Purulia, PIN, 7312104, West Bengal, India;Dr. Soumyajyoti Kabi, Department of Physics, Hijli College, Kharagpur, 721306, India;Rittwick Mondal, Basic Science Department, Chowhatta High School. PO: Chowhatta,Dist: Birbhum, 731201, West Bengal, India;Souvik Brahma Hota, Department of Mechanical Engineering, Techno India University, Bidhannagar, Salt Lake, Kolkata 700091, West Bengal, India ~72: Arpan Mandal;Dr Dipankar Biswas;Dr. Anindya Sundar Das;Dr. Chiranjib Chakrabarti;Dr. Loitongbam Surajkumar Singh;Dr. Sonjoy Mondal;Dr. Soumyajyoti Kabi;Rittwick Mondal;Souvik Brahma Hota~

2022/13537 ~ Complete ~54:PROCESS OF KNITTING WHOLE GARMENT BY ALTERNATED STITCH TECHNIQUE ~71:INNER MONGOLIA KING DEER CASHMERE CO.,LTD, South Dongheqiao,Bayantala Street, Donghe District, Baotou, Inner Mongolia, People's Republic of China ~72: Hui DING;Jiancheng QIAO;Jianli GUO;Ruilan DONG;Xinquan WANG~ 33:CN ~31:202110843057.8 ~32:26/07/2021

2022/13552 ~ Complete ~54:STABILIZED UREA CALCIUM SULPHATE ADDUCT COATED WITH A BASE AN UREASE INHIBITOR ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticslaan 1, 4612 PX, Bergen op Zoom, Netherlands ~72: ANDREW GEORGE KELLS;NILKAMAL BAG;RAJAMALLESWARAMMA KORIPELLY;SAMIK GUPTA~ 33:IN ~31:202011027979 ~32:01/07/2020

2022/13561 ~ Complete ~54:SOLID STATE FORMS OF CYANTRANILIPROLE ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: CHEN , Bob;FORCKOSH, Hagit;GOLUB , Yanai;LIE , Jie;PARNES , Regev;SUEZ, Gal~ 33:US ~31:63/035,865 ~32:08/06/2020

2022/13516 ~ Complete ~54:POWER GYROTRON QUASI-OPTICAL LAUNCHER AND DIFFRACTION LOSS CALCULATION METHOD ~71:TAISHAN UNIVERSITY, 525 DONGYUE STREET, TAI'AN, SHANDONG, 271000, People's Republic of China ~72: Guohui ZHAO~

2022/13518 ~ Complete ~54:UNMANNED SHIP FOR FLOATING GARBAGE CLEANING ON WATER SURFACE ~71:Zhejiang University City College, No.51, Huzhou Street, Gongshu District, Hangzhou City, Zhejiang Province, 310015, People's Republic of China ~72: WANG, Fang~ 33:CN ~31:202211322091.1 ~32:27/10/2022

2022/13523 ~ Complete ~54:SCREENING DEVICE ~71:SASOL MINING (PTY) LIMITED, Sasol Place 50 Katherine Street, Sandton, Gauteng, 2090, South Africa ~72: ODELL, Gregory Bruce~ 33:ZA ~31:2021/07095 ~32:23/09/2021

2022/13526 ~ Complete ~54:METHODS, DEVICES AND COMPUTER READABLE MEDIUM FOR NEW RADIO MANAGEMENT MEASUREMENT ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DALSGAARD, Lars;ZHANG, Li~

2022/13535 ~ Complete ~54:SYSTEM AND METHOD FOR MAINTAINING A LIST OF CRYPTOGRAPHIC CERTIFICATES ~71:IOT.nxt BV, Zuid Hollandlaan 7, Netherlands ~72: KOEN, Renico~ 33:ZA ~31:2020/03302 ~32:03/06/2020

2022/13539 ~ Complete ~54:PROTEIN HYDROLYSATE OF MORINGA PEREGRINA SEED CAKE FOR ITS APPLICATION AS A MEDICAMENT, PROCESS FOR OBTAINING SAME AND PHARMACEUTICAL AND DERMATOLOGICAL COMPOSITIONS ~71:AGENCE FRANCAISE POUR LE DEVELOPPEMENT D'AL ULA, 82 RUE DE COURCELLES, 75008 PARIS, FRANCE, France ~72: BOURGETEAU, Vincent;DODINET, Elizabeth~ 33:FR ~31:FR2005426 ~32:21/05/2020

2022/13541 ~ Complete ~54:SILICA GRANULES FOR THERMAL TREATMENT ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: AUL, Wolfgang;GIESSELER, Mareike;GOLCHERT, Rainer;LYGIN, Alexander;MÜHLIG, Nina;RENGER, Tobias;TONTRUP, Christoph~ 33:EP ~31:20176242.4 ~32:25/05/2020

2022/13544 ~ Complete ~54:DRINKING STRAW WITH INTERNAL COATING ~71:UNISTRAW CORP., 31175 FOX HOLLOW DRIVE, PEPPER PIKE, OHIO 44124, USA, United States of America ~72: PALAZZI, Kendall, Norman~ 33:US ~31:16/887,525 ~32:29/05/2020

2022/13505 ~ Provisional ~54:AN AFRICAN METAVERSE GAME THAT AIMS TO PROMOTE BRANDS, CULTURAL EXPERIENCES THROUGH INTERACTION WITH OBJECTS BY DANCING, WALKING, RUNNING, SKATING AND FLYING IN OBJECTS PORTRAYED AS COMPANY BRANDS ~71:Njabulo Nzimande, 153 Walton Avenue Carlswald Midrand 1686, Unit 1 Umthunzi Views, South Africa ~72: Njabulo Nzimande~

2022/13510 ~ Complete ~54:MAXIMUM POWER POINT TRACKING METHOD OF PHOTOVOLTAIC POWER GENERATION ARRAY BASED ON WILD HORSE OPTIMIZER ~71:Shanghai University of Electric Power, No. 1851, Huchenghuan Road, Pudong New Area, Shanghai, 201306, People's Republic of China ~72: Peiyu HU~

2022/13514 ~ Complete ~54:IMPROVED SLUDGE VACUUM DEWATERING DEVICE ~71:Anhui Science and Technology University, 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: CHENG Xiying;WEI Renwei;YANG Ruimin;ZHANG Zhenning;ZHENG Tenglong~ 33:CN ~31:202210354254.8 ~32:06/04/2022

2022/13519 ~ Complete ~54:CONSTRUCTION METHOD AND APPLICATION OF AN ARHGAP11B TRANSGENIC ZEBRAFISH MODEL ~71:Wuyi University, No. 22, Dongcheng Village, Pengjiang District,

Jiangmen City, Guangdong Province, 529030, People's Republic of China ~72: Chengcheng TANG;Liangxue LAI;Min CHEN;Qingjian ZOU;Xiaoqing ZHOU;Xiaoshan JIANG~

2022/13543 ~ Complete ~54:EXTRACT OF MORINGA PEREGRINA SEED CAKE, METHOD FOR OBTAINING SAME AND USE THEREOF IN COSMETIC OR NUTRICOSMETIC COMPOSITIONS ~71:AGENCE FRANCAISE POUR LE DEVELOPPEMENT D'AL ULA, 82 RUE DE COURCELLES, 75008 PARIS, FRANCE, France ~72: BOURGETEAU, Vincent;DODINET, Elizabeth~ 33:FR ~31:FR2005433 ~32:21/05/2020;33:FR ~31:FR2102631 ~32:16/03/2021

2022/13550 ~ Complete ~54:INHIBITORS OF CYSTEINE PROTEASES AND METHODS OF USE THEREOF ~71:PARDES BIOSCIENCES, INC., 2173 Salk Ave., Suite 250, PMB#052 Carlsbad, California 92008, United States of America ~72: ANDY JENNINGS;LEE D ARNOLD;WALTER KEUNG~ 33:US ~31:63/036,866 ~32:09/06/2020;33:US ~31:63/039,297 ~32:15/06/2020;33:US ~31:63/067,669 ~32:19/08/2020;33:US ~31:63/091,630 ~32:14/10/2020;33:US ~31:63/129,018 ~32:22/12/2020;33:US ~31:63/171,675 ~32:07/04/2021;33:US ~31:63/172,478 ~32:08/04/2021;33:US ~31:63/173,146 ~32:09/04/2021;33:US ~31:63/179,128 ~32:23/04/2021;33:US ~31:63/195,460 ~32:01/06/2021

2022/13555 ~ Complete ~54:THERAPY OF POST-OPERATIVE NAUSEA AND VOMITING ~71:ACACIA PHARMA LTD, The Officers' Mess, Royston Road, United Kingdom ~72: FOX, Gabriel;GILBERT, Julian Clive;GRISTWOOD, Robert William~ 33:GB ~31:2010361.0 ~32:06/07/2020;33:GB ~31:2108238.3 ~32:09/06/2021

2022/13559 ~ Complete ~54:SAFETY NET FOR ROCKFALL PROTECTION BARRIERS ~71:Trumer Schutzbauten GmbH, Maria-Bühel-Straße 7, OBERNDORF 5110, AUSTRIA, Austria ~72: VOLKWEIN, Axel~ 33:DE ~31:10 2020 113 269.7 ~32:15/05/2020

2022/13528 ~ Complete ~54:A FOOD HOLDER ~71:KIRSTEN, Samuel John, 66 Ring Road, Three Rivers Ext 2, VEREENIGING 1929, Gauteng Province, SOUTH AFRICA, South Africa ~72: KIRSTEN, Samuel John~

2022/13536 ~ Complete ~54:ELECTRONIC POINT OF SALE DEVICE ~71:B P DIGITAL LTD, Unit 6a Cartmel Road, Witton Business Park, United Kingdom ~72: BENNET, Oliver;PERRY, James~ 33:EP ~31:20177605.1 ~32:29/05/2020

2022/13538 ~ Complete ~54:SELF-CLEANING DEVICE FOR BELTS OF ROVING CARDING MACHINE AND ITS METHOD OF USE ~71:INNER MONGOLIA KING DEER CASHMERE CO.,LTD, South Dongheqiao,Bayantala Street, Donghe District, Baotou, Inner Mongolia, People's Republic of China ~72: Hui DING;Jiancheng QIAO;Jianli GUO;Ruilan DONG;Xinquan WANG~ 33:CN ~31:202110838813.8 ~32:23/07/2021

2022/13540 ~ Complete ~54:SURFACE CORROSION MONITORING SYSTEM ~71:WISEGROW INVESTMENTS PTY LTD, 131 LANSDOWNE ROAD, KENSINGTON 6151, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: HARRISON, Giles~ 33:AU ~31:2020901766 ~32:29/05/2020

2022/13548 ~ Complete ~54:PUMP SENSOR SYSTEM ~71:CORNELL PUMP COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: AARON WEISS;ADAM LINDEMAN;ANDREW ENTERLINE;GRAYSON FLEMING;ITUAH RODRIGUEZ~ 33:US ~31:63/043,903 ~32:25/06/2020

2022/13556 ~ Complete ~54:QUATERNARY INDAZOLE GLUCOCORTICOID RECEPTOR ANTAGONISTS ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, United States of America ~72: DUFFY, Lorna;HORNSBY, Thomas;HUNT, Hazel;JOUANNEAU, Morgan;MILLS, Mark;PHILLIPS, Andrew William;STRUTT, Ian;WARD, Jon-Paul~ 33:US ~31:63/042,188 ~32:22/06/2020

2022/13562 ~ Complete ~54:SUBSTITUTED PIPERIDINE COMPOUND AND APPLICATION THEREOF ~71:Eisai R&D Management Co., Ltd., 4-6-10 Koishikawa, Bunkyo-ku, TOKYO 1128088, JAPAN, Japan ~72: ASABA , Taro;KITA, Yoichi;KOTAKE, Makoto;MOTOKI , Takafumi;OHFUSA , Toshiyuki;SORIMACHI, Keiichi;YOSHIDA, Yu~ 33:JP ~31:2020-122864 ~32:17/07/2020

. - APPLIED ON 2022/12/15 -

2022/13575 ~ Complete ~54:FLOATING REMOTE CONTROL SAMPLING EQUIPMENT FOR SEAWATER SAMPLING ~71:GUANGDONG OCEAN UNIVERSITY, No. 1, Haida Road, Mazhang District, Zhanjiang City, Guangdong Province, 524088, People's Republic of China ~72: LIU Yaoqian;SUN Xingli;ZHANG Caixue~

2022/13577 ~ Complete ~54:PHYSICAL SIMULATION SYSTEM AND MEASUREMENT METHOD FOR RAINFALL INFILTRATION OF DISCONTINUOUS UNSATURATED SOIL ~71:Henan University of Urban Construction, Longxiang Street,Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: GENG Da;JIAO Xueran;LI Weiyan;LI Yangyang;LIANG Feng;PENG Linxuan;TIAN Junfeng;WANG Yong;WU Li;YU Haijing~

2022/13579 ~ Complete ~54:MULTI-AXIS STIRRING DEVICE FOR LABORATORY LIQUID ANALYSIS ~71:GUANGDONG OCEAN UNIVERSITY, No. 1, Haida Road, Mazhang District, Zhanjiang City, Guangdong Province, People's Republic of China ~72: ZHANG Caixue;ZHAO Lirong~

2022/13592 ~ Complete ~54:REINFORCEMENT METHOD OF SHALLOW OVERBURDEN SHIELD TUNNEL BASED ON WEAK STRATUM ~71:CRCC Huanghe Investment and Construction Co., Ltd., No. 1, Daqiao Road, Licheng District, Jinan, Shandong, People's Republic of China;China Railway Eighteen Bureau Group Co., Ltd., Dagu Road, Jinnan District, Tianjin, 300222, People's Republic of China;The Third Engineering Co., Ltd. of China Railway Eighteen Bureau Group, Guanyun Road, Zhuozhou, Baoding City, 300222, People's Republic of China ~72: Baojun Zhou;Faqing Wen;Jun Hu;Liya Yan;Qingbin Li;Songtao Liu;Zhaohui Wang~

2022/13605 ~ Complete ~54:ENCODING AND DECODING METHOD AND APPARATUS, AND DEVICE THEREFOR ~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;XIAOQIANG CAO;YUCHENG SUN~ 33:CN ~31:202010622752.7 ~32:30/06/2020

2022/13609 ~ Complete ~54:DEVICE FOR SORTING INSECTS FOR SORTING A MIXTURE COMPRISING NYMPHS ~71:Ynsect, 1 Rue Pierre Fontaine, ÉVRY-COURCOURONNES CEDEX 91058, FRANCE, France ~72: CHÂTEAU , Mathieu;COMPARAT, Solène;ESCALANTE, Pedro;ESCAROZ CETINA, Arturo;SARTON DU JONCHAY, Thibault~ 33:FR ~31:2006379 ~32:18/06/2020

2022/13597 ~ Complete ~54:PREPARATION METHOD FOR AND APPLICATION OF PYRAZOLE ACYLHYDRAZONE CONTAINING TRIFLUOROMETHYL THIADIAZOLE UNIT ~71:NANTONG UNIVERSITY, No.9, Seyuan Road, Chongchuan District,, Nantong,, Jiangsu,, 226019, People's Republic of China ~72: DAI, Hong;MIAO, Heyi;ZHENG, Dandan~ 33:CN ~31:202010622844.5 ~32:01/07/2020

2022/13602 ~ Complete ~54:UNINHIBITED AMYLASES FOR BREWING WITH HIGH TANNIN MATERIALS ~71:DUPONT NUTRITION BIOSCIENCES APS, Langebrogade 1, DK-1411, Copenhagen K, Denmark ~72: JACOB FLYVHOLM CRAMER~ 33:US ~31:63/028,042 ~32:21/05/2020

2022/13598 ~ Complete ~54:LOAD DETECTION AND PRIORITIZATION FOR AN ENERGY MANAGEMENT SYSTEM ~71:ENPHASE ENERGY INC, 1420 North McDowell Boulevard Petaluma, United States of America ~72: BELUR, Raghuveer R.~ 33:US ~31:63/033,201 ~32:01/06/2020

2022/13601 ~ Complete ~54:AN INTEGRATED HEAP LEACH PROCESS ~71:ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom;ANGLO CORPORATE SERVICES SOUTH AFRICA (PTY) LTD, 144 Oxford Road, Rosebank, 2196, South Africa ~72: ANTHONY OWEN FILMER;CHRISTOPHER ALAN BILEY;DANIEL JOHN (DECEASED) ALEXANDER~ 33:US ~31:63/053,104 ~32:17/07/2020

2022/13614 ~ Complete ~54:RIP1K INHIBITORS ~71:Rigel Pharmaceuticals, Inc., 1180 Veterans Boulevard, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BHAMIDIPATI, Somasekhar;DARWISH, Ihab;IRVING, Mark;KOLLURI, Rao;MASUDA, Esteban;SHAW, Simon;TAYLOR, Vanessa;YU, Jiaxin~ 33:US ~31:63/047,194 ~32:01/07/2020

2022/13619 ~ Complete ~54:MULTI-AXIAL INTEGRAL GEOGRID AND METHODS OF MAKING AND USING SAME ~71:Tensar International Corporation, 2500 Northwinds Parkway, Suite 500, ALPHARETTA 30009, GA, USA, United States of America ~72: BAKER, Daniel Mark;CAVANAUGH, Joseph;CURSON, Andrew;GALLAGHER, Daniel John;JENKINS, Tom-Ross;TYAGI, Manoj Kumar;WALLER, Andrew Edward~ 33:US ~31:63/043,627 ~32:24/06/2020;33:US ~31:63/154,209 ~32:26/02/2021;33:US ~31:63/154,588 ~32:26/02/2021;33:US ~31:17/355,843 ~32:23/06/2021

2022/13585 ~ Complete ~54:IGF-1R MONOCLONAL ANTIBODIES AND USES THEREOF ~71:CENTRE FOR PROBE DEVELOPMENT AND COMMERCIALIZATION, 1280 Main Street West, Hamilton, Ontario, L8S 4K1, Canada ~72: ALLA DARWISH;ERIC STEVEN BURAK;JOHN FITZMAURICE VALLIANT;JOHN RICHARD FORBES;MATTHEW DAVID BURR MORAN;RYAN WAYNE SIMMS~ 33:US ~31:62/502,288 ~32:05/05/2017;33:US ~31:62/545,945 ~32:15/08/2017

2022/13593 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING A FLAME-RETARDANT ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: PAPAKYRILLOU, Stefanos~ 33:EP ~31:20386024.2 ~32:19/05/2020

2022/13621 ~ Complete ~54:COMPOSITIONS HAVING NEUROREGENERATIVE APPLICATIONS ~71:GRIFOLS WORLDWIDE OPERATIONS LIMITED, Grange Castle Business Park, Ireland ~72: BARNETT, Thomas;ROSS, David A.~ 33:US ~31:63/049,516 ~32:08/07/2020

2022/13572 ~ Provisional ~54:EXPLOSION SENSING AND WARNING TRIGGER DEVICE ~71:BARTELINK, Johannes Gerardus, 38 Pomona Road, Pomona, Kempton Park, South Africa ~72: BARTELINK, Johannes Gerardus~

2022/13578 ~ Complete ~54:BIOMASS AUTOMATIC IDENTIFICATION AND TRADING DEVICE ~71:GUANGDONG OCEAN UNIVERSITY, No.1,Haida Road,Mazhang District, Zhanjiang, Guangdong, People's Republic of China ~72: CAI Junyi;CHEN Jiahui;DING Ying;LIU Tong~

2022/13580 ~ Complete ~54:MICROBIAL LOW-TEMPERATURE FERMENTED ORGANIC FERTILIZER AND PRODUCTION PROCESS THEREOF ~71:Lijun SUN, Tai Shan Miao Xiang, Nanzhao County, Nanyang City, Henan Province, People's Republic of China ~72: Lijun SUN~

2022/13587 ~ Complete ~54:PESTICIDE COMPOSITION WITH PH INDICATOR, PREPARATION PROCESS AND USE THEREOF ~71:DVA AGRO GMBH, Valentinskamp, 70/EMPORIO, Hamburg 20355, Germany ~72: GIULIA CRISTINE DE SOUZA MELO;JOÃO PAULO ALEIXO;NATÁLIA GONÇALVES;RAFAELA CRISTINA FEITOSA CORSI;YEVGENIY SHEVCHENKOV~ 33:BR ~31:P 1020210254947 ~32:16/12/2021;33:BR ~31:P 1020220243875 ~32:29/11/2022

2022/13589 ~ Complete ~54:SOCIAL NETWORKING SERVICE SYSTEM AND METHOD ~71:WOLFF, Alan, 40A Victoria Road, South Africa ~72: WOLFF, Alan~

2022/13590 ~ Complete ~54:A METHOD OF PREPARING SELF-SEPARATING ULTRAFINE SILICON NITRIDE FIBERS BY USING RICE STRAW ~71:XINJIANG INSTITUTE OF TECHNOLOGY, Xinjiang Institute of Technology, No. 1 Xuefu Road, 217 Daoxiang Road, Wensu County, Aksu Xinjiang, 843100, People's Republic of China ~72: LI, Shouzhu;MA, Xiaomei;MA, Xin;NIE, Shengjie;WANG, Yue;YAO, Li;ZHANG, Jiarun~

2022/13595 ~ Complete ~54:FORMULATIONS OF 19-NOR C3,3- DISUBSTITUTED C21-N-PYRAZOLYL STEROID AND METHODS OF USE THEREOF ~71:SAGE THERAPEUTICS, INC., 215 First Street, Cambridge, United States of America ~72: BERNER, Bret;CHEN, Xiaoxia;JAIN, Raj, Ramnik;MENG, Jianing;NARAYAN, Padma;STUTZMAN, Todd, Anthony;WATSON, Paul, Steven;WILKERSON, Carolyn~ 33:US ~31:63/054,070 ~32:20/07/2020

2022/13606 ~ Complete ~54:METHOD FOR THE BONDING, TRANSPORT, REACTION ACTIVATION, CONVERSION, STORAGE AND RELEASE OF WATER-SOLUBLE GASES ~71:ULRICH DIETZ, Regerstrasse 1, 65193, Wiesbaden, Germany ~72: ULRICH DIETZ~ 33:DE ~31:10 2020 004 542.1 ~32:27/07/2020

2022/13622 ~ Complete ~54:METHOD FOR RENEWING RAILS OF A RAILWAY TRACK WITH NEW LONG RAILS, AND ASSOCIATED WORK TRAIN ~71:MATISA MATERIEL INDUSTRIEL S.A., Boulevard de l-Arc-en-Ciel 25, 1023, Crissier, Switzerland ~72: MUNDT, Alain;PILET, Jacques;PILLER, Marco;SAVOYAT, Marc-Antoine;STUPAR, Milan~ 33:FR ~31:2007219 ~32:08/07/2020

2022/13573 ~ Provisional ~54:A NON-OCCLUSIVE BALLOON CATHETER ~71:HOOP MEDICAL LIMITED, Ardcavan Business Park, Ireland ~72: MUDGE, Edward Charles~

2022/13574 ~ Complete ~54:COATED CONTROLLED-RELEASE PESTICIDE FERTILIZER AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Zhanjiang Research Center, Institute of Nanfan and Seed Industry, Guangdong Academy of Sciences, No. 99, Suizhan Road, Xinqiao, Suixi County, Zhanjiang City, Guangdong Province, 524300, People's Republic of China ~72: LUO, Qingwen;XIE, Jiangjiang~ 33:CN ~31:202210903323.6 ~32:29/07/2022

2022/13582 ~ Complete ~54:A PREPARATION OF VISCOSE YARN ~71:Yuzhu Zhang, Floor 2, Building B-2, No. 128, Hongyuan South Road, Puyuan, Tongxiang, Zhejiang, People's Republic of China ~72: Yuzhu Zhang~

2022/13586 ~ Complete ~54:COMPOSITIONS AND METHODS OF USE OF 2-(4-CHLOROPHENYL)-N-((2-(2,6-DOXOPIPERIDIN-3-YL)-1-OXOISOINDOLIN-5-YL) METHYL) -2,2-DIFLUOROACETAMIDE ~71:CELGENE CORPORATION, 86 Morris Avenue, Summit, New Jersey, 07901, United States of America ~72: DANIEL PIERCE;EMILY PACE;GANG LU;JAMES CARMICHAEL;JINHONG FAN;KYLE MACBETH;MICHAEL POURDEHNAD;NAIJUN WU;PENG WANG;RAJAN GUPTA;SHEENA YAO;SORAYA CARRANCIO;TONIA J BUCHHOLZ;YU PU~ 33:US ~31:62/527,744 ~32:30/06/2017;33:US ~31:62/653,436 ~32:05/04/2018;33:US ~31:62/673,064 ~32:17/05/2018

2022/13591 ~ Complete ~54:LOW-PROTEIN RATION AS FEED FOR PIGS AND PREPARATION METHOD THEREOF ~71:Tianshui animal husbandry technology popularizing station, No. 1, Guanqiang Lane, Xinhua Road, Qinzhou District, Tianshui City, 741000, People's Republic of China ~72: He ZhenGang;Lin MengMeng;Liu XiaoLi;Liu Yu;Ma Ping;Zhang Tao;Zhang YanLi;Zheng AiHua~

2022/13600 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING CHEMOTHERAPY-INDUCED DIARRHEA ~71:NAPO PHARMACEUTICALS, INC., 200 Pine Street, Suite 400, United States of America ~72: CONTE, Lisa, A.~

2022/13607 ~ Complete ~54:PORTFOLIO OPTIMIZATION SYSTEM THAT SIMULTANIOUSLY SUPPORTS MULTIPLE TAX-EXEMPT, TAX-DEFERRED AND TAXABLE ACCOUNTS ~71:MORNINGSTAR, INC., 22 W Washington St. #7, Chicago, Illinois, 60602, United States of America ~72: JEFFREY M SOSTRIN;PAUL D KAPLAN;THOMAS M IDZOREK~ 33:US ~31:63/034,139 ~32:03/06/2020;33:US ~31:63/196,055 ~32:02/06/2021

2022/13611 ~ 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: CAMPBELL, Veronica;GOLLOB, Jared;MCDONALD, Alice;SLAVIN, Anthony~ 33:US ~31:63/040,407 ~32:17/06/2020;33:US ~31:63/070,022 ~32:25/08/2020;33:US ~31:63/089,398 ~32:08/10/2020

2022/13612 ~ Complete ~54:DISTRIBUTED ENDPOINT SECURITY ARCHITECTURE AUTOMATED BY ARTIFICIAL INTELLIGENCE ~71:AaDya Security, Inc., 1420 Washington Blvd., #301, DETROIT 48226, MI, USA, United States of America ~72: MAUTONE, Raffaele Mauro-Aniello;PRIEST, Chad Sterling~ 33:US ~31:63/042,523 ~32:22/06/2020

2022/13617 ~ Complete ~54:MRNA TRANSFECTION OF IMMUNE CELLS ~71:Carisma Therapeutics Inc., 3675 Market Street, Ste 200, PHILADELPHIA 19104, PA, USA, United States of America ~72: KLICHINSKY, Michael;ROSS, Kayleigh;YASHIRO-OHTANI, Yumi~ 33:US ~31:63/044,855 ~32:26/06/2020

2022/13594 ~ Complete ~54:MODIFIED AEROSOL-GENERATING ARTICLE WITH FLAME RETARDANT WRAPPER ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: JORDIL, Yves;PAPAKYRILLOU, Stefanos~ 33:EP ~31:20386023.4 ~32:19/05/2020

2022/13596 ~ Complete ~54:DISCONNECTABLE MOORING SYSTEM ~71:SLLP 134 LIMITED, 28 Albyn Place Aberdeen, United Kingdom ~72: BOWIE, Malcolm~ 33:GB ~31:2007691.5 ~32:22/05/2020;33:GB ~31:2014361.6 ~32:11/09/2020

2022/13584 ~ Complete ~54:METHODS OF TREATING CANCER USING PD-1 AXIS BINDING ANTAGONISTS AND TIGIT INHIBITORS ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080, United States of America ~72: BRYAN IRVING;DAN EATON;JANE GROGAN;JASON HACKNEY;KRISTIN BOWLES;LAETITIA COMPS-AGRAR;ROBERT J JOHNSTON;XIN YU~ 33:US ~31:61/846,941 ~32:16/07/2013;33:US ~31:61/865,582 ~32:13/08/2013;33:US ~31:61/950,754 ~32:10/03/2014;33:US ~31:61/985,884 ~32:29/04/2014;33:US ~31:61/992,109 ~32:12/05/2014

2022/13588 ~ Complete ~54:A ROTOR POSITION SENSOR SYSTEM FOR A SLOTLESS MOTOR ~71:ETA Green Power Limited, Hethel Engineering Centre, Chapman Way, HETHEL NR14 8FB, UNITED KINGDOM, United Kingdom ~72: BOWMAN, Liam~ 33:GB ~31:2118458.5 ~32:17/12/2021

2022/13599 ~ Complete ~54:A GAMING SYSTEM ~71:CAMMEGH LIMITED, Old Surrenden Manor, United Kingdom ~72: CAMMEGH, Andrew;CAMMEGH, Richard~ 33:GB ~31:2007711.1 ~32:22/05/2020

2022/13604 ~ Complete ~54:RAISE CAVING METHOD FOR MINING DEPOSITS, AND A MINING INFRASTRUCTURE, MONITORING SYSTEM, MACHINERY, CONTROL SYSTEM AND DATA MEDIUM THEREFOR ~71:LUOSSAVAARA-KIIRUNAVAARA AB, P.O. Box 952, 971 28 Luleå, Sweden ~72: HORST WAGNER;MATTHIAS WIMMER;TOBIAS LADINIG~ 33:SE ~31:2050595-4 ~32:20/05/2020;33:SE ~31:2150606-8 ~32:12/05/2021

2022/13570 ~ Provisional ~54:MEDICAL IMPLANT DEVICE ~71:ORTHOCAPE (PTY) LTD, 12 Eramus Drive, Summerstrand, Port Elizabeth, South Africa ~72: MARAIS, Jacques;TERBLANCHE, Ignatius, Petrus, Stefanus;VERMEULEN, Marius~

2022/13571 ~ Provisional ~54:BIODEGRADABLE CIGARETTE PACKAGING ~71:Barend Daniël DE BEER, 9 Swartberg Street VAALPARK, South Africa ~72: Barend Daniël DE BEER~

2022/13576 ~ Complete ~54:EMULSION STABILIZED BY PURE NATURAL PARTICLE EMULSIFIER AND PREPARATION METHOD THEREFOR ~71:Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: LIANG, Ying;MA, Xingtao;WU, Fei;XU, Maodong;ZHAO, Chuang;ZHU, Zimei~

2022/13581 ~ Complete ~54:METHOD FOR REMOVING HALOGENATED HYDROCARBON AND HEAVY METAL COMBINED POLLUTANTS IN WATER BY USING PHYSICAL MIXTURE OF OXALIC ACID MODIFIED ZERO-VALENT IRON AND HYDROTALCITE ~71:Central China Normal University, 152 Luoyu Road, Hongshan District, Wuhan City, Hubei Province, People's Republic of China ~72: Lizhi ZHANG;Xi CAI;Xiao LIU;Yang LIN;Zhihui AI~ 33:CN ~31:2022113999795 ~32:09/11/2022

2022/13583 ~ Complete ~54:A RIGID-FRAMEWORK SUPPORT CONNECTING FRAME ~71:China Railway Seventh Engineering Bureau Group Guangzhou Engineering CO., LTD., No. 841-850, Building H6, and No. 801-820, Building H7, No. 39 Ruihe Road, Huangpu District, Guangzhou City, Guangdong Province, 510535, People's Republic of China;China Railway Seventh Group CO., LTD., No. 1225 Hanghai East Road, Guancheng District, Zhengzhou City, Henan Province, 450016, People's Republic of China ~72: Dandan Han;Dongyang Guo;Hengwei Wang;Lei Peng;Shujian Lu;Zhengkai Jiang~ 33:CN ~31:202222589617.4 ~32:29/09/2022

2022/13603 ~ Complete ~54:RAISE CAVING METHOD FOR MINING AN ORE FROM AN ORE BODY, AND A MINING INFRASTRUCTURE, MONITORING SYSTEM, MACHINERY, CONTROL SYSTEM AND DATA MEDIUM THEREFOR ~71:LUOSSAVAARA-KIIRUNAVAARA AB, P.O. Box 952, 971 28 Luleå, Sweden ~72: HORST WAGNER;MATTHIAS WIMMER;TOBIAS LADINIG~ 33:SE ~31:2050595-4 ~32:20/05/2020;33:SE ~31:2130072-8 ~32:15/03/2021

2022/13610 ~ Complete ~54:FLAME RETARDANT AND STABILIZER COMBINED FOR USE WITH THERMOPLASTICS ~71:LANXESS Corporation, 111 RIDC Park West Drive, PITTSBURGH 15275, PA, USA, United States of America ~72: HE, Qingliang~ 33:US ~31:63/040,467 ~32:17/06/2020

2022/13613 ~ Complete ~54:HOLDING ASSEMBLY ~71:Gripple Limited, The Old West Gun Works, Savile Street East, SHEFFIELD S4 7UQ, SOUTH YORKSHIRE, UNITED KINGDOM, United Kingdom ~72: SUNDERLAND, Oliver~ 33:GB ~31:2009393.6 ~32:19/06/2020;33:GB ~31:2107466.1 ~32:26/05/2021

2022/13615 ~ Complete ~54:METHODS OF MEASURING CARFILZOMIB ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: COHEN, Dawn Elyse;HARPER, Emma~ 33:US ~31:63/041,141 ~32:19/06/2020

2022/13616 ~ Complete ~54:MIXED REALITY HIGH-SIMULATION BATTLEFIELD FIRST AID TRAINING PLATFORM AND TRAINING METHOD USING SAME ~71:Army Medical University, People's Liberation Army, PRC, TAN, Kexue No. 30, Gaotanyan Main Street, Shapingba District, CHONGQING 400038, CHINA (P.R.C.), People's Republic of China ~72: DU, Wenqiong;JIA, Yijun;JIANG, Renqing;YE, Zhao;ZHONG, Xin;ZHOU, Xiaolin;ZONG, Zhaowen~ 33:CN ~31:202010983199.X ~32:17/09/2020

2022/13618 ~ Complete ~54:MYBPC3 POLYPEPTIDES AND USES THEREOF ~71:Children's Medical Center Corporation, 55 Shattuck Street, BOSTON 02115 , MA, USA, United States of America ~72: BEZZERIDES, Vassilios;LU, Fujian;PU, William T.~ 33:US ~31:63/049,398 ~32:08/07/2020

2022/13620 ~ Complete ~54:MODIFIED PORCINE PANCREATIC ELASTASE PROTEINS ~71:ONCHILLES PHARMA, INC., 1130 E. Hyde Park Blvd.,# 3A, Chicago, United States of America ~72: PETRASSI, Hank Michael James~ 33:US ~31:63/067,058 ~32:18/08/2020

2022/13608 ~ Complete ~54:USE OF HUMAN MILK OLIGOSACCHARIDES IN NUTRITIONAL COMPOSITIONS FOR ENHANCING BONE DEVELOPMENT AND/OR BONE STRENGTH ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BARUCHET, Michaël Frédéric Henri;BONNET, Nicolas;HORCAJADA, Marie Noëlle;RAMOS NIEVES, José Manuel~ 33:EP ~31:20175969.3 ~32:22/05/2020

ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

No records available

CHANGE OF NAME IN TERMS OF REGULATION 39

No records available

PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64

No records available

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

No records available

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

Notice is hereby given to **SPECIALIZED WHEELCHAIR and COMMERCIAL LIFTING SYSTEM (Pty) Ltd OF SPOOR & FISHER, 11 BYLS BRIDGE BOULEVARD, CENTURION** that made application for the restoration of the patent granted to said **SPECIALIZED WHEELCHAIR and COMMERCIAL LIFTING SYSTEM (Pty) Ltd** an invention **TAIL LIFT ARRANGEMENT** numbered **2017/01182** dated **16/02/2017** which became void **16/02/2022** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **FRANK OBERHOLZER OF RADEMEYER ATTORNEYS-MRF. 390 KENT AVENUE, FERNDALE, RANDBURG** that made application for the restoration of the patent granted to said **FRANK OBERHOLZER** an invention **BRIQUETTES** numbered **2017/03560** dated **24/05/2017** which became void **24/05/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **UNILEVER GLOBAL IP LIMITED OF DENNEMEYER & ASSOCIATES, JHB** that made application for the restoration of the patent granted to said **UNILEVER GLOBAL IP LIMITED** an invention **USE**

OF CHELATING AGENTS FOR IMPROVING COLOR STABILITY OF RESORCINOL numbered **2019/03633** dated **27/11/2017** which became void **27/11/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **INTERLOCK SYSTEM CC OF RICHARDS ATTORNEYS, ROODEPOORT** that made application for the restoration of the patent granted to said **INTERLOCK SYSTEM CC** an invention **LOCKING MECHANISM** numbered **2004/02165** dated **18/03/2004** which became void **18/03/2014** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **SERENDIPITY FAMILY TRUST OF RICHARDS ATTORNEYS, ROODEPOORT** that made application for the restoration of the patent granted to said **SERENDIPITY FAMILY TRUST** an invention **SECURING BRACKET numbered 2016/02562** dated **05/04/2016** which became void **05/04/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

Notice is hereby given to **INTERLOCK SYSTEM CC OF RICHARDS ATTORNEYS, ROODEPOORT** that made application for the restoration of the patent granted to said **INTERLOCK SYSTEM CC** an invention **PROTECTIVE HOUSING FOR A LOCKING MECHANISM numbered 2010/08902** dated **10/12/2010** which became void **10/12/2014** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No. 19 of opposition to the restoration of the patent within two months of the advertisement hereof.

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR VOLUNTARY SURRENDER OF PATENTS UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: SPIROTECH MINING SERVICES (PTY) LTD. OF **UNIT B ZANTE PARK, 237 LUIPAARD STREET, BOLTONIA, KRUGERSDORP, 1739, SOUTH AFRICA** request permission to amend the specification of letters patent no**: 2016/08315** of **1 DECEMBER 2016** for **MINE SUPPORT BAG**

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: HERAEUS ELECTRO-NITE INTERNATIONAL N.V. OF CENTRUM ZUID 1105, 3530, HOUTHALEN, BELGIUM request permission to amend the specification of letters patent no**: 2022/01223** of **26 JANUARY 2022** for **IMMERSION DEVICE FOR TEMPERATURE MEASUREMENT AND METHOD FOR POSITION DETECTION**

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: Opsidio, LLC P.O. Box 802, BRYN MAWR 19010, PA, USA. request permission to amend the specification of letters patent no: **2022/03272 of 18/03/2022** for **ANTI-STEM CELL FACTOR ANTIBODIES AND METHODS OF USE THEREOF**.

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: VIKING GENETICS FMBA Ebeltoftvej 16, Drastrup DK-8960 Randers SØ request permission to amend the specification of letters patent no: **2017/08552** of **15/12/2017** for **SYSTEM AND METHOD FOR IDENTIFICATION OF INDIVIDUAL ANIMALS BASED ON IMAGES OF THE BACK.**

A copy of the original specification on which the proposed amendment is indicated in red, is now available for public inspection at the Patent Office.

Any notice of opposition (on Patent Form 19) must be lodged at the Patent Office within two months from the date hereof.

Registrar of Patents

Applicant: UPL LTD Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA request permission to amend the specification of letters patent no: **2020/03267 of 01/06/2020 for NOVEL COMBINATIONS OF DEFOLIANTS.**

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: ORION CORPORATION Orionintie 1, FI-02200, Espoo request permission to amend the specification of letters patent no: **2012/02655** of **12/04/2012** for **ANDROGEN RECEPTOR MODULATING COMPOUNDS.**

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.

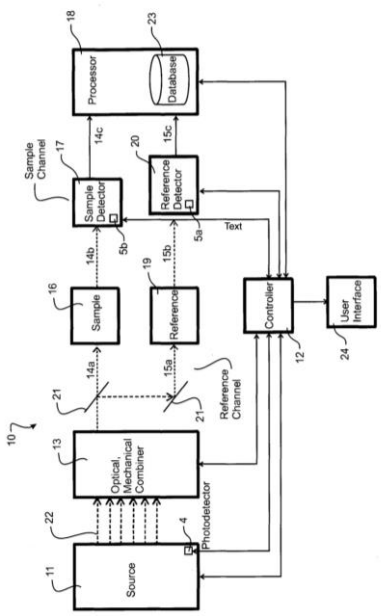
The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)**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

Registrar of Patents

21: 2011/00753. 22: 2011/01/28. 43: 2022/10/12
51: A61K; C07K
71: Zealand Pharma A/S
72: EBBEHØJ, Kirsten, LARSEN, Bjarne Due, PETERSEN, Yvette Miata
33: US 31: 60/678,066 32: 2005-05-04
54: GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES
00: -
GLP-2 analogues are disclosed which comprise one of more substitutions as compared to [hGly2]GLP-2 and which improved biological activity in vivo and/or improved chemical stability, e.g. as assessed in in vitro stability assays. More particularly, preferred GLP-2 analogues disclosed herein comprise substitutions at one or more of positions 8, 16, 24 and/or 28 of the wild-type GLP-2 sequence, optionally in combination with further substitutions at position 2 (as mentioned in the introduction) and one or more of positions 3, 5, 7, 10 and 11, and/or a deletion of one or more of amino acids 31 to 33 and/or the addition of a N-terminal or C-terminal stabilizing peptide sequence. The analogues are particularly useful for the prophylaxis or treatment of stomach and bowel-related disorders and for ameliorating side effects of chemotherapy.

21: 2013/04499. 22: 2013/06/19. 43: 2022/10/17
51: C12N
71: EVOGENE LTD
72: AYAL SHARON, KARCHI HAGAI, PORATY LIMOR, DANGOOR INBAL NURITH
33: US 31: 61/425.953 32: 2010-12-22
33: US 31: 61/487.749 32: 2011-05-19
54: ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES,AND METHODS OF USING SAME FOR IMPROVING PLANT PROPERTIES
00: -
Provided are isolated polynucleotides which are at least 80% homologous to SEQ ID NO: 320, 1-319, 321-473, 836-1652,1654-3221, 3225-3241, 3243-3630, 3632- 4176 or 4177; and isolated polypeptides which are at least 80 % homologous to SEQ ID NO: 760, 474-759, 761-770, 772-835 and 4178-4195, 4197-4213, 4215-4216, 4218- 5334, 5336-5522, 5524-5754, 5756-6215, 6217, 6220-6223, 6230, 6232, 6235-6607, 6609-6614, 6620-7129 or 7130, nucleic acid constructs comprising the isolated polynucleotides, transgenic plants expressing same and methods of using same for increasing abiotic stress tolerance, yield, biomass, growth rate, vigor, oil content, fiber yield, fiber quality, and/or nitrogen use efficiency of a plant.

21: 2013/08339. 22: 2013/11/06. 43: 2022/10/19
51: G01J
71: KLEIN MEDICAL LIMITED
72: KROUSE DONAL PAUL, SMITH BRYAN JAMES, SIMPKIN RAYMOND ANDREW
33: US 31: 61/472,290 32: 2011-04-06
54: SPECTROSCOPIC ANALYSER
00: -
An analyser (10) for identifying or verifying or otherwise characterising a liquid based drug sample (16) comprising: an electromagnetic radiation source (11) for emitting electromagnetic radiation (14a) in at least one beam at a sample (16), the electromagnetic radiation comprising at least two different wavelengths, a sample detector (17) that detects affected electromagnetic radiation resulting from the emitted electromagnetic radiation affected by the sample, and a processor (18) for identifying or verifying the sample from the detected affected electromagnetic radiation, wherein each wavelength or at least two of the wavelengths is between substantially 1300nm and 2000nm, and each wavelength or at least two of the wavelengths is in the vicinity of the wavelength(s) of (or within a region spanning) a spectral characteristic in the liquid spectrum between substantially 1300nm and 2000nm.

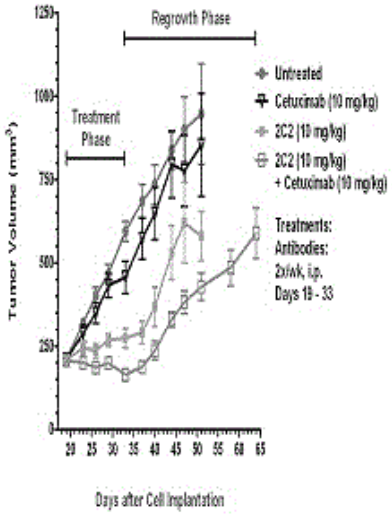


21: 2014/03570. 22: 2014/05/16. 43: 2022/10/05
51: C07K
71: MEDIMMUNE, LLC
72: CHOWDHURY, PARTHA S, TICE, DAVID, XIAO, ZHAN, STEINER, PHILIPP, KINNEER, KRISTA, REBELATTO, MARLON
33: US 31: 61/563,092 32: 2011-11-23
33: US 31: 61/722,558 32: 2012-11-05
33: US 31: 61/656,670 32: 2012-06-07

54: BINDING MOLECULES SPECIFIC FOR HER3 AND USES THEREOF

00: -

The present invention relates to antibodies and antigen binding fragments thereof that bind the extracellular domain of the HER3 receptor and inhibit various HER3 receptor related functions via ligand-dependent and/or ligand-independent mechanisms. Also provided are compositions with increased half-life. In addition, the invention provides compositions and methods for diagnosing and treating diseases associated with HER3 mediated signal transduction.



21: 2014/04593. 22: 2014/06/23. 43: 2022/10/05
51: C07K
71: GENENTECH, INC.
72: BILL JR, JEROME JOSEPH, BROWN, ARICK MICHAEL, DOWD, CHRISTOPHER JOHN, THAYER, BROOKE ELLEN
33: US 31: 61/579,285 32: 2011-12-22

54: ION EXCHANGE MEMBRANE CHROMATOGRAPHY

00: -

Methods of enhancing efficiency of downstream chromatography steps for purification of proteins comprising: (a) passing a composition comprising a polypeptide of interest and various contaminants through an ion exchange membrane, wherein the polypeptide and the membrane have opposite charge, at operating conditions comprised of a buffer having a pH sufficiently distinct from the pI of the polypeptide to enhance the charge of the polypeptide and a low ionic strength effective to prevent the shielding of charges by buffer ions, which cause the membrane to bind the polypeptide and at least one contaminant, (b) overloading the ion exchange membrane such that at least one contaminant remains bound to the membrane while the polypeptide of interest is primarily in the effluent; (c) collecting the effluent from the ion exchange membrane comprising the polypeptide of interest; (d) subjecting the membrane effluent comprising the polypeptide of interest to a purification step of similar charge as the previous membrane, and (e) recovering the purified polypeptide from the effluent

of the charged ion exchange chromatography purification step.

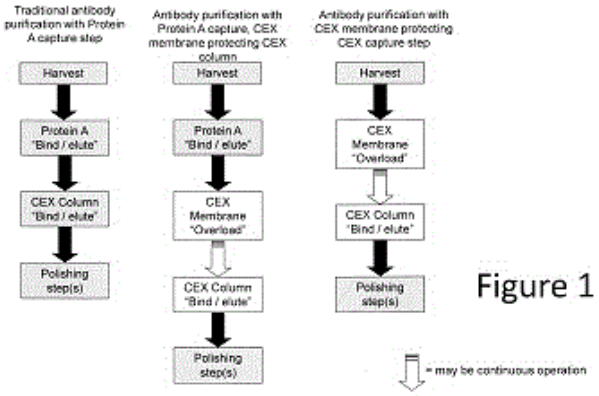
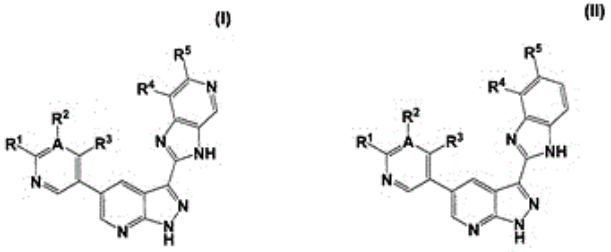


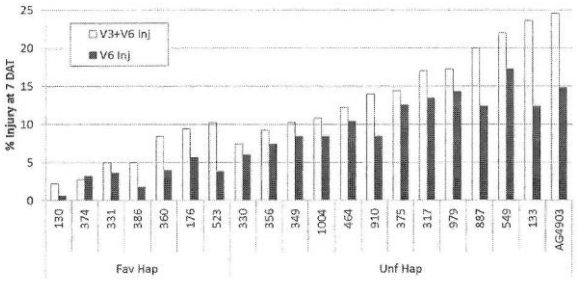
Figure 1

21: 2014/05511. 22: 2014/07/25. 43: 2022/10/05
51: A61K
71: BIOGEN MA INC.
72: GOLDMAN, DAVID, DAWSON, KATHERINE, NIRULA, AJAY
33: US 31: 61/596,202 32: 2012-02-07
33: US 31: 61/625,621 32: 2012-04-17
33: US 31: 61/723,048 32: 2012-11-06
54: PHARMACEUTICAL COMPOSITIONS CONTAINING DIMETHYL FUMARATE
00: -
Provided herein are compositions containing compounds, or pharmaceutically acceptable salts, that metabolize to monomethyl fumarate with certain pharmacokinetic parameters and methods for treating, prophylaxis, or amelioration of neurodegenerative diseases including multiple sclerosis using such compositions in a subject, wherein if the compositions contain dimethyl fumarate, the total amount of dimethyl fumarate in the compositions ranges from about 43% w/w to about 95% w/w.

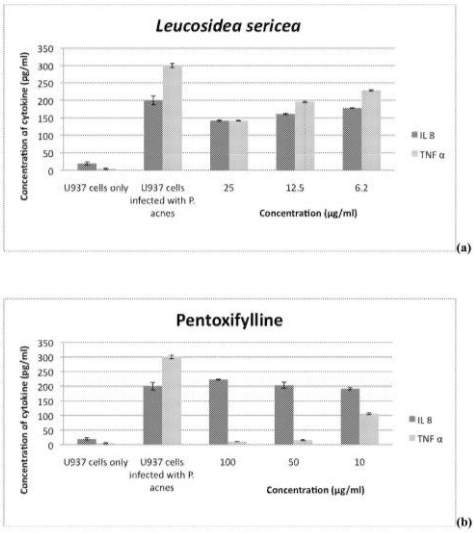
21: 2014/06274. 22: 2014/08/27. 43: 2022/10/10
51: A61K
71: SAMUMED, LLC
72: HOOD, JOHN, KC, SUNIL KUMAR, WALLACE, DAVID MARK
33: US 31: 61/642,915 32: 2012-05-04
54: 1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF
00: -
Provided herein are compounds according to Formulas (I) or (II) and pharmaceutically acceptable salts thereof, and compositions comprising the same, for use in various methods, including treating cancer, abnormal cellular proliferation, angiogenesis, Alzheimer's disease, lung disease, osteoarthritis, idiopathic pulmonary fibrosis and neurological conditions/disorders/diseases. Formula (I) and (II).



21: 2014/08587. 22: 2014/11/12. 43: 2022/11/23
51: A01H; C12N
71: MONSATO TECHNOLOGY LLC
72: DEVRIES GELDER, MINDY L., FENG, PAUL, GILSINGER, JESSE J., HANCOCK, FLOYD G., HUSIC, IVAN, NARVEL, JAMES, SCHERDER, CURTIS W., ULBRICH, DEAN A.
33: US 31: 61/650,869 32: 2012-05-23
33: US 31: 61/650,852 32: 2012-05-23
33: US 31: 61/753,725 32: 2013-01-17
33: US 31: 61/753,693 32: 2013-01-17
33: US 31: 61/779,739 32: 2013-03-13
54: HAPLOTYPES ASSOCIATED WITH IMPROVED STACKED TRAIT PERFORMANCE IN TRANSGENIC PLANTS
00: -
The present invention provides methods and compositions for the identification and selection of loci modulating phenotypic expression of an herbicide tolerance trait in plant breeding. In addition, methods are provided for screening germplasm entries for the performance and expression of this trait.



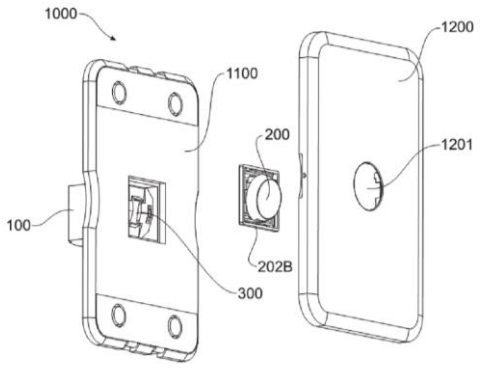
21: 2015/01022. 22: 2015/02/13. 43: 2022/10/19
51: A61K; A61P
71: UNIVERSITY OF PRETORIA
72: SHARMA, Richa, LALL, Namrita, HUSSEIN, Ahmed, KISHORE, Navneet, MOODLEY, Indhrasen
33: ZA 31: 2012/03221 32: 2012-08-02
54: SKIN CARE
00: -
The invention relates to skin care. In particular to a method for preparing a plant extract having Propionibacterium acnes inhibitory activity and skin hydration capability, the method includes the steps of exposing plant material obtained from a Leucosidea sericea plant to a solvent to render an extraction solution and removing the plant material from the extraction solution thereby recovering an extract having Propionibacterium acnes inhibitory activity.



21: 2015/04597. 22: 2015/06/25. 43: 2022/10/05
51: C23C; C09D; B05D
71: CHEMETALL GMBH
72: WASSERFALLEN, DANIEL, SCHWAMB, MICHAEL, FRENKEL, ALIAKSANDR, SOTKE, VERA, BREMSER, WOLFGANG, DROLL, MARTIN, SEEWALD, OLIVER, EILINGHOFF, RON, GEROLD, STEPHANIE, NIESEN, EVGENIJA, SCHACHTSIEK, LARS, TRAUT, MANUEL
33: DE 31: 10 2012 221 520.4 32: 2012-11-26
54: METHOD FOR COATING METALLIC SURFACES OF SUBSTRATES, AND OBJECTS COATED ACCORDING TO SAID METHOD
00: -
The invention relates to a method for coating surfaces, to a corresponding coating, and to the use of the objects coated according to said method. According to the invention, this is achieved by a method for coating metal surfaces of substrates, having the following steps or consisting of the following steps: I. providing a substrate with a cleaned metal surface, II. contacting and coating metal surfaces with an aqueous composition in the form of a dispersion and/or a suspension, III. optionally rinsing the organic coating, and IV. drying and/or baking the organic coating or V. optionally drying the organic coating and coating same with a similar or another coating composition prior to drying and/or baking. The invention is characterized in that the coating process in step II is carried out using an aqueous composition in the form of a dispersion and/or a suspension, said composition containing a complex fluoride selected from the group consisting of hexa- or tetrafluorides of the elements titanium, zirconium, hafnium, silicon, aluminum, and/or boron in a quantity of 1.110 - 6 mol/l to 0.30 mol/l based on the cations, wherein at least one anionic polyelectrolyte, in a quantity of 0.01 to 5.0 wt.% based on the total mass of the resulting mixture, is added to an anionically stabilized dispersion made of film-forming polymers and/or a suspension made of film-forming inorganic particles with a solids content of 2 to 40 wt.% and an average particle size of 10 to 1000 nm, said dispersion and/or suspension being stable in the pH value range of 0.5 to 7.0. The aqueous composition has a pH value ranging from 0.5 to 7.0 and forms a coating based on an ionogenic gel which binds cations released from the metal surface, said cations originating from a pretreatment stage and/or from the contacting process in step II.

21: 2015/09299. 22: 2015/12/22. 43: 2022/10/17
51: H01H
71: SCHNEIDER ELECTRIC (AUSTRALIA) PTY LIMITED
72: SHAN, Fuhua
33: AU 31: 2014905203 32: 2014-12-22
33: AU 31: 2014905209 32: 2014-12-22
33: AU 31: 2014905210 32: 2014-12-22
33: AU 31: 2014905211 32: 2014-12-22
33: AU 31: 2014905212 32: 2014-12-22
33: AU 31: 2014905213 32: 2014-12-22
54: SWITCH ASSEMBLY WITH ROTATABLE OPERATIONAL PART
00: -

Disclosed is a switch assembly, a carrier for a driver in the switch assembly, an operational part, a cover unit, and a method for rotating an operational part of the switch assembly, in which an installation angle or orientation of the switch assembly can be easily changed. In one aspect, the switch assembly is provided by a functional part and an operational part with an interface for interfacing between the operational part and the functional part. In another aspect, the operational part is designed to be operable to change its installing angle with respect to the cover unit or plate in a plane parallel to the cover unit or plate.

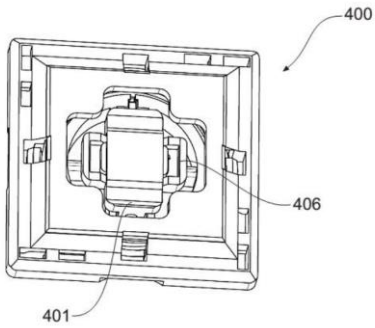


21: 2015/09300. 22: 2015/12/22. 43: 2022/10/17
51: H01H
71: SCHNEIDER ELECTRIC (AUSTRALIA) PTY LIMITED
72: SHAN, Fuhua
33: AU 31: 2014905213 32: 2014-12-22
33: AU 31: 2014905203 32: 2014-12-22
33: AU 31: 2014905209 32: 2014-12-22
33: AU 31: 2014905210 32: 2014-12-22
33: AU 31: 2014905211 32: 2014-12-22
33: AU 31: 2014905212 32: 2014-12-22

54: PUSH-BUTTON SWITCH ASSEMBLY, AND OPERATIONAL PART

00: -

The present application discloses a push-button switch assembly and an operational part used in a push-button switch assembly. The push-button switch assembly comprises: a functional part; an operational part for actuation by a user and for controlling the functional part via an interface between the operational part and the functional part, wherein the interface in use, translates linear force imparted by the operational part when actuated by the user, to rocking force applied to the functional part. The operational part is configured to apply the linear force to the interface when the operational part is in any one of at least two different orientations with respect to the interface. This allows the orientation of the operational part to be changed without the user having to correspondingly change the orientation of the interface and functional part.

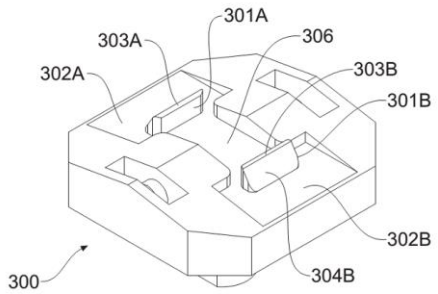


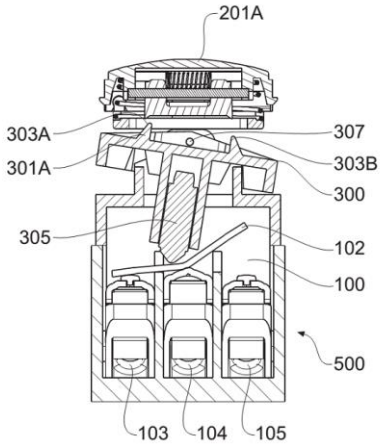
21: 2015/09303. 22: 2015/12/22. 43: 2022/10/17
51: H01H
71: SCHNEIDER ELECTRIC (AUSTRALIA) PTY LIMITED
72: SHAN, Fuhua
33: AU 31: 2014905209 32: 2014-12-22
33: AU 31: 2014905203 32: 2014-12-22
33: AU 31: 2014905210 32: 2014-12-22
33: AU 31: 2014905211 32: 2014-12-22
33: AU 31: 2014905212 32: 2014-12-22
33: AU 31: 2014905213 32: 2014-12-22

54: SWITCH ASSEMBLY, SYSTEM AND METHOD

00: -

Disclosed is a switch assembly, an interface, a switch sub-assembly, a method of forming a switch assembly and a method for replacing an operational part with an operational part of a different type. The switch assembly comprises a functional part; an operational part for actuation by a user and for controlling the functional part; and an interface for interfacing the functional part and the operational part; wherein the operational part is not fixed to the interface or to the functional part.





21: 2016/00312. 22: 2016/01/14. 43: 2022/11/21
51: A61K; A61P
71: SOM INNOVATION BIOTECH S.A.
72: GAVALDÀ BATALLA, Núria, INSA BORONAT, Raúl, REIG BOLAÑO, Núria
33: EP 31: 13382230.4 32: 2013-06-19
54: THERAPEUTIC AGENTS FOR USE IN THE PROPHYLAXIS AND/OR TREATMENT OF HYPERKINETIC MOVEMENT DISORDERS
00: -
The present invention relates to the use of (RS)-[2-(3,4-dimethoxyphenyl)ethyl][2-hydroxy-3-(3-methylphenoxy)propyl]amine having the formula (IA), or a pharmaceutically acceptable salt thereof for the formulation of a pharmaceutical composition,useful for the prophylaxis and/or the treatment of hyperkinetic movement disorders associated with Huntington's disease, Wilson's disease, Tourette syndrome, restless leg syndrome, and tardive dyskinesia.

21: 2016/02151. 22: 2016/03/31. 43: 2022/10/06
51: A61K
71: CELULARITY INC.
72: GURNEY, JODI P, ZHANG, XIAOKUI, HERB, STACY, HARIRI, ROBERT J
33: US 31: 61/886,648 32: 2013-10-03
33: US 31: 61/890,057 32: 2013-10-11
54: THERAPY WITH CELLS FROM HUMAN PLACENTA AND HEMATOPOIETIC CELLS
00: -
Provided herein are methods of treatment comprising administering to a subject, e.g., a human subject, mononuclear cells from human placental perfusate and hematopoietic cells, and compositions comprising them, and their uses to establish chimerism, engraft tissue (e.g., blood), reduce the severity or duration of graft versus host disease, and treat or ameliorate symptoms of metabolic disorders and hematologic disorders, such as hematologic malignancies.

21: 2016/03160. 22: 2016/05/11. 43: 2022/10/19
51: A01N
71: BASF AGROCHEMICAL PRODUCTS, B.V.
72: SIKULJAK, Tatjana, GEWEHR, Markus, MENON, Anil
33: US 31: 61/892,502 32: 2013-10-18
33: US 31: 61/906,441 32: 2013-11-20
54: USE OF PESTICIDAL ACTIVE CARBOXAMIDE DERIVATIVE IN SOIL AND SEED APPLICATION AND TREATMENT METHODS
00: -
The present invention relates to agricultural methods and the use of an insecticidal active carboxamide derivative in seed treatment and soil application methods. The insecticidal carboxamide derivative is highly suitable alone or in combination with other active agricultural ingredients for controlling animal pests such as insects and/or spider mites and/or nematodes by treating the soil/growth substrate by drenching or drip application or dipping or soil injection.

21: 2016/03211. 22: 2016/05/12. 43: 2022/10/19
51: A01N A01P
71: BASF AGROCHEMICAL PRODUCTS, B.V.
72: SIKULJAK, Tatjana, GEWEHR, Markus
33: US 31: 61/892504 32: 2013-10-18
33: US 31: 61/906438 32: 2013-11-20
54: INSECTICIDAL ACTIVE MIXTURES COMPRISING CARBOXAMIDE COMPOUND
00: -

Pesticidal active mixtures comprising carboxamide compound The present invention relates to pesticidal mixtures comprising as active compound I an insecticidal active carboxamide derivative and at least one active compound II selected from a group M comprising acteylcholine esterase inhibitors, GABA-gated chloride channel antagonists, sodium channel modulators, nicotinic acteylcholine receptor agonists/antagonists, allosteric nicotinic acetylcholine receptor activitaors, chloride channel activators, juvenile hormone mimics, homop-teran feeding blockers, mit grow inhibitors, inhibitors of mitochondrial ATP synthase, uncouplers of the oxidative phosphorylation, inhibitors of the chitin biosynthesis, moulting disruptors, ecdy-son receptor agonists, octamin receptor agonists, inhibitors of the MET, voltage-dependent sodium channel blockers, inhibitors of the lipid synthesis and ryanodine receptor modulators in synergistically effective amounts. The invention relates further to methods and use of these mixtures for combating and controlling insects, arachnids or nematodes in and on plants, and for protecting such plants being infested with pests, especially also for protecting plant proparagation material, such as seeds.

21: 2016/03213. 22: 2016/05/12. 43: 2022/10/19
51: A01N A01P
71: BASF AGROCHEMICAL PRODUCTS, B.V.
72: GEWEHR, Markus, SIKULJAK, Tatjana
33: US 31: 61/892,511 32: 2013-10-18
33: US 31: 61/906,440 32: 2013-11-20
54: AGRICULTURAL MIXTURES COMPRISING CARBOXAMIDE COMPOUND
00: -
The present invention relates to agricultural mixtures comprising as active compound I a pesticidal active carboxamide and at least one fungicidal active compound II selected from azoles, strobilurins, carboxamides, carbamates, heterocyclic and various other compounds, in synergistically effective amounts. The invention relates further to methods and use of these mixtures for combating insects, arachnids or nematodes and harmful fungis in and on plants, and for protecting such plants being infested with pests, especially also for protecting seeds.

21: 2016/04740. 22: 2016/07/11. 43: 2022/11/23
51: C07K; A61P
71: NOVARTIS AG, IMMUTEP S.A.S
72: TRIEBEL, Frederic, BRIGNONE, Chrystelle, BLATTLER, Walter, A., MATARAZA, Jennifer, Marie, SABATOS-PEYTON, Catherine, Anne, CHANG, Hwai, Wen, FREY, Gerhard, Johann
33: US 31: 61/953,536 32: 2014-03-14
33: US 31: 62/059,690 32: 2014-10-03
33: US 31: 62/094,889 32: 2014-12-19
54: ANTIBODY MOLECULES TO LAG-3 AND USES THEREOF
00: -
Antibody molecules that specifically bind to LAG-3 are disclosed. The anti-LAG-3 antibody molecules can be used to treat, prevent and/or diagnose cancerous or infectious disorders.

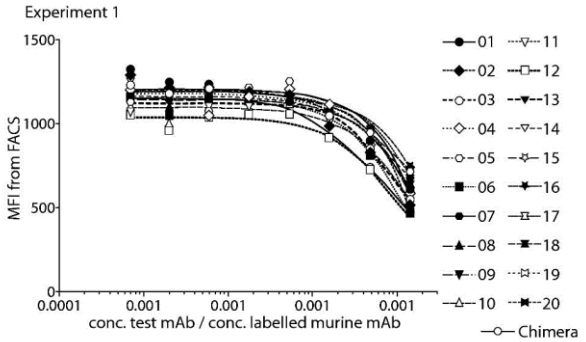
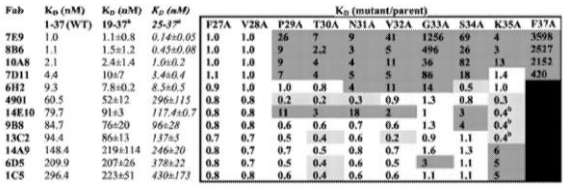


FIGURE 5A

21: 2016/05424. 22: 2016/08/02. 43: 2022/11/16
51: A61K; C07D; A61P
71: EXELIXIS, INC.
72: AFTAB, Dana, T., GUZ, Nathan, LAU, Stephen, HAMILL, Noel, WALKER, Tracy, GALBRAITH, Jana, YAU, Simon, SHAH, Khalid
33: US 31: 61/939,985 32: 2014-02-14
54: CRYSTALLINE SOLID FORMS OF N-{4-[(6,7-DIMETHOXYQUINOLIN-4-YL)OXY]PHENYL}-N'-(4-FLUOROPHENYL) CYCLOPROPANE-1, 1-DICARBOXAMIDE, PROCESSES FOR MAKING, AND METHODS OF USE
00: -
The invention relates to novel crystalline solid forms of the chemical compound N- {4-[(6,7-dimethoxyquinolin-4-yl)oxy]phenyl } -N'-(4-fluorophenyl) cyclopropane-1,1- dicarboxamide (Compound 1), and solvates thereof, including hydrates, that are useful for the treatment of cancer. Also disclosed are pharmaceutical compositions comprising the crystalline solid forms and processes for making the crystalline solid forms, as well as methods of using them for the treatment of cancer,

particularly thyroid cancer, prostate cancer, hepatocellular cancer, renal cancer, and non-small cell lung carcinoma. The crystalline solid forms can be used to make the L-malate salt of cabozantinib.

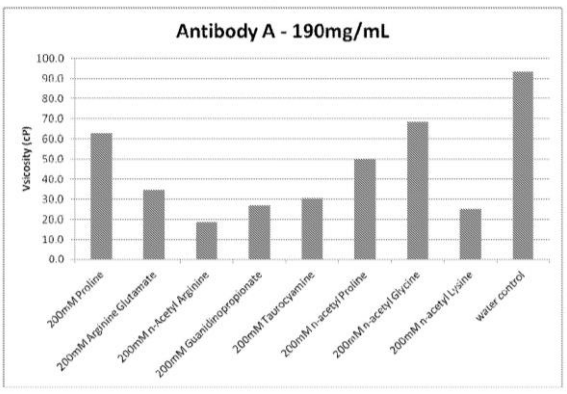
21: 2016/06745. 22: 2016/09/29. 43: 2022/11/23
51: A61K
71: Teva Pharmaceuticals International GmbH
72: BIGAL, Marcelo, WALTER, Sarah, STERN, Henry, CHANG, Michael
33: US 31: 61/968,897 32: 2014-03-21
33: US 31: 62/083,809 32: 2014-11-24
33: US 31: 62/119,778 32: 2015-02-23
54: ANTAGONIST ANTIBODIES DIRECTED AGAINST CALCITONIN GENE-RELATED PEPTIDE AND METHODS USING SAME
00: -
The invention features methods for preventing or treating CGRP associated disorders such as vasomotor symptoms and/or headaches (e.g., migraine, cluster headache, and tension headache) by administering an anti-CGRP antagonist antibody. Compositions for use in the disclosed methods are also provided. Antagonist antibody G1 and antibodies derived from G1 directed to CGRP are also described.



Fab	K_D (nM)	K_D (nM)	K_D (nM)	K_D (mutant/parent)								
	1-37 (WT)	19-37[a]	25-37[a]	F27A	V28A	P29A	T30A	N31A	V32A	G33A	S34A	K35A	F37A
7E9	1.0	1.1±0.8	*0.14±0.05*	1.0	1.0	26	7	9	41	1256	69	4	3598
8B6	1.1	1.5±1.2	*0.45±0.08*	1.0	1.0	9	2.2	3	5	496	26	3	2827
10A8	2.1	2.4±1.4	*1.0±0.2*	1.0	1.0	9	4	4	11	36	82	13	2152
7D11	4.4	10±7	*3.4±0.4*	1.1	1.0	7	4	5	5	86	18	1.4	420
6H2	9.3	7.8±0.2	*8.5±0.5*	0.9	1.0	1.0	0.8	4	11	14	0.5	1.0	
4901	60.5	52±12	*296±115*	0.8	0.8	0.2	0.2	0.3	0.9	1.3	0.8	0.3	
14E10	79.7	91±3	*117.4±0.7*	0.8	0.8	11	3	18	2	1	3	0.4[b]	
9B8	84.7	76±20	*96±28*	0.8	0.8	0.6	0.6	0.7	0.6	1.3	4	0.4[b]	
13C2	94.4	86±13	*137±5*	0.7	0.7	0.5	0.4	0.6	0.2	0.9	1.1	0.4[b]	
14A9	148.4	219±114	*246±20*	0.8	0.7	0.7	0.5	0.8	0.7	1.6	1.3	6	
6D5	209.9	207±26	*378±22*	0.8	0.7	0.5	0.4	0.6	0.5	3	1.1	5	
1C5	296.4	223±51	*430±173*	0.8	0.8	0.6	0.4	0.6	0.6	1.1	1.1	5	

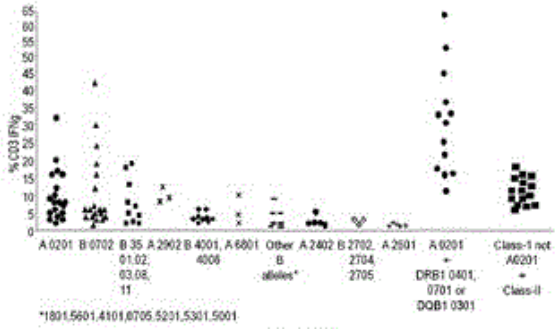
21: 2017/00672. 22: 2017/01/26. 43: 2022/10/24
51: A61K; C07D; A61P
71: NUEVOLUTION A/S
72: SCHRØDER GLAD, Sanne, BIRKEBÆK JENSEN, Kim, GRØN NØRAGER, Niels, SARVARY, Ian, VESTERGAARD, Mikkel, HAAHR GOULIAEV, Alex, TEUBER, Lene, STASI, Luigi Piero
33: SE 31: 1450920-2 32: 2014-08-04
33: SE 31: 1451406-1 32: 2014-11-21
54: OPTIONALLY FUSED HETEROCYCLYL-SUBSTITUTED DERIVATIVES OF PYRIMIDINE USEFUL FOR THE TREATMENT OF INFLAMMATORY, METABOLIC, ONCOLOGIC AND AUTOIMMUNE DISEASES
00: -
Disclosed are compounds active towards nuclear receptors, pharmaceutical compositions containing the compounds and use of the compounds in therapy.

21: 2017/02762. 22: 2017/04/19. 43: 2022/10/10
51: A61K
71: Amgen Inc.
72: SLOEY, Christopher James, KANAPURAM, Sekhar
33: US 31: 62/067,637 32: 2014-10-23
54: REDUCING VISCOSITY OF PHARMACEUTICAL FORMULATIONS
00: -
A method for reducing the viscosity of a pharmaceutical formulation is provided that utilizes a viscosity-reducing concentration of an excipientselected from the group consisting of the n-acetyl arginine, n-acetyl lysine, n-acetyl proline and mixtures thereof in combination with a therapeutiv protein. A stable pharmaceutical formulation is also provided.

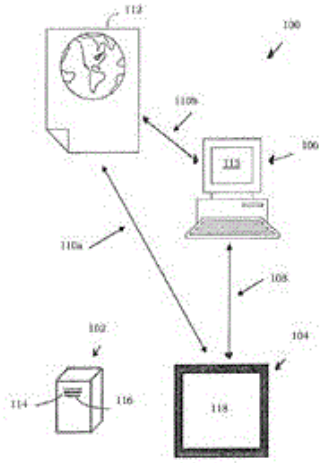


21: 2017/03083. 22: 2017/05/04. 43: 2022/10/05
51: A61K; C12N; G01N
71: MEMORIAL SLOAN KETTERING CANCER CENTER
72: O'REILLY, RICHARD J, DOUBROVINA, EKATERINA, KOEHNE, GUENTHER, HASAN, AISHA N, PROCKOP, SUSAN E
33: US 31: 62/075,856 32: 2014-11-05
54: METHODS OF SELECTING T CELL LINE AND DONOR THEREOF FOR ADOPTIVE CELLULAR THERAPY
00: -
Disclosed herein are methods of selecting an allogeneic T cell line for therapeutic administration to a patient having or suspected of having a pathogen

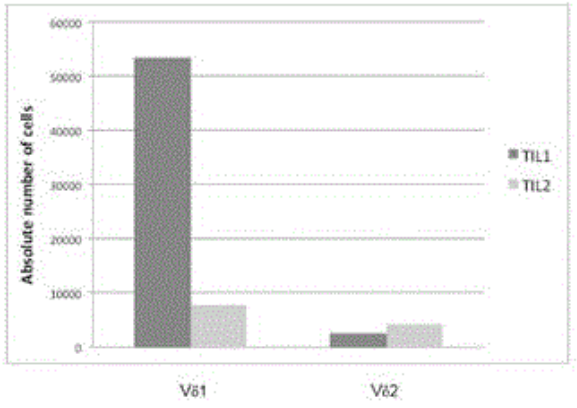
or cancer. Also disclosed are methods of selecting a donor from whom to derive an allogeneic T cell line for therapeutic administration to a patient having or suspected of having a pathogen or cancer.



21: 2017/03350. 22: 2017/05/15. 43: 2022/10/05
51: G06K
71: ALTRIA CLIENT SERVICES LLC
72: CADIEUX, EDMOND J, HARRUP, KEVIN
33: US 31: 62/076,118 32: 2014-11-06
54: METHODS AND PRODUCTS FOR PRODUCT TRACING AND AUTHENTICATION USING CONDUCTIVE INKS
00: -
Example embodiments of a product authentication method may include triggering a first authentication process in response to sensing a conductive ink in proximity to a computing device having a set of sensors and performing a second authentication process. The first authentication process may include initiating an application on the computing device when the set of sensors senses the conductive ink. And the second authentication process may be performed by the application on the computing device and may include sending a code to a remote server and receiving a validity determination from the remote server.



21: 2017/03505. 22: 2017/05/22. 43: 2022/10/05
51: A61K
71: ADICET BIO, INC.
72: JAKOBOVITS, AYA, FOORD, ORIT, LIN, ANDY AN-DEH, SANTAGUIDA, MARIANNE THERESA
33: US 31: 62/080,500 32: 2014-11-17
54: ENGINEERED GAMMA DELTA T-CELLS
00: -
The present invention relates to engineered γδ T-cell(s) and methods for using the same as a therapeutic with a potent and selective ability to target an antigen of choice. Engineered γδ T-cells of the disclosure are useful in the treatment of various cancers, infectious diseases, and immune disorders. Also disclosed are methods for expanding engineered and non-engineered γδ T-cell(s) populations to therapeutically useful quantities. An engineered γδ T-cell of the disclosure can be a universal donor, and can be administered to a subject with any MHC haplotype.



21: 2017/04157. 22: 2017/06/19. 43: 2022/10/19
51: A61L C07C A23C A61K A01N
71: ECOLAB USA INC.
72: LI, Junzhong, BREWSTER, Allison, STAUB, Richard, LANGE, Steven, J., CHERITU, Tizazu, FAST, Jonathan, P., HANSON, Catherine
33: US 31: 62/094,048 32: 2014-12-18
54: GENERATION OF PEROXYFORMIC ACID THROUGH POLYHYDRIC ALCOHOL FORMATE
00: -
The present invention relates generally to peroxyformic acid forming compositions, methods for forming peroxyformic acid, preferably in situ, using the peroxyformic acid forming compositions. The present invention also relates to the peroxyformic acid formed by the above compositions and methods. The present invention further relates to the uses of the peroxyformic acid, preferably in situ, for treating a surface or a target. The present invention further relates to methods for treating a biofilm using peroxyformic acid, including peroxyformic acid generated in situ.

21: 2017/04977. 22: 2017/07/21. 43: 2022/10/10
51: A61K
71: Temple University - of The Commonwealth System of Higher Education, REIS, Helena M.G.P.V.
72: FEITELSON, Mark A., REIS, Helena M.G.P.V.
33: US 31: 62/106,778 32: 2015-01-23
54: USE OF SHORT CHAIN FATTY ACIDS IN CANCER PREVENTION
00: -
The invention relates to compositions for preventing or delaying the onset of hepatocellular cancer. The compositions of the invention may comprise short chain fatty acids. The compositions of the invention may also comprise probiotic bacteria. The compositions of the invention include compositions for preventing or delaying the onset of hepatocellular cancer by treating or preventing liver inflammation, liver disease, and precancerous lesions.

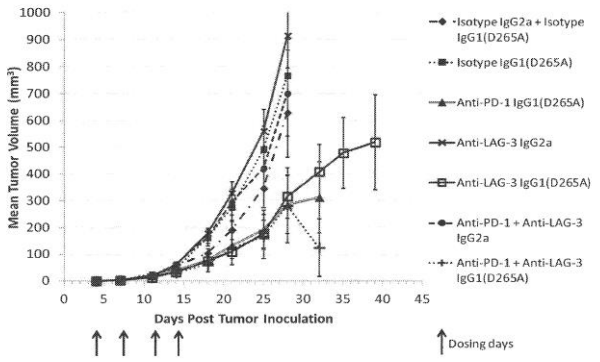
Liver pathology in HBx mice treated with Symbiotic 2000 from mo. 3-6.

PBS						Symbiotic 2000					
mouse no.	NSL	CH	stea-tosis	dys-plasia	HCC	mouse no.	NSL	CH	stea-tosis	dys-plasia	HCC
668	+	-	-	-	-	687	+	-	-	-	-
673	+	-	-	-	-	689	+	-	-	-	-
669	-	+	-	-	-	657	+	-	-	-	-
671	-	+	-	-	-	659	+	-	-	-	-
675	-	+	-	-	-	672	+	-	-	-	-
708	-	+	-	-	-	676	-	+	-	-	-
712	-	+	-	-	-	684	+	-	-	-	-
713	+	-	-	-	-	693	-	+	-	-	-
714	-	-	+	-	-	701	-	+	-	-	-
715	+	-	-	-	-	704	-	+	-	-	-
totals	4	5	1	0	0		6	4	0	0	0
%:	40	50	10	0	0		60	40	0	0	0

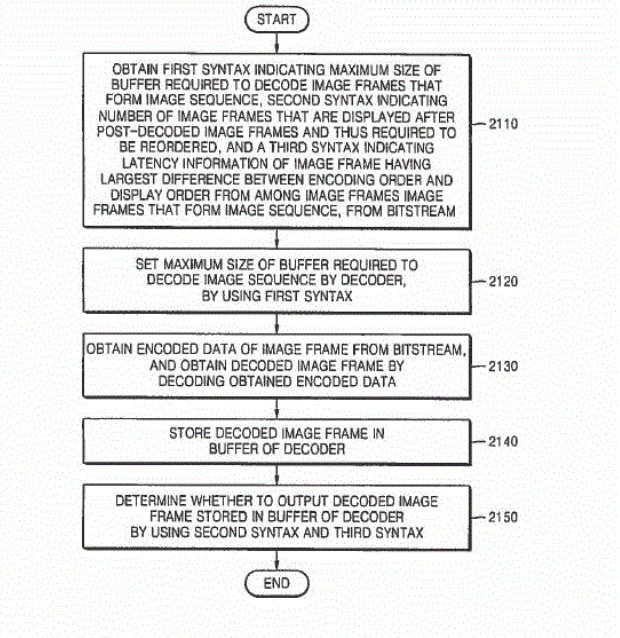
NSL = no significant lesions, CH = chronic hepatitis, Steatosis = fatty liver; dysplasia = islands or nodules of dysplastic cells (large nuclear:cytoplasmic ratio), HCC = hepatocellular carcinoma.

21: 2017/05303. 22: 2017/08/04. 43: 2022/11/16
51: A61K; C07K
71: ANAPTYSBIO, INC.
72: JUN, Helen Toni, KEHRY, Marilyn, BOWERS, Peter, KING, David J.
33: US 31: 62/111,486 32: 2015-02-03
54: ANTIBODIES DIRECTED AGAINST LYMPHOCYTE ACTIVATION GENE 3 (LAG-3)
00: -
The invention relates to an isolated immunoglobulin heavy chain polypeptide and an isolated immunoglobulin light chain polypeptide that bind to a protein encoded by the Lymphocyte Activation Gene-3 (LAG-3). The invention provides a LAG-3-binding agent that comprises the aforementioned immunoglobulin heavy chain polypeptide and immunoglobulin light chain polypeptide. The invention also provides related vectors, compositions, and methods of using the LAG-3-binding agent to treat a disorder or disease that is responsive to LAG-3 inhibition, such as cancer or an infectious disease.

Fig. 1A



21: 2017/06410. 22: 2017/09/22. 43: 2022/10/17
51: H04N
71: Samsung Electronics Co., Ltd.
72: PARK, Young-o, KIM, Chan-yul, CHOI, Kwang-pyo, PARK, Jeong-hoon
33: US 31: 61/563,678 32: 2011-11-25
54: IMAGE DECODING APPARATUS
00: -
The present invention relates to an image coding method and device for buffer management of a decoder, and an image decoding method and device. The image coding method according to the present invention: determines the maximum size of a buffer required for decoding each image frame in a decoder and the number of image frames requiring realignment, and latency information on an image frame which has the greatest difference between a decoding order and a display order among image frames forming an image sequence, based on the decoding order of each image frame of a coded image sequence, a decoding order of a reference frame that each image frame refers to, the display order of each image frame and a display order of the reference frame; and adds a first syntax representing the maximum size of a buffer, a second syntax representing the number of image frames requiring realignment, and a third syntax representing latency information to a set of essential sequence parameters that is a set of information related to the coding of an image sequence.



21: 2017/06915. 22: 2017/10/12. 43: 2022/11/21
51: C08B; C12N; C12P; C13K; D21C
71: COMET BIOREFINING INC.
72: RICHARD, Andrew, D'AGOSTINO, Dennis
33: US 31: 62/145,785 32: 2015-04-10
33: US 31: 62/246,271 32: 2015-10-26
54: METHODS AND COMPOSITIONS FOR THE TREATMENT OF CELLULOSIC BIOMASS AND PRODUCTS PRODUCED THEREBY
00: -
A two-step method for activating a cellulosic feedstock is described. The feedstock is subjected to a first high temperature activation step at a temperature greater than 190°C and a second activation step at a lower temperature under alkali conditions. Also described are methods and compositions for the enzymatic hydrolysis of activated cellulose using one or more cellulase enzymes, a surfactant and polyaspartic acid. Also described are products of the methods.

21: 2017/07217. 22: 2017/10/24. 43: 2022/10/19
51: H04J H04L
71: APPLE INC.
72: HUANG, Lei, SIM, Hong Cheng Michael, SAKAMOTO, Takenori
33: JP 31: 2015-113063 32: 2015-06-03
54: TRANSMISSION APPARATUS AND TRANSMISSION METHOD OF AN AGGREGATE PHYSICAL LAYER PROTOCOL DATA UNIT
00: -

This transmission device comprises: a transmission signal generator that generates a transmission signal having an aggregate physical layer protocol data unit (aggregate PPDU) including a legacy preamble, a legacy header, a non-legacy preamble, a plurality of non-legacy headers, and a plurality of data fields; and a transmitter that transmits the generated transmission signal, wherein the legacy preamble, the legacy header, and the plurality of non-legacy headers are transmitted using a standard bandwidth, while the non-legacy preamble and the plurality of data fields are transmitted using a variable bandwidth greater than or equal to the standard bandwidth, and a plurality of sets of the non-legacy headers and the data fields corresponding thereto are sequentially transmitted in a time domain.

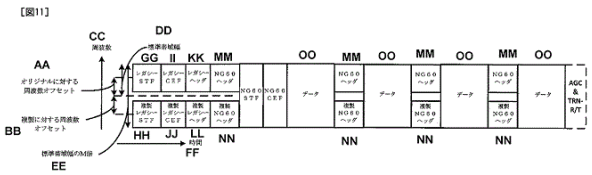


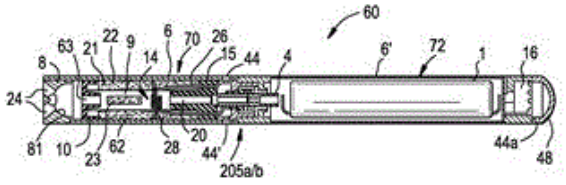
FIG. 11:
AA Frequency offset for original
BB Frequency offset for duplicate
CC Frequency
DD Standard bandwidth
EE M times greater than standard bandwidth
FF Time
GG Legacy STF
HH Duplicated legacy STF
II Legacy CEF
JJ Duplicated legacy CEF
KK Legacy header
LL Duplicated legacy header
MM NG60 header
NN Duplicated NG60 header
OO Data

21: 2017/07445. 22: 2017/11/02. 43: 2022/10/05
51: A61M; A24F
71: ALTRIA CLIENT SERVICES LLC
72: LI, SAN, OLEGARIO, RAQUEL, JUPE, RICHARD, TUCKER, CHRISTOPHER S, SMITH, BARRY S, CADIEUX, EDMOND J, BENNETT, DAVID, KARLES, GEORGIOS D, RAGLAND, BEN
33: US 31: 62/157,496 32: 2015-05-06
33: US 31: 62/260,793 32: 2015-11-30
33: US 31: 62/260,761 32: 2015-11-30

54: NON-COMBUSTIBLE SMOKING DEVICE AND ELEMENTS THEREOF

00: -

A non-combustible smoking element (60) including a pre-vapor formulation reservoir element (22) configured to contain a pre-vapor formulation material, a pre-vapor heating element (14) coupled to the pre-vapor formulation reservoir element and configured to heat at least a portion of the pre-vapor formulation material into a vapor and provide the vapor to a channel (9), a tobacco heating element (14) configured to heat at least a portion of tobacco and generate an aroma and a tobacco housing configured to contain the tobacco and provide the aroma to the channel.



21: 2017/08412. 22: 2017/12/12. 43: 2022/11/16
51: A61K
71: SAGE THERAPEUTICS, INC.
72: SALITURO, Francesco, G., ROBICHAUD, Albert, Jean, WATSON, Paul, HUNKE, William
33: US 31: 62/181,550 32: 2015-06-18

54: NEUROACTIVE STEROID SOLUTIONS AND THEIR METHODS OF USE

00: -

Provided herein are pharmaceutically acceptable aqueous solution comprising a neuroactive steroid, a sulfobutyl ether beta cyclodextrin and a buffer; wherein: the solution is a stable solution between a pH of about 3 and about 9, e.g., at room temperature, for at least 1, 2, 3, 4 weeks; 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months; 1, 2, 3 years or more; the buffer is present at a concentration of at least 0.1 mM; or the solution remains substantially free of impurities (e.g., the solution is substantially free of impurities at room temperature for at least 1, 2, 3, 4 weeks; 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 months; 1, 2, 3 years or more).

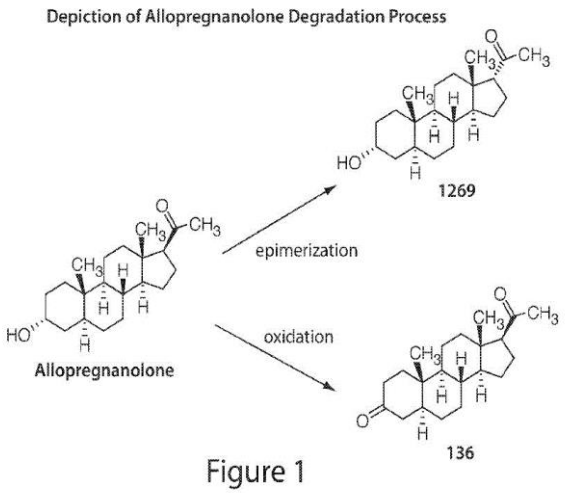
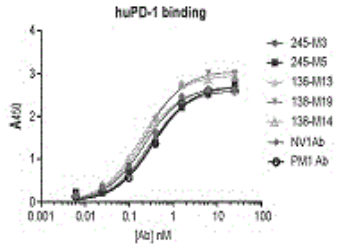
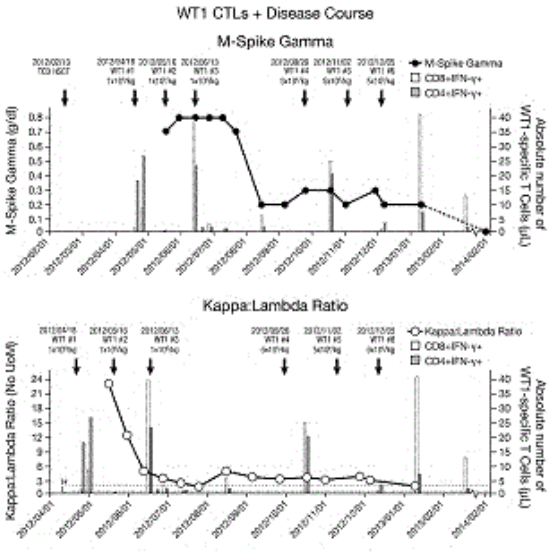


Figure 1

21: 2018/00692. 22: 2018/02/01. 43: 2022/10/11
51: C07K; A61K
71: CYTOMX THERAPEUTICS, INC.
72: TIPTON, KIMBERLY ANN, WEST, JAMES WILLIAM, CHAN, CHANTY MARIATEGUE
33: US 31: 62/205,825 32: 2015-08-17
33: US 31: 62/323,543 32: 2016-04-15
33: US 31: 62/333,629 32: 2016-05-09
33: US 31: 62/191,902 32: 2015-07-13
33: US 31: 62/295,314 32: 2016-02-15
54: ANTI-PD-1 ANTIBODIES, ACTIVATABLE ANTI-PD-1 ANTIBODIES, AND METHODS OF USE THEREOF
00: -
The invention relates generally to antibodies that specifically bind programmed cell death protein 1 (PD-1), activatable antibodies that specifically bind to PD-1 and methods of making and using these anti-PD-1 antibodies and anti-PD-1 activatable antibodies in a variety of therapeutic, diagnostic and prophylactic indications.



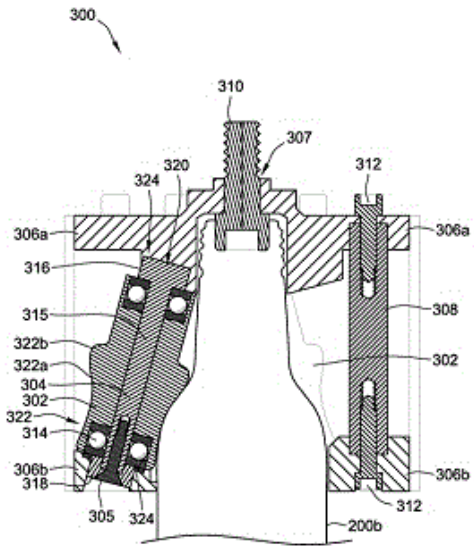
21: 2018/01656. 22: 2018/03/09. 43: 2022/10/05
51: A61K; A61P
71: MEMORIAL SLOAN KETTERING CANCER CENTER
72: KOEHNE, GUENTHER
33: US 31: 62/220,641 32: 2015-09-18
33: US 31: 62/216,525 32: 2015-09-10
54: METHODS OF TREATING MULTIPLE MYELOMA AND PLASMA CELL LEUKEMIA BY T CELL THERAPY
00: -
Disclosed herein are methods of treating multiple myeloma in a human patient in need thereof, comprising administering to the human patient a population of allogeneic cells comprising WT1-specific allogeneic T cells. Also disclosed herein are methods of treating plasma cell leukemia in a human patient in need thereof, comprising administering to the human patient a population of allogeneic cells comprising WT1-specific allogeneic T cells.



21: 2018/01673. 22: 2018/03/12. 43: 2022/10/10
51: C07K
71: REGENERON PHARMACEUTICALS, INC.
72: SMITH, Eric, HABER, Lauric, BABB, Robert, CHEN, Gang, MACDONALD, Douglas
33: US 31: 62/222,605 32: 2015-09-23
54: OPTIMIZED ANTI-CD3 BISPECIFIC ANTIBODIES AND USES THEREOF
00: -
The present invention provides antibodies that bind to CD3 with weak or no detectable binding affinity and methods of using the same. According to certain embodiments, the antibodies of the invention bind human CD3 with low affinity and induce human T cell proliferation and hence induce T cell-mediated killing of tumor cells with high efficacy. According to

certain embodiments, the present invention provides bispecific antigen-binding molecules comprising a first antigen-binding domain that specifically binds human CD3 with weak or no detectable binding affinity in an in vitro assay, and a second antigen-binding molecule that specifically binds human tumor-associated antigen. In certain embodiments, the bispecific antigen-binding molecules of the present invention are capable of inhibiting the growth of tumors expressing target antigen, such as PSMA. The antibodies and bispecific antigen-binding molecules of the invention are useful for the treatment of diseases and disorders in which an upregulated or induced targeted immune response is desired and/or therapeutically beneficial. For example, the antibodies of the invention are useful for the treatment of various cancers or other diseases where immunotherapy, i.e. effector cell immunomodulation is warranted.

21: 2018/01961. 22: 2018/03/23. 43: 2022/10/05
51: B21D
71: BELVAC PRODUCTION MACHINERY, INC.
72: GEARHART, BRIAN S, LOVE, ERIKA S, MEADOR, GERALD
33: US 31: 62/215,452 32: 2015-09-08
54: SMOOTHING ROLLER ASSEMBLY
00: -
A turret head assembly (300) for forming an article (200b) includes at least one smoothing roller (302). Each of the at least one smoothing roller (302) is rotatably mounted on a respective at least one roller support member (304). The turret head assembly (300) further includes an upper ring member (306a) and a lower ring member (306b). The upper (306a) and lower (306b) ring members include respective apertures located in the centers thereof. The at least one roller support member (304) extends between the upper ring member (306a) and the lower ring member (306b). The turret head assembly (300) further includes a turret head-assembly support member defining a turret-head axis (310). The turret-head-assembly member (310) extends through the respective apertures in the upper and lower ring members.



21: 2018/01962. 22: 2018/03/23. 43: 2022/10/05
51: B21D
71: BELVAC PRODUCTION MACHINERY, INC.
72: MEADOR, GERALD
33: US 31: 62/212,748 32: 2015-09-01
54: METHOD AND APPARATUS FOR CAN EXPANSION
00: -
An expansion tool (14) for expanding an article. The expansion tool (14) includes a lead-in portion (37) extending outwardly from a first end (32) of the expansion tool (14) and a first pilot portion (34) extending from the lead-in portion (37). The first pilot portion (34) has a first diameter. The expansion tool (14) further includes a second pilot portion (38) being generally parallel with the first pilot portion (34). The second pilot portion (38) has a second diameter larger than the first diameter. The expansion tool (14) further includes a forming portion (42) bridging the first pilot portion (34) and the second pilot portion (38). The forming portion (42) is generally sloped. The expansion tool (14) further includes an expansion portion (44) extending from the second pilot portion (38) toward a second end (45) of the expansion tool (14). The expansion portion (44) has a third diameter larger than the second diameter.

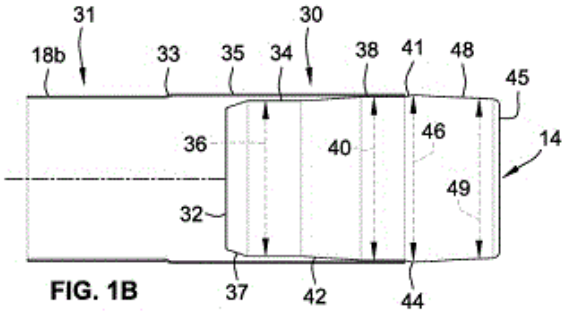
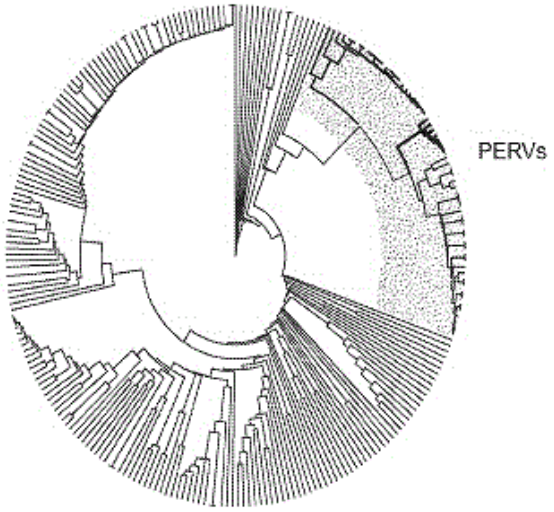


FIG. 1B

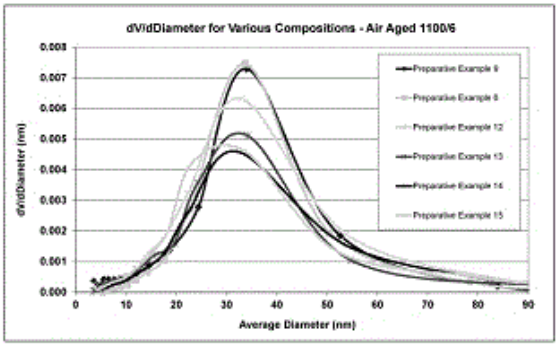
21: 2018/02456. 22: 2018/04/13. 43: 2022/10/05
51: A01N
71: ASSEMBLY BIOSCIENCES, INC., INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION
72: TURNER, WILLIAM, ARNOLD, LEE DANIEL, MAAG, HANS, LI, LEPING, BURES, MARK, HAYDAR, SIMON, FRANCIS, SAMSON
33: US 31: 62/218,815 32: 2015-09-15
54: HEPATITIS B CORE PROTEIN MODULATORS
00: -
The present disclosure provides, in part, compounds having allosteric effector properties against Hepatitis B virus Cp. Also provided herein are methods of treating viral infections, such as hepatitis B, comprising administering to a patient in need thereof a disclosed compound.

21: 2018/02461. 22: 2018/04/13. 43: 2022/10/05
51: C12N
71: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
72: CHURCH, GEORGE M, YANG, LUHAN, GUELL, MARC
33: US 31: 62/239,239 32: 2015-10-08
54: MULTIPLEXED GENOME EDITING
00: -
A method of modulating some or all copies of a gene in a cell is provided including introducing into a cell one or more ribonucleic acid (RNA) sequences that comprise a portion that is complementary to all or a portion of each of the one or more target nucleic acid sequences, and a nucleic acid sequence that encodes a Cas protein and maintaining the cells under conditions in which the Cas protein is expressed and the Cas protein binds and modulates the one or more target nucleic acid sequences in the cell.



21: 2018/02534. 22: 2018/04/17. 43: 2022/10/05
51: C01G; C01F; B01J
71: MAGNESIUM ELEKTRON LIMITED
72: HARRIS, DEBORAH JAYNE, SCAPENS, DAVID ALASTAIR
33: GB 31: 1518996.2 32: 2015-10-27
54: ZIRCONIA-BASED COMPOSITIONS FOR USE AS THREE WAY CATALYSTS
00: -
This invention relates to acerium-zirconium based mixed oxide having:(a) a Ce:Zr molar ratio of 1 or less, and(b)a cerium oxide content of 10-50% by weight,wherein the composition has (i) a surface area of at least 18m2 /g, and a total pore volume as measured by N2 physisorption of at least 0.11cm3 /g, after ageing at 1100°C in an air atmosphere for 6hours, and(ii) a surface area of at least 42m2/g, anda total pore volume as measured by N2 physisorption of at least 0.31cm3/g, after ageing at 1000°C in an air atmosphere for 4 hours. The invention also relates to acatalytic system comprising the cerium-zirconium based mixed oxide, as well astoaprocess 10 for treating an exhaust gas from a vehicle engine comprising contacting the exhaust gas with the cerium-zirconium based mixed oxide. In addition, the invention relates to a process for preparing a cerium-zirconium based mixed hydroxide or mixed oxide as claimed in any preceding claim, the process comprising the steps of:(a) dissolving a zirconium salt in an aqueous acid, (b)adding one or more complexing agents to the resulting solution, the one or more complexing agents being an organic compound comprising at

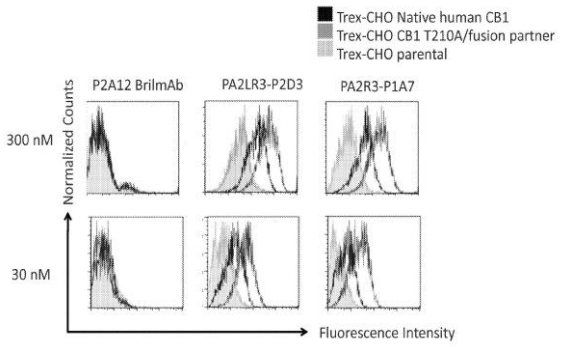
least one of the following functional groups: an amine, an organosulphate,a sulphonate, a hydroxyl, an etheror a carboxylic acid group,(c) heating the solution or sol formed in step (b),(d) adding a cerium salt, and adding a sulphating agent either before or after the addition of the cerium salt,and(e) adding a base to form a cerium-zirconium based mixed hydroxide.



21: 2018/02584. 22: 2018/04/18. 43: 2022/10/06
51: A61K; C07K
71: BYONDIS B.V.
72: VAN DER LEE, MIRANDA MARIA CORNELIA, ARIAANS, GERARDUS JOSEPH ANDREAS, SCHOUTEN, JAN, BLOMENROHR, MARION, GROOTHUIS, PATRICK GERHARD, COUMANS, RUDY GERARDUS ELISABETH
33: EP 31: 15195978.0 32: 2015-11-24
33: EP 31: 16191272.0 32: 2016-09-29
54: ANTI-5T4 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES
00: -
The present disclosure relates to CDR defined antibodies targeting the 5T4 oncofoetal antigen (TPBG, 5T4, Wnt Activated Inhibitory Factor 1, WAIF1) which exhibit a binding affinity for human 5T4 antigen which is in the same order of magnitude as their affinity for cynomolgus monkey 5T4. Antibody-drug conjugates (ADCs), and their use in the treatment of human solid tumours and haematological malignancies are claimed.

21: 2018/02608. 22: 2018/04/19. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: SZEWCZYK, Gregory, MANUS, Lisa, SCHAEFFER-KORBYLO, Lyndsay, POTANIN, Andrei, SUBRAMANYAM, Ravi
33: US 31: 62/271,164 32: 2015-12-22
54: ORAL CARE COMPOSITIONS COMPRISING ZINC AMINO ACID HALIDES
00: -
Disclosed herein are oral care compositions comprising a zinc amino acid halide complex, and linear polyvinylpyrrolidone and/or sodium tripolyphosphate, which compositions have improved rheological stability. Methods of making and using the compositions are also provided.

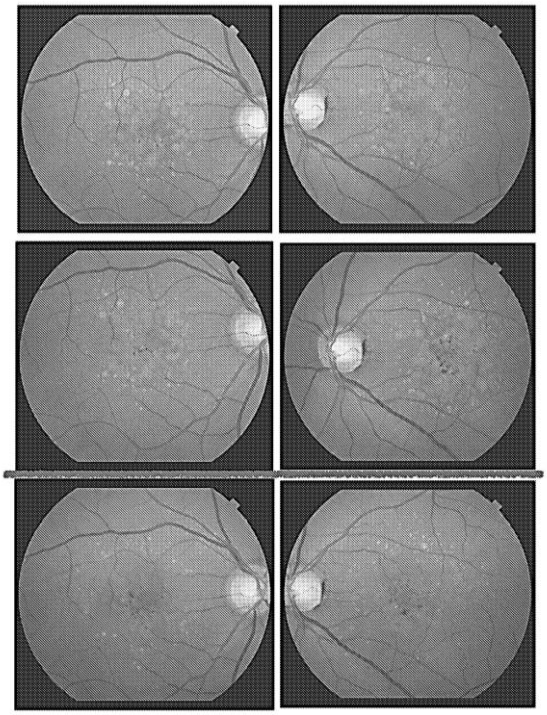
21: 2018/02807. 22: 2018/04/26. 43: 2022/10/10
51: G01N
71: Bird Rock Bio, Inc.
72: KRETZ-ROMMEL, Anke, FERRINI, Roger
33: US 31: 62/235,194 32: 2015-09-30
54: ANTIBODIES THAT BIND HUMAN CANNABINOID 1 (CB1) RECEPTOR
00: -
The present invention relates to novel antibodies and fragments thereof that binds cannabinoid 1 (CB1) receptor. The antibodies and fragments thereof as disclosed herein include humanized antibodies that bind CB1 receptor. The invention also includes uses of the antibodies for treating a disease or disorder responsive to antagonism or agonism of the CB1 receptor.



21: 2018/03096. 22: 2018/05/11. 43: 2022/10/19
51: C07K C12N
71: BASF AGRICULTURAL SOLUTIONS SEED US LLC
72: RODGERS-VIEIRA, Elyse, Ann, SAMPSON, Kimberly, LEHTINEN, Duane, LOESEL, Peter, PORTZ, Daniela, CHOUGULE, Nanasaheb
33: US 31: 62/241,220 32: 2015-10-14
54: AXMI554 DELTA-ENDOTOXIN GENE AND METHODS FOR ITS USE
00: -

Compositions and methods for conferring pesticidal activity to bacteria, plants, plant cells, tissues and seeds are provided. Compositions comprising a coding sequence for a toxin polypeptide are provided. The coding sequences can be used in DNA constructs or expression cassettes for transformation and expression in plants and bacteria. Compositions also comprise transformed bacteria, plants, plant cells, tissues, and seeds. In particular, isolated toxin nucleic acid molecules are provided. Additionally, amino acid sequences corresponding to the polynucleotides are encompassed, and antibodies specifically binding to those amino acid sequences. In particular, the present invention provides for isolated nucleic acid molecules comprising nucleotide sequences encoding the amino acid sequence shown in SEQ ID NO:4-l l, or the nucleotide sequence set forth in SEQ ID NO: 1-3, as well as variants and fragments thereof.

21: 2018/03097. 22: 2018/05/11. 43: 2022/10/10
51: A61K; G01N
71: Massachusetts Eye and Ear Infirmary
72: VAVVAS, Demetrios, MILLER, Joan W.
33: US 31: 62/241,522 32: 2015-10-14
54: HIGH-DOSE STATINS FOR AGE-RELATED MACULAR DEGENERATION
00: -
Methods of using a high-dose statin for treatment of AMD in a patient can be used to regress drusen and/or drusenoid pigment epithelial detachments (PEDs), to prevent atrophy of the RPE and/or one or more photoreceptors, to prevent vision loss and/or improve visual acuity, and/or to prevent progression from dry AMD to wet AMD.



21: 2018/03099. 22: 2018/05/11. 43: 2022/10/10
51: A61K; A61Q
71: Colgate-Palmolive Company
72: DOGO-ISONAGIE, Cajetan, XU, Guofeng
54: HYDROGEN PEROXIDE BOOSTER SYSTEM FOR ENHANCED TEETH WHITENING
00: -
Provided is a tooth whitening composition including at least one whitening agent, at least one bleach activator, at least one abrasive, and at least one anticalculus agent.

21: 2018/03144. 22: 2018/05/14. 43: 2022/12/01
51: G01H; G01S
71: eccenscia (pty)ltd
72: TERRENCE KEITH ASHWIN
54: A WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE
00: -
A wireless communication identification sensor for regulating the access of files and use of computing device functionality comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which

identification is required to access files on a data processor, in use. The sensor uses a software application enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information when appropriately accessed.

21: 2018/03166. 22: 2018/05/14. 43: 2022/10/10
51: A61K; C07H; A61P
71: LES LABORATOIRES SERVIER, CELGENE CORPORATION
72: AGRESTA, SAMUEL V, VISWANADHAN, KRISHNAN, DIMARTINO, JORGE, CHOPRA, VIVEK SAROJ KUMAR, MACBETH, KYLE J, KNIGHT, ROBERT DOUGLAS, KENVIN, LAURIE, XU, QIANG
33: US 31: 62/242,282 32: 2015-10-15
54: COMBINATION THERAPY FOR TREATING MALIGNANCIES
00: -
Provided are methods and compositions for treating cancers in patients carrying an IDHl mutation using a combination of an inhibitor of a mutant IDHl enzyme and a DNA demethylating agent.

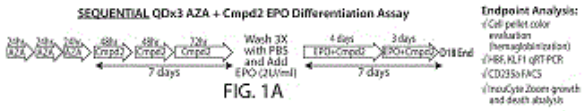


FIG. 1A

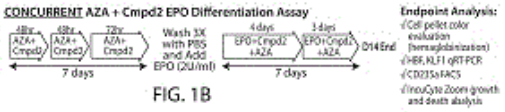


FIG. 1B

21: 2018/03414. 22: 2018/05/23. 43: 2022/10/10
51: B01D
71: Pall Corporation
72: OECHSLE, Dietmar
33: DE 31: 10 2015 122 727.4 32: 2015-12-23
54: FILTER DEVICE
00: -
The invention proceeds from a filter device which is provided for stabilizing a liquid, in particular beverages, having at least one filter unit (10), in particular a membrane filter unit, which has at least one filter element (12) and at least one integrated stabilizer (14). It is proposed that the filter unit (10) has at least one further integrated stabilizer (16). It is proposed in a further aspect of the invention that the filter device comprises at least one first precursor (18) which is provided for forming the filter element (12) at least partially, and the same first precursor (18) is provided for configuring the stabilizer (14) at least partially.

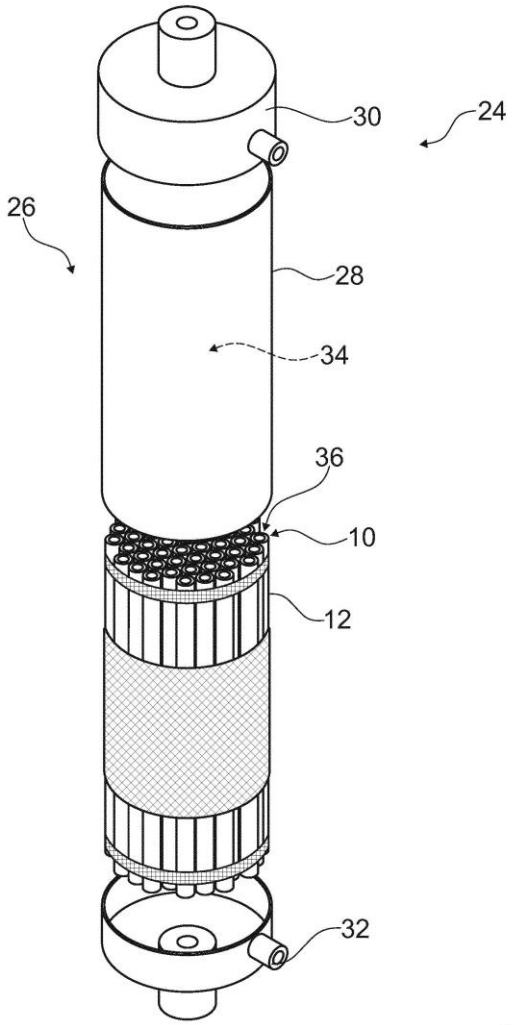
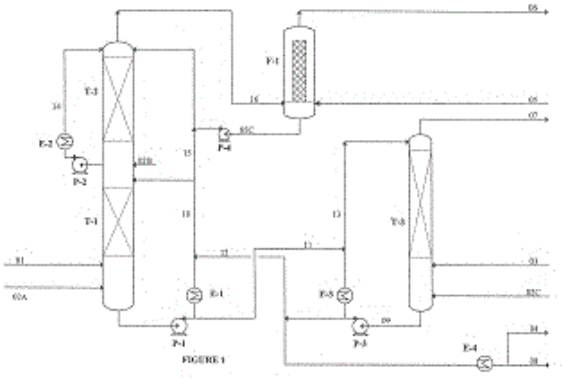


Fig. 1

21: 2018/03423. 22: 2018/05/23. 43: 2022/10/05
51: C23F; C01B; H05K; C09G
71: TESSENDERLO KERLEY, INC.
72: HOJJATIE, MICHAEL MASSOUD, LOCKHART, CONSTANCE LYNN FRANK, DIMITRIADIS, ALEXANDROS, CLARKSON, MARK P, KOMINSKI, HARRY CHARLES, VAN CAUWENBERGH, JEROEN, SHULT, NICHOLAS S, GOLDSMITH, ADAM T

33: US 31: 15/380,702 32: 2016-12-15
33: US 31: 62/273,389 32: 2015-12-30
54: SULFUR DIOXIDE SCRUBBING SYSTEM AND PROCESS FOR PRODUCING POTASSIUM PRODUCTS
00: -
The invention relates to a process for preparing potassium thiosulfate, potassium sulfite or potassium bisulfite comprising the following steps: Step (1a): providing a potassium hydroxide or potassium carbonate solution for neutralizing acid forming components such as dissolving SO_2or H_2S; Step (1b): providing an SO_2contacting solution, containing at least some potassium sulfite or potassium bisulfite or potassium thiosulfate; Step (2): providing SO_2gas; Step (3): reacting these to absorb the SO_2gas and to form an intermediate reaction mixture comprising potassium sulfite, or potassium bisulfite or a mixture thereof, and optionally recovering the potassium sulfite, or potassium bisulfite or a mixture thereof, and/or optionally using steps 4 and 5; Step (4): adding sulfur or sulfide containing compound containing sulfur having the oxidation state of 0, -2 or of between 0 and -2 to the reaction mixture and optionally potassium hydroxide or potassium carbonate, and reacting the mixture under suitable conditions to form potassium thiosulfate; and Step (5): recovering the potassium thiosulfate, and optionally concentrating the potassium thiosulfate.



21: 2018/03502. 22: 2018/05/28. 43: 2022/10/05
51: C12N
71: NEW YORK STEM CELL FOUNDATION, INC.
72: NOGGLE, SCOTT, EGGAN, KEVIN, CHANG, STEPHEN, SOLOMON, SUSAN L
33: US 31: 61/565,818 32: 2011-12-01
33: US 31: 61/700,792 32: 2012-09-13
33: US 31: 61/580,007 32: 2011-12-23
54: AUTOMATED SYSTEM FOR PRODUCING INDUCED PLURIPOTENT STEM CELLS OR DIFFERENTIATED CELLS
00: -
The invention provides an automated system for producing induced pluripotent stem cells (iPSCs) from adult somatic cells. Further, the system is used for producing differentiated adult cells from stem cells. The invention system is useful for isolating somatic cells from tissue samples, producing iPSC lines from adult differentiated cells by reprogramming such cells, identifying the pluripotent reprogrammed adult cells among other cells, and expanding and screening the identified reprogrammed cells.

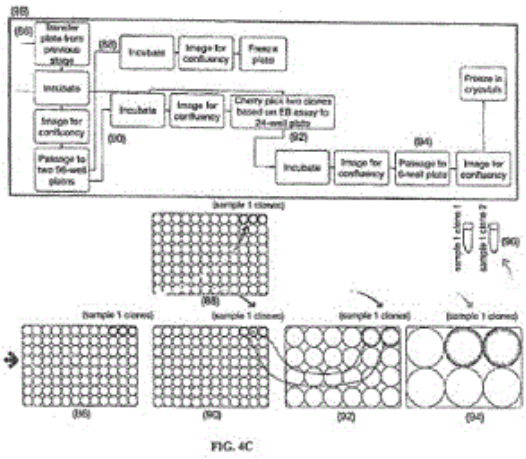
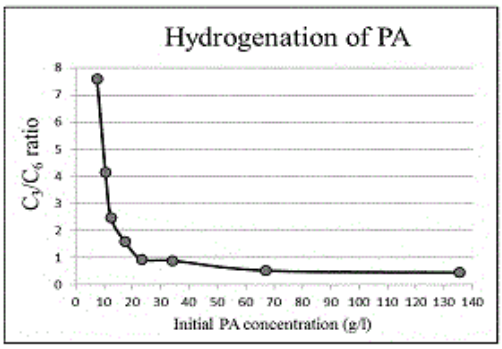


FIG. 4C

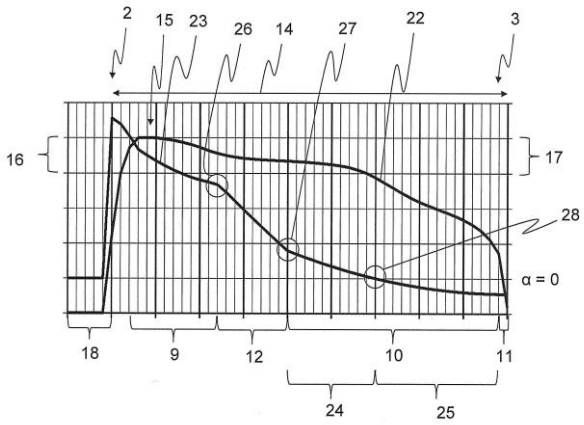
21: 2018/03648. 22: 2018/05/31. 43: 2022/10/05
51: C07C
71: HALDOR TOPSØE A/S
72: HOLM, MARTIN SPANGSBERG, OSMUNDSEN, CHRISTIAN MÅRUP, TAARNING, ESBEN, SØLVHØJ, AMANDA BIRGITTE, LARSEN, MORTEN BOBERG
33: DK 31: PA 2016 00008 32: 2016-01-07
54: PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL FROM SUGARS
00: -
A process for the preparation of ethylene glycol and other C_1-C_3hydroxy compounds comprising the steps of hydrogenating a composition comprising C_1-C_3oxygenate com- pounds. In particular the process is suitable for hydrogenating a composition comprising different C_1-C_3oxygenate compounds,

such as the product from a thermolytic fragmentation of a sugar composition.

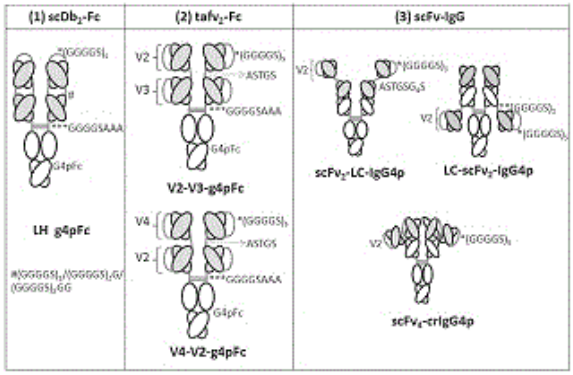


21: 2018/03700. 22: 2018/06/04. 43: 2022/10/05
51: C12N; C07K; A61K
71: THE PIRBRIGHT INSTITUTE
72: BICKERTON, ERICA, KEEP, SARAH, BRITTON, PAUL
33: GB 31: 1601498.7 32: 2016-01-27
54: ATTENUATED INFECTIOUS BRONCHITIS VIRUS
00: -
The present invention provides a live, attenuated coronavirus comprising a mutation in non-structural protein nsp-3 and/or deletion of accessory proteins 3a and 3b. The coronavirus may be used as a vaccine for treating and/or preventing a disease, such as infectious bronchitis, in a subject.

21: 2018/03848. 22: 2018/06/08. 43: 2022/10/10
51: B64C
71: FRAUNDORFER AERONAUTICS AG
72: FRAUNDORFER, Christoph, ZÖBISCH, Andre
33: DE 31: 10 2015 121 502.0 32: 2015-12-10
54: AUTOGYRO ROTOR BLADE FOR GENERATING LIFT BY AUTOROTATION
00: -
The invention relates to an autogyro rotor blade for generating lift by autorotation, comprising a root-side inner profile region (9), which has a first profile (21c), a tip-side main profile region (10), which has a second profile (21e) different from the first profile (21c), and a profile depth curve (22) that decreases monotonically in the longitudinal direction of the autogyro rotor blade (1) from the region of the blade root (2) toward the blade tip (3). According to the invention, the autogyro rotor blade (1) has torsion having a torsion curve (23) that decreases monotonically from the region of the blade root (2) toward the blade tip (3), wherein the torsion curve (23) has a variable slope in the inner profile region (9) and/or main profile region (10), such that the torsion curve (23) is concavely curved in said region (9, 10).



21: 2018/04328. 22: 2018/06/27. 43: 2022/10/05
51: C07K; A61K
71: ALTRUBIO INC.
72: LIN, RONG-HWA, LIN, SHIH-YAO, TSAI, YU-YING
33: US 31: 62/276,806 32: 2016-01-08
54: TETRAVALENT ANTI-PSGL-1 ANTIBODIES AND USES THEREOF
00: -
Provided herein are tetravalent antibodies that specifically bind to human PSGL-1. Unlike bivalent antibodies, these tetravalent antibodies contain a dimer of two monomers, with each monomer comprising two light chain variable (VL) domains and two heavy chain variable (VH) domains. This format allows for cross-linker/FcR-expressing cell-independent tetravalent antibodies against PSGL-1 that show enhanced efficacy as compared to bivalent PSGL-1 antibodies. These tetravalent antibodies can be used in a variety of diagnostic and therapeutic methods, including without limitation treating T-cell mediated inflammatory diseases, transplantations, and transfusions.

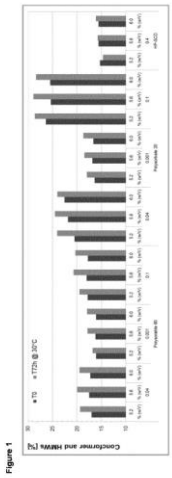


21: 2018/04354. 22: 2018/06/28. 43: 2022/11/04
51: A61K; C07K
71: AMGEN RESEARCH (MUNICH) GMBH, AMGEN INC.
72: Sekhar KANAPURAM, Ramil LATYPOV, Balakumar THANGARAJ, Cornelius POMPE
33: US 31: 62/286,552 32: 2016-01-25

54: PHARMACEUTICAL COMPOSITION COMPRISING BISPECIFIC ANTIBODY CONSTRUCTS

00: -

The present invention provides novel and stable pharmaceutical compositions comprising bispecific single chain antibody constructs, cyclodextrins and a buffer.

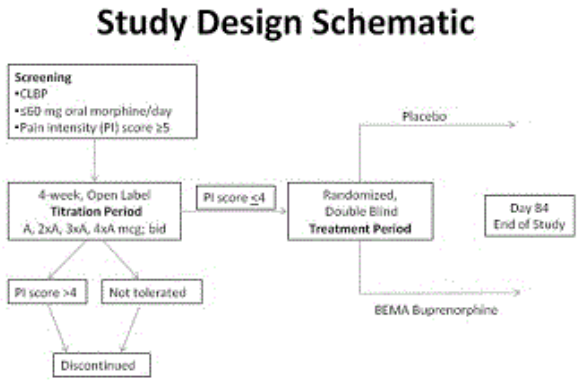


21: 2018/04381. 22: 2018/06/29. 43: 2022/10/05
51: A61K
71: BIODELIVERY SCIENCES INTERNATIONAL, INC.
72: FINN, ANDREW, VASISHT, NIRAJ
33: US 31: 61/578,755 32: 2011-12-21

54: TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF

00: -

Provided herein are methods for treating chronic pain by administering low doses of buprenorphine twice daity (or once daily) via a transmucosal drug delivery device. The methods and devices efficienily treat chronic pain without significant side effects. ln one embodiment, the buprenorphine delivery device comprises a bioerodable mucoadhesive layer comprising a therapeutically effective amount of buprenorphine disposed in a buffered polymeric diffusion environment, wherein the polymeric diffusion environment is a buffered environment having a pH of between about 4 and about 6.

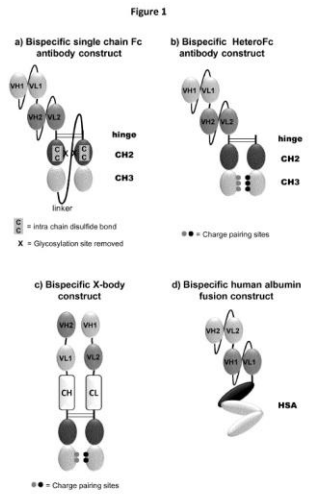


21: 2018/04514. 22: 2018/07/06. 43: 2022/10/20
51: C07K
71: AMGEN RESEARCH (MUNICH) GMBH
72: Tobias RAUM, Markus MUENZ, Johannes BROZY, Peter KUFER, Patrick HOFFMANN, Matthias FRIEDRICH, Benno RATTEL, Pamela BOGNER, Andreas WOLF, Cornelius POMPE
33: US 31: 62/290,861 32: 2016-02-03

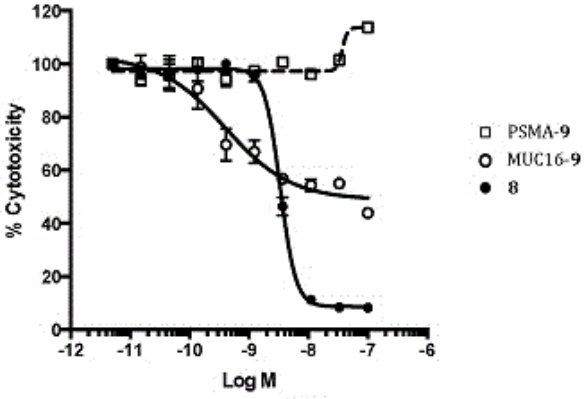
54: BISPECIFIC T CELL ENGAGING ANTIBODY CONSTRUCTS

00: -

The present invention provides bispecific antibody constructs of a specific Fc modality characterized by comprising a first domain binding to a target cell surface antigen, a second domain binding to an extracellular epitope of the human and/or the Macaca CD3e chain and a third domain, which is the specific Fc modality. Moreover, the invention provides a polynucleotide, encoding the antibody construct, a vector comprising this polynucleotide, host cells, expressing the construct and a pharmaceutical composition comprising the same.



21: 2018/04593. 22: 2018/07/10. 43: 2022/10/05
51: C07D; A61K; A61P
71: REGENERON PHARMACEUTICALS, INC.
72: NITTOLI, THOMAS, MARKOTAN, THOMAS P
33: US 31: 62/286,858 32: 2016-01-25
54: MAYTANSINOID DERIVATIVES, CONJUGATES THEREOF, AND METHODS OF USE
00: -
Provided herein are maytansinoid compounds, derivatives thereof, conjugates thereof, and methods of treating or preventing proliferative diseases with the same.



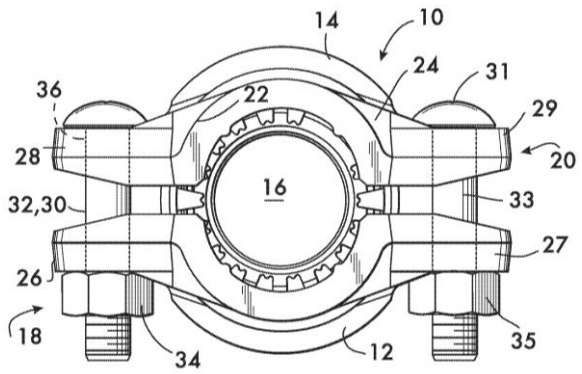
21: 2018/04634. 22: 2018/07/11. 43: 2022/10/05
51: A01N
71: CORTEVA AGRISCIENCE LLC
72: OUSE, DAVID G, LI, MEI, GIFFORD, JAMES, KEENEY, FRANKLIN NELSON, ZHANG, HONG
33: US 31: 62/280,281 32: 2016-01-19
54: CLOQUINTOCET SALTS FOR SAFENING PYROXSULAM COMPOSITIONS
00: -
Disclosed herein is a herbicidal composition comprising a herbicidally effective amount of (a) pyroxsulam or an agriculturally acceptable salt thereof and (b) a cloquintocet salt. Also disclosed herein are methods of controlling undesirable vegetation with the compositions disclosed herein without excessive injury to desirable crops.

21: 2018/04660. 22: 2018/07/12. 43: 2022/10/05
51: A61K; A61P
71: METABOGEN AB
72: KARLSSON, FREDRIK, MÖLLSTAM, BO
33: US 31: 62/266,771 32: 2015-12-14
54: TREATMENT OF INTRAHEPATIC CHOLESTASIS AND RELATED LIVER DISEASES
00: -
The invention is directed to a method of treating or reducing the risk of intrahepatic cholestasis in a subject in need thereof, comprising administering to the subject a therapeutically effective amount of a composition comprising at least one bacterial species or strain comprising bile acid deconjugation/hydrolysis activity and/or 7-epimerization activity, thereby treating or reducing the risk of intrahepatic cholestasis in a subject in need thereof. Compositions for use in such methods are also provided.

21: 2018/04966. 22: 2018/07/24. 43: 2022/11/16
51: C07D
71: CHEMOCENTRYX, INC.
72: CHEN, Xi, DRAGOLI, Dean R., FAN, Pingchen, LELETI, Manmohan Reddy, LUI, Rebecca, M., MALATHONG, Viengkham, POWERS, Jay P., SINGH, Rajinder, TANAKA, Hiroko, YANG, Ju, YU, Chao, ZHANG, Penglie
33: US 31: 62/280,969 32: 2016-01-20
54: 2-OXINDOLE COMPOUNDS
00: -
Oxindole compounds useful for the treatment of CCR(9) mediated conditions or diseases are provided.

21: 2018/05003. 22: 2018/07/25. 43: 2022/11/16
51: F16L
71: VICTAULIC COMPANY
72: SITH, Ahmad, BOWMAN, Matthew A., MADARA, Scott D.
33: US 31: 62/336,885 32: 2016-05-16

54: COUPLING HAVING TABBED RETAINER
00: -
A pipe coupling for plain end pipe is formed of segments joined end to end surrounding a central space. The segments are connected end to end by lugs on each segment with fasteners extending between them. Each segment has channels on opposite sides that face the central space with floors at different radii. Retainers are received within the channels. The retainers have teeth and one or more offset tabs that cooperate with the channels to prevent improper assembly. A ring seal is received within a channel positioned in each segment between the retainer channels.



21: 2018/05741. 22: 2018/08/28. 43: 2022/10/19
51: A61K
71: STEM CELL THERANOSTICS, INC., CAPELLA BIOSCIENCES, INC.
72: ARMSTRONG, Christopher, G., KIM, Kevin, J., PHAM, Lisa, Maria, Lucia, PARK, Eunhye, ZHONG, Zhong, HUANG, Guanyi, WU, Joseph, C., ELMER, Sidney, Paul, VISUTHIKRAISEE, Viwat, CADAG, Eithon, Michael, G., FREEMAN, Thomas, Bernard, LUM, Pek, Yee
33: US 31: 62/291,480 32: 04-02-2016
33: US 31: 62/348,102 32: 09-06-2016
54: PHARMACEUTICAL COMPOSITIONS AND METHODS FOR COUNTERING CHEMOTHERAPY INDUCED CARDIOTOXICITY
00: -
This disclosure provides methods and pharmaceutical compositions for reducing or eliminating cardiotoxicity, particularly cardiotoxicity induced by a cancer treatment or other therapy. In some cases, the methods and compositions prevent or reduce cardiotoxicity caused by anthracycline treatment. The methods provided herein often comprise administering a protective agent such as myricetin, tricetin, robinetin, ficetin, vitexin, quercetin, dihydrorobinetin, kaempferol, 7,3',4',5'-tetrahydroxyflavone, and myricitrin in conjunction with the administration of a cancer drug or other treatment. They may comprise administering a protective agent in combination with dexrazoxane. The compositions provided herein include co-formulations of a protective agent with a different protective agent or with a cancer treatment (e.g., anthracycline drug).

21: 2018/05782. 22: 2018/08/29. 43: 2022/11/21
51: C10L
71: ARQ IP LIMITED
72: SNAITH, Paul, UNSWORTH, John Francis
33: US 31: 15/284,995 32: 2016-10-04
33: GB 31: 1605768.9 32: 2016-04-04
33: GB 31: 1607557.4 32: 2016-04-29
33: CN 31: 2016110441160 32: 2016-11-23
54: FUEL OIL / PARTICULATE MATERIAL SLURRY COMPOSITIONS AND PROCESSES
00: -
This document relates to a fuel oil composition comprising:(i) a solid hydrocarbonaceousand/or solid carbonaceous material, wherein the material is in particulate form, and wherein at least about 90% by volume (%v) of the particles are no greater than about 20 microns in diameter; and(ii) a liquid fuel oil; wherein the solid hydrocarbonaceous and/or solid carbonaceous material is present in an amount of at most about 30 by mass (%m) based on the total mass of the fuel oil composition. The invention further relates a process for the preparation of this fuel oil composition, a method of changing a grade of a liquid fuel oil, and a method for adjusting the flash point of a liquid fuel oil.

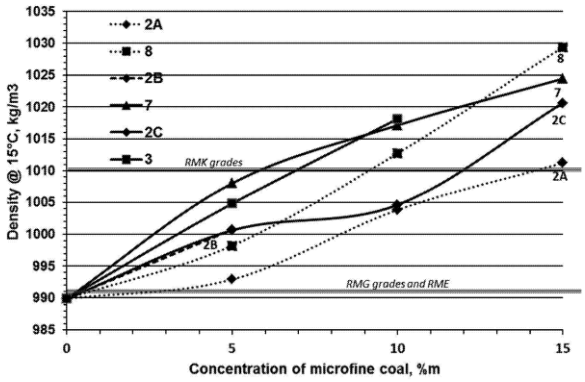
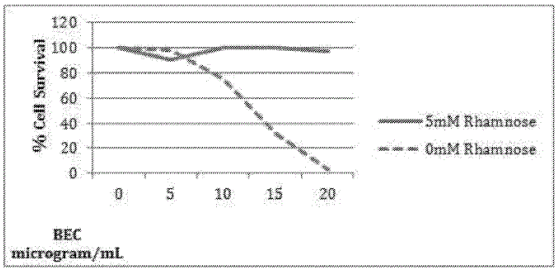
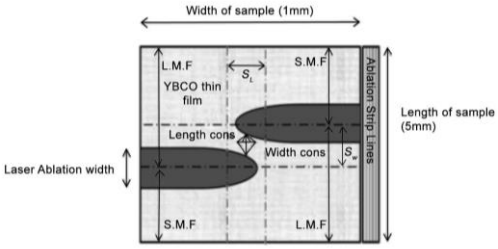


Figure 3b

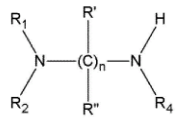
21: 2018/06511. 22: 2018/10/01. 43: 2022/10/19
51: A61K A61P
71: CHAM, Bill, Elliot, CHASE, Tania, Robyn, CHAM, Kai, Elliot
72: CHAM, Bill, Elliot, CHASE, Tania, Robyn, CHAM, Kai, Elliot
33: AU 31: 2016900798 32: 2016-03-03
54: GLYCOALKALOID COMBINATIONS AND VARIOUS USES THEREOF
00: -
The present invention relates to the use of glycoalkaloids, such as solasonine and solamargine, in treatment of cancer such as skin cancer, and to compositions for use in such treatment. More particularly the present invention relates to providing an improved, substantially stable formulation for the glycoalkaloids which minimises or reduces degradation of these active molecules.



21: 2018/06960. 22: 2018/10/18. 43: 2022/10/19
51: B05D; B23K; H01L; H05B
71: UNISA
72: VALLABHAPURAPU, Vijaya Srinivasu, UMENNE, Patrice
33: ZA 31: 2016/01975 32: 2016-03-23
54: FEMTOSECOND LASER BASED METHOD FOR FABRICATION OF MICRO- AND NANO-CONSTRICTION TYPE STRUCTURES ON A YBA2CU3O7-X SUPERCONDUCTING THIN FILM
00: -
A method of manufacturing micro- and nano-constriction type structures on a YBCO thin film, the method including ablating a predefined pattern onto the thin film by means of a femtosecond laser, and a superconductor device which includes a YBCO thin film onto which a predefined pattern is ablated by means of a femtosecond laser.



21: 2018/08387. 22: 2018/12/12. 43: 2022/10/10
51: C07C
71: Taminco BV
72: VAN WAES, Frederik, MOONEN, Kristof, ULRICHTS, Dieter
33: EP(BE) 31: 16182859.5 32: 2016-08-04
54: IMPROVED PROCESS FOR THE PREPARATION OF CARBAMATES
00: -
A process for the preparation of N-(dialkylaminoalkyl)-carbamic acid esters, in particular (propyl N-[3-(dimethylamino)propyl] carbamate) comprising an oxidative carbonylation reaction of a compound of general structure (II) wherein each of R1 and R2, equal to or different from each other, are independently selected from an alkyl group having 1 to 10 carbon atoms, which is optionally substituted by at least one halogen atom, an aryl group or an aralkyl group; R3 is selected from an alkyl group having 1 to 36 carbon atoms, which is optionally substituted by at least one halogen atom, an aryl group or an aralkyl group; each of R', R'' and R4, equal to or different from each other, are independently selected from H, an alkyl group having 1 to 10 carbon atoms, which is optionally substituted by at least one halogen atom, an aryl group or an aralkyl group; and n is an integer in the range from 1 to 8, with a hydroxyl compound of general formula (III), R3-OH (III) and in the presence of a catalyst system.

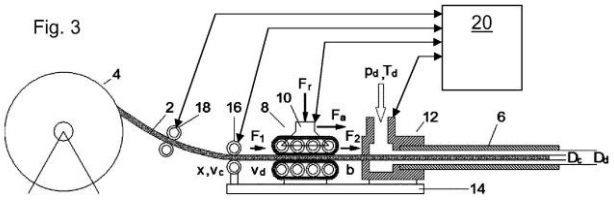


(II)

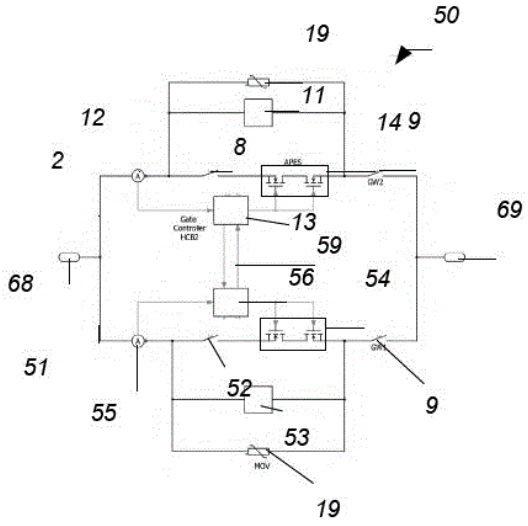
21: 2018/08499. 22: 2018/12/18. 43: 2022/10/10
51: A61K; A61P
71: Aragon Pharmaceuticals, Inc.
72: CHEN, Isan
33: US 31: 61/705,900 32: 2012-09-26
54: ANTI-ANDROGENS FOR THE TREATMENT OF NON-METASTATIC CASTRATE-RESISTANT PROSTATE CANCER
00: -
Described herein are anti-androgens for use in treating non-metastatic castrate-resistant prostate cancer

21: 2019/00303. 22: 2019/01/16. 43: 2022/10/12
51: H02G
71: Plumettaz Holding SA
72: GRIFFIOEN, Willem
33: CH 31: 01006/16 32: 2016-08-04
54: APPARATUS AND METHOD FOR JETTING A CABLE INTO A DUCT
00: -
Method for installing an elongated element into a duct (6), comprising the steps of: - pushing the elongated element into the duct (6) through a pressure chamber (12), - introducing pressurized fluid into the duct at a nominal pressure, - applying a driving force (Fa), the method comprises the steps of: - monitoring at least fluid pressure (pd) into said duct (6) and said driving force (Fa), - reducing said fluid pressure (pd) to a predetermined value lower than the nominal pressure.

Fig. 3

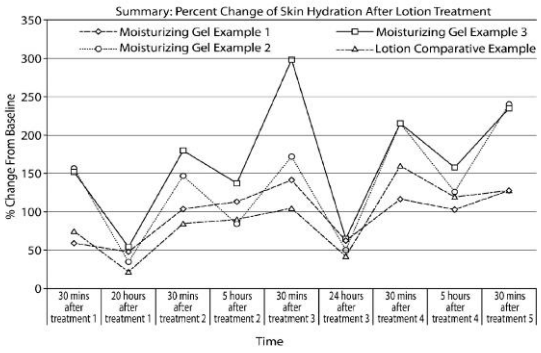


21: 2019/00398. 22: 2019/01/21. 43: 2022/09/26
51: H01H; H02H
71: Eaton Intelligent Power Limited
72: ASKAN, Kenan, BARTONEK, Michael
33: DE 31: 10 2018 101 312.4 32: 2018-01-22
54: ELECTRICAL PROTECTIVE CIRCUIT ARRANGEMENT
00: -
In an electrical protective circuit arrangement (50) comprising a first outer conductor path (2) and a second outer conductor path (51), the first outer conductor path (2) being arranged in parallel with the second outer conductor path (51) in terms of circuitry, the first outer conductor path (2) having a first hybrid protective circuit with a first and a second semiconductor arrangement (11, 14), each controlled by a first electronic control unit (13), the second outer conductor path (51) comprising a first hybrid protection circuit with a third and a fourth semiconductor arrangement (53, 54), each controlled by a second electronic control unit (56), it is proposed that the first control unit (13) regulates the second semiconductor circuit arrangement (14) and the second control unit (56) regulates the fourth semiconductor circuit arrangement (54) in order to adjust a first current via the first outer conductor path (2) and a second current via the second outer conductor path (51), and/or in that the first control unit (13) and the second control unit (56) switch off the second outer conductor path (51) at a first current and/or a second current below a presettable limit value.

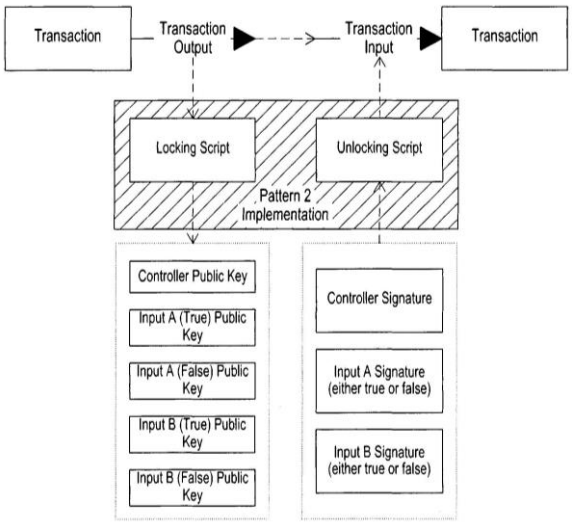


21: 2019/00445. 22: 2019/01/22. 43: 2022/09/26
51: A61K; A61Q
71: Colgate-Palmolive Company
72: SYED, Farrah, KOZUBAL, Cheryl, HOLERCA, Marian
54: PERSONAL CARE GEL AND METHOD

00: -
A moisturizing gel composition is disclosed containing 4 wt.% to 12 wt.% of a humectant selected from trimethylglycine, propylene glycol, glycerin and combinations thereof; 1 wt.% to 6 wt.% of a skin feel agent selected from PEG-14M, polyglyceryl-3-laurate, ppg-3 isostearyl methyl ether, PEG60 almond glyceride, and combinations thereof; 0.25 wt.% to 1 wt.% of a skin conditioning agent selected from shea oil and triterpenesters; 0.2 wt.% to 2 wt.% of a structure increasing polymer selected from carbomers, acrylate polymers, acrylate copolymers and combinations thereof; and a cosmetically acceptable aqueous carrier; wherein, the composition has a pH of 4 to 7. A method to produce the composition at low temperature is further disclosed.



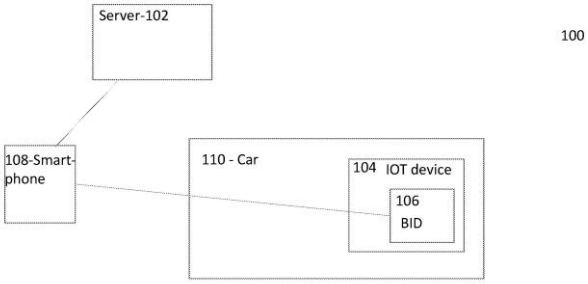
21: 2019/00509. 22: 2019/01/24. 43: 2022/09/26
51: G06F; G06Q; H04W
71: nChain Holdings Limited
72: ALLEN, Gavin
33: GB 31: 1613177.3 32: 2016-07-29
33: GB 31: 1613148.4 32: 2016-07-29
33: GB 31: 1613188.0 32: 2016-07-29
54: BLOCKCHAIN-IMPLEMENTED METHOD AND SYSTEM
00: -
This invention relates generally to distributed ledger technology (including blockchain related technologies), and in particular the use of a blockchain in implementing, controlling and/or automating a task or process. It may relate to the use of a blockchain or related technology for recording or representing the execution of a portion of logic. This portion of logic may be arranged to implement the functionality of a logic gate, or plurality of logic gates, such as AND, XOR, NOT, OR etc.. An embodiment of the invention may comprise the steps of: providing a blockchain Transaction comprising a redeem script for an output, wherein the redeem script comprises: i) a plurality of public keys, each associated with a corresponding private key; and wherein each public key is uniquely associated with a potential state of at least one data source; and wherein a minimum number of said private keys must be used to sign an unlocking script of a further blockchain Transaction in order to spend the output; and ii) logic arranged to provide a result based on: A) a determination of which of the plurality of associated private key(s) is/are used to sign the unlocking script, so as to provide an interim result: and B) a comparison of a parameter supplied via the unlocking script against the interim result. The method also comprises the step of attempting to spend the transaction output more than once, each attempt supplying a different parameter.



21: 2019/00532. 22: 2019/01/25. 43: 2022/10/17
51: A61K; C12N
71: YUN NV, UNIVERSITEIT ANTWERPEN
72: KIEKENS, Filip, HENKENS, Tim, LEBEER, Sarah, CLAES, Ingmar
33: BE 31: 2016/5538 32: 2016-06-30
54: PRESERVATION OF MICROORGANISMS
00: -
The present invention relates to the field of preservation of microorganisms, and in particular provides a 2-compartment system comprising a first compartment comprising microcapsules with microorganisms in a non-aqueous composition in the

core of said microcapsules, and a second aqueous organic acid-containing compartment. It further provides methods for preserving microorganisms, on the basis of such systems, as well as uses of such systems for preserving microorganisms.

21: 2019/00536. 22: 2019/01/25. 43: 2022/09/26
51: G06Q
71: nChain Holdings Limited
72: VINCENT, Stephane
33: GB 31: 1613106.2 32: 2016-07-29
33: GB 31: 1613107.0 32: 2016-07-29
54: BLOCKCHAIN-IMPLEMENTED METHOD AND SYSTEM
00: -
The computer-implemented invention provides a method and corresponding system for controlling access to and/or use of an internet-enabled resource. The invention uses an electronic ledger such as, for example, the Bitcoin blockchain. The resource may be an IoT device or system. Access to the resource is permitted or enabled upon provision of a cryptographic key e.g. a private key which corresponds to a public key which has been stored in memory. In one embodiment, the public key is stored in a DHT. Access to the resource is prevented or disabled by removing the public key from memory, and using a redeem script of a second blockchain Transaction to spend a tokenised output of a first blockchain Transaction. The second transaction detokenizes the token (or 'coloured coin') contained within the first Transaction. In order to prevent further access to the resource, an encrypted message is sent to the internet-enabled resource, wherein the message communicates a public key and the redeem script. The resource then checks whether the public key in the message matches that stored in memory and, if it does, removes the stored version of the public key from memory. The resource then uses the redeem script to perform the detokenization.



21: 2019/00795. 22: 2019/02/07. 43: 2022/09/26
51: C12Q
71: Alcediag
72: SALVETAT, Nicolas, PUJOL, Jean-François, WEISSMANN, Dinah, VIRE, Berangere, VAN DER LAAN, Siem
33: EP(FR) 31: 16181619.4 32: 2016-07-28
54: RNA EDITING AS BIOMARKERS FOR MOOD DISORDERS TEST
00: -
The present invention is drawn to a method for in vitro predicting the risk for a patient to present a pathology or to identify whether a patient is at risk to develop a pathology, such as psychiatric disorder, associated to an alteration of A-to-I editing on PDE8A transcripts, from body fluids such as a blood, urine or saliva sample of said patient. The present invention also relates to kits for the implementation of the method.

21: 2019/00836. 22: 2019/02/08. 43: 2022/09/26
51: H04L
71: Kalypton International Limited
72: DAVIES, Lars
33: GB 31: 1611948.9 32: 2016-07-08
54: DISTRIBUTED TRANSACTION PROCESSING AND AUTHENTICATION SYSTEM
00: -
A method of recording a data transaction comprising, at a device associated with a first entity, determining first seed data, generating a record of a first transaction between the first entity and a second entity, determining second seed data by combining at least the first seed data and the record of the first data transaction, generating a first hash by hashing the second seed data, the first hash comprising a history of data transactions involving the first entity and storing the first hash against the record of the first data transaction in a memory.

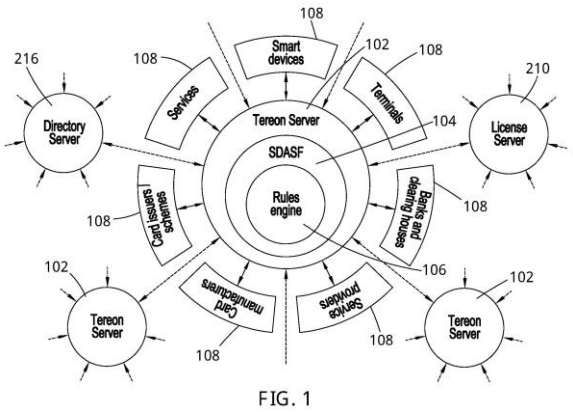
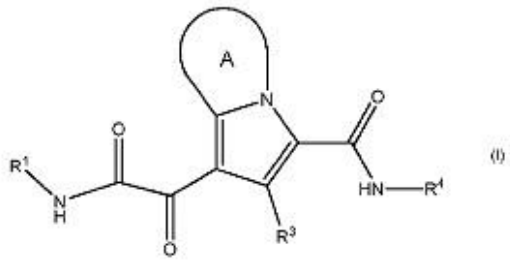
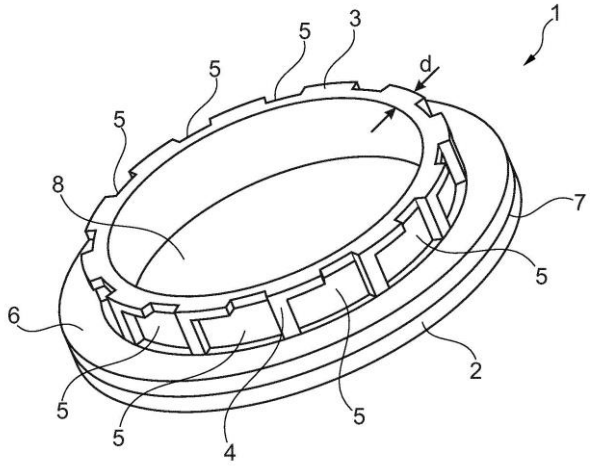


FIG. 1

21: 2019/01431. 22: 2019/03/07. 43: 2022/10/12
51: A61K; C07D
71: Gilead Sciences, Inc.
72: DU, Jinfa, KAPLAN, Joshua A., KIRSCHBERG, Thorsten A., KOBAYASHI, Tetsuya, LAZERWITH, Scott E., LEE, Rick Andrew, MEDLEY, Jonathan William, MITCHELL, Michael L., MORGANELLI, Philip Anthony, PYUN, Hyung-Jung, SHEVICK, Sophia L., SQUIRES, Neil H., WATKINS, William J.
33: US 31: 62/380,063 32: 2016-08-26
33: US 31: 62/416,020 32: 2016-11-01
54: SUBSTITUTED PYRROLIZINE COMPOUNDS AND USES THEREOF
00: -
This application relates generally to certain substituted pyrrolizine compounds of Formula I, and pharmaceutical compositions which inhibit HBV replication, and methods of making and using them.



21: 2019/01456. 22: 2019/03/08. 43: 2022/09/26
51: G02B; H01H
71: Eaton Intelligent Power Limited
72: VAN DIJK, Marcel
33: GB 31: 1615574.9 32: 2016-09-14
54: SIGHT GLASS
00: -
The invention relates to a sight glass for mounting in a hole, provided with radially inwardly extending protrusions, in a sheet material wall of a housing, for example switchgear housing, which sight glass comprises a body with a mounting surface and a cylindrical wall arranged on the mounting surface and extending perpendicular from said mounting surface, wherein a number of L-shaped slots are provided in the radially outer surface of the cylindrical wall, wherein a gasket is arranged on the mounting surface and enclosing the cylindrical wall, and wherein the body and cylindrical wall are of a monolithic transparent material.



21: 2019/01597. 22: 2019/03/14. 43: 2022/09/26
51: A61K; C07K
71: Janssen Vaccines & Prevention B.V.
72: RUTTEN, Lucy, TRUAN, Daphné, STROKAPPE, Nika Mindy, LANGEDIJK, Johannes Petrus Maria
33: EP(NL) 31: 16188866.4 32: 2016-09-15
54: TRIMER STABILIZING HIV ENVELOPE PROTEIN MUTATIONS
00: -
Human immunodeficiency virus (HIV) envelope proteins having mutations that stabilize the trimeric form of the envelope protein are provided. The HIV envelope proteins have certain amino acid substitutions at specified positions in the envelope protein sequence. The HIV envelope proteins described herein have an improved percentage of trimer formation and/or an improved trimer yield as compared to an HIV envelope protein that does not have one or more of the indicated amino acid substitutions. Also provided are nucleic acid molecules and vectors encoding the HIV envelope

proteins, as well as compositions containing the HIV envelope proteins, nucleic acid, and vectors.

21: 2019/01893. 22: 2019/03/27. 43: 2022/09/29
51: E04F
71: Fortress Iron, LP
72: BURT, Kevin T., SHERSTAD, Matthew Carlyle, FLATT, Kevin B., JESIOLOWSKI, Aaron, LUCZYCKI, Geoff T.
33: US 31: 62/404,616 32: 2016-10-05
54: DECK FRAMING SYSTEM
00: -
Embodiments of the present disclosure include a deck framing system formed of light gauge steel. The thickness of the light gauge steel components may be different among particular components depending on the load carried by the particular component and depending on the forming method for fabrication of the particular component. The deck framing system includes a ledger in which bracket slots are formed. The bracket slots are spaced apart from each other along a length of the ledger. Each bracket slot receives a joist support bracket. Each of the joist support brackets are received within an end of a joist. According to certain embodiments, the joists are generally in a closed box-like shape. The deck surface is laid on top of and supported by the joists.

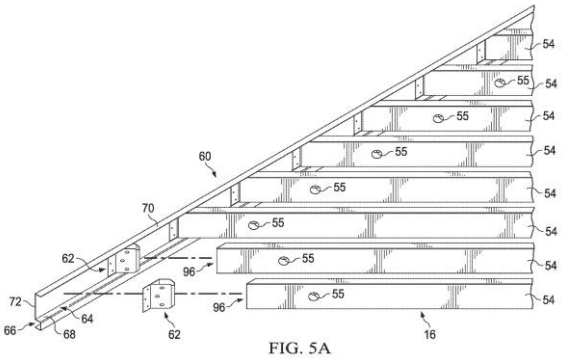


FIG. 5A

21: 2019/01982. 22: 2019/03/29. 43: 2022/09/26
51: A61K; A61Q
71: Colgate-Palmolive Company
72: MYERS, Carl
33: US 31: 62/419,378 32: 2016-11-08
54: ORAL CARE COMPOSITIONS
00: -
This application provides, among other things, novel aqueous biphasic compositions comprising two distinct aqueous phases, useful for combining and delivering poorly compatible ingredients, for example to deliver effective levels of cationic antibacterial agents in combination with anionic polymers, e.g. that protect against erosion and staining, by addition of a stabilizing amount of a polyamine, e.g. lysine, and methods for making and using the same.

21: 2019/01992. 22: 2019/03/29. 43: 2022/09/26
51: B65G
71: Sandvik Intellectual Property AB
72: KRIBITZ, Gerald
54: CONVEYOR BELT DEFLECTION APPARATUS
00: -
Conveyor belt deflection apparatus for deflecting a conveyor belt to extend between a first longitudinal direction and a second longitudinal direction. The apparatus comprises a set of belt deflector rollers and supporting frame sections. A plurality of belt adjusters are mounted at different regions of the apparatus to provide a different respective translational adjustment of the belt as it travels from a first section to a second section.

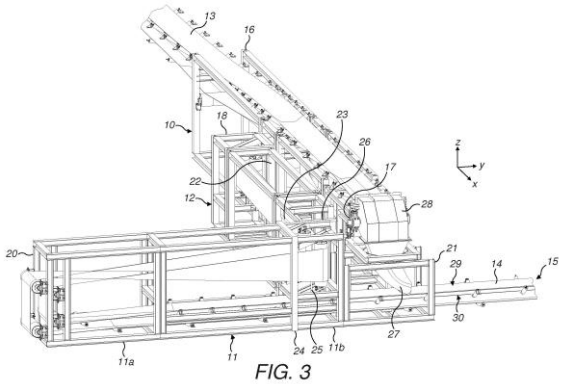
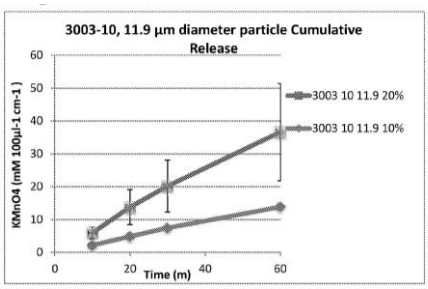


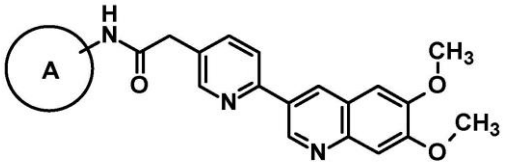
FIG. 3

21: 2019/02228. 22: 2019/04/09. 43: 2022/09/26
51: A61K
71: Onya Therapeutics Ltd
72: HOUSTON, David, HARDING, Keith, HEARD, Charles
33: GB 31: 1616223.2 32: 2016-09-23
54: PATCH COMPRISING POTASSIUM PERMANGANATE FOR THE TREATMENT OF SKIN DISORDER
00: -
The invention relates to medical treatment patch, ideally for applying topically, that permits the targeted, sustained and controlled release of

potassium KMnO 4; and a method of treating a skin disorder comprising applying said patch.

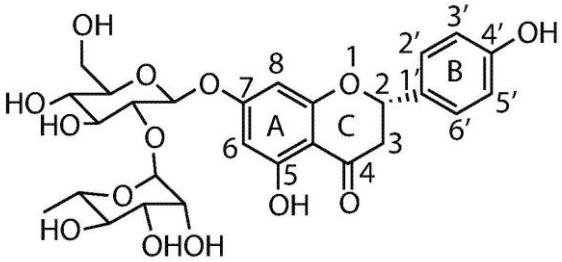


21: 2019/02232. 22: 2019/04/09. 43: 2022/09/26
51: A61K; A61P; C07D
71: Daiichi Sankyo Company, Limited
72: INAGAKI, Hiroaki, SHIBATA, Yoshihiro, NAMIKI, Hidenori, KAGEJI, Hideaki, NAKAYAMA, Kiyoshi, KANETA, Yasuyuki
33: JP 31: 2016-191725 32: 2016-09-29
54: PYRIDINE COMPOUND
00: -
The present invention relates to a compound having RET kinase inhibiting action or a pharmaceutically acceptable salt thereof, useful in the treatment of diseases such as cancer. In particular a compound represented by the following general formula (I) as defined herein: (I) or a pharmaceutically acceptable salt thereof.

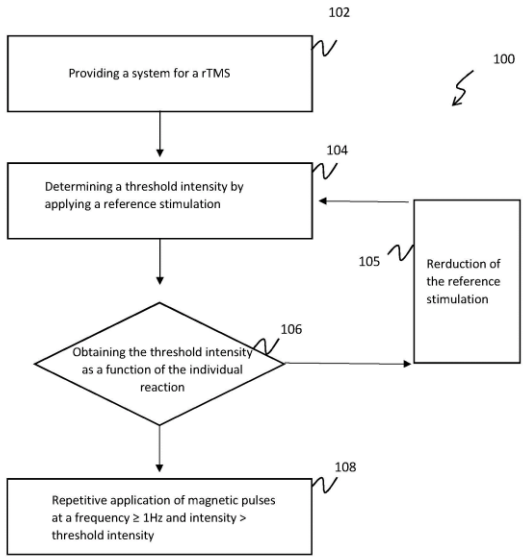


(I)

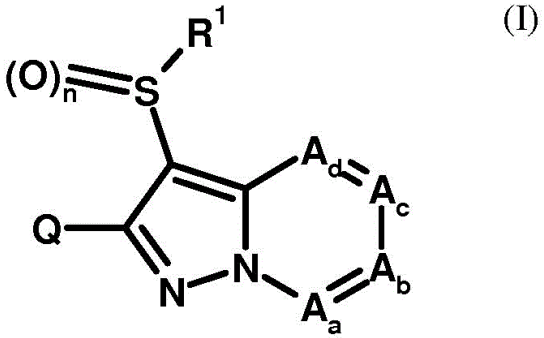
21: 2019/02268. 22: 2019/04/10. 43: 2022/09/26
51: A61K; A61Q
71: Colgate-Palmolive Company
72: ONG, Jane, MASTERS, James G., BRINZARI, Tatiana, CHENG, Chi-Yuan, WU, Donghui, PAN, Long
33: US 31: 62/412,032 32: 2016-10-24
54: ORAL CARE COMPOSITIONS AND METHODS OF USE
00: -
Disclosed herein are oral care compositions comprising naringin:Zinc complexes having a 2:1 naringin to zinc molar ratio. Methods of making and using the compositions are also provided.



21: 2019/02328. 22: 2019/04/12. 43: 2022/09/26
51: A61N
71: Policlinico San Donato S.p.A. - Istituto di Ricovero e Cura a Carattere Scientifico
72: LUZI, Livio
33: IT 31: 102016000092729 32: 2016-09-14
54: METHOD AND SYSTEM FOR MODULATING THE BRAIN ELECTRICAL ACTIVITY
00: -
Method for a deep and repetitive transcranial magnetic stimulation of an individual by means of magnetic pulses applied at least to a region of the scalp of the individual, said region being at least the bilateral prefrontal cortex, preferably the bilateral prefrontal cortex and the insula, the method comprising the steps of determining a threshold intensity of said magnetic pulses by applying to the individual one or more reference magnetic stimulations and determining a reaction of the individual to said reference stimulation, wherein said reaction corresponds to a right thumb movement and repeatedly applying a magnetic stimulation for at least 80 trains per session for a duration not exceeding 2 seconds each with a time interval between a train application and the next one not less than 20 seconds, wherein said magnetic stimulation has a frequency of at least 18 Hz with an intensity of stimulation at least 120% of the threshold intensity.

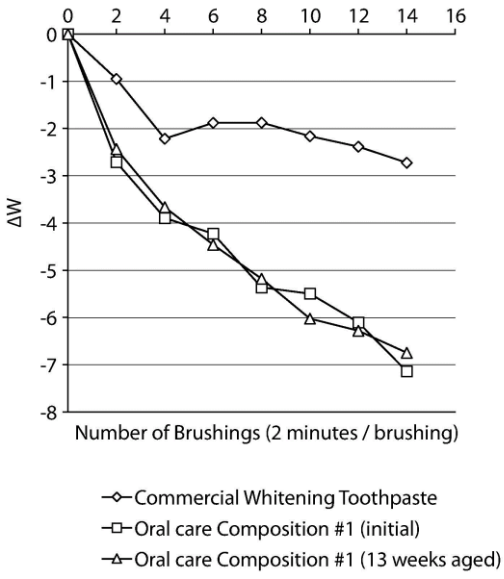


21: 2019/02562. 22: 2019/04/23. 43: 2022/09/26
51: A01N; A01P; C07D
71: Bayer CropScience Aktiengesellschaft, Bayer Aktiengesellschaft
72: FISCHER, Rüdiger, HAGER, Dominik, HOFFMEISTER, Laura, KAUSCH-BUSIES, Nina, MOSRIN, Marc, WILCKE, David, WILLOT, Matthieu, ILG, Kerstin, GÖRGENS, Ulrich, TURBERG, Andreas
33: EP(DE) 31: 16189445.6 32: 2016-09-19
54: PYRAZOLO [1,5-A]PYRIDINE DERIVATIVES AND THEIR USE AS PESTICIDES
00: -
The invention relates to novel compounds of formula (I), in which Q, Aa, Ab, Ac, Ad, R1 and n are defined as in the description, to the use thereof as acaricides and/or insecticides for controlling animal pests, and to methods and intermediate products for the production thereof.

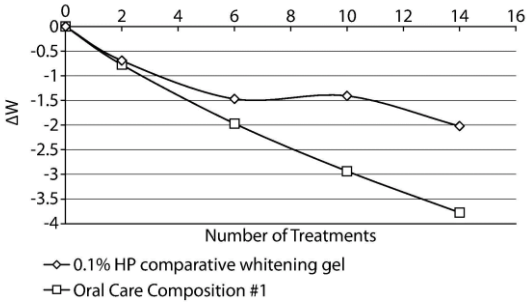

(I)

21: 2019/02618. 22: 2019/04/25. 43: 2022/10/21
51: A61K; A61P; C07K; C12N
71: JCR Pharmaceuticals Co., Ltd.
72: SONODA, Hiroyuki, TAKAHASHI, Kenichi
33: JP 31: 2016-252148 32: 2016-12-26
54: NOVEL ANTI-HUMAN TRANSFERRIN RECEPTOR ANTIBODY CAPABLE OF PENETRATING BLOOD-BRAIN BARRIER
00: -
The present invention provides an anti-human transferrin receptor antibody and an analog thereof, wherein, in the heavy-chain variable region of the antibody, (a) CDR1 comprises the amino acid sequence represented by SEQ ID NO: 62 or SEQ ID NO: 63; (b) CDR2 comprises the amino acid sequence represented by SEQ ID NO: 13 or SEQ ID NO: 14; and (c) CDR3 comprises the amino acid sequence represented by SEQ ID NO: 15 or SEQ ID NO: 16.

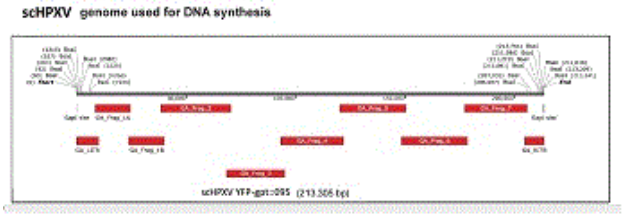
21: 2019/02622. 22: 2019/04/25. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: YUAN, Shaotang, XU, Guofeng, KILPATRICK-LIVERMAN, LaTonya
54: ORAL CARE COMPOSITION
00: -
An oral care composition including from 0.01% to 40% peroxysulfate whitening agent and from 1% to 99% non-aqueous dispersant, based on the total weight of the oral care composition.



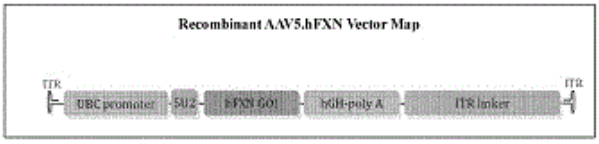
21: 2019/02623. 22: 2019/04/25. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: YUAN, Shaotang, XU, Guofeng, KILPATRICK-LIVERMAN, LaTonya
54: Oral Care Composition
00: -
An oral care composition, including a peroxysulfate whitening agent, a non-aqueous dispersant having a non-aqueous liquid, and a structural builder.



21: 2019/02868. 22: 2019/05/07. 43: 2022/10/12
51: C12N; A61K
71: EVANS, DAVID, NOYCE, RYAN, LEDERMAN, SETH
72: EVANS, DAVID, NOYCE, RYAN, LEDERMAN, SETH
33: US 31: 62/416,577 32: 2016-11-02
33: US 31: 62/434,794 32: 2016-12-15
54: SYNTHETIC CHIMERIC POXVIRUSES
00: -
The invention relates, in general, to synthetic chimeric poxviruses, compositions comprising such viruses, and the development and use of systems and methods for producing such synthetic chimeric poxviruses. The synthetic chimeric poxviruses are well suited for live virus vaccines and pharmaceutical formulations.



21: 2019/02870. 22: 2019/05/07. 43: 2022/10/12
51: C12N; A61K; C07K
71: INTREXON CORPORATION
72: SCHAUER, STEPHEN, THOMAS, DARBY, ROBINSON, GREGORY, PYKETT, MARK, THORN, RICHARD, GRUIS, KIRSTEN
33: US 31: 62/419,621 32: 2016-11-09
54: FRATAXIN EXPRESSION CONSTRUCTS
00: -
The invention provides polynucleotides, vectors and viruses expressing frataxin and methods of treating Friedreich's Ataxia.



21: 2019/02954. 22: 2019/05/10. 43: 2022/10/19
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: YAVUZ, Emre, RATILAINEN, Antti, BERGMAN, Johan, HEDÉN, Karin, WÄNSTEDT, Stefan, TIRRONEN, Tuomas, SUI, Yutao
33: US 31: 62/417,381 32: 2016-11-04
54: NETWORK NODE, WIRELESS DEVICE AND METHODS THEREIN IN A COMMUNICATIONS NETWORK
00: -
A network node (110), a wireless device (120) and methods therein, for enabling the wireless device (120) to obtain configuration information from a multicast control channel, e.g. SC-MCCH, which is transmitted by the network node (110). 5 The network node (110) transmits an indication of change of the multicast control channel, wherein the indication further indicates whether the wireless device (120) is affected by the change and needs to acquire or obtain the multicast control channel or not. The network node (110) further transmits the multicast control channel as changed according to said indication. Thereby, the wireless device 10 (120) can decide to obtain and acquire the multicast control channel only if it is affected by the change and to refrain when not affected, which will reduce the consumption of energy in the wireless device (120).

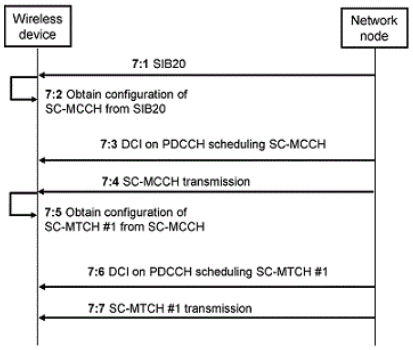
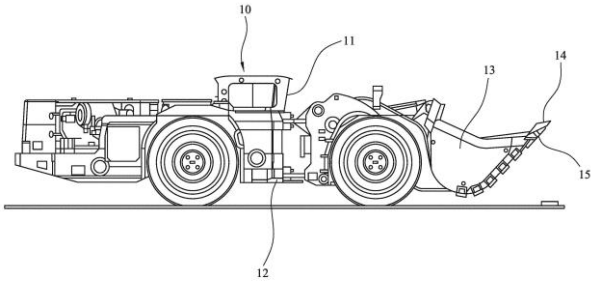


Fig. 7

21: 2019/02956. 22: 2019/05/10. 43: 2022/10/12
51: A61K; A61P
71: PROVITA EUROTECH LTD
72: KERR, MICHAEL, ALLEN, TERESA
33: GB 31: 1618945.8 32: 2016-11-09
54: ANTIMICROBIAL FORMULATIONS FOR THE IMPROVED TREATMENT OF VETERINARY HOOF INFECTIONS
00: -
There is provided a composition comprising an organic material and at least a first surfactant which following addition of an aqueous solution to the composition can form a biphasic system, wherein the biphasic system is useful for the treatment of or prevention of hoof infections. Also provided is a biphasic system useful for the treatment of or prevention of hoof infections, wherein the biphasic system comprises the composition and an aqueous phase wherein the composition is dispersed as droplets within the aqueous phase.

21: 2019/02976. 22: 2019/05/13. 43: 2022/10/12
51: E02F; G06K; G07C; H04Q
71: Sandvik Intellectual Property AB
72: DARLINGTON, Bradley, KNOWLES, Bruce, SCHILD, Paul, DALLARD, Bradley
54: ATTACHMENT STATUS MONITORING OF GROUND ENGAGING TOOLS (GET) AT HEAVY MACHINERY
00: -
A system for monitoring a status of attachment of a ground engaging tool (GET) at a mining, earth moving or rock processing machine. The system comprises providing GET with at least one proximity sensor configured to sense a proximity of the GET relative to a mount region of heavy machinery to which the GET is mountable. The proximity sensor is configured to generate proximity data that is transmitted from the GET via a wireless communication pathway to a receiver located remote from the GET with the receiver configured to output in real-time the attachment status of the GET. The present system is advantageous to identify partial detachment or loosening of a GET so as to prevent undesirable GET loss and contamination of extracted or processed raw material.



21: 2019/03020. 22: 2019/05/14. 43: 2022/10/03
51: B05B; B05D; B65G; C08F; C23C; H01M
71: UNIVERSITY OF CAPE TOWN
72: SOUSA, Duarte Rui, HUSSAIN, Nabeel
33: GB 31: 1617697.6 32: 2016-10-19
54: A COATING SYSTEM
00: -
A coating system (1) is provided which includes an ultrasonic sprayer (3) capable of spraying a coating fluid onto a target surface (5). A convective or infrared heater (21) is associated with the sprayer and is operable to heat the spray (23) produced by the sprayer (3).

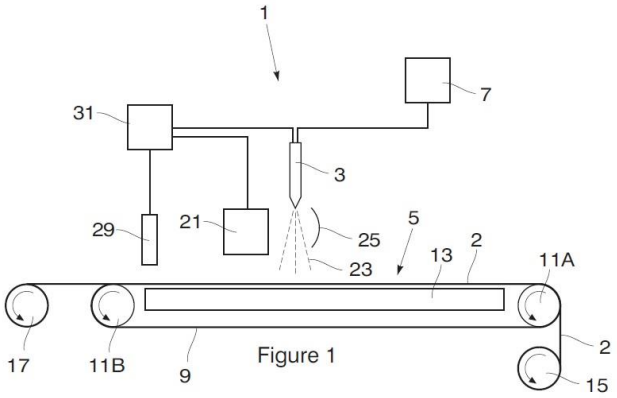


Figure 1

21: 2019/03157. 22: 2019/05/20. 43: 2022/09/26
51: A61K; C07K; C12P
71: Gliknik Inc.

72: BLOCK, David S., MÉRIGEON, Emmanuel Y., OLSEN, Henrik
33: US 31: 62/432,402 32: 2016-12-09
54: MANUFACTURING OPTIMIZATION OF GL-2045, A MULTIMERIZING STRADOMER
00: -
The present disclosure involves optimized methods for production of hiologically active proteins termed optimally manufactured stradomers. The present disclosure further provides compositions and methods useful in the treatment of diseases and conditions including autoimmune diseases, inflammatory diseases, or infectious diseases.

FIG. 1A

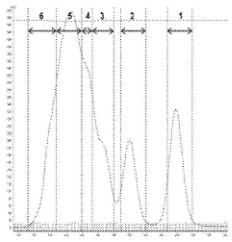
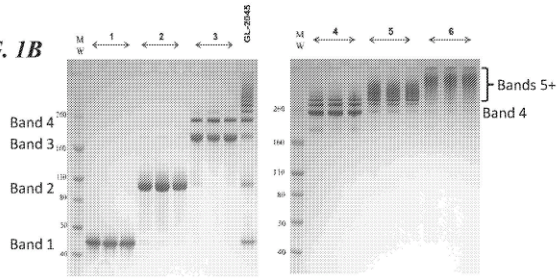


FIG. 1B



21: 2019/03367. 22: 2019/05/28. 43: 2022/10/12
51: H02J; H02S
71: SOLARPLEXUS
72: ORRIOLS, Alain, NAMY, Nicolas
33: FR 31: 1661453 32: 2016-11-24
54: AUTONOMOUS AND MOVABLE DEVICE FOR GENERATING, STORING AND DISTRIBUTING ELECTRICAL POWER
00: -
The invention relates to an autonomous and movable device (1) for generating, storing and distributing electrical power, comprising means (2) for generating electrical power, namely photovoltaic panels (20), resting on at least one supporting element (3), namely a standardised shipping container (3qq1, 32). The latter encloses internal means (6) for storing the electrical power generated by said generating means (2), said supporting element (3) also enclosing means for converting signals generated by the generating means (2) into signals suitable for supplying power to the storing means, and at least one electrical connector (8) for connecting external power-storing devices. The supporting element (3) also incorporates a controlling system comprising means for managing the storage and distribution of the power generated by said generating means (2), said means being connected to sensors for measuring operating parameters with which a plurality of elements of the device are equipped, and electronic telecommunication means.

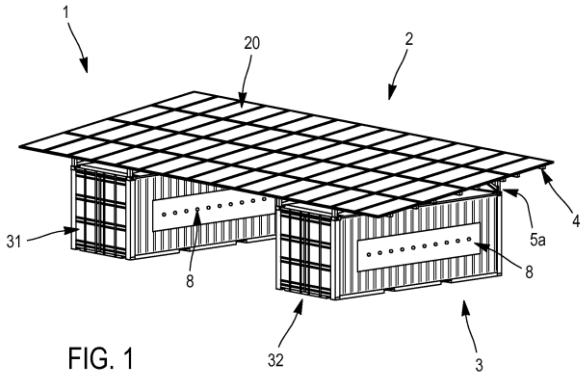


FIG. 1

21: 2019/03378. 22: 2019/05/28. 43: 2022/10/10
51: A61K; A61Q
71: Colgate-Palmolive Company
72: YUAN, Shaotang, XU, Guofeng, DICOSIMO, Robert, HAYNIE, Sharon
33: US 31: 62/436,810 32: 2016-12-20
54: ORAL CARE COMPOSITION
00: -
An oral care composition, including a non-aqueous dispersant and a fatty acid structure-building agent.

21: 2019/03379. 22: 2019/05/28. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: YUAN, Shaotang, XU, Guofeng, DICOSIMO, Robert, HAYNIE, Sharon
33: US 31: 62/436,816 32: 2016-12-20
54: ORAL CARE COMPOSITIONS
00: -
An oral care composition, including a peroxydone complex, a dispersant, and a polyvinylpyrrolidone copolymer structure-building agent.

21: 2019/03381. 22: 2019/05/28. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company

72: HASSAN, Mahmoud, CHEN, Xiang, PILLAI, Shyamala, XU, Guofeng, KILPATRICK-LIVERMAN, LaTonya, CHOPRA, Suman, DICOSIMO, Robert, PAYNE, Mark S.
33: US 31: 62/436,822 32: 2016-12-20
54: TWO-PHASE ORAL CARE WHITENING COMPOSITIONS
00: -
A two-phase oral care whitening composition including a hydrophobic phase and a hydrophilic phase, and methods for oral care whitening teeth with the same are provided. The hydrophobic phase may include a source of hydrogen peroxide and an acyl donor. The hydrophilic phase may include an enzyme that catalyzes the generation of peracetic acid between the source of hydrogen peroxide and the acyl donor. At least one of the hydrophobic phase and the hydrophilic phase may further include at least one surfactant.

21: 2019/03390. 22: 2019/05/28. 43: 2022/10/12
51: A01H; C12N
71: CORTEVA AGRISCIENCE LLC
72: KUMAR, SANDEEP, GERMAN, MARCELO ARIEL, WANG, POHAO, GLANCY, TODD P, SRIRAM, SHREEDHARAN, YERKES, CARLA N, BOWLING, ANDREW J, PENCE, HEATHER, ROBINSON, ANDREW E.
33: US 31: 62/406,560 32: 2016-10-11
54: MODULATION OF TRANSGENE EXPRESSION IN PLANTS
00: -
This disclosure concerns the use of endogenous plant RNAi machinery to preferentially or specifically reduce transgene expression. In some embodiments, the disclosure concerns specific reduction of transgene expression in seed tissues of a dicot plant.

21: 2019/03426. 22: 2019/05/29. 43: 2022/10/12
51: A61K
71: Intervet International B.V.
72: O'CONNELL, Kevin, VAIDYANATHAN, Subramaniam, EDDY, Brad
33: US 31: 62/432,803 32: 2016-12-12
54: ORAL VACCINE AGAINST RUMINANT RESPIRATORY DISEASE COMPRISING POLYVINYLPYRROLIDONE
00: -
The present invention relates to an oral vaccine against respiratory disease in ruminants, comprising live attenuated Mannheimia haemolytica bacteria and a Polyvinylpyrrolidone (PVP). The addition of PVP significantly improves the protective effect of vaccination on lung scores after a challenge infection. Further the PVP allows vaccination by a method of mass administration, such as by oral route via a drink. In addition the invention relates to methods for the preparation of such a vaccine, to methods for the vaccination of ruminants employing such a vaccine, and to medical uses of a composition comprising M. haemolytica bacteria.

21: 2019/03427. 22: 2019/05/29. 43: 2022/10/12
51: A23K; A61K
71: Hill's Pet Nutrition, Inc.
72: JACKSON, Matthew, JEWELL, Dennis
33: US 31: 15/381,783 32: 2016-12-16
54: PET FOOD COMPOSITIONS
00: -
Described herein are pet food compositions comprising a blood glucose management component comprising soy isoflavone and yeast beta-glucan (ß-glucan); along with methods of making and using same.

21: 2019/03431. 22: 2019/05/29. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: REGE, Aarti, PRENCIPE, Michael
33: US 31: 62/437,102 32: 2016-12-21
54: ORAL CARE COMPOSITIONS
00: -
An oral care composition comprising high water oral care compositions comprising an orally acceptable carrier, zinc phosphate, a first stannous ion source (i.e., stannous fluoride), and a second stannous ion source (i.e., stannous chloride). Methods and uses for this composition are also described throughout.

21: 2019/03451. 22: 2019/05/30. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: REGE, Aarti, PRENCIPE, Michael
33: US 31: 62/437,086 32: 2016-12-21
54: ORAL CARE COMPOSITIONS
00: -
An oral care composition comprising zinc phosphate, stannous fluoride, an anionic polymer, and a basic amino acid, as well as methods of using the same.

21: 2019/03457. 22: 2019/05/30. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: GRONLUND, Jennifer, XU, Guofeng, MALONEY, Venda Porter, MAO, Junhong, YUAN, Shaotang, CHOPRA, Suman, PARKER, Jodie, KOHLI, Rajnish, DICOSIMO, Robert, FOSSER, Kari A., HAYNIE, Sharon, PAYNE, Mark S., GANNON, John Thomas
33: US 31: 62/436,828 32: 2016-12-20
54: ORAL CARE COMPOSITION AND METHODS FOR WHITENING TEETH
00: -
An oral care composition including an orally acceptable vehicle is disclosed. The orally acceptable vehicle includes a source of hydrogen peroxide, an acyl donor, and an enzyme that catalyzes the generation of peracetic acid between the source of hydrogen peroxide and the acyl donor.

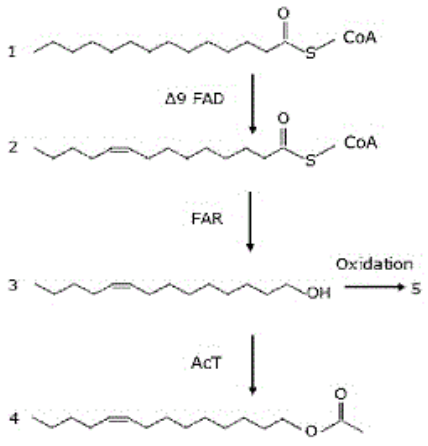
21: 2019/03460. 22: 2019/05/30. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: REGE, Aarti
33: US 31: 62/437,094 32: 2016-12-21
54: ORAL CARE COMPOSITIONS
00: -
An oral care composition comprising zinc phosphate, sodium fluoride, stannous pyrophosphate, and an organic acid buffer system, as well as methods of using the same.

21: 2019/03461. 22: 2019/05/30. 43: 2022/10/12
51: A61K; A61Q
71: Colgate-Palmolive Company
72: REGE, Aarti, PRENCIPE, Michael, THOMSON, Paul
33: US 31: 62/437,095 32: 2016-12-21
54: ORAL CARE COMPOSITIONS AND METHODS OF USE
00: -
This invention relates to oral care compositions comprising a zinc source comprising zinc oxide and zinc citrate; a stannous source comprising stannous pyrophosphate; a fluoride ion source comprising sodium fluoride; and an organic buffer, as well as to methods of using and of making these compositions.

21: 2019/03467. 22: 2019/05/31. 43: 2022/10/12
51: A61K; A61Q
71: EIRION THERAPEUTICS, INC.
72: EDELSON, JONATHAN
33: US 31: 62/424,937 32: 2016-11-21
54: TRANSDERMAL DELIVERY OF LARGE AGENTS
00: -
Methods, compositions, and devices for enhancing transdermal delivery of large agents.

21: 2019/03468. 22: 2019/05/31. 43: 2022/10/12
51: C07D; A61K; A61P
71: APROS THERAPEUTICS, INC.
72: WU, TOM YAO-HSIANG
33: US 31: 62/430,183 32: 2016-12-05
33: US 31: 62/532,230 32: 2017-07-13
54: PYRIMIDINE COMPOUNDS CONTAINING ACIDIC GROUPS
00: -
The present disclosure relates to a class of pyrimidine derivatives having immunomodulating properties that act via TLR7 which are useful in the treatment of viral infections and cancers.

21: 2019/03482. 22: 2019/05/30. 43: 2022/10/12
51: C12N; C12P
71: DANMARKS TEKNISKE UNIVERSITET
72: BORODINA, IRINA, HOLKENBRINK, CARINA, DAM, MARIE INGER, LÖFSTEDT, CHRISTER, DING, BAOJIAN, WANG, HONG-LEI
33: EP 31: 16204783.1 32: 2016-12-16
54: PRODUCTION OF DESATURATED FATTY ALCOHOLS AND DESATURATED FATTY ACYL ACETATES IN YEAST
00: -
The present invention relates to the production of compounds comprised in pheromones, in particular moth pheromones, such as desaturated fatty alcohols and desaturated fatty acyl acetates and derivatives thereof, from a yeast cell.



21: 2019/03597. 22: 2019/06/05. 43: 2022/10/12
51: G01N
71: ILLUMINA, INC.
72: ZHONG, CHENG FRANK, FINKELSTEIN, HOD, BOYANOV, BOYAN, DEHLINGER, DIETRICH, SEGALE, DARREN
33: US 31: 61/914,275 32: 2013-12-10
54: BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME
00: -
Biosensor including a device base having a sensor array of light sensors and a guide array of light guides. The light guides have input regions that are configured to receive excitation light and light emissions generated by biological or chemical substances. The light guides extend into the device base toward corresponding light sensors and have a filter material. The device base includes device circuitry electrically coupled to the light sensors and configured to transmit data signals. The biosensor also includes a shield layer having apertures that are positioned relative to the input regions of corresponding light guides such that the light emissions propagate through the apertures into the corresponding input regions. The shield layer extends between adjacent apertures and is configured to block the excitation light and the light emissions incident on the shield layer between the adjacent apertures.

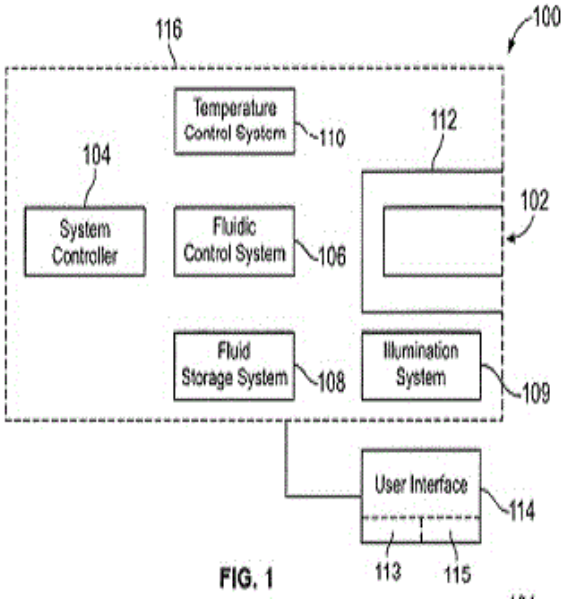
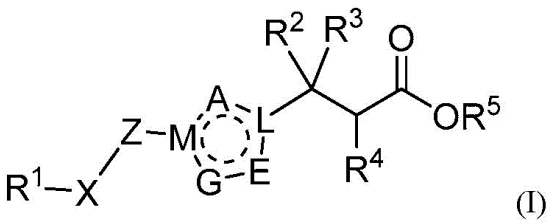


FIG. 1

21: 2019/03665. 22: 2019/06/07. 43: 2022/10/12
51: A61K; A61P; C07D
71: Bristol-Myers Squibb Company
72: ZHAO, Guohua, DEVASTHALE, Pratik, YE, Xiang-yang, SELVAKUMAR, Kumaravel, DHANUSU, Suresh, BALASUBRAMANIAN, Palanikumar, GUERNON, Leatte R., CIVIELLO, Rita, HAN, Xiaojun, PARKER, Michael F., JACUTIN-PORTE, Swanee E.
33: US 31: 62/418,848 32: 2016-11-08
54: 3-SUBSTITUTED PROPIONIC ACIDS AS ALPHA V INTEGRIN INHIBITORS
00: -
The present invention provides compounds of Formula (I): or stereoisomers, tautomers, or pharmaceutically acceptable salts or solvates thereof, wherein all the variables are as defined herein. These compounds are antagonists to ay-containing integrins. This invention also relates to pharmaceutical compositions comprising these compounds and methods of treating a disease, disorder, or condition associated with dysregulation of ay- containing integrins, such as pathological fibrosis, transplant rejection, cancer, osteoporosis, and inflammatory disorders, by using the compounds and pharmaceutical compositions.



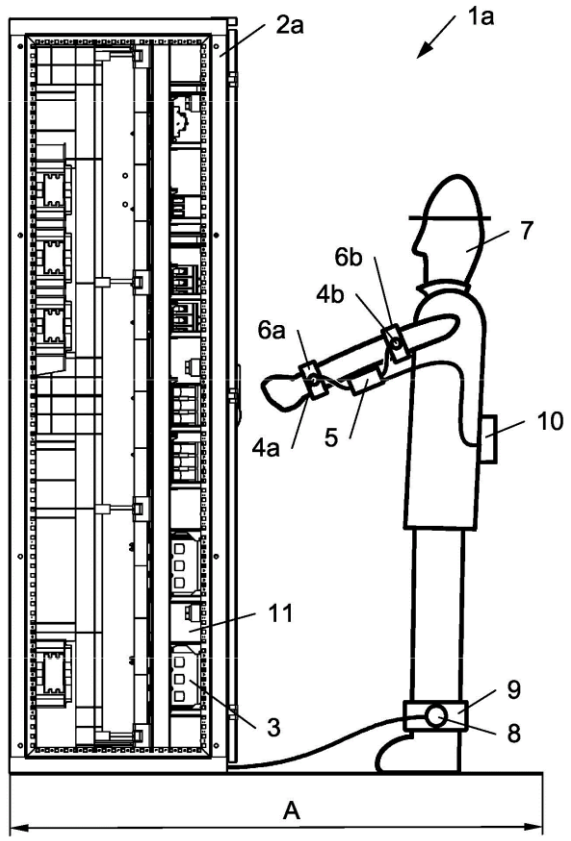
(I)

21: 2019/03669. 22: 2019/06/07. 43: 2022/10/12
51: F16P; H02H
71: Eaton Intelligent Power Limited
72: GEGENBAUER, Bernhard, REUBERGER, Georg
33: DE 31: 10 2016 123 954.2 32: 2016-12-09

54: SWITCHGEAR CABINET WITH PROTECTIVE SWITCH DEVICE

00: -

The invention relates to an electrical installation (1a, 1b), comprising a switch cabinet (2, 2a, 2b) and a protective switch (3) arranged in the switch cabinet (2, 2a, 2b). The electrical installation (1a, 1b) also comprises two measuring electrodes (4a, 4b) having a voltage measuring device (5)/ current measuring device (14), arranged therebetween, for measuring the voltage between the measuring electrodes (4a, 4b), or the current flowing between the measuring electrodes (4a,4b). Alternatively or additionally, a cladding (15) with electrical conductors (16, 17) can be provided, and a current measuring device (14) for measuring the current flowing through the mentioned electrical conductor (16). The voltage measuring device (5)/ current measuring device (14) is operatively connected to the protective switch (3) and is designed to trigger or switch off the protective switch (3) when a measurement value exceeding the threshold value is detected. The invention further relates to an operating method for an electrical installation (1a, 1b) of the aforementioned type.



21: 2019/03869. 22: 2019/06/14. 43: 2022/09/26
51: C23C
71: CHEMETALL GMBH
72: HELLMERS, Heiko, WENDEL, Thomas, MAURUS, Norbert
33: DE 31: 10 2016 223 170.7 32: 2016-11-23

54: COMPOSITION AND METHOD FOR THE CHROMIUM-FREE PRETREATMENT OF ALUMINIUM SURFACES

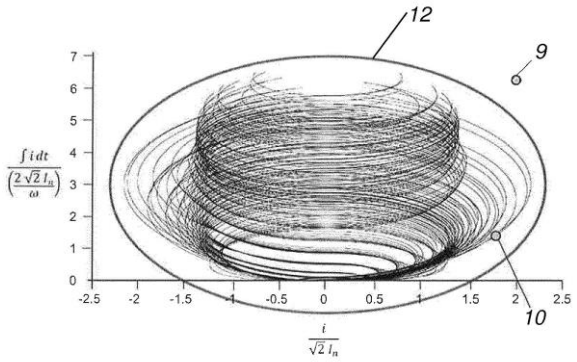
00: -

The present invention relates to an aqueous chromium-free composition for pre-treating aluminium surfaces, which contains at least one water-soluble phosphorus compound, at least one water-soluble zirconium compound, at least one water-soluble titanium compound and at least one water-soluble molybdenum compound, wherein the content of phosphorus compound is in the range of 15 to 50 mg/l (calculated as phosphorus), the content of zirconium compound is in the range of 400 to 600 mg/l (calculated as metal), the content of titanium compound is in the range of 85 to 400 mg/l (calculated as metal), and the content of molybdenum compound is in the range of 40 to 150

mg/l (calculated as metal). The invention also relates to a corresponding method and to a correspondingly pretreated component or strip.

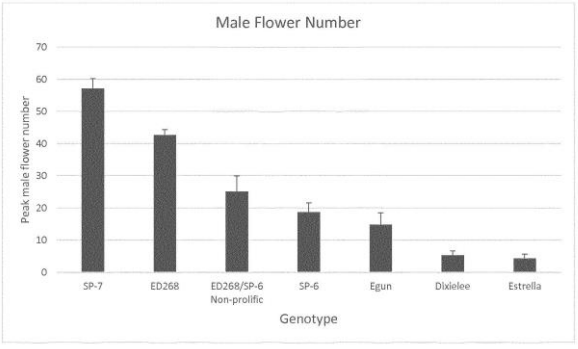
21: 2019/03874. 22: 2019/06/14. 43: 2022/09/26
51: A01N; A01P; B27K
71: Koppers Performance Chemicals Inc.
72: ZHANG, Jun, THAM, Peter, HORTON, John
33: US 31: 62/435,504 32: 2016-12-16
54: WOOD PRESERVATIVE AND METHOD FOR PRODUCING SAME
00: -
A synergistic aqueous wood preservative composition comprising a copper compound and penflufen. The copper compounds of the compositions of the invention may be soluble, partially solubilized or micronized particles. The penflufen of the compositions of the invention may be solubilized, emulsified or particulate. The wood preservative compositions of the present invention are surprisingly provided as stable dispersions and confer surprising and unexpected resistance to treated wood and wood products.

21: 2019/03879. 22: 2019/06/14. 43: 2022/09/26
51: G01R; H02H
71: Eaton Intelligent Power Limited
72: HAUER, Wolfgang
33: DE 31: 10 2016 124 638.7 32: 2016-12-16
54: OVERCURRENT AND SHORT CIRCUIT DETECTOR
00: -
The invention relates to an overcurrent and/or short circuit detector (1), particularly for a safety switching device (2), having at least one current sensor (3) for picking up a current signal with a definable time resolution in at least one electrical current path (4), and at least one evaluating processor unit (5), wherein the evaluating processor unit (5) is designed to determine a first time of a definable steep rise in the current signal, and to form a time integral of the current values of the current signal from the first time to a second time and, in definable time intervals, particularly substantially continuously, to compare a pair of values, consisting of a specific value of the integral and the associated value of the current signal, with at least one definable limit condition, and in the event that the limit condition is exceeded by the value pair, to output an overcurrent and/or short circuit message to an output (11) of the overcurrent and/or short circuit detector (1).



21: 2019/03938. 22: 2019/06/18. 43: 2022/10/12
51: A01H
71: Syngenta Participations AG
72: BRUSCA, James P., KINKADE, Matt, DANAN, Sarah
33: US 31: 62/437,187 32: 2016-12-21
54: PROLIFIC FLOWERING WATERMELON
00: -
The present invention relates to novel watermelon plants displaying an increased number of male flowers. The present invention also relates to seeds and parts of said plants, for example fruits. The present invention further relates to methods of making and using such seeds and plants. The present invention also relates to novel genetic determinants associated with an increased number of male flowers and to molecular markers linked to said novel genetic determinants.

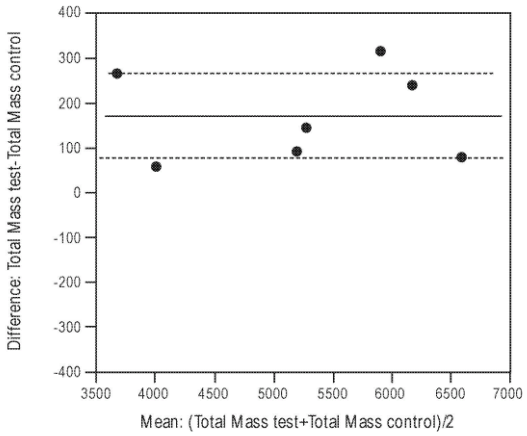
Figure 1: Open male flower number per square meter of watermelon genotypes with and without prolific flowering at peak flowering time.



21: 2019/03940. 22: 2019/06/18. 43: 2022/10/12
51: A61K; A61P
71: Sarepta Therapeutics, Inc.
72: PASSINI, Marco A., HANSON, Gunnar J.
33: US 31: 62/436,199 32: 2016-12-19
54: EXON SKIPPING OLIGOMER CONJUGATES FOR MUSCULAR DYSTROPHY
00: -
Antisense oligomer conjugates complementary to a selected target site in the human dystrophin gene to induce exon 45 skipping are described.

21: 2019/03954. 22: 2019/06/18. 43: 2022/10/12
51: A01N; A01P
71: FMC CORPORATION
72: SHINN, SANDRA L, D'AMICO, FRANK J. JR, DUUS, JOACHIM
33: US 31: 62/437,963 32: 2016-12-22
33: US 31: 62/471,444 32: 2017-03-15
54: MIXTURES OF BEFLUBUTAMID OR OPTICALLY ENRICHED FORMS THEREOF WITH A SECOND HERBICIDE
00: -
The present application discloses herbicidal compositions containing a first herbicide beflubutamid, or an optically enriched form thereof, and a second herbicide selected from WSSA Group 15 herbicides, WSSA Group 13 herbicides, WSSA Group 27 herbicides, WSSA Group 9 herbicides, WSSA Group 10 herbicides, WSSA Group 22 herbicides, WSSA Group 7 herbicides, WSSA Group 3 herbicides, WSSA Group 14 triazolinone herbicides, WSSA Group 1 cyclohexanedione herbicides, WSSA Group 2 imidazolinone herbicides, WSSA Group 14 N-phenylphthalimide herbicides, WSSA Group 14 diphenylether herbicides, WSSA Group 14 pyrimidinedione herbicides, WSSA Group 5 1,2,4-triazine herbicides and herbicides selected from metamifop, atrazine, fenoxaprop-P-ethyl, 2,4-D (2,4-dichlorophenoxyacetic acid), florasulam, halosulfuron-methyl and prosulfocarb. The application also discloses a method of controlling undesired vegetation in a crop by applying to the locus of such vegetation a herbicidally effective amount of a herbicidal composition.

21: 2019/03977. 22: 2019/06/19. 43: 2022/10/12
51: A23K
71: Hill's Pet Nutrition, Inc.
72: GEBRESALASSIE, Eden Ephraim, JACKSON, Matthew, JEWELL, Dennis
33: US 31: 62/439,205 32: 2016-12-27
54: PET FOOD COMPOSITIONS AND METHODS FOR THE SAME
00: -
Pet food compositions and methods for increasing body weight and decreasing indoles in a feline having renal insufficiency are provided. The methods may include feeding the feline an effective amount of the pet food composition. The pet food composition may include fermentable fibers and betaine.



21: 2019/03979. 22: 2019/06/19. 43: 2022/10/10
51: A23K
71: Hill's Pet Nutrition, Inc.
72: GEBRESALASSIE, Eden Ephraim, JACKSON, Matthew, JEWELL, Dennis
33: US 31: 62/439,214 32: 2016-12-27
54: PET FOOD COMPOSITIONS AND METHODS FOR THE SAME
00: -
Pet food compositions and methods for improving food intake of a pet are provided. The method may include providing an effective amount of the pet food composition including fermentable fibers and betaine in a wet formulation.

21: 2019/03983. 22: 2019/06/19. 43: 2022/10/12
51: A61K
71: NELSON MANDELA UNIVERSITY
72: VORSTER, NICOLE MADELEINE, POSTMA-BOTHA, MARTHA LEONA
33: ZA 31: 2016/08578 32: 2016-12-12
54: OLEA EUROPAEA POMACE EXTRACT AND METHOD FOR PRODUCING THE EXTRACT

00: -
The present invention provides for an extract that is produced from pomace obtained from an Olea europaea fruit oil production process. The extract comprises a mixture of oil-soluble and water-soluble compounds including hydroxytyrosol, tyrosol, oleuropein, a-tocopherol, and squalene. The invention further provides for a method of producing the extract, and formulations comprising the extract.

21: 2019/04001. 22: 2019/06/20. 43: 2022/10/12
51: A23K
71: Hill's Pet Nutrition, Inc.
72: JEWELL, Dennis Edward, BROCKMAN, Jeffrey, SCHERL, Dale, DAVIDSON, Stephen, GOLDER, Christina, AVILA, Albert
54: PET FOOD COMPOSITIONS
00: -
Described herein are methods and compositions for - inter alia - lowering the specific gravity of urine and lowering the calcium oxalate risk index of in felines. In particular, diets and methods utilizing certain amounts and ratios of arachidonic acid (AA), eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA).

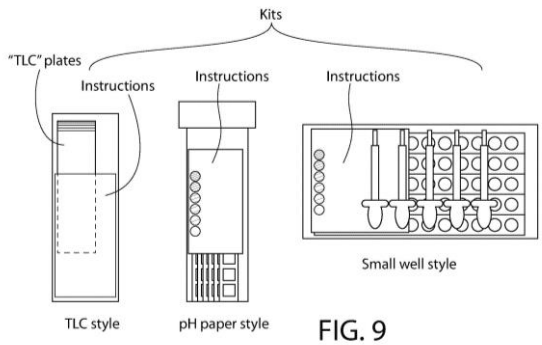
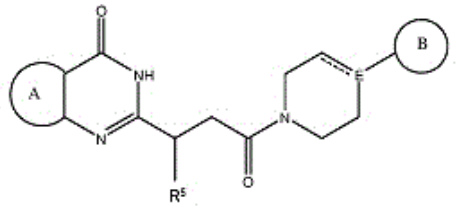


FIG. 9

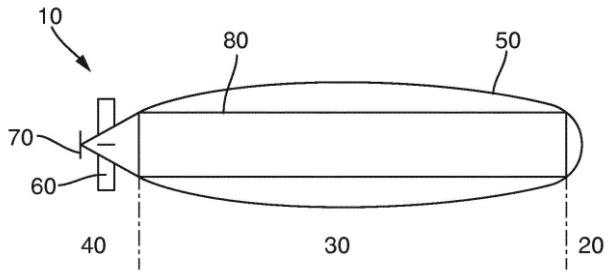
21: 2019/04002. 22: 2019/06/20. 43: 2022/10/10
51: A61K; A61Q
71: Colgate-Palmolive Company
72: DONG, Rong, XU, Guofeng
33: US 31: 62/445,378 32: 2017-01-12
54: ORAL CARE COMPOSITION FOR LONG-LASTING PEROXIDE DELIVERY
00: -
A tooth whitening composition includes a hydrophobic copolymer, a hydrophilic whitening agent and a polar solvent.

21: 2019/04004. 22: 2019/06/20. 43: 2022/10/12
51: C07D; A61K; A61P
71: MITOBRIDGE, INC.
72: TAKAHASHI, TAISUKE, KLUGE, ARTHUR, LAGU, BHARAT, JI, NAN
33: US 31: 62/440,581 32: 2016-12-30
54: POLY-ADP RIBOSE POLYMERASE (PARP) INHIBITORS
00: -
The present invention is related to a pharmaceutical composition comprising a pharmaceutically acceptable carrier or diluent and a compound represented by the following structural formula: The present invention is also related a method of treating a subject with a disease which can be ameliorated by inhibition of poly(ADP-ribose)polymerase (PARP). The definitions of the variables are provided herein.



(I)

21: 2019/04042. 22: 2019/06/21. 43: 2022/10/12
51: B63B; B63G
71: Thyssenkrupp Marine Systems GmbH, thyssenkrupp AG
72: AVSIC, Tom, TEPPNER, Randolf
33: DE 31: 10 2016 014 108.5 32: 2016-11-24
54: UNDERWATER CRAFT LESS LIKELY TO BE DETECTED ACROSS GREAT DISTANCES
00: -
The invention relates to an underwater craft (10) that is less likely to be detected and comprises an outer shell (50), a bow section (20), a stern section (40) and a midship section (30); the outer shell (50) of the midship section (30) has a polygonal cross-section when viewed transversely to the longitudinal direction of the underwater craft (10), and the outer shell (50) of the midship section (30) is curved along the longitudinal direction of the underwater craft (10).



21: 2019/04045. 22: 2019/06/21. 43: 2022/10/12
51: A01G
71: Cultivation Systems B.V.
72: NOORDAM, Christiaan Silvester, VAN DER KNAAP, Maurice Cornelis Antonius
33: NL 31: 2018075 32: 2016-12-23
54: GROOVED STACKABLE PANEL FOR FLOATING CULTIVATION OF PLANTS
00: -
Panel for floating cultivation of plants on water, comprising a plurality of parallel grooves at a top side which extend in a longitudinal direction of the panel and are adapted for receiving therein a substrate and a number of plants or precursors thereof in the substrate, each groove extending through the panel from a first plane at said top side to a second plane parallel to and spaced apart from said first plane, wherein the panel comprises a plurality of air chambers at a lower side which extend substantially below the second plane, each of said air chambers arranged to allow therein the formation of air roots of plants or precursors thereof which are supported in the substrate of one or more of said grooves, wherein, at said second plane, each groove is spaced apart from the circumferential side wall of the air chamber it debouches in when seen in projection onto a plane normal to the longitudinal direction, each of said grooves comprising at least two side support surfaces which extend parallel to the groove and below the top side, said side support surfaces adapted for substantially completely supporting the substrate in the groove.

Fig. 1A

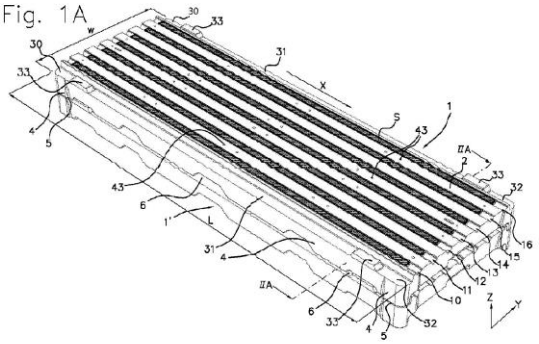
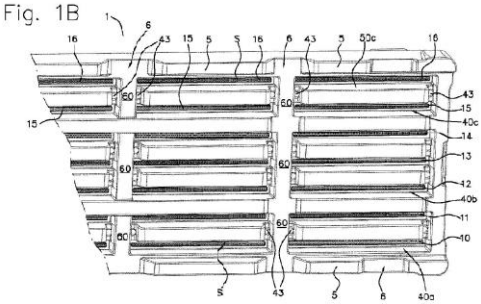


Fig. 1B



21: 2019/04051. 22: 2019/06/21. 43: 2022/10/12
51: A61K; A61P; C07K; C12N; C12P; C12Q
71: Daiichi Sankyo Company, Limited
72: NISHIMIYA, Daisuke, HASHIMOTO, Ryuji, SATO, Toshiyuki, KIMURA, Takako, YAMASAKI, Atsushi, INOUE, Tatsuya
33: JP 31: 2016-249020 32: 2016-12-22
54: PEPTIDE FOR TREATING AGE-RELATED MACULAR DEGENERATION
00: -
Provided is a novel peptide that includes an amino acid sequence indicated by SEQ ID NO: 30, and inhibits protease activity.

21: 2019/04058. 22: 2019/06/21. 43: 2022/10/12
51: H01B; H04L
71: HEXATRONIC GROUP AB
72: LO CURZIO, PETER, ANDERSSON, KARL-OVE
33: EP 31: 16200293.5 32: 2016-11-23
54: HYBRID CABLE AND ASSOCIATED COMMUNICATION SYSTEM
00: -
A communication system comprising a duct, two converter subsystems (210 and 220) to allow the transport of enough electrical energy on a higher voltage level 75 -120V DC trough a minimal diameter hybrid cable, the hybrid cable (300, 400) comprising an optical cable member (310), electric cable members (320), and a cable sheathing (330)

enclosing the optical cable member and the electric cable members. The optical cable member comprises a signal transmitting member (311) adapted to transmit optical signals along the hybrid cable and a tubular enclosure (312) enclosing the signal transmitting member. Each of the electric cable members comprises an electrically conductive interior (321) for conveying electric power and an electrically insulating layer (322) enclosing the electrically conductive interior. A thickness (D1, D2) of the insulating layer of at least one of the electrical cable members is less than or equal to 0.35 mm. The reduced insulation thickness is employed for allowing the hybrid cable to be blown into narrow ducts (190) for powering WiFi access points (225, 525).

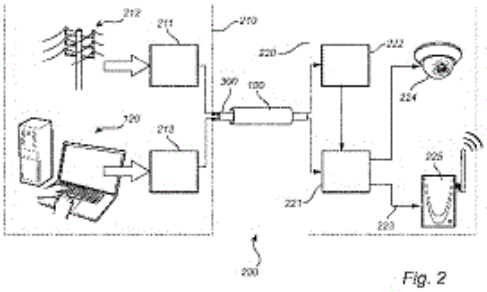
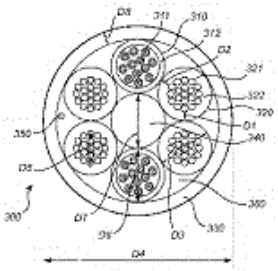
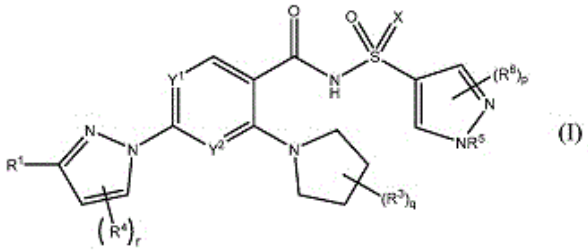


Fig. 2

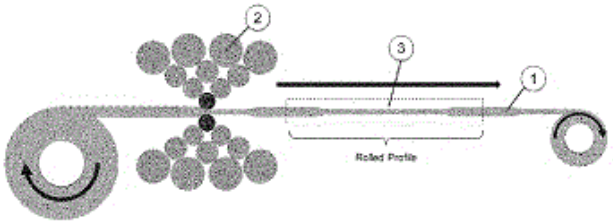


21: 2019/04062. 22: 2019/06/21. 43: 2022/10/12
51: C07D; A61K; A61P
71: VERTEX PHARMACEUTICALS INCORPORATED
72: ABELA, ALEXANDER RUSSELL, ALCACIO, TIMOTHY, ANDERSON, COREY, ANGELL, PAUL TIMOTHY, BAEK, MINSON, CLEMENS, JEREMY J, CLEVELAND, THOMAS, FERRIS, LORI ANN, GROOTENHUIS, PETER DIEDERIK JAN, GROSS, RAYMOND STANLEY, GULEVICH, ANTON, HADIDA RUAH, SARA SABINA, HSIA, CLARA KUANG-JU, HUGHES, ROBERT M, JOSHI, PRAMOD VIRUPAX, KANG, PING, KESHAVARZ-SHOKRI, ALI, KHATUYA, HARIPADA, KRENITSKY, PAUL JOHN, MCCARTNEY, JASON, MILLER, MARK THOMAS, PARASELLI, PRASUNA, PIERRE, FABRICE JEAN DENIS, SHI, YI, SHRESTHA, MUNA, SIESEL, DAVID ANDREW, STAVROPOULOS, KATHY, TERMIN, ANDREAS P, UY, JOHNNY, VAN GOOR, FREDRICK F, YOUNG, TOMOTHY JOHN, ZHOU, JINGLAN
33: US 31: 62/432,537 32: 2016-12-09
54: MODULATOR OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, PHARMACEUTICAL COMPOSITIONS, METHODS OF TREATMENT, AND PROCESS FOR MAKING THE MODULATOR
00: -
Compounds of Formula (I) pharmaceutically acceptable salts thereof, deuterated derivatives of any of the foregoing, and metabolites of any of the foregoing are disclosed. Pharmaceutical compositions comprising the same, methods of treating cystic fibrosis using the same, and methods for making the same are also disclosed. Also disclosed are solid state forms of Compound 1 and salts and solvates thereof.



(I)

21: 2019/04184. 22: 2019/06/26. 43: 2022/10/12
51: B21B
71: OUTOKUMPU OYJ
72: PINIEK, THORSTEN, ZEIDLER, ANDREAS, SCHUBERTH, STEFAN
33: EP 31: 16207599.8 32: 2016-12-30
54: METHOD AND DEVICE FOR ROLLING METAL STRIPS
00: -
The invention relates to a method for manufacturing flexible rolling of metal strips, in which a metal strip with predefinable material thickness consisting is guided through a mill stand by at least two operating steps, which is containing several rolls, the metallic strip is during the rolling operation set to lead through a roll gap, where the curve bending line is steered to achieve a defined profiles.



21: 2019/04188. 22: 2019/06/26. 43: 2022/10/12
51: A61K; C07D
71: G1 THERAPEUTICS, INC., THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS
72: STRUM, JAY C, THATCHER, GREGORY R, XIONG, RUI, ZHAO, JIONG, TONETTI, DEBRA A
33: US 31: 62/443,588 32: 2017-01-06
54: COMBINATION THERAPY FOR THE TREATMENT OF CANCER
00: -
Compositions, combinations and methods comprising the administration of a CDK4/6 inhibitor of Formula D with a selective estrogen receptor downregulator of Formula A, B or C that are advantageous for the treatment of abnormal cellular proliferation, including a cancer or a tumor.

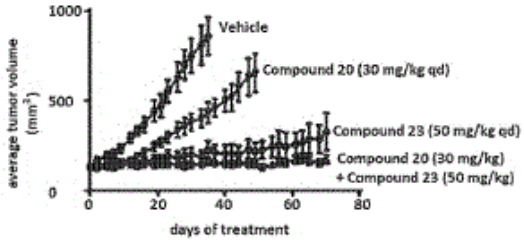


FIG. 12C

21: 2019/04269. 22: 2019/06/28. 43: 2022/10/17
51: A61K
71: ADC THERAPEUTICS SA, MEDIMMUNE LIMITED
72: VAN BERKEL, Patricius Hendrikus Cornelis
33: GB 31: 1702031.4 32: 2017-02-08
33: GB 31: 1719391.3 32: 2017-11-22
33: GB 31: 1719393.9 32: 2017-11-22
33: GB 31: 1719398.8 32: 2017-11-22
54: PYRROLOBENZODIAZEPINE-ANTIBODY CONJUGATES
00: -
The present invention relates to pyrrolobenzodiazepines (PBDs) having a labile protecting group in the form of a linker to an antibody.

21: 2019/04273. 22: 2019/06/28. 43: 2022/10/12
51: G06Q
71: nChain Holdings Limited
72: SEWELL, Martin, VSEVOLOZHSKY, Vera
33: GB 31: 1701608.0 32: 2017-01-31
33: GB 31: 1701605.6 32: 2017-01-31
54: COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR GENERATING AND EXTRACTING USER RELATED DATA STORED ON A BLOCKCHAIN
00: -
A computer implemented system and a method for providing user related data, such as reputational information, on users of a blockchain involved in transactions is detailed. The method includes an approach for evaluating fulfilment of transactions, particularly in the context of contracts, and then providing a record of that on the blockchain through reputational information. As a result, at a late time, this reputational information can be retrieved. Similar reputational information for other transactions can be retrieved and linked to the same user, for instance based on the use of a hash of the master public key for a user. Aggregate reputational information can be computed from the pieces of reputational information retrieved.

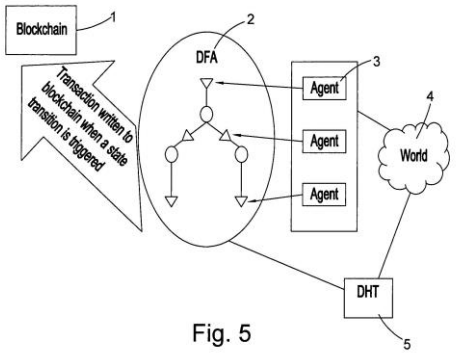


Fig. 5

21: 2019/04298. 22: 2019/06/28. 43: 2022/10/12
51: B60T; B60W
71: Modular Mining Systems, Inc.
72: UTTER, Christopher J., CASSON, William M., BRANSCOMBE, Edward A.
33: US 31: 62/462,672 32: 2017-02-23
54: VEHICLE SLIDE DETECTION
00: -
A system for monitoring vehicle dynamics and detecting adverse events during operation is presented. Position sensors attached to a vehicle

are configured to identify a vehicle orientation (heading) as well as the vehicle's direction of travel (trajectory). A system controller connected to these position sensors can detect the difference between these two measurements. When the difference between these two measurements exceeds a safety threshold, it can be an indication of a slip event. A slip event can be caused by compromised traction or stability and may lead to a loss of vehicle control. The system controller can be configured to monitor various vehicle dynamics to detect these slip events. The system controller may be configured to track geolocations of slip events to create a database of historical slip events for determining location-based risk factors and prevention of future events.

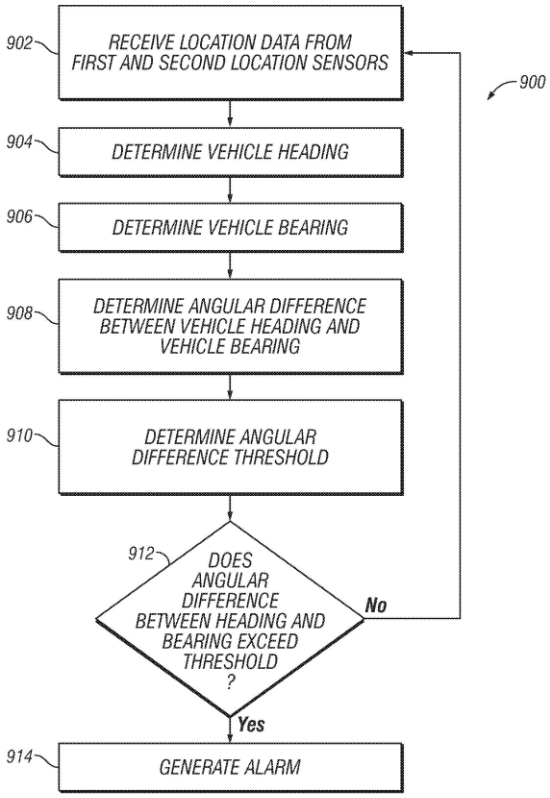


FIG. 9

21: 2019/04316. 22: 2019/06/28. 43: 2022/11/16
51: C07K; A61P
71: TESARO, INC.
72: JENKINS, David, LAKEN, Haley, IM, Ellie, DIAZ, Allene, LU, Sharon
33: US 31: 62/444,336 32: 2017-01-09
33: US 31: 62/477,423 32: 2017-03-27
33: US 31: 62/491,220 32: 2017-04-27
33: US 31: 62/556,386 32: 2017-09-09

54: METHODS OF TREATING CANCER WITH ANTI-PD-1 ANTIBODIES

00: -

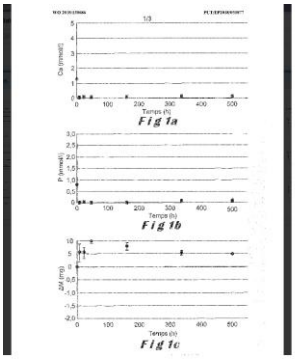
The present invention provides methods of administering certain PD-1 binding agents to patients having cancer. Dosage regimens for compositions comprising a PD-1 binding agent are also explicitly provided.

21: 2019/04400. 22: 2019/07/04. 43: 2021/10/08
51: A61L
71: WISHBONE
72: DORY, Emilie, ROMPEN, Eric, LAMBERT, France, LECLOUX, Geoffrey
33: EP 31: PCT/EP2017/050779 32: 2017-01-16
33: BE 31: BE2017/5025 32: 2017-01-16

54: BONE REGENERATION MATERIAL

00: -

The present invention relates to a bone regeneration material comprising:-a solid first phase of hydroxyapatite of natural origin which is macroporous, having pores of diameters greater than or equal to 50 pm, preferably pores of diameters between 50 and 100 pm, and - a solid synthetic second phase of calcium phosphate intended to enrich said first phase, said second phase having a Ca/P molar ratio of between 0.2 and 2, preferably of between 0.3 and 1.8, preferentially of between 0.5 and 1.65, said bone regeneration material having a defined weight ratio of said solid first phase of hydroxyapatite of natural origin to said solid synthetic second phase of calcium phosphate of between 99/1 and 1/99.



21: 2019/04862. 22: 2019/07/24. 43: 2022/10/12
51: C01C; C01B
71: HALDOR TOPSØE A/S

72: SPETH, CHRISTIAN HENRIK, DAHL, PER JUUL, KRØLL JENSEN, ANNETTE E, SCHJØDT, NIELS CHRISTIAN, SYMRENG, MARCUS
33: DK 31: PA 2017 00159 32: 2017-03-07

54: AMMONIA PROCESS USING ADVANCED SHIFT PROCESS

00: -

A process for producing an ammonia synthesis gas, said process comprising the steps of: - Reforming a hydrocarbon feed in a reforming step thereby obtaining a synthesis gas comprising CH_4, CO, CO_2, $H_2$and H_2O, - Shifting the synthesis gas in one or more shift steps in series, - Optionally wash the synthesis gas leaving the shift section with water, - Sending the process condensate originating from cooling and washing the synthesis gas leaving the shift section to a process condensate stripper wherein the dissolved shift byproducts and dissolved gases are stripped out of the process condensate using steam resulting in a steam stream containing more than 99% of the dissolved methanol in process condensate. - Adding all or part of said steam stream from the process condensate stripper to the synthesis gas downstream the reforming step, prior to the last shift step, wherein - The steam/carbon ratio in the reforming step and the shift step is less than 2.6.

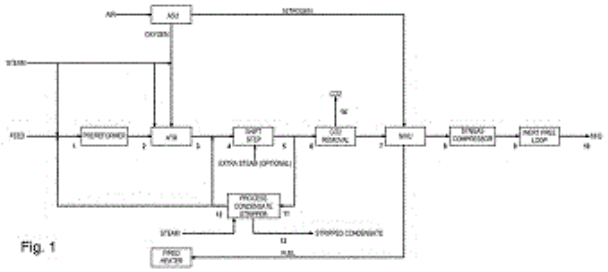


Fig. 1

21: 2019/04922. 22: 2019/07/26. 43: 2022/10/12
51: C01C; C07C; C01B
71: HALDOR TOPSØE A/S
72: SPETH, CHRISTIAN HENRIK, DAHL, PER JUUL, KRØLL JENSEN, ANNETTE E, SCHJØDT, NIELS CHRISTIAN, SYMRENG, MARCUS
33: DK 31: PA 2017 00159 32: 2017-03-07

54: UREA PROCESS WITH CONTROLLED EXCESS OF CO2 AND/OR NH3

00: -

A process for producing UREA, said process comprising the steps of: - purification of a hydrocarbon feed gas removing Sulphur and/or chloride components if present, - reforming the hydrocarbon feed gas in a reforming step where the steam/carbon ratio is less than 2.6 thereby obtaining a synthesis gas comprising CH4, CO, CO2, H2 and H2O, - optionally adding H2O to the synthesis gas from the reforming step maintaining an overall steam/carbon less than 2.6, - shifting the synthesis gas in a shift section comprising one or more shift steps preferably in series, - optionally washing the synthesis gas leaving the shift section with water, - removing CO2 from the synthesis gas from the shift section in a CO2 removal step to obtain a synthesis gas with less than 500 ppm CO2, preferably less than 20 ppm CO2 and a CO2 product gas, - removing residual H2O and/or CO2 from the synthesis gas preferably in an ab- sorbent step, - removing CH4,CO, Ar and/or He preferably in a nitrogen wash unit and adding stoichiometric nitrogen to produce NH3to the synthesis gas, - synthesizing NH3 to obtain a NH3 product, - adding at least part of the product CO2 and at least part of the NH3 product to a UREA synthesis step to make a UREA product, Wherein the amount of excess CO2 and/or NH3 is controlled by adjusting the steam/carbon in the reforming step and/or the H2O addition upstream the shift step and/or adjusting the inlet temperature to at least one of the one or more shift steps.

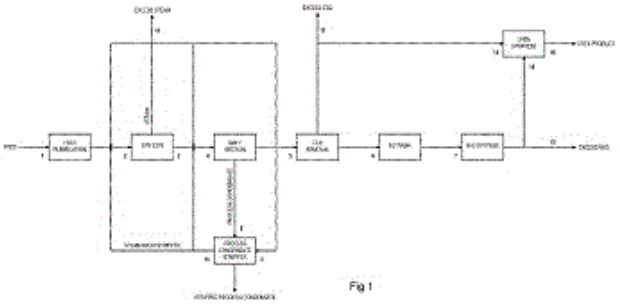


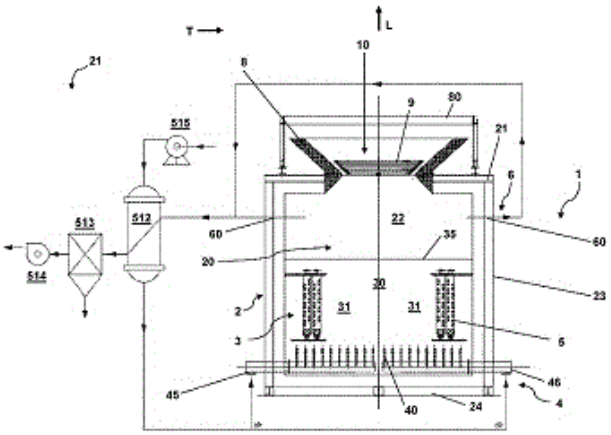
Fig 1

21: 2019/04965. 22: 2019/07/29. 43: 2022/10/12
51: F24S; F03G
71: MAGALDI POWER S.P.A.
72: MAGALDI, MARIO, CHIRONE, RICCARDO, SALATINO, PIERO, AMMENDOLA, PAOLA, SOLIMENE, ROBERTO
33: IT 31: 102017000010774 32: 2017-02-01
33: IT 31: 102017000010806 32: 2017-02-01

54: HIGH ENERGY-EFFICIENT DEVICE, SYSTEM AND METHOD FOR THE USE OF THERMAL ENERGY OF SOLAR ORIGIN

00: -

A device (1) for accumulation and exchange of thermal energy of solar origin, which device (1) is configured to receive a solar radiation concentrated by an optical system, which device (1) comprises: - a casing (2) which defines an internal compartment (20) and has an irradiation opening (10; 10') configured to allow the entry of the concentrated solar radiation, which opening (10; 10') puts in direct communication said inner compartment (20) with the external environment being devoid, in use, of closure or screen means; - a bed (3) of fluidizable solid particles, received within said inner compartment (20) of said casing (2), which bed (3) has an operative region (30) directly exposed, in use, to the concentrated solar radiation that enters through said opening (10; 10'), in such a way that the particles of said operative region (30) absorb thermal energy from solar radiation; and - fluidization means (4) of said bed of particles (3), configured to adduce a fluidizing gas into said compartment (20) at least at said operative region (30).

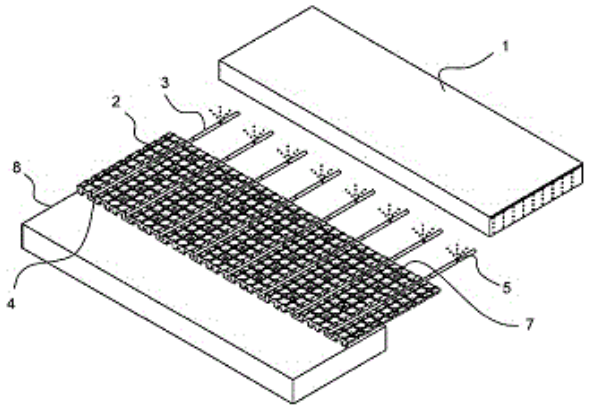


21: 2019/05091. 22: 2019/07/31. 43: 2022/10/12
51: E01C
71: BACHER, WOLFGANG
72: BACHER, WOLFGANG, HOEFLER, ROBERT
33: DE 31: 10 2017 201 564.0 32: 2017-01-31
33: DE 31: 10 2017 212 824.0 32: 2017-07-26
33: DE 31: 10 2017 202 251.5 32: 2017-02-13

54: RIDING SURFACE AND METHOD FOR CONSTRUCTING A RIDING SURFACE

00: -

The invention relates to a riding surface, having a stepping layer (1) and a mat (2) arranged between the ground and the stepping layer, drip tubes (3) for watering the stepping layer being embedded in the mat, preferably in grooves on the side of the mat facing the stepping layer.

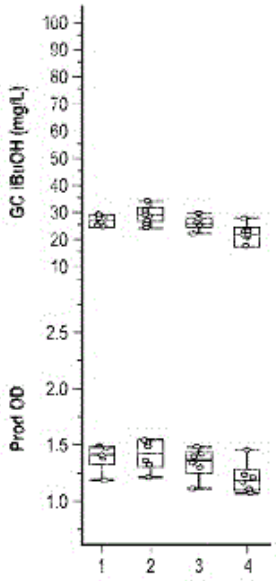


21: 2019/05095. 22: 2019/07/31. 43: 2022/10/12
51: C12N
71: INTREXON CORPORATION
72: HELD, MARK ANTON, ZHAO, XINHUA, CHAO, LILY YUIN, TRINH, NA, KEALEY, JAMES, DIETZEL, KEVIN LEE
33: US 31: 62/504,626 32: 2017-05-11
33: US 31: 62/512,312 32: 2017-05-30
33: US 31: 62/451,819 32: 2017-01-30
33: US 31: 62/588,985 32: 2017-11-21

54: MOLECULAR SWITCHES

00: -

Genetically modified microorganisms that have the ability to convert carbon substrates into chemical products such as 2,3-BDO; 1,4-BDO; isobutyraldehyde; isobutanol; 1-butanol; n-butanol; ethanol; fatty alcohols; and fatty acid methyl ester are disclosed. For example, genetically modified methanotrophs that are capable of generating 2,3-BDO; 1,4-BDO; isobutyraldehyde; isobutanol; 1-butanol; n-butanol; ethanol; fatty alcohols; and fatty acid methyl ester at high titers from a methane source are disclosed. Methods of making these genetically modified microorganisms and methods of using them are also disclosed. These microorganisms and methods make use of molecular switches to regulate gene expression.

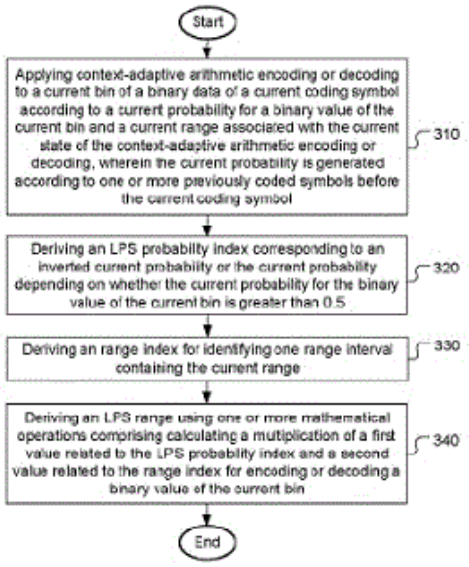


21: 2019/05142. 22: 2019/08/02. 43: 2022/10/12
51: H04N
71: HFI INNOVATION INC.
72: CHUANG, TZU-DER, CHEN, CHING-YEH
33: US 31: 15/863,547 32: 2018-01-05
33: US 31: 62/443,012 32: 2017-01-06

54: METHOD AND APPARATUS FOR RANGE DERIVATION IN CONTEXT ADAPTIVE BINARY ARITHMETIC CODING

00: -

A method and apparatus of entropy coding of coding symbols using Context-Based Adaptive Binary Arithmetic Coder (CABAC) are disclosed. According to the present invention, CABAC encoding or decoding is applied to a current bin of a binary data of a current coding symbol according to a current probability for a binary value of the current bin and a current range associated with the current state of arithmetic coder. An LPS probability index corresponding to an inverted current probability or the current probability is derived depending on whether the current probability is greater than 0.5. A range index is derived for identifying one range interval containing the current range. An LPS range is then derived using one or more mathematical operations comprising calculating a multiplication of a first value related to the LPS probability index and a second value related to the range index n.



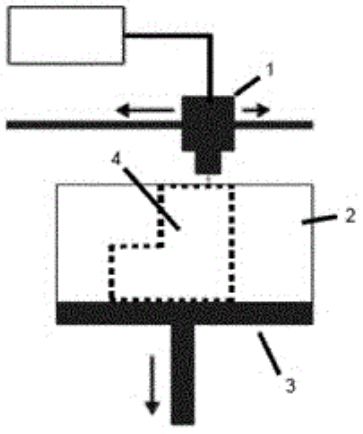
21: 2019/05339. 22: 2019/08/13. 43: 2022/09/20
51: C12N C07K
71: BASF AGRICULTURAL SOLUTIONS SEED US LLC
72: MILLER, Gabriel, DUNN, Ethan, DOROGHAZI, James, LEHTINEN, Duane, SCHOUTEN, Laura, DEBRECHT, Andrew, GIEBEL, Jonathan, VAKNIN, Daniel, ZHENG, Xunhai, PITCHER, Kathleen, Marie
33: US 31: 62/447,592 32: 2017-01-18

54: BP005 TOXIN GENE AND METHODS FOR ITS USE

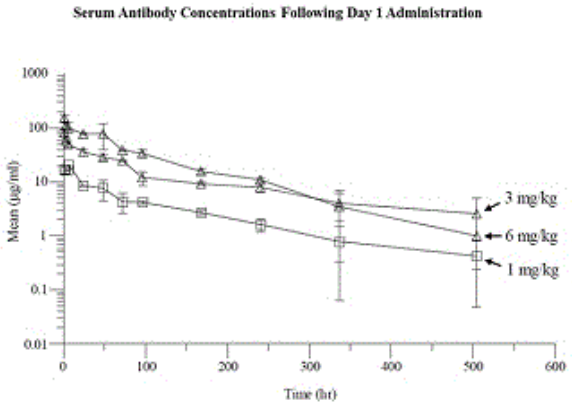
00: -

Compositions and methods for conferring pesticidal activity to bacteria, plants, plant cells, tissues and seeds are provided. Compositions comprising a coding sequence for a toxin polypeptide are provided. The coding sequences can be used in DNA constructs or expression cassettes for transformation and expression in plants and bacteria. Compositions also comprise transformed bacteria, plants, plant cells, tissues, and seeds. In particular, isolated toxin nucleic acid molecules are provided. Additionally, amino acid sequences corresponding to the polynucleotides are encompassed, and antibodies specifically binding to those amino acid sequences. In particular, the present invention provides for isolated nucleic acid molecules comprising nucleotide sequences encoding the amino acid sequence shown in any of SEQ ID NO: 1-40, 42, 43, 45-48, 50, 51, 52, 54, 56, 58-64, 66, or 67, or the nucleotide sequence set forth in any of SEQ ID NO:69-106, as well as variants and fragments thereof.

21: 2019/05495. 22: 2019/08/20. 43: 2022/10/12
51: B22F; B33Y
71: HÖGANÄS AB
72: NILSSON, SOFIA, FERRAND DRAKE DEL CASTILLO, RAGNAR, AHLIN, ÅSA
33: EP 31: 17156456.0 32: 2017-02-16
54: PARTICLES HAVING A SINTERABLE CORE AND A POLYMERIC COATING, USE THEREOF, AND ADDITIVE MANUFACTURING METHOD USING THE SAME
00: -
The present invention provides particles each having a sinterable core and a polymeric coating on at least a part of the core, wherein the polymeric coating comprises a polymer that can be removed via decomposition by heat, catalytically or by solvent treatment, and wherein the polymeric coating is present in an amount of 0.10 to 3.00 % by weight, relative to the total weight of the particles, as well as the use of these particles in an additive manufacturing process such as a powder bed and inkjet head 3D printing process. The particles and the process are able to provide a green part having improved strength and are thus suitable for the production of delicate structures which require a high green strength in order to minimize the risk of structural damage during green part handling.



21: 2019/05677. 22: 2019/08/28. 43: 2022/10/12
51: A61K; C07K
71: SEAGEN INC.
72: DRANSFIELD, DANIEL T, PRENDERGAST, JILLIAN M, EAVARONE, DAVID A
33: US 31: 62/480,126 32: 2017-03-31
33: US 31: 62/563,718 32: 2017-09-27
33: US 31: 62/577,830 32: 2017-10-27
33: US 31: 62/466,766 32: 2017-03-03
33: US 31: 62/486,826 32: 2017-04-18
54: GLYCAN-INTERACTING COMPOUNDS AND METHODS OF USE
00: -
Methods of treating cancer are provided that include administering glycan-interacting antibodies. Included are anti-sialyl Tn antigen antibodies and related compositions and formulations suitable to achieve desirable bioactivity, bioavailability, and toxicity levels.

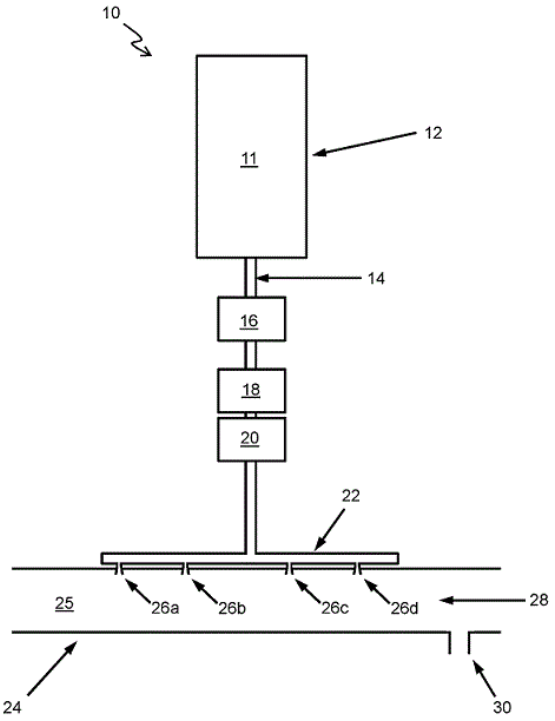


21: 2019/05977. 22: 2019/09/10. 43: 2022/10/12
51: C12Q
71: SELF-SCREEN B.V.
72: MEIJER, CHRISTOPHORUS JOHANNES LAMBERTUS MARIA, STEENBERGEN, RENSKE DANIËLA MARIA, SNIJDERS, PETRUS JOSEPHUS FERDINANDUS (DECEASED), HEIDEMAN, DANIËLLE ANNE MARIE
33: EP 31: 17160346.7 32: 2017-03-10
54: A METHYLATION CLASSIFIER FOR DETECTION OF HPV-INDUCED INVASIVE CANCERS, NONHPV- INDUCED GYNAECOLOGICAL AND ANOGENITAL CANCERS AND THEIR HIGH-GRADE PRECURSOR LESIONS
00: -
The invention relates to method for detecting HPV-induced high-grade precancerous lesions, HPV-induced invasive cancers and nonHPV-induced gynaecological and anogenital cancers, said method comprising detection of a methylation classifier consisting of the genes LHX8, ASCL1 and ST6GALNAC5 and their regulatory sequence in a cell whereby such hypermethylation indicates the presence of HPV- induced precursor lesions with

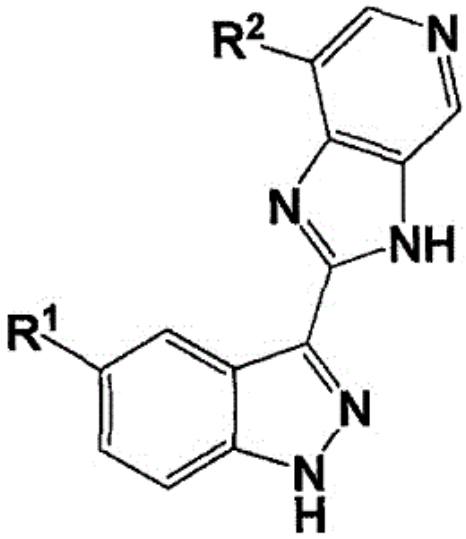
invasive potential, HPV-induced invasive cancers and nonHPV-induced gynaecological and anogenital cancers. The invention further comprises the use of the methylation classifier consisting of genes LHX8, ASCL1 and ST6GALNAC5 and their regulatory sequence in such a method and a test kit for the detection of LHX8. ASCL1 and/or ST6GALNAC5 methylation.

21: 2019/06326. 22: 2019/09/25. 43: 2022/10/12
51: C07D; A61K; A61P
71: AUSPEX PHARMACEUTICALS, INC.
72: ZHANG, CHENGZI, KERR, JIM
33: US 31: 62/471,484 32: 2017-03-15
54: ANALOGS OF DEUTETRABENAZINE, THEIR PREPARATION AND USE
00: -
The disclosure is directed to deutetrabenazine analogs, compositions comprising same and methods of detecting same in compositions comprising deutetrabenazine.

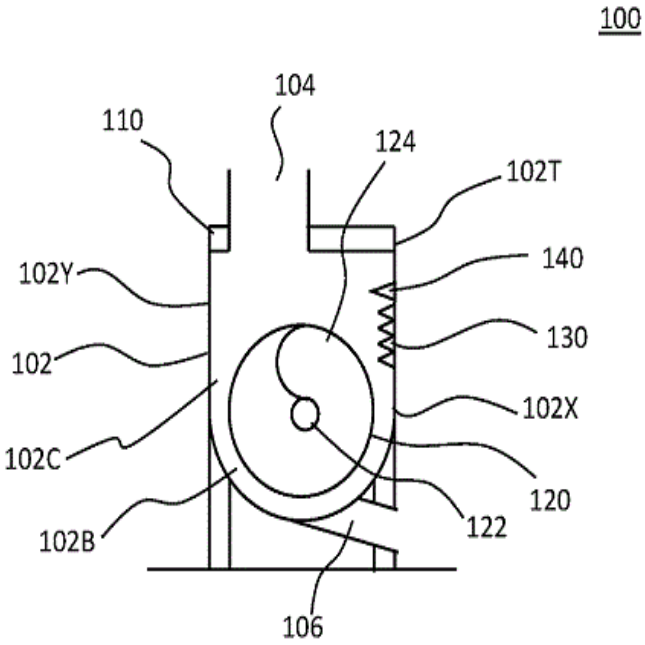
21: 2019/06348. 22: 2019/09/26. 43: 2022/10/12
51: B01D B01J
71: STEDING, Paul
72: STEDING, Paul, MCDANIELL, Richard, Norman
33: AU 31: 2017900746 32: 2017-03-03
54: FLUE GAS EMISSIONS REDUCTION TECHNOLOGY
00: -
The disclosure provides a method of treating flue gas that has one or more components. The method comprises passing a solution through both a magnetic field and an electric field to form an activated solution. The method also comprises contacting the activated solution with the flue gas so that the one or more components of the flue gas are at least partially absorbed by the activated solution to form a residue solution.



21: 2019/06378. 22: 2019/09/27. 43: 2022/10/12
51: A01N
71: SAMUMED, LLC
72: HOOD, JOHN, WALLACE, DAVID MARK, KC, SUNIL KUMAR
33: US 31: 61/620,107 32: 2012-04-04
54: INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF
00: -
lndazole compounds for treating various diseases and pathologies are disclosed. Moreparticularly, the present invention concerns the use of an indazole compound or analogs thereof, in the treatment of disorders characterized by the activation of Wnt pathway signaling (e.9., cancer, abnormal cellular proliferation, angiogenesis, Alzheimer's disease,lung disease and osteoarthritis), the modulation of cellular events mediated by Wnt pathway signaling, as well as genetic diseases and neurological conditions/disorders/diseases due to mutations or dysregulation of the Wnt pathway and/or of one or more of Wnt signaling components. Also provided are methods for treating Wnt-related disease states. One embodiment disclosed herein includes a compound having the structure of Formula l.



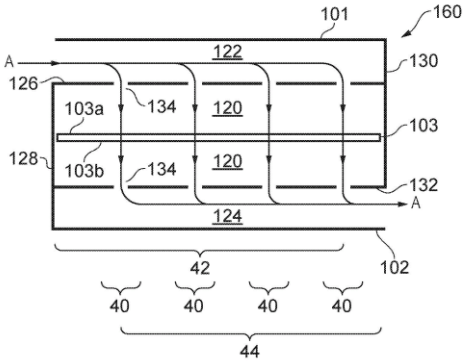
21: 2019/06658. 22: 2019/10/09. 43: 2022/10/19
51: C02F B01J B09B F26B
71: TRIA PTE. LTD
72: TAN, Meng Chong, NG, Pei Kang
54: APPARATUS FOR TREATING MIXED WASTE AND METHOD THEREOF
00: -
The present invention relates to an apparatus for treating mixed waste, for example, an apparatus for degrading bioplastic material in the mixed waste. The apparatus includes an electromagnetic wave emitter adapted to emit an electromagnetic wave on to the mixed waste; a movement inducing device adapted to move the mixed waste when the electromagnetic wave is being emitted onto the mixed waste such that the mixed waste is moved to increase the exposure of the mixed waste to the electromagnetic wave; and at least one of a heat emitter adapted to emit heat and a moisture emitter adapted to emit moisture onto the mixed waste. The present invention further relates to a method of treating mixed waste.



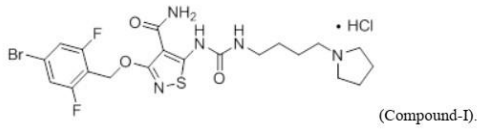
21: 2019/06802. 22: 2019/10/15. 43: 2022/11/24
51: B21J; B21K; B23B; C21D
71: TRANSNET SOC LTD
72: MATJEKE,Velaphi Jeffrey, MALEKA,Makgalake Audrey, MUKWEVHO,Goodness, PILLAY,Keshini, GOVENDER,Dhurasha, MAMPHEKGO,Tefelo Calystus
33: ZA 31: 2018/06977 32: 2018-10-19
54: METHOD OF MANUFACTURING A HOLLOW RAILWAY AXLE
00: -
The present invention relates to a method 10 of manufacturing a hollow axle, the method including metalworking a casting product into a shape of the axle 12;heat treating said axle 14;quenching said axle in a predefined quenching medium 16;forming a through bore in the axle obtained from step (c)18;heat treating the axle with the through bore formed in the step(d) 20;quenching the axle after the heat treatment stage in step (e) in a predefined quenching medium 22;and heat treating the axle obtained from the quenching stage in step (f)24.The invention also extends to a method 100 of modifying an existing solid axle into a hollow axle.

21: 2019/06959. 22: 2019/10/22. 43: 2022/10/12
51: A24F; A61M
71: Nicoventures Trading Limited
72: BUCHBERGER, Helmut

33: GB 31: 1707805.6 32: 2017-05-16
54: ATOMISER FOR VAPOUR PROVISION DEVICE
00: -
An atomiser for a vapour provision system comprises a vaporisation chamber having a volume; a vapour generating element disposed in the vaporisation chamber for providing vapour into the vaporisation chamber volume; at least one plenum chamber separated from the vaporisation chamber; and an air flow path through the atomiser comprising a vapour collecting portion through the vaporisation chamber smaller than said volume, along which air travels to collect vapour provided by the vapour generating element, and at least one transport portion through a plenum chamber, the or each transport portion delivering air to or collecting air from the vapour collection portion.

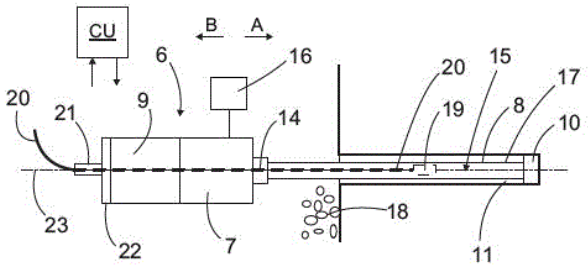


21: 2019/07176. 22: 2019/10/30. 43: 2022/11/16
51: A61K; A61L
71: PANOPTICA, INC.
72: BINGAMAN, DAVID, P., CHANEY, PAUL, G., WAX, MARTIN, B.
33: US 31: 61/784,681 32: 2013-03-14
54: OCULAR FORMULATIONS FOR DRUG-DELIVERY TO THE POSTERIOR SEGMENT OF THE EYE
00: -
The present invention relates to topical formulations comprising a compound of the following formula: for treating ocular neovascularization. The Compound-I is present in a solution or a suspension in about 0.005% to about 5.0% w/v, such that the solution or suspension delivers the compound at the posterior segment of the eye for inhibiting VEGF in the retina and/or the choroid.

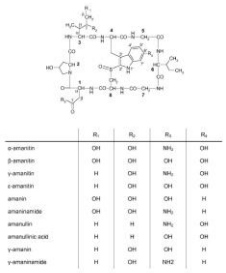


(Compound-I).

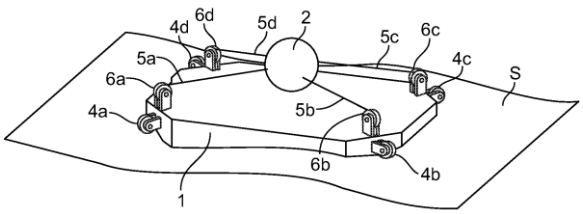
21: 2019/07948. 22: 2019/11/29. 43: 2022/10/12
51: E21B
71: Sandvik Mining and Construction Oy
72: PIISPANEN, Juha, LEINO, Timo, LAUNIS, Sirpa
33: EP(FI) 31: 18215478.1 32: 2018-12-21
54: ROCK DRILLING MACHINE, ROCK DRILLING RIG AND MEASURING METHOD
00: -
A rock drilling machine, rock drilling rig and method of measuring physical fea-tures during rock drilling. The rock drilling machine (6) comprises one or more sensing devices (19) which are arranged in connection with a bendable sensing cord (20). The sensing cord is fed via a feed passage (21) to a flushing passage (15) of a drilling tool (8).



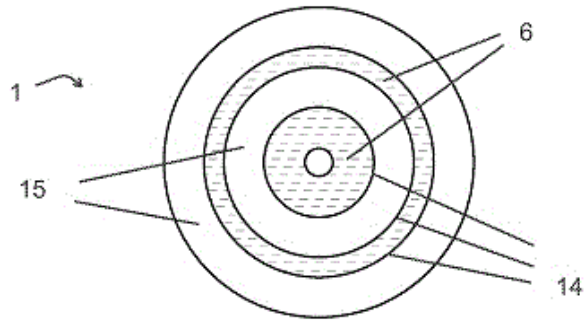
21: 2019/08158. 22: 2019/12/09. 43: 2022/11/29
51: A61K; C07D; C07K; A61P
71: HEIDELBERG PHARMA RESEARCH GMBH
72: Christian LUTZ (German Citizen), Werner SIMON (German Citizen), Susanne WERNER-SIMON (German Citizen), Christoph MÜLLER (German Citizen), Thorsten HECHLER (German Citizen), Michael KULKE (German Citizen)
33: EP 31: 17185182.7 32: 2017-08-07
54: NOVEL METHOD FOR SYNTHESIZING AMANITINS
00: -
The invention relates to novel methods for synthesizing amanitin derivatives having a hydroxy group attached to the central tryptophan moiety. The invention furthermore relates to novel amanitin derivatives having a hydroxy group attached to position 4', 5' or 7' of the central tryptophan moiety, novel conjugates of such amanitin derivatives, and pharmaceutical compositions comprising such conjugates.



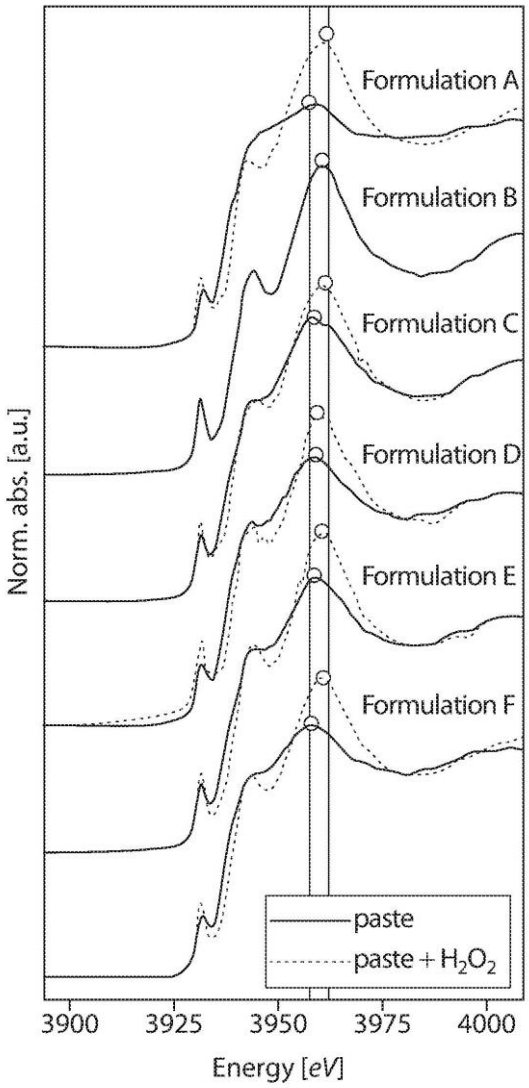
21: 2019/08573. 22: 2019/12/23. 43: 2022/11/21
51: F03B
71: MARINE POWER SYSTEMS LIMITED
72: FOSTER, Graham
33: GB 31: 1710550.3 32: 2017-06-30
54: WAVE POWERED GENERATOR
00: -
A generator for capturing and converting wave energy into a more useful form is provided. The generator comprises: at least one energy capturing float (2) which is movable in response to wave motion; a reaction member (1) to be positioned below the energy capturing float; connecting lines (5a, 5b, 5c, 5d) for connecting the at least one energy capturing float to the reaction member and defining a spacing (D2) between the energy capturing float and the reaction member; energy convertors (6a, 6b, 6c, 6d) for converting relative movement between the reaction member and at least one respective energy capturing float to useful energy. The generator includes depth setting means such as adjustable mooring lines (3a, 3b, 3c, 3d) securing the reaction member to the sea bed SB for setting the depth (D1) of the reaction member in the sea. Both the float and the reaction member possess a positive buoyancy, allowing suitable tension to be applied to the mooring lines. The improved tension brought about by the net positive buoyancy has the surprising effect of improved stability in energetic sea conditions.



21: 2020/00236. 22: 2020/01/14. 43: 2022/10/06
51: B03D
71: METSO OUTOTEC FINLAND OY
72: YANEZ, ALEJANDRO, GRAU, RODRIGO
54: A FROTH FLOTATION ARRANGEMENT AND A FROTH FLOTATION METHOD
00: -
The invention comprises a froth flotation arrangement and method for treating mineral ore particles suspended in slurry. The froth flotation arrangement comprising a flotation cell (1) for separating the slurry (2) into an underflow (3) and an overflow (4), wherein the arrangement comprises: a primary line (18) comprising at least three flotation cells (1) connected in series, wherein each subsequent flotation cell (1) is arranged to receive the underflow (3) from the previous flotation cell (1), the flotation cell (1) comprising a tank (5), and the flotation cell (1) comprising an impeller (7) within the tank (5), and the flotation cell (1) comprising a gas supply (8) within the tank (5), the tank (5) comprising a volume of at least 200 m3, the flotation cell (1) comprising a froth collection launder (15) capable to receive the overflow (4), the froth collection launder (15) comprising a froth overflow lip (14), the flotation cell (1) having an available froth surface area (A froth), the flotation cell having a pulp area (A pulp), where the pulp area (A pulp) is calculated as an average from the cross sectional areas of the tank (5) at the height (hi) of the impeller (7). A ratio between a height (h) from a bottom (13) of the tank (5) to the froth overflow lip (14) of the froth collection launder (15) and the diameter (D) of the tank (5) at the height (hi) of the impeller (7) (h/D) is less than 1,5. The third flotation cell (1) or subsequent flotation cell (1) in the series has a ratio between an available froth surface area and the pulp area (A froth/A pulp) less than 0,45.

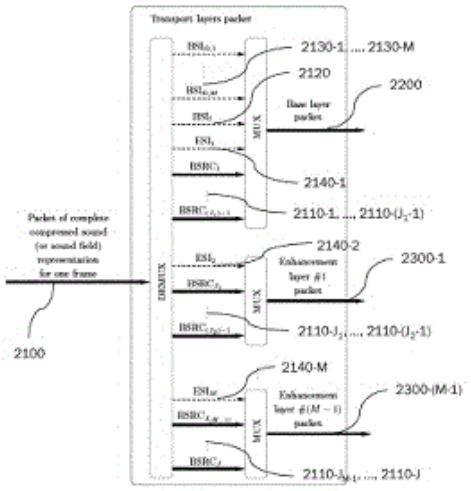


21: 2020/01832. 22: 2020/03/23. 43: 2022/10/12
51: G01N
71: Colgate-Palmolive Company, Northwestern University
72: FITZGERALD, Michael, PAPPAS, Iraklis, GAILLARD, Jean-Francois, ALSINA CORVALAN, Marco
33: US 31: 62/599,824 32: 2017-12-18
54: ANALYTICAL METHODS
00: -
The disclosure contains a method of quantifying and/or evaluating metal ions in a dentifrice, wherein the method comprises subjecting the dentifrice to X-ray absorption spectroscopy (XAS), and wherein the XAS is used to measure and/or evaluate the metal ions in the dentifrice. Also disclosed are methods of selecting and screening for dentifrices based upon the evaluation and quantification of their metal ion content.



21: 2020/01983. 22: 2020/05/04. 43: 2022/10/06
51: G10L
71: DOLBY INTERNATIONAL AB
72: KORDON, SVEN, KRUEGER, ALEXANDER
33: EP 31: 15306653.5 32: 2015-10-15
33: US 31: 62/361,416 32: 2016-07-12
33: US 31: 62/361,461 32: 2016-07-12
33: EP 31: 15306589.1 32: 2015-10-08
54: LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS
00: -
The present document relates to a method of layered encoding of a compressed sound representation of a sound or sound field. The compressed sound representation comprises a basic compressed sound representation comprising a

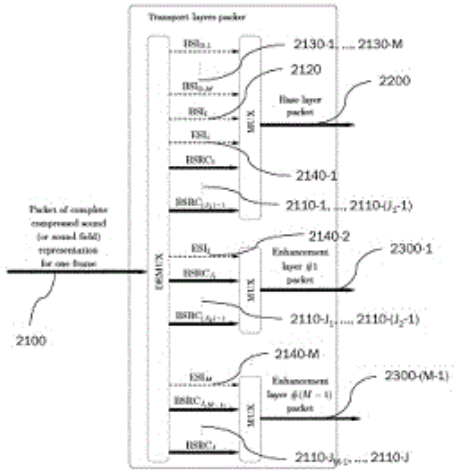
plurality of components, basic side information for decoding the basic compressed sound representation to a basic reconstructed sound representation of the sound or sound field, and enhancement side information including parameters for improving the basic reconstructed sound representation. The method comprises sub-dividing the plurality of components into a plurality of groups of components and assigning each of the plurality of groups to a respective one of a plurality of hierarchical layers, the number of groups corresponding to the number of layers, and the plurality of layers including a base layer and one or more hierarchical enhancement layers, adding the basic side information to the base layer, and determining a plurality of portions of enhancement side information from the enhancement side information and assigning each of the plurality of portions of enhancement side information to a respective one of the plurality of layers, wherein each portion of enhancement side information includes parameters for improving a reconstructed sound representation obtainable from data included in the respective layer and any layers lower than the respective layer. The document further relates to a method of decoding a compressed sound representation of a sound or sound field, wherein the compressed sound representation is encoded in a plurality of hierarchical layers that include a base layer and one or more hierarchical enhancement layers, as well as to an encoder and a decoder for layered coding of a compressed sound representation.



21: 2020/01985. 22: 2020/05/04. 43: 2022/10/06
51: C07K
71: GENENTECH, INC.
72: KELLEY, ROBERT F, KIRCHHOFER, DANIEL K, LAI, JOYCE, LEE, CHINGWEI V, LIANG, WEI-CHING, LIPARI, MICHAEL T, LOYET, KELLY M, SAI, TAO, VAN LOOKEREN CAMPAGNE, MENNO, WU, YAN, FUH, GERMAINE
33: US 31: 62/248,871 32: 2015-10-30
33: US 31: 62/411,113 32: 2016-10-21
33: US 31: 62/345,669 32: 2016-06-03
54: ANTI-HTRA1 ANTIBODIES AND METHODS OF USE THEREOF
00: -
The present invention provides anti-HtrA1 antibodies and methods of making and using the same, for example, in methods of treating HtrA1-associated disorders, ocular disorders, and/or complement-associated disorders.

21: 2020/01986. 22: 2020/05/04. 43: 2022/10/06
51: G10L
71: DOLBY INTERNATIONAL AB
72: KORDON, SVEN, KRUEGER, ALEXANDER
33: US 31: 62/361,809 32: 2016-07-13
33: EP 31: 15306590.9 32: 2015-10-08
54: LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS
00: -
The present document relates to a method of layered encoding of a compressed sound representation of a sound or sound field. The compressed sound representation comprises a basic compressed sound representation comprising a plurality of components, basic side information for

decoding the basic compressed sound representation to a basic reconstructed sound representation of the sound or sound field, and enhancement side information including parameters for improving the basic reconstructed sound representation. The method comprises sub-dividing the plurality of components into a plurality of groups of components and assigning each of the plurality of groups to a respective one of a plurality of hierarchical layers, the number of groups corresponding to the number of layers, and the plurality of layers including a baselayer and one or more hierarchical enhancement layers, adding the basic side information to the base layer, and determining a plurality of portions of enhancement side information from the enhancement side information and assigning each of the plurality of portions of enhancement side information to a respective one of the plurality of layers, wherein each portion of enhancement side information includes parameters for improving a reconstructed sound representation obtainable from data included in the respective layer and any layers lower than the respective layer. The document further relates to a method of decoding a compressed sound representation of a sound or sound field, wherein the compressed sound representation is encoded in a plurality of hierarchical layers that include a base layer and one or more hierarchical enhancement layers, as well as to an encoder and a decoder for layered coding of a compressed sound representation.

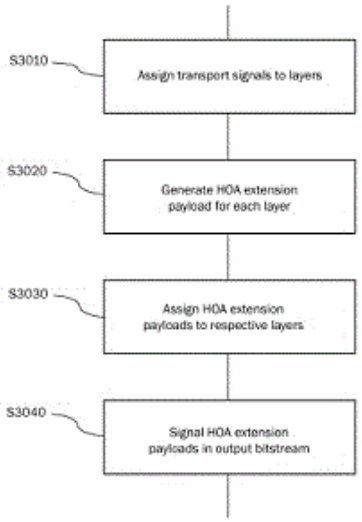


21: 2020/01987. 22: 2020/05/04. 43: 2022/10/06
51: G10L
71: DOLBY INTERNATIONAL AB
72: KORDON, SVEN, KRUEGER, ALEXANDER
33: US 31: 62/361,863 32: 2016-07-13
33: EP 31: 15306591.7 32: 2015-10-08

54: LAYERED CODING AND DATA STRUCTURE FOR COMPRESSED HIGHER-ORDER AMBISONICS SOUND OR SOUND FIELD REPRESENTATIONS

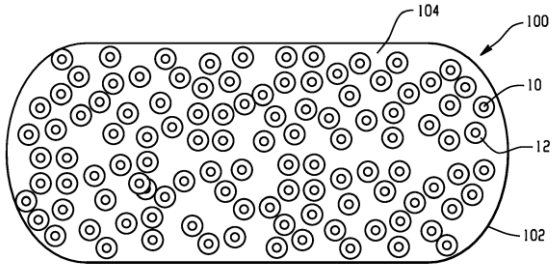
00: -

The present document relates to a method of layered encoding of a frame of a compressed higher-order Ambisonics, HOA, representation of a sound or sound field. The compressed HOA representation comprises a plurality of transport signals. The method comprises assigning the plurality of transport signals to a plurality of hierarchical layers, the plurality of layers including a base layer and one or more hierarchical enhancement layers, generating, for each layer, a respective HOA extension payload including side information for parametrically enhancing a reconstructed HOA representation obtainable from the transport signals assigned to the respective layer and any layers lower than the respective layer, assigning the generated HOA extension payloads to their respective layers, and signaling the generated HOA extension payloads in an output bitstream. The present document further relates to a method of decoding a frame of a compressed HOA representation of a sound or sound field, an encoder and a decoder for layered coding of a compressed HOA representation, and a data structure representing a frame of a compressed HOA representation of a sound or sound field.



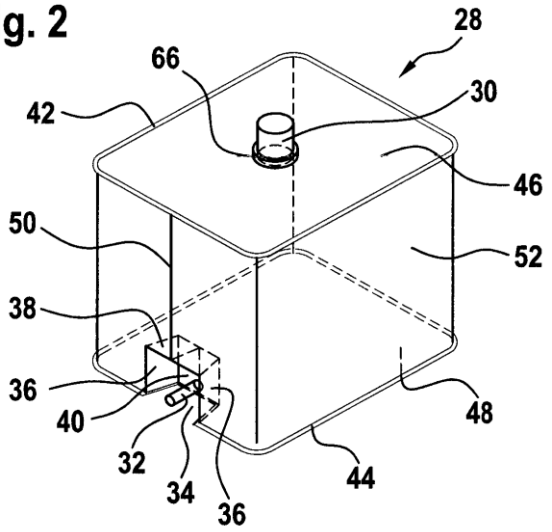
21: 2020/02054. 22: 2020/05/04. 43: 2022/10/07
51: C07C; C01B
71: DOW GLOBAL TECHNOLOGIES LLC
72: FISH, BARRY B, GROENENDIJK, PETER E, NIESKENS, DAVY L.S, MALEK, ANDRZEJ, STEARS, BRIEN A
33: US 31: 62/570,325 32: 2017-10-10
54: PROCESSES FOR IMPROVING THE EFFICIENCY OF HYDROCARBON PRODUCTION
00: -
A process for converting a feed stream having carbon to $C_2$to C_5olefins, includes introducing a feed stream including methane and oxygen to a first reaction zone, reacting the methane and oxygen in the first reaction zone to form a first reaction zone product stream having a mixture of $C_2$to C_5alkanes, transporting the mixture of $C_2$to C_5alkanes to a second reaction zone, introducing a fresh stream of at least one of ethane and propane to the second reaction zone, converting the $C_2$to C_5alkanes to $C_2$to C_5olefins in the second reaction zone, producing one or more product streams in the second reaction zone, where a sum of the one or more product streams includes $C_2$to C_5olefins, and producing a recycle stream comprising hydrogen in the second reaction zone, where the recycle stream is transported to the first reaction zone.

21: 2020/02086. 22: 2020/05/04. 43: 2022/10/17
51: A61K
71: EDGEMONT PHARMACEUTICALS, LLC TRUST
72: SALTEL, Douglas, VACHON, Michael
33: US 31: 62/580,321 32: 2017-11-01
54: ALCOHOL-RESISTANT ORAL PHARMACEUTICAL COMPOSITIONS OF LORAZEPAM
00: -
Described herein are alcohol-resistant oral pharmaceutical compositions and dosage forms that exhibit reduced drug release in the presence of alcohol. The compositions comprise a substrate comprising a controlled release formulation of lorazepam and an alcohol-resistant coating surrounding the substrate.



21: 2020/02104. 22: 2020/05/04. 43: 2022/11/21
51: B65D
71: MAUSER-WERKE GMBH
72: WEYRAUCH, Detlev
54: INLINER
00: -
The present invention relates to a flexible inliner (28) made from multi-ply plastic film, having an upper fill neck (30) and a lower discharge neck (32), in particular for a pallet container (10) for the storage and transport of liquid or flowable filling materials. In order to improve the use of inliners in pallet containers and in particular to maintain the barrier effect of the multi-ply film, even over longer transport and storage times, according to the invention, the fill/discharge necks (30, 32, 54) are welded onto the inliner wall (56) in such a manner that any film cut edges (68, 70) are covered against contact with the filling material and no film cut edge (68, 70) - either that at the weld flange edge (58, 66) of the welded fill/discharge neck (30, 32, 54) nor that on the internal boundary of a discharge opening (72) in the inliner wall (56) - comes into contact with the flowable filling material.

Fig. 2



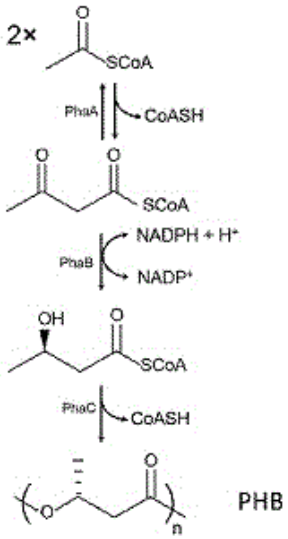
21: 2020/02125. 22: 2020/05/04. 43: 2022/10/03
51: C08L
71: BASF SE, POINT PLASTIC S.R.L.
72: KNIESEL, Simon, SEVERINI, Tonino
33: EP 31: 17194342.6 32: 2017-10-02
54: CONTAINER MADE FROM POLYBUTYLENE TEREPHTHALATE HAVING A LOW OXYGEN PERMEABILITY
00: -
Container made froma thermoplastic molding composition comprising A) from 59.8 to 99.8% by weight of a polyester composed of from 30 to 100% by weight of a polybutylene terephthalate and 0 to 70% by weight of a polyester derived from 1,4-butanediol and a C2-12-aliphatic dicarboxylic acid and/or C6-12-cycloaliphatic dicarboxylic acid, B) 0.1 to 10% by weight of an oxidizable polyester-ether, C) 5 to 10000 weight-ppm of a salt of a transition metal, D) 0 to 40% by weight of other additional substances, where the total of the percentages by weight of components A) to B) is 100% by weight.

21: 2020/02156. 22: 2020/05/04. 43: 2022/10/12
51: C11D; C12N
71: Novozymes A/S
72: TOSCANO, Miguel Duarte Guilherme Pereira, POULSEN, Thomas Agersten, HANSEN, Carsten Hoerslev, BAUNSGAARD, Lone, GIBSON, Keith
33: EP(DK) 31: 17193514.1 32: 2017-09-27
54: LIPASE VARIANTS AND MICROCAPSULE COMPOSITIONS COMPRISING SUCH LIPASE VARIANTS
00: -
The present invention relates to variants of a parent lipase which has lipase activity and comprise one or more substitutions corresponding to G23S, D27N, A40I, F51I,L, E56R, D57N, V60E,K, K98I, N101D, R118F, G163S, T231R, N233R, Y220F, T244E, and P256T using SEQ ID NO: 2 for numbering. The present invention also relates to compositions or microcapsule compositions comprising a lipase variant of the invention and to liquid products comprising a microcapsule composition of the invention as well as the use of said microcapsule composition for stabilizing lipase variants of the invention.

21: 2020/02292. 22: 2020/05/04. 43: 2022/10/10
51: A61K; A61P
71: POXEL
72: HALLAKOU-BOZEC, SOPHIE
33: US 31: 62/566,668 32: 2017-10-02
54: METHODS OF TREATING HEART FAILURE WITH PRESERVED EJECTION FRACTION
00: -
The present invention provides a method for treating or preventing heart failure with preserved ejection fraction (HFPEF), wherein the method comprises administering to a patient having or at risk of developing HFPEF a therapeutically effective amount of imeglimin.

21: 2020/02296. 22: 2020/05/04. 43: 2022/10/10
51: C12N; C12P
71: LANZATECH, INC.
72: TAPPEL, RYAN CHRISTOPHER, BEHRENDORFF, JAMES BRUCE YARNTON HAYCOCK, KOEPKE, MICHAEL, MARCELLIN, ESTEBAN, LEMGRUBER, RENATO DE SOUZA PINTO, VALGEPEA, KASPAR, NIELSEN, LARS
33: US 31: 62/568,127 32: 2017-10-04
54: PRODUCTION OF POLYHYDROXYBUTYRATE IN WOOD-LJUNGDAHL MICROORGANISMS
00: -
The invention provides microorganisms and methods for the production of polyhydroxybutyrate (PHB) from gaseous substrates. In particular, the invention provides a non-naturally occurring Wood-Ljungdahl microorganism comprising (a) an enzyme that converts acetyl-CoA to acetoacetyl-CoA, (b) an enzyme that converts acetoacetyl-CoA to 3-hydroxybutyryl-CoA, and (c) an enzyme that

converts 3-hydroxybutyryl-CoA to polyhydroxybutyrate, and methods related thereto.

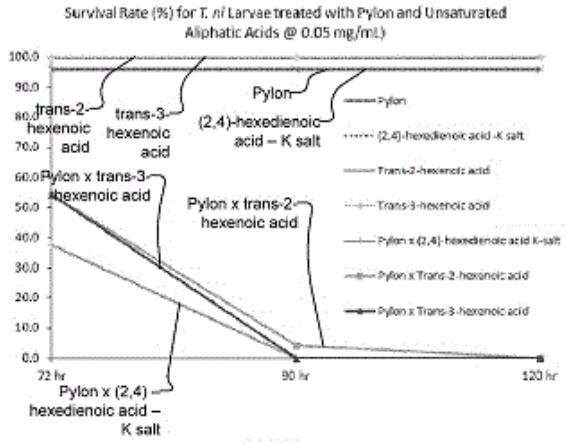


21: 2020/02299. 22: 2020/05/04. 43: 2022/10/10
51: A01N
71: 0903608 B.C. LTD.
72: MANHAS, KARAN, ROZEK, ANNETT
33: US 31: 62/580,964 32: 2017-11-02
33: US 31: 62/566,269 32: 2017-09-29
33: US 31: 62/585,827 32: 2017-11-14

54: SYNERGISTIC PESTICIDAL COMPOSITIONS AND METHODS FOR DELIVERY OF ACTIVE INGREDIENTS

00: -

Compositions and methods for increasing the efficacy of pesticidal compositions via the combination of a pesticidally active ingredient and a C6-C10 saturated aliphatic acid are described herein, including synergistic pesticidal compositions and methods for delivery of pesticidal active ingredients. Some pesticidal compositions and methods as described are directed to compositions and methods for increasing the efficacy of fungicides. Some pesticidal compositions and methods as described are directed to compositions and methods for increasing the efficacy of nematicides. Some pesticidal compositions and methods as described are directed to compositions and methods for increasing the efficacy of insecticides. Methods for enhancing the activity pesticidal active ingredients in pesticidal compositions in use are also described.



21: 2020/02319. 22: 2020/05/04. 43: 2022/10/10
51: C02F; C10B; C10G
71: MCFINNEY, LLC
72: FINNEY, JERRY WAYNE
33: US 31: 62/555,410 32: 2017-09-07
33: US 31: 62/568,874 32: 2017-10-06

54: METHODS FOR BIOLOGICAL PROCESSING OF HYDROCARBON-CONTAINING SUBSTANCES AND SYSTEM FOR REALIZATION THEREOF

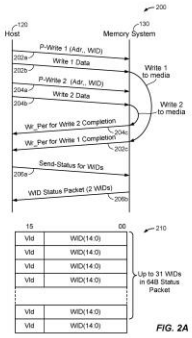
00: -

The present disclosure is related to systems and methods for the biological processing of hydrocarbon-containing substances. In particular embodiments, the systems and methods herein relate to pre-digestion of hydrocarbon containing substances and further processing of the same to produce hydrocarbon fuels, fertilizer, and other products.



21: 2020/02329. 22: 2020/05/04. 43: 2022/10/10
51: A61K; A61P
71: BIOCELLS (BEIJING) BIOTECH CO., LTD.
72: HAN, HUAMIN, TIAN, YUJIA, JIA, HONGJUN
54: PEPTIDE COMPOSITION FOR TREATING EXCITATORY NEUROTOXICITY RELATED INJURIES
00: -
Provided is a pharmaceutical composition comprising an amino acid sequence YEKLLDTEI (SEQ ID No. 1), or a functional variant peptide, pH regulator, and filler thereof, said peptide being an active peptide for treating central nervous system injuries. Also provided is a pharmaceutical composition comprising a chimeric peptide, pH regulator, and a filler, said chimeric peptide comprising an active peptide and an internalization peptide. Also provided is a medical application of the pharmaceutical composition comprising an active peptide or a chimeric peptide.

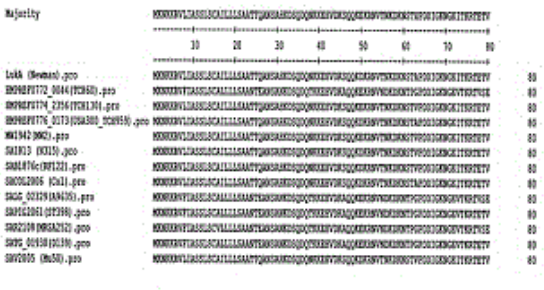
21: 2020/02377. 22: 2020/05/04. 43: 2022/10/12
51: G06F
71: QUALCOMM Incorporated
72: RAMANUJAN, Raj, BAINS, Kuljit Singh, WANG, Liyong, QUEEN, Wesley
33: US 31: 15/706,530 32: 2017-09-15
54: PERSISTENT WRITES FOR NON-VOLATILE MEMORY
00: -
Systems and methods for persistent operations include a host and a memory system. The memory system, upon receiving a Persistent Write command and associated write data from the host, performs a Persistent Write of the write data to a non-volatile memory in the memory system based on the Persistent Write command. The memory system may also a receive a write identification (WID) associated with the Persistent Write command from the host and provide, upon successful completion of the Persistent Write, a Persistent Write completion indication along with the associated WID to the host.



21: 2020/02392. 22: 2020/05/04. 43: 2022/11/10
51: G06K
71: LAVAL, Sean Emile
72: LAVAL, Sean Emile
33: ZA 31: 2017/07297 32: 2017-10-26
54: ELECTRONIC TAG
00: -
This invention relates to an electronic tag (10) comprising sensing means (12) for sensing at least one condition, a control module (14), electrically connected to and in data communication with the sensing means (12), for receiving data relating to the at least one sensed condition, a transmitter module (16), electrically connected to and in data communication with the control module (14), for transmitting, for reception by a remote monitoring station (18), a notification signal including the data relating to the at least one sensed condition, and input circuitry (20), electrically connected to and in data communication with the control module (14), for regulating the operation of the control module (14), by providing a limit for the at least one sensed condition depending on the physical configuration thereof.

21: 2020/02470. 22: 2020/05/06. 43: 2022/10/12
51: A61K; A61P
71: NEW YORK UNIVERSITY
72: TORRES, VICTOR J, DUMONT, ASHLEY L

33: US 31: 61/331,550 32: 2010-05-05
54: STAPHYLOCOCCUS AUREUS LEUKOCIDINS, THERAPEUTIC COMPOSITIONS, AND USES THEREOF
00: -
Disclosed herein are isolated and purified Staphylococcus aureus bi-component leukocidin, referred to herein as LukAB, and its components LukA and LukB, antibodies specific to LukA, antibodies specific to LukB, therapeutic compositions containing LukA and/or LukB, or anti - LukA and/or anti-LukB antibodies, uses of the compositions to treat acute inflammatory conditions or S. aureus infection, methods for identifying inhibitors of LukAB-mediated cytotoxicity of human phagocytes, and methods for using LukAB as a marker to predict severity of S. aureus infection.



21: 2020/02535. 22: 2020/05/07. 43: 2022/10/12
51: B01F; B03D; F16L
71: FLSmidth A/S
72: WALKER, Mathew
33: US 31: 62/583,199 32: 2017-11-08
54: METHOD FOR CONVERTING A NATURALLY-ASPIRATED FLOTATION CELL TO A FORCED-GAS FLOTATION CELL, AND APPARATUS THEREOF
00: -
The disclosure relates to an adapter (200) for converting a naturally-aspirated flotation cell (10) to a forced-gas flotation cell without replacing the naturally-aspirated flotation cell reducer (21) with a specialized conversion reducer (103). The adapter (200) is designed to be located below the naturally-aspirated flotation cell reducer (21) and at a location along the drive shaft. The adapter (200) comprises an outer static casing (201) having a forced gas inlet (210); an inner rotating spanner (204) having at least one port (205) therein; sealing means (203, 224, 225, 226) provided between the static casing (201) and the spanner (204); and, a chamber (213) formed between the outer static casing (201) and the spanner (204). Related methods and apparatus incorporating the adapter (200) are further disclosed.

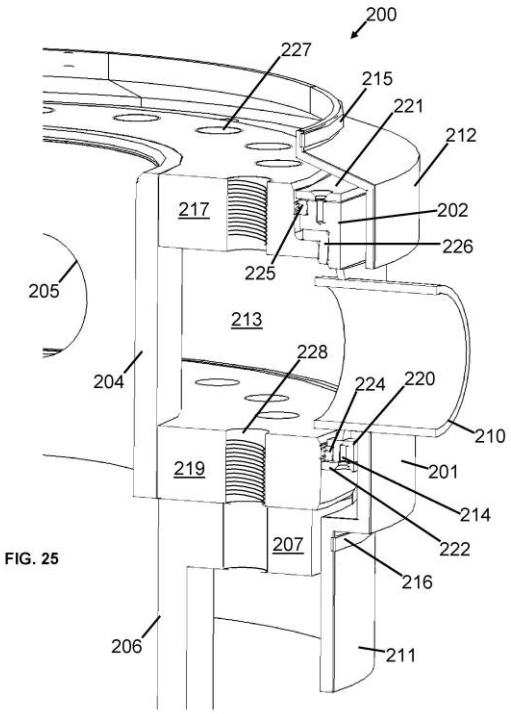
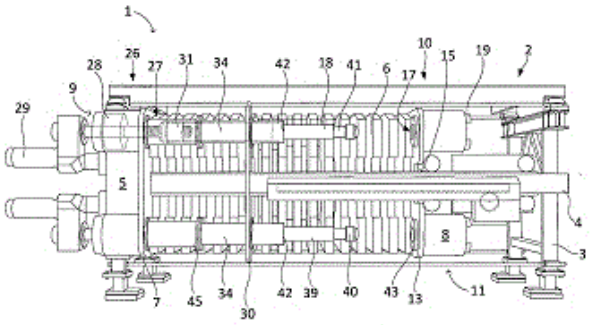


FIG. 25

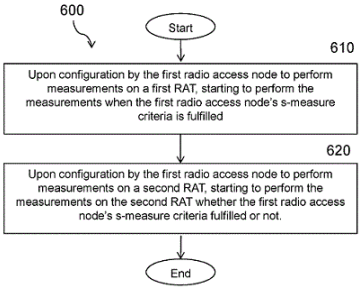
21: 2020/02585. 22: 2020/05/08. 43: 2022/10/10
51: B01D
71: METSO SWEDEN AB
72: GRÖNVALL, LARS
33: EP 31: 17197183.1 32: 2017-10-18
54: FILTER PRESS AND METHOD FOR SEPARATING THE SOLID COMPONENTS FROM THE LIQUID COMPONENTS OF A SLURRY
00: -
The invention relates to a filter press (1,100,200) for separating the solid components from the liquid components of a slurry comprising side beams (4) and a plurality of filter plates (6,106,206) oriented at right angles to 5 the longitudinal direction of the side beams wherein said filter plates are adapted to move along said side beams, a stationary end (5,105,205) arranged on one end of the side beams, a movable head (8,108,208) adapted to transport said filter plates along the side beams, a press system (26,126,226) adapted to exert a closing pressure on said filter plates to press 10 the filter plates against each other and wherein the press

system (26, 126, 226) comprises at least one actuator (27, 127, 227) at least one electrically driven actuator (27,127,227) adapted to generate an axially directed force which is exerted on the filter plates by means of the movable head (8,108,208). The invention also relates to a method for separating the solid 15 components from the liquid components of a slurry.

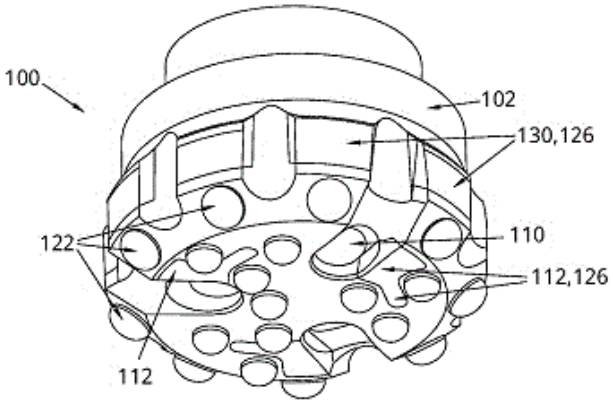


21: 2020/02652. 22: 2020/05/11. 43: 2022/10/12
51: C12N
71: ARROWHEAD PHARMACEUTICALS, INC.
72: LI, ZHEN, ZHU, RUI, WOODDELL, CHRISTINE I, PEI, TAO
33: US 31: 62/444,452 32: 2017-01-10
33: US 31: 62/486,720 32: 2017-04-18
33: US 31: 62/596,232 32: 2017-12-08
54: ALPHA-1 ANTITRYPSIN (AAT) RNAI AGENTS, COMPOSITIONS INCLUDING AAT RNAI AGENTS, AND METHODS OF USE
00: -
RNAi agents for inhibiting the expression of the alpha- 1 antitrypsin (AAT) gene, compositions including AAT RNAi agents, and methods of use are described. Also disclosed are pharmaceutical compositions including one or more AAT RNAi agents together with one or more excipients capable of delivering the RNAi agent(s) to a liver cell in vivo. Deliver)' of the AAT RNAi agent(s) to liver cells in vivo inhibits AAT gene expression and treats diseases associated with AAT deficiency such as chronic hepatitis, cirrhosis, hepatocellular carcinoma, transaminitis, cholestasis, fibrosis, and fulminant hepatic failure.

21: 2020/02655. 22: 2020/05/11. 43: 2022/10/19
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: TEYEB, Oumer, DA SILVA, Icaro L. J.
33: US 31: 62/591,764 32: 2017-11-28
54: ON TRIGGERING MEASUREMENTS IN LTE-NR INTERWORKING
00: -
According to certain embodiments, a method in a wireless device (110) is provided. The wireless device is currently connected to a first radio access node (160) and configured with an s-measure by the first radio access node that controls when the wireless device starts performing measurements. Upon configuration by the first radio access node to perform measurements on a first radio access technology, RAT, the wireless device starts to perform the measurements when the first radio access node's s-measure criteria is fulfilled. Upon configuration by the first radio access node to perform measurements on a second RAT, the wireless device starts to perform the measurements on the second RAT whether the first radio access node's s-measure criteria is fulfilled or not.



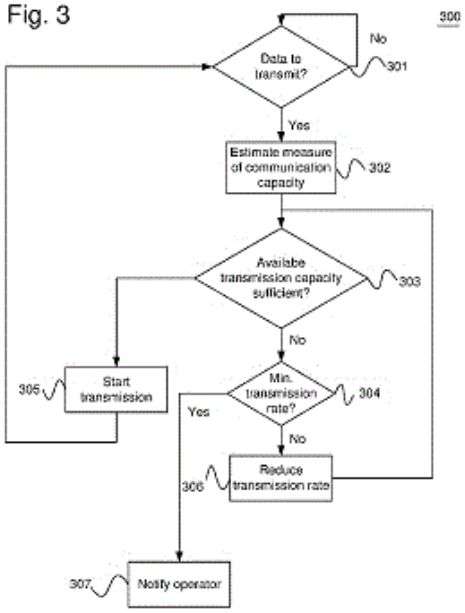
21: 2020/02685. 22: 2020/05/12. 43: 2022/10/12
51: E21B
71: ELEMENT SIX GMBH
72: RIES, BERND HEINRICH, HINNERS, HAUKE, GRENBJÖRK, IAN, ROSTVALL, TOMAS
33: GB 31: 1800250.1 32: 2018-01-08
54: DRILL BIT WITH WEAR SHIELD
00: -
This disclosure relates to a percussive drill bit comprising PCD studs and a hard facing material that is strategically located to minimise stud pop outs and the amount of hard facing material used.



21: 2020/02898. 22: 2020/05/18. 43: 2022/10/12
51: A61K; A61P
71: RAPT THERAPEUTICS, INC.
72: CUTLER, GENE, HO, WILLIAM YEW-WAI, KASSNER, PAUL DAVID, SUTHRAM, SILPA, WONG, BRIAN RUSSELL
33: US 31: 62/723,415 32: 2018-08-27
33: US 31: 62/582,284 32: 2017-11-06
54: ANTICANCER AGENTS
00: -
Disclosed herein are therapeutic methods of administering compounds that modulate the C-C chemokine receptor type 4 (CCR4) for the treatment of Epstein Bar virus (EBV) positive cancers and malignancies.

21: 2020/02899. 22: 2020/05/18. 43: 2022/10/13
51: H04L; E21C; G05D
71: EPIROC ROCK DRILLS AKTIEBOLAG
72: SANTOS, WESLEY, PETTERSSON, ROLAND, EGBÄCK, RICKARD, LUNDVALL, HÅKAN
33: SE 31: 1751633-7 32: 2017-12-22
54: METHOD AND SYSTEM FOR CONTROLLING COMMUNICATION OF A MINING AND/OR CONSTRUCTION MACHINE
00: -
The present invention relates to a method for 1 for controlling transmission of data in a data communication network (220), the transmission of data being a transmission of data between a mining and/or construction machine (100) and a network node (210) of said data communication network (220), said transmission of data being carried out at least partly over a wireless communication link (208). The method comprises: - estimating a measure of the communication capacity of said wireless link (208), the estimation being based at least partly on a round-trip time of a transmission over said wireless communication link (208), and - adapting the data transmission load of said mining and/or construction machine (100) on the wireless communication link (208) on the basis of said measure. The invention also relates to a system and a mining and/or construction machine (100).

Fig. 3



21: 2020/02923. 22: 2020/05/19. 43: 2022/10/13
51: C07K; A61P
71: SEAGEN INC.
72: GARDAI, SHYRA, LEVENGOOD, MATTHEW, TRANG, VIVIAN, WESTENDORF, LORI, CAROSINO, CHRISTOPHER, FELDHAUS, MICHAEL, LAW, CHE-LEUNG
33: US 31: 62/593,712 32: 2017-12-01
54: CD47 ANTIBODIES AND USES THEREOF FOR TREATING CANCER
00: -
Humanized antibodies, including masked antibodies that specifically bind to CD47 are provided. Methods for using anti-CD47 antibodies, including masked antibodies, to modulate activity of (e.g., inhibit proliferation of) a CD47-expressing cell, as well as for the treatment of one or more diseases or disorders (e.g., cancer) associated with CD47-expressing cells, are provided.

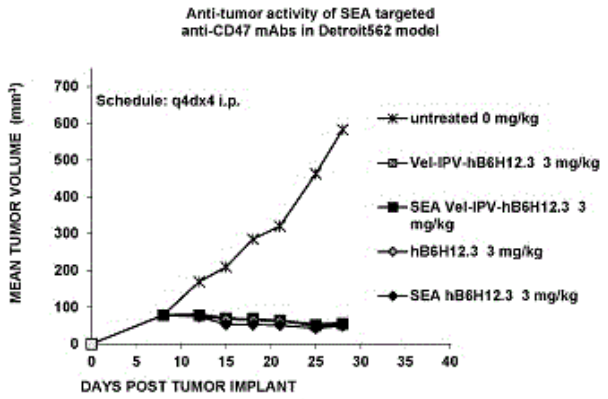
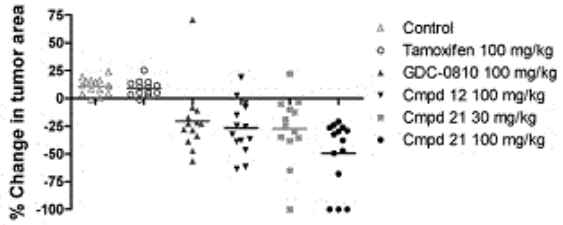


FIG. 40A

21: 2020/02955. 22: 2020/05/20. 43: 2022/10/13
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: FEI, CONGWEI, PI, YINGYING, SUBRAMANIAN, RAGHUPATHI
33: EP 31: 18152005.7 32: 2018-01-17
33: CN 31: PCT/CN2017/115307 32: 2017-12-08
54: HAIR CARE COMPOSITION
00: -
A hair care composition is disclosed comprising a copolymer, an ethoxylated alkyl sulfate anionic surfactant having a formula $RO(CH_2CH_2O)nSO_3M$, wherein R is an alkyl or alkenyl having from 8 to 18 carbon atoms; M is a solubilising cation comprising sodium, potassium, ammonium or mixtures thereof; the degree of ethoxylation n is 2, and from 0.01 to 5% by weight of a zinc-based anti-dandruff agent; wherein the copolymer comprises: a cationic vinyl monomer A represented by the formula: $CH_2=C(R^1)-CO-NH-(CH_2)_dN^+R^2R^3R^4X^-$, wherein $R^1$is a hydrogen atom or a methyl group, each of $R^2$to $R^4$is independently a C_{1-24}alkyl group, preferably a C_{1-3}alkyl group, $X^-$is independently fluoride, chloride, bromide or iodide anion, preferably chloride, and d is an integer of from 1 to 10; a cationic vinyl monomer B represented by the formula: $CH_2=C(R^5)-CO(O)-(CH_2)_eN^+R^6R^7R^8Y^-$, wherein $R^5$is a hydrogen atom or a methyl group, each of $R^6$to $R^8$is independently a C_{1-24}alkyl group, preferably a C_{1-3}alkyl group, $Y^-$is independently fluoride, chloride, bromide or iodide anion, preferably chloride, and e is an integer of from 1 to 10; a vinyl monomer C represented by the formula: $CH_2=C(R^9)-CO-NR^{10}R^{11}$, wherein $R^9$is a hydrogen atom or methyl group, each of $R^{10}$and $R^{11}$is independently a hydrogen atom or a C_{1-4}alkyl group, provided that the sum of carbon numbers of $R^{10}$and $R^{11}$is from 1 to 4; and wherein the content of monomer A is from 1 to 44 mol % based on the total monomer content of the copolymer, the content of monomer B is from 1 to 44 mol%, and the content of monomer C is from 20 to 75 mol% based on the total monomer content of the copolymer.

21: 2020/03023. 22: 2020/05/22. 43: 2022/10/13
51: A61K; C07D
71: THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS
72: THATCHER, GREGORY R, XIONG, RUI, ZHAO, JIONG, TONETTI, DEBRA A
33: US 31: 62/264,971 32: 2015-12-09
33: US 31: 62/322,878 32: 2016-04-15
54: BENZOTHIOPHENE-BASED SELECTIVE ESTROGEN RECEPTOR DOWNREGULATORS
00: -
This invention is benzothiophene-based estrogen receptor downregulators and their compositions and uses to treat estrogen-related medical disorders.



21: 2020/03107. 22: 2020/05/26. 43: 2022/10/17
51: B02C; C22B
71: ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD
72: FILMER, ANTHONY OWEN, ALEXANDER, DANIEL JOHN
33: GB 31: 1718881.4 32: 2017-11-15
54: A METHOD FOR MINING AND PROCESSING OF AN ORE
00: -
The invention relates to a method for mining and processing of an ore. The method comprises at least one mobile comminution device (26) comprising at least one mobile crusher unit and at least one mobile grinding unit located proximate to an ore body that is being mined (20), fragmented ore (22) from the ore body is comminuted in the mobile comminution device (26) to a size which can be readily pumped (28) without the use of special carrier fluids,

preferably to a particle size p50 in the range between 0.05 to 1 mm and the comminuted ore is combined with water to form a slurry.

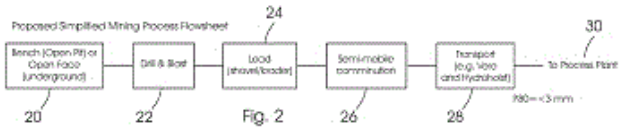
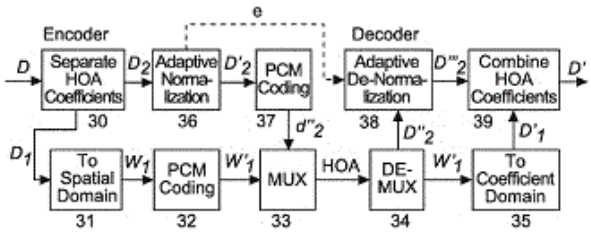


Fig. 2

21: 2020/03171. 22: 2020/05/28. 43: 2022/10/17
51: G10L; H04S
71: DOLBY INTERNATIONAL AB
72: KORDON, SVEN, KRUEGER, ALEXANDER
33: EP 31: 13305986.5 32: 2013-07-11
54: METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS
00: -
There are two representations for Higher Order Ambisonics denoted HOA: spatial domain and coefficient domain. The invention generates from a coefficient domain representation a mixed spatial/coefficient domain representation, wherein the number of said HOA signals can be variable. A vector of coefficient domain signals is separated into a vector of coefficient domain signals having a constant number of HOA coefficients and a vector of coefficient domain signals having a variable number of HOA coefficients. The constant-number HOA coefficients vector is transformed to a corresponding spatial domain signal vector. In order to facilitate high- quality coding, without creating signal discontinuities the variable-number HOA coefficients vector of coefficient domain signals is adaptively normalised and multiplexed with the vector of spatial domain signals.



21: 2020/03184. 22: 2020/05/28. 43: 2022/10/17
51: A01G
71: NETAFIM LTD
72: SOCOLSKY, ESTEBAN, KEREN, RON
33: US 31: 62/597,701 32: 2017-12-12
54: DRIP EMITTER
00: -
A drip emitter has a flexible membrane for regulating a flow of liquid exiting the emitter, and the membrane in a non-stressed or non-flexed state into a regulating chamber of the emitter includes a non-planar portion.

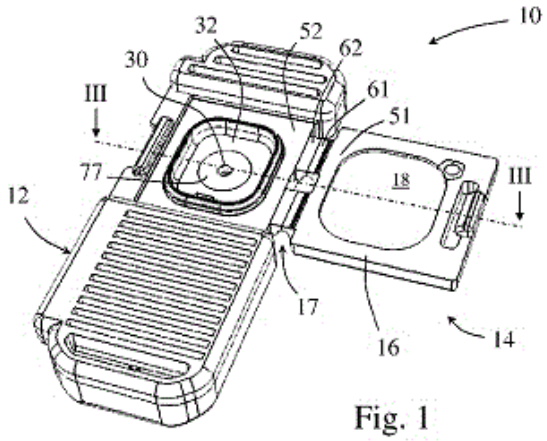
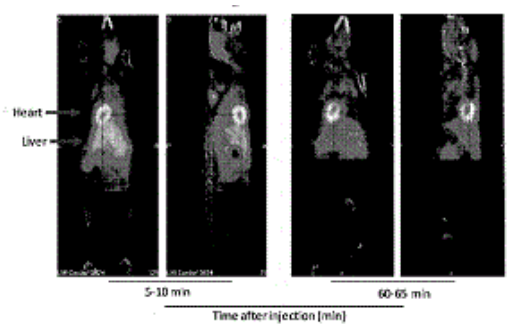
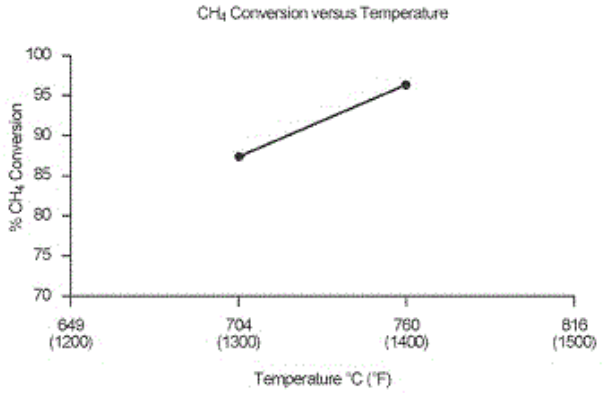


Fig. 1

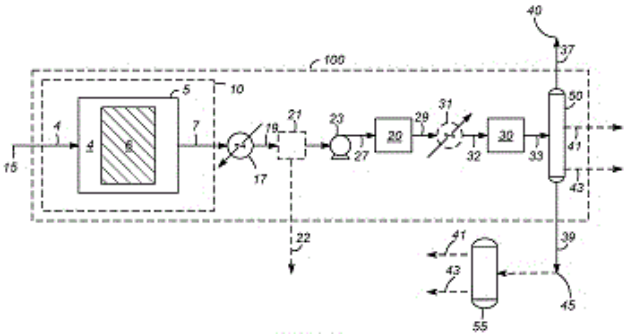
21: 2020/03200. 22: 2020/05/29. 43: 2022/10/17
51: C07D; A61K
71: LANTHEUS MEDICAL IMAGING, INC.
72: CESATI, RICHARD R, RADEKE, HEIKE S, PANDEY, SURESH K, PUROHIT, AJAY, ROBINSON, SIMON P
33: US 31: 61/682,185 32: 2012-08-10
33: US 31: 61/794,277 32: 2013-03-15
54: COMPOSITIONS, METHODS, AND SYSTEMS FOR THE SYNTHESIS AND USE OF IMAGING AGENTS
00: -
The present invention provides compounds with imaging moieties for imaging a subject. The present invention also relates to systems, compositions, and methods for the synthesis and use of imaging agents, or precursors thereof. An imaging agent precursor may be converted to an imaging agent using the methods described herein. In some cases, a composition or plurality of imaging agents is enriched in ^{18}F. In some cases, an imaging agent may be used to image an area of interest in a subject, including, but not limited to, the heart, cardiovascular system, cardiac vessels, brain, and other organs.



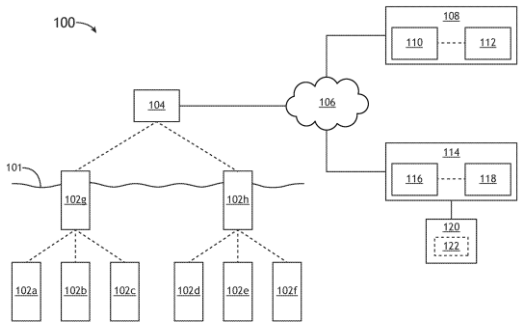
21: 2020/03322. 22: 2020/06/03. 43: 2022/10/17
51: C01B; B01J
71: GAS TECHNOLOGY INSTITUTE
72: MARKER, TERRY L, LINCK, MARTIN B, WANGEROW, JIM, ORTIZ-TORAL, PEDRO
54: NOBLE METAL CATALYSTS AND PROCESSES FOR REFORMING OF METHANE AND OTHER HYDROCARBONS
00: -
Processes for converting methane and/or other hydrocarbons to synthesis gas (i.e., a gaseous mixture comprising $H_2$and CO) are disclosed, in which at least a portion of the hydrocarbon(s) is reacted with CO_2. At least a second portion of the methane may be reacted with H_2O (steam), thereby improving overall thermodynamics of the process, in terms of reducing endothermicity (ΔH) and the required energy input, compared to "pure" dry reforming in which no H_2O is present. Catalysts for such processes advantageously possess high activity and thereby can achieve significant levels of methane conversion at temperatures below those used conventionally under comparable conditions. These catalysts also exhibit high sulfur tolerance, in addition to reduced rates of carbon (coke) formation, even in the processing (reforming) of heavier (e.g., naphtha boiling-range or jet fuel boiling-range) hydrocarbons. The robustness of the catalyst translates to high operating stability. A representative catalyst comprises 1 wt-% Pt and 1 wt-% Rh as noble metals, on a cerium oxide support.



21: 2020/03323. 22: 2020/06/03. 43: 2022/10/17
51: C10G; B01J; C01B
71: GAS TECHNOLOGY INSTITUTE
72: MARKER, TERRY L, LINCK, MARTIN B, WANGEROW, JIM, ORTIZ-TORAL, PEDRO
54: PROCESSES AND SYSTEMS FOR REFORMING OF METHANE AND LIGHT HYDROCARBONS TO LIQUID HYDROCARBON FUELS
00: -
Processes for converting methane and/or other hydrocarbons to synthesis gas (i.e., a gaseous mixture comprising $H_2$and CO) are disclosed, in which at least a portion of the hydrocarbon(s) is reacted with CO_2. At least a second portion of the methane may be reacted with H_2O (steam), thereby improving overall thermodynamics of the process, in terms of reducing endothermicity (ΔH) and the required energy input, compared to "pure" dry reforming in which no H_2O is present. Such dry reforming (reaction with CO_2only) or CO_2-steam reforming (reaction with both $CO_2$and steam) processes are advantageously integrated with Fischer-Tropsch synthesis to yield liquid hydrocarbon fuels. Further integration may involve the use of a downstream finishing stage involving hydroisomerization to remove FT wax. Yet other integration options involve the use of combined CO_2-steam reforming and FT synthesis stages (optionally with finishing) for producing liquid fuels from gas streams generated in a number of possible processes, including the hydropyrolysis of biomass.



21: 2020/03347. 22: 2020/06/04. 43: 2022/10/17
51: G01N; G05B
71: REALMFIVE, INC.
72: BURKEY, Brant, TIPPERY, Steve R., ADKINS, Tim, PFRENGER, Jochen, PICKERILL, Dan
33: US 31: 62/596,444 32: 2017-12-08
33: US 31: 16/215,261 32: 2018-12-10
54: SYSTEM AND METHOD FOR UNDERGROUND WIRELESS SENSOR COMMUNICATION
00: -
A system for collecting data associated with one or more sub-surface characteristics of a material is provided. The system may include a plurality of sensor nodes configured to collect data regarding the one or more sub-surface material characteristics and transmit the collected data to a data gateway. The data gateway may be configured to receive the collected data from the plurality of sensor nodes and store the collected data in memory. The system may also include a controller configured to receive the collected data from the data gateway via a network. The controller may be further configured to display data associated with the one or more sub-surface material characteristics.

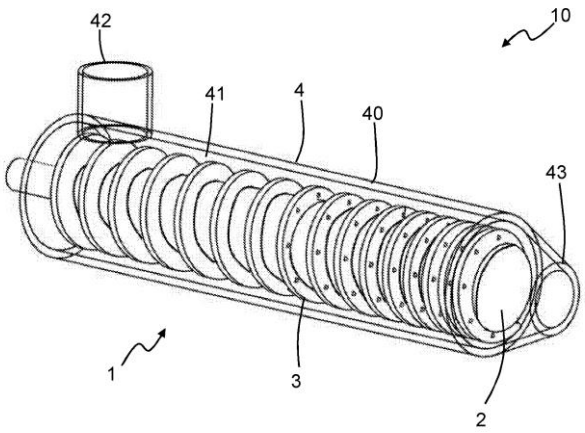


21: 2020/03374. 22: 2020/06/05. 43: 2022/10/17
51: C09D
71: NOF METAL COATINGS EUROPE
72: POULET, JEAN-MARIE, LABOUCHE, DIDIER, BRUYERE, STÉPHANIE
33: FR 31: 1761267 32: 2017-11-28
54: DEHYDRATED BINDERS IN SOLID FORM, PRODUCTION METHOD THEREOF, AND METHOD FOR REHYDRATING SAME
00: -
The present invention relates to a water-rehydratable solid composition for the production of an aqueous composition comprising a silane / (titanate and/or zirconate) binder, a method for producing such a composition, and a method for producing an aqueous composition comprising a silane / (titanate and/or zirconate) binder by hydrating such a solid composition.

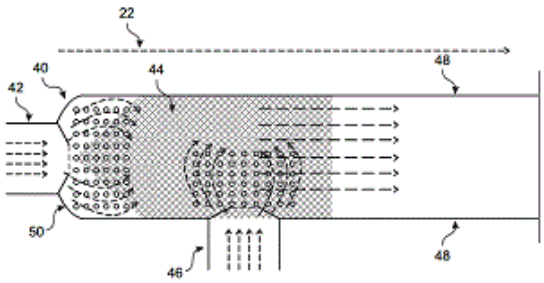
21: 2020/03375. 22: 2020/06/05. 43: 2022/10/17
51: C09D
71: NOF METAL COATINGS EUROPE
72: POULET, JEAN-MARIE, LABOUCHE, DIDIER, BRUYERE, STÉPHANIE
33: FR 31: 1761264 32: 2017-11-28
54: DEHYDRATED COATING COMPOSITIONS IN SOLID FORM, PRODUCTION METHOD THEREOF, AND METHOD FOR REHYDRATING SAME
00: -
The present invention relates to a water-rehydratable solid composition for the production of an aqueous composition comprising a particular metal, a silane / (titanate and/or zirconate) binder, a method for producing such a composition, and a method for producing an aqueous composition comprising a particular metal, a silane / (titanate and/or zirconate) binder by hydrating such a solid composition.

21: 2020/03404. 22: 2020/06/08. 43: 2022/10/17
51: C10B
71: PYROGENESYS LIMITED
72: IGHOFOSE, Simon, SAGHIR, Muhammad, SOCCI, Joseph, EKE, Joe
33: GB 31: 1719688.2 32: 2017-11-27
54: PYROLYSIS REACTOR AND METHOD OF PYROLYZING BIOMASS WASTE RESIDUE
00: -
A pyrolysis reactor(10)having an inlet for material (42) and an outlet for products(43), the reactor

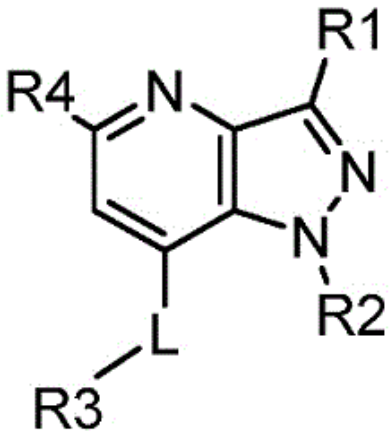
comprising a screw (1) for conveying biomass waste from the inlet to the outlet, the screw (1) comprising a shaft (2) with a first end and a second end adjacent the outlet and a helical flight (3) arranged about the shaft and extending between the first and second ends, wherein the pitch of the flight (3) alters between the first and second ends of the shaft, the screw (1) having a heater extending from the first end to the second end.



21: 2020/03511. 22: 2020/06/11. 43: 2022/10/12
51: C02F
71: PONTIC TECHNOLOGY, LLC
72: VOECKS, GERALD
33: US 31: 62/587,043 32: 2017-11-16
33: US 31: 62/641,677 32: 2018-03-12
54: FLUID DECONTAMINATION APPARATUS
00: -
A fluid decontamination apparatus having a container body with a plurality of three-dimensional open structure (3DOS) substrates spaced therein, wherein a contaminated fluid flowing through the container body will contact the 3DOS substrates. Nozzles disposed about the container body, configured to inject the contaminated fluid with/without air to induce hydrodynamic cavitation. The substrates can be porous and permeable enabling the contaminated fluid to flow therethrough, wherein the fluid flow passageway through the pores extends the volume of contaminated fluid exposed to turbulent and cavitation inducing flow conditions. Moreover, the 3DOS substrates may be coated with one or more types of catalysts so as to initiate chemical reactions. As such, the extended exposure of the contaminated fluid to hydrodynamic cavitation forming conditions, along with the chemical reactions earned out on the porous surfaces, enable an increased number of toxic species and unwanted organic compounds to be destroyed and/or altered, thereby enhancing decontamination.

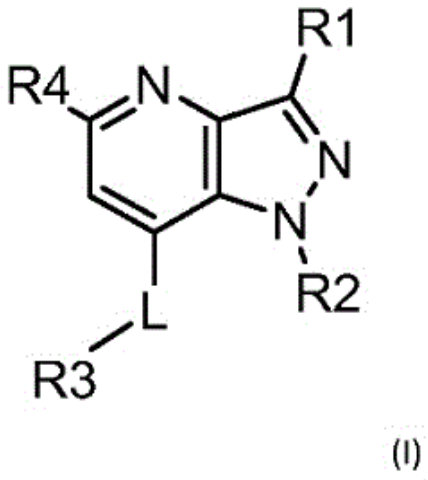


21: 2020/03514. 22: 2020/06/11. 43: 2022/10/12
51: A61K; A61P
71: H. LUNDBECK A/S
72: KEHLER, JAN, JUHL, KARSTEN, MARIGO, MAURO, VITAL, PAULO JORGE VIEIRA, JESSING, MIKKEL, LANGGÅRD, MORTEN, RASMUSSEN, LARS KYHN, CLEMENTSON, CARL MARTIN SEBASTIAN
33: DK 31: PA201700708 32: 2017-12-14
54: COMBINATION TREATMENTS COMPRISING ADMINISTRATION OF 1H-PYRAZOLO[4,3-B]PYRIDINES
00: -
The present invention provides 1H-pyrazolo[4,3-b]pyridin-7-amines of formula (I) as PDE1 inhibitors together with a second compound which compound is useful in the treatment of a psychiatric disorder and their combined use as a medicament, in particular for the treatment of psychiatric and/or cognitive disorders.



(I)

21: 2020/03516. 22: 2020/06/11. 43: 2022/10/12
51: A61K; A61P
71: H. LUNDBECK A/S
72: KEHLER, JAN, JUHL, KARSTEN, MARIGO, MAURO, VITAL, PAULO JORGE VIEIRA, JESSING, MIKKEL, LANGGÅRD, MORTEN, RASMUSSEN, LARS KYHN, CLEMENTSON, CARL MARTIN SEBASTIAN
33: DK 31: PA201700711 32: 2017-12-14
54: COMBINATION TREATMENTS COMPRISING ADMINISTRATION OF 1H-PYRAZOLO[4,3-B]PYRIDINES
00: -
The present invention provides 1H-pyrazolo[4,3-b]pyridin-7-amines of formula (I) as PDE1 inhibitors together with a second compound useful in the treatment of a neurodegenerative disorder and their combined use as a medicament, in particular for the treatment of neurodegenerative and/or cognitive disorders.



(I)

21: 2020/03526. 22: 2020/06/12. 43: 2022/10/19
51: B22F C22C
71: CSIR
72: MACHAKA, Ronald; MOTSAI, Tebogo, Matheti; CHIKOSHA, Silethelwe; MACHIO, Christopher, Nyongesa
33: 33: GB 31: 1720892.7 32: 14-12-2017
54: A PROCESS AND METHOD FOR PRODUCING TITANIUM AND TITANIUM ALLOY BILLETS, SPHERICAL AND NON-SPHERICAL POWDER
00: -
The invention provides a process for producing dense titanium and titanium alloy billets or ingots through a melt-free solid-state sintering process; wherein the process includes the introduction of a feedstock powder material of Ti sponge, TiHDH, TiH2, CP Ti their blends and/or blends of these with other alloying elements; the introduction of the feedstock powder material in to a mould capsule without pre-pressing of material; and subjecting the mould capsule to thermal processing in solid state to produce either a dense billet/ingots or a frangible billet without attaining melting of the feedstock material. The invention extends to a method for producing frangible titanium and titanium alloy billets through a melt-free solid-state homogenization process.

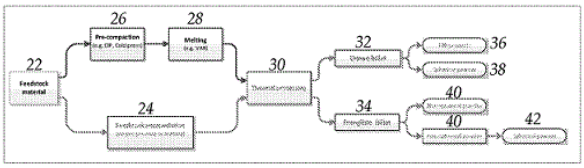


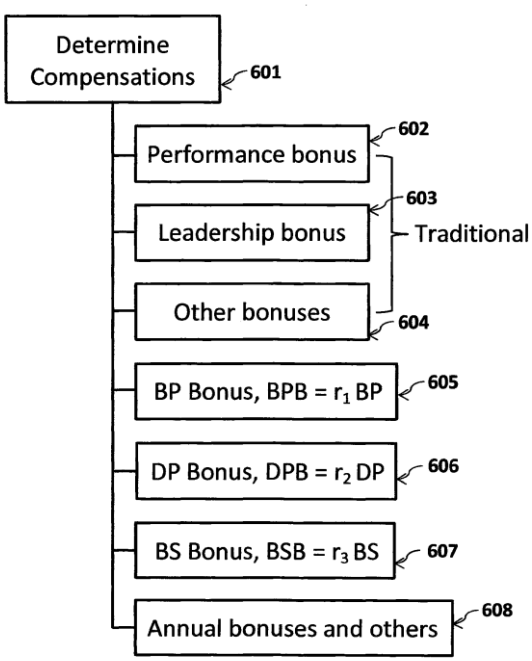
Figure 2: Application process flowchart (present disclosure in green)

21: 2020/03542. 22: 2020/06/12. 43: 2022/10/14
51: C07K
71: UCB BIOPHARMA SRL
72: ADAMS, RALPH, DOWNEY, PATRICK, BAKER, TERENCE SEWARD, TYSON, KERRY LOUISE, DE LICHTERVELDE, LORENZO, LIGHTWOOD, DANIEL JOHN, MCMILLAN, DAVID JAMES
33: GB 31: 1720975.0 32: 2017-12-15
54: ANTI-ALPHA-SYNUCLEIN ANTIBODIES
00: -
The present invention relates to antibodies binding alpha synuclein 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: 2020/03545. 22: 2020/06/12. 43: 2022/10/12
51: A01K
71: STOFNFISKUR HF
72: JONASSON, JONAS, GUNNLAUGSDOTTIR, BARA, HREIDARSSON, HREIDAR, HARDARSON, DAVID
33: IS 31: IS 050197 32: 2017-12-01
54: AN AQUACULTURE PROCESS FOR THE PRODUCTION OF SALMON EGGS
00: -

A process for harvesting fish eggs is provided, in particular fish eggs from Salmon. The process comprises rearing sexually immature salmon in an aquatic environment in stages during which at least the light exposure and time span is adjusted. The rearing includes at least a winter-summer period that comprises a winter life-cycle stage, within which the broodstock is exposed to light that simulates winter light exposure, and a subsequent summer life-cycle stage, within which the broodstock is exposed to light that simulates summer light exposure, wherein the total Accumulated Thermal Unit (ATU) during the winter-summer period is no more than 5000. The inventions also provides salmon eggs that are produced by the disclosed process.

21: 2020/03634. 22: 2020/06/17. 43: 2022/11/21
51: G06Q
71: BAMRUNGWONG, Surasak
72: BAMRUNGWONG, Surasak, BAMRUNGWONG, Mayuree, BAMRUNGWONG, Sarandhorn, BAMRUNGWONG, Saravis
54: SYSTEM AND METHODS FOR NETWORK MARKETING COMPENSATION
00: -
The present invention relates generally to network marketing compensation, and specifically to a system and methods to compensate IBOs in a multi-level marketing program based on real business production performed by IBOs, by using definite specification methods, definite computation methods with compensation formulas, or specific techniques, to identify or determine Business Post, Leg Point, Depth Point and Business Scores, to calculate bonuses or other benefits in a compensation plan. A traditional stair-step and break-away plan is used as a starting point of improvements and is developed to be a new "team-up" compensation plan in this invention. Solutions of significant technical problems are disclosed.



21: 2020/03646. 22: 2020/06/17. 43: 2022/10/21
51: G10L
71: DOLBY INTERNATIONAL AB
72: KUMAR, RAJAT, KATURI, RAMESH, SATHUVALLI, SAKETH, RAI, RESHMA
33: IN 31: 201741045576 32: 2017-12-19
33: US 31: 62/665,741 32: 2018-05-02
54: METHODS AND APPARATUS FOR UNIFIED SPEECH AND AUDIO DECODING QMF BASED HARMONIC TRANSPOSER IMPROVEMENTS
00: -
The present disclosure relates to an apparatus for decoding an encoded Unified Audio and Speech stream. The apparatus comprises a core decoder for decoding the encoded Unified Audio and Speech stream. The core decoder includes an eSBR unit for extending a bandwidth of an input signal, the eSBR unit including a QMF based harmonic transposer. The QMF based harmonic transposer is configured to process the input signal in the QMF domain, in each of a plurality of synthesis subbands, to extend the bandwidth of the input signal. The QMF based harmonic transposer is configured to operate at least in part based on pre-computed information. The present disclosure further relates to corresponding methods and storage media.

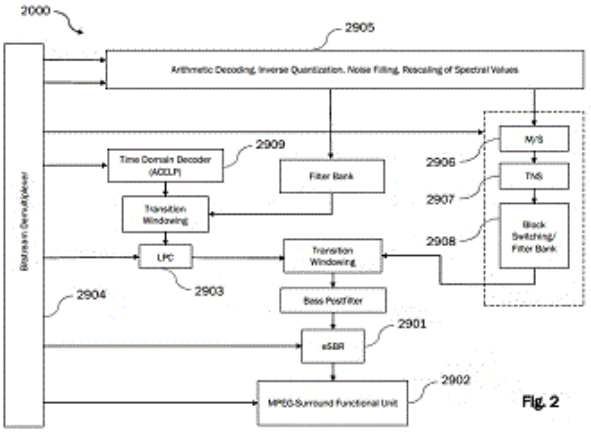


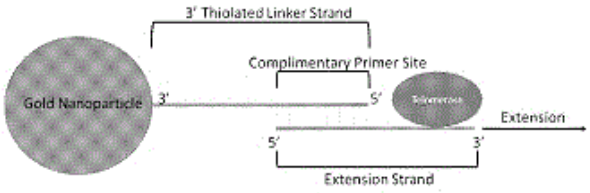
Fig. 2

21: 2020/03685. 22: 2020/06/18. 43: 2022/10/21
51: C12Q; G01N
71: UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG
72: LETSOLO, BOITELO TERESA (DECEASED), BERNERT, MARTIN, WEISS, STEFAN FRANZ THOMAS
33: ZA 31: 2017/08532 32: 2017-12-15

54: A NANOPARTICLE-BASED TELOMERASE ASSAY

00: -

The invention relates to methods for producing gold nanoparticles functionalised with a telomerase substrate, or a linker nucleic acid having a region complementary to a nucleic acid comprising a telomerase substrate, for use in detecting telomerase activity. Functionalised gold nanoparticle solutions and functionalised gold nanoparticles obtained using the method are also provided for. The invention further relates to a functionalised gold nanoparticle complex, comprising gold nanoparticles coupled to a linker nucleic acid which is hybridised to a nucleic acid comprising a telomerase substrate. Telomerase assays using the functionalised gold nanoparticles or functionalised gold nanoparticle complexes of the invention and kits for detecting telomerase activity in a cell, comprising the functionalised gold nanoparticles or functionalised gold nanoparticle complexes of the invention are also provided for.

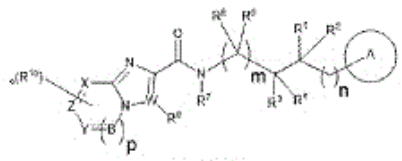


21: 2020/03778. 22: 2020/06/22. 43: 2022/10/21
51: C07D; A61P; A61K
71: JUBILANT EPISCRIBE LLC
72: VADIVELU, SARAVANAN, RAJAGOPAL, SRIDHARAN, BURRI, RAGHUNADHA REDDY, GARAPATY, SHIVANI, SIVANANDHAN, DHANALAKSHMI, THAKUR, MANISH KUMAR, NATARAJAN, TAMIZHARASAN, SWAMY, INDU N, NAGARAJU, NAGENDRA, KANAGARAJ, SUBRAMANIAM, MOHD, ZAINUDDIN, SARKAR, SAYANTANI, SAMANTA, SWAPAN KUMAR, .,, HARIPRAKASH
33: IN 31: 201741042307 32: 2017-11-24
33: IN 31: 201841001334 32: 2018-01-11

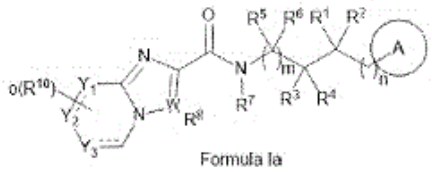
54: HETEROCYCLIC COMPOUNDS AS PRMT5 INHIBITORS

00: -

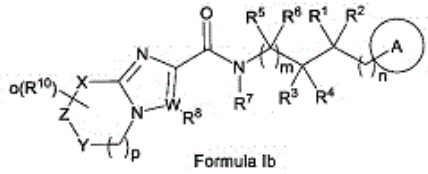
The compounds of Formula I, Formula Ia, and Formula Ib are described herein along with their analogs, tautomeric forms, stereoisomers, polymorphs, hydrates, solvates, pharmaceutically acceptable salts, pharmaceutical compositions, metabolites, and prodrugs thereof. These compounds inhibit PRMT5 and are useful as therpeautic or ameliorating agent for diseases that are involved in cellular growth such as malignant tumors, schizophrenia, Alzheimer's disease, Parkinson's disease and the like.



Formula I



Formula Ia

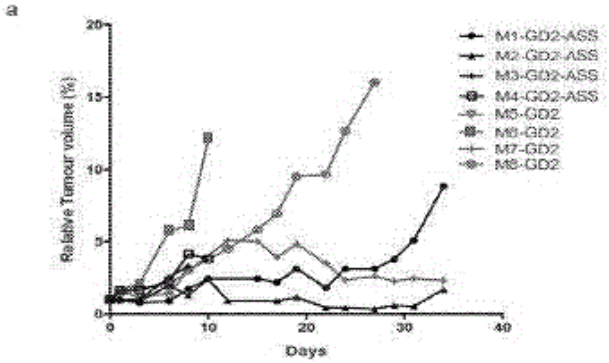


Formula Ib

21: 2020/03784. 22: 2020/06/22. 43: 2022/10/21
51: C07C
71: HALDOR TOPSØE A/S
72: TAARNING, ESBEN, TOLBORG, SØREN, MARTÍNEZ ESPÍN, JUAN SALVADOR
33: DK 31: PA 2018 00064 32: 2018-02-09
54: PROCESS OF PRODUCING ALPHA-HYDROXY COMPOUNDS AND USES THEREOF
00: -
New process of producing alpha-hydroxy compounds from sustainable resources useful as platform chemicals, such as hydroxy analogues of amino acids or polymer precursors.

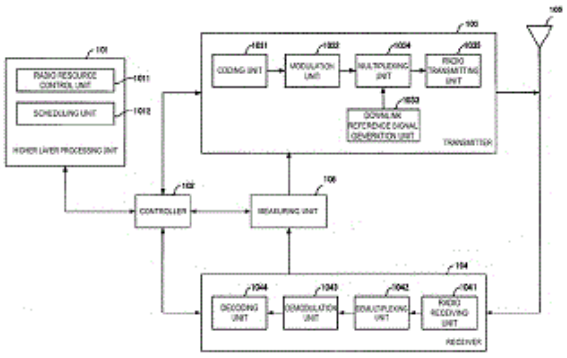
21: 2020/03785. 22: 2020/06/22. 43: 2022/10/12
51: A23K; A61K; A61P
71: ERBER AKTIENGESELLSCHAFT
72: SCHATZMAYR, Dian, BINDER, Eva Maria, NAGL, Veronika, SCHATZMAYR, Gerd
33: EP 31: 17210273.3 32: 2017-12-22
54: USE OF CORIOBACTERIIA TO PROMOTE GUT HEALTH
00: -
The present invention relates to a use of a microorganism of the class Coriobacteriia for promoting gut health of a healthy subject. Also provided is a method for the production of chenodeoxycholic acid (CDCA) and a method for the production of lithocholic acid (LCA).

21: 2020/03845. 22: 2020/06/24. 43: 2022/10/26
51: C07K; A61K; C12N
71: CANCER RESEARCH TECHNOLOGY LIMITED
72: MUSSAI, FRANCIS JAY, DE SANTO, CARMELA, LEE, STEVEN
33: GB 31: 1721833.0 32: 2017-12-22
54: FUSION PROTEINS
00: -
Provided are fusion target-binding proteins comprising a target binding moiety, an intracellular signalling region and a domain that promotes synthesis of arginine or an arginine precursor. The domain may be an enzyme domain such as an argininosuccinate synthase (ASS-1) enzyme domain, or an ornithine transcarbamylase (OTC) enzyme domain. Also provided are cells comprising such a fusion target-binding protein (for example cells that express the fusion target-binding protein), and nucleic acids encoding such fusion target-binding proteins. The invention also provides fusion target-binding proteins comprising a target binding moiety, an intracellular signalling region and a domain that promotes synthesis of tryptophan or a tryptophan precursor. Pharmaceutical compositions, medical uses, and methods of treatment, all using the fusion target-binding proteins, cells, or nucleic acids are disclosed. The proteins, cells, nucleic acids and pharmaceutical compositions may be used in the prevention and/or treatment of cancer, such as neuroblastoma or acute myeloid leukaemia.



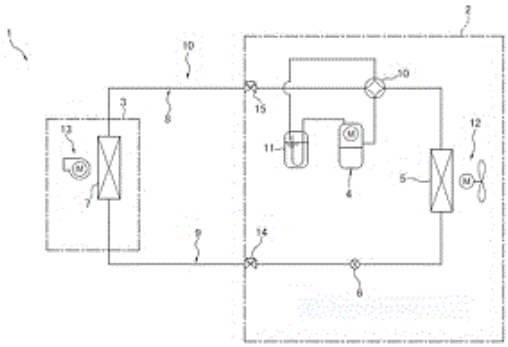
21: 2020/03867. 22: 2020/06/25. 43: 2022/10/26
51: H04W; H04B
71: SHARP KABUSHIKI KAISHA
72: TOMEBA, HIROMICHI, YAMADA, RYOTA, NAMBA, HIDEO, SHIRAKAWA, ATSUSHI
33: JP 31: 2017-251430 32: 2017-12-27
54: BASE STATION APPARATUS, TERMINAL APPARATUS, AND COMMUNICATION METHOD

00: -
A base station apparatus according to the present invention includes a transmitter configured to transmit a downlink signal by using a first component carrier and a second component carrier, and a receiver configured to receive an uplink signal transmitted by the terminal apparatus by using at least the second component carrier. The transmitter transmits spatial relation information in the uplink signal, the spatial relation information is information indicating a spatial domain transmission filter for transmitting the uplink signal, and the spatial relation information in the second component carrier includes information indicating the first component carrier.



21: 2020/03870. 22: 2020/06/25. 43: 2022/10/26
51: A01H
71: SAKATA SEED CORPORATION
72: HORIUCHI, SHINGO, SUZUKI, TAKAO, IZUMIDA, ATSUSHI
33: JP 31: 2017-234674 32: 2017-12-06
54: METHOD OF PRODUCING LACTUCA PLANT SEED USING A MEGACHILE BEE
00: -
The present invention discloses to a method of producing a Lactuca plant seed including using a Megachile bee as pollination means, and providing the a Megachile bee a minor nectar plant to have preference in flower visiting, in addition to a pollen parent Lactuca plant and a seed parent Lactuca plant and to perform a crossing of a Lactuca plant using a plant species having the preference in flower visiting equivalent to or lower than that of the Lactuca plant. According to one embodiment of the present invention, it is possible to produce a Lactuca hybrid plant seed more efficiently and economically than before while using a Megachile bee as pollination means.

21: 2020/03916. 22: 2020/06/26. 43: 2022/10/27
51: C09K; F25B
71: DAIKIN INDUSTRIES, LTD.
72: ITANO, MITSUSHI, KARUBE, DAISUKE, YOTSUMOTO, YUUKI, TAKAHASHI, KAZUHIRO, KOMATSU, YUZO, OHKUBO, SHUN, TAKAKUWA, TATSUYA, TSUDA, TETSUSHI, ABE, TAKEO, TODA, YUMI
33: JP 31: 2017-242185 32: 2017-12-18
33: JP 31: 2017-242187 32: 2017-12-18
33: JP 31: PCT/JP2018/038746 32: 2018-10-17
33: JP 31: PCT/JP2018/038748 32: 2018-10-17
33: JP 31: PCT/JP2018/038749 32: 2018-10-17
33: JP 31: 2017-242183 32: 2017-12-18
33: JP 31: 2017-242186 32: 2017-12-18
33: JP 31: PCT/JP2018/037483 32: 2018-10-05
33: JP 31: PCT/JP2018/038747 32: 2018-10-17
54: REFRIGERATION CYCLE APPARATUS
00: -
There is provided a refrigeration cycle apparatus in which good lubricity can be achieved when a refrigeration cycle is performed using a refrigerant having a sufficiently low GWP. The refrigeration cycle apparatus contains a refrigerating oil and a refrigerant composition containing a refrigerant containing trans-1,2-difluoroethylene (HFO-1132(E)), trifluoroethylene (HFO-1123), and 2,3,3,3-tetrafluoro-1-propene (R1234yf).

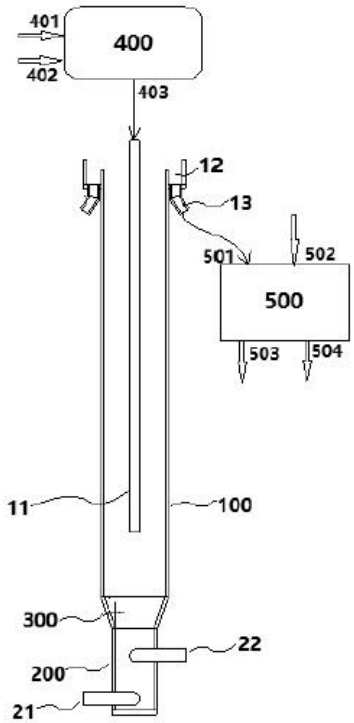


21: 2020/03944. 22: 2020/06/29. 43: 2022/11/21
51: A61K; A61P
71: LABORATORIOS SALVAT, S.A.
72: CAPDEVILA NORTES, Xavier, SANAGUSTÍN AQUILUÉ, Javier, DELGADO GAÑÁN, Maria Isabel
33: EP 31: 17382832.8 32: 2017-12-04
54: OPHTHALMIC TOPICAL COMPOSITION COMPRISING DOBESILIC ACID FOR TREATING

DISEASES OF THE POSTERIOR SEGMENT OF THE EYE
00: -
The invention relates to a new therapeutic approach for treatment and/or prevention of a disease of the posterior segment of the eye, in particular for retinal and optic nerve pathologies. Dobesilic acid and/or a pharmaceutically acceptable salt,or an ester of any of the acid or the salt,are proposed for use topically administered onto eye surface. There are also disclosed new compositions comprising dobesilic acid and/or a pharmaceutically acceptable salt,or an ester of any of the acid or the salt, adapted for performing the treatment and/or prevention of diseases of the posterior segment of the eye.

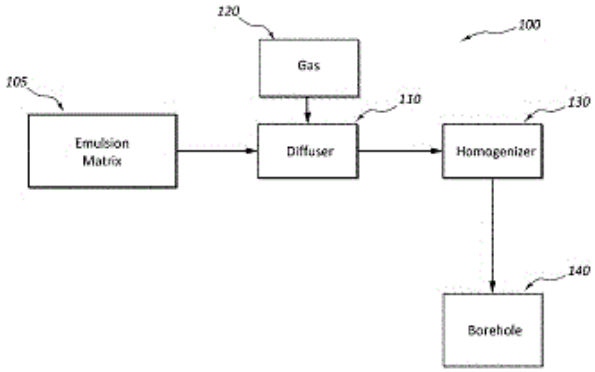
21: 2020/03954. 22: 2020/06/29. 43: 2022/10/27
51: C12N; A61K; A61P
71: ALNYLAM PHARMACEUTICALS, INC.
72: HINKLE, GREGORY, TREMBLAY, FREDERIC, MCININCH, JAMES D
33: US 31: 62/599,860 32: 2017-12-18
54: HIGH MOBILITY GROUP BOX-1 (HMGB1) IRNA COMPOSITIONS AND METHODS OF USE THEREOF
00: -
The present invention relates to RNAi agents, e.g., double stranded RNA (dsRNA) agents, targeting the HMGB l gene. The invention also relates to methods of using such RNAi agents to inhibit expression of a HMGBl gene and to methods of preventing and treating an HMGBl-associated disorder, e.g., metabolic disorder or non-alcholic fatty liver disease, e.g., non-alcoholic steatohepatitis (NASH).

21: 2020/03971. 22: 2020/06/30. 43: 2022/10/20
51: C21B
71: CHINA ENFI ENGINEERING CORPORATION
72: Suning LIU, Ninglei SUN, Jianhua PENG
33: CN 31: 201921089980.1 32: 2019-07-11
33: CN 31: 201910625804.3 32: 2019-07-11
54: SYSTEM AND METHOD FOR TREATING ZINC-CONTAINING WASTE LIQUID
00: -
A system for treating a zinc-containing waste liquid includes: a neutralization device, having a zinc-containing waste liquid inlet, a neutralizer inlet and a mixed slurry outlet; a grading device, including from top to bottom: an upper column, a bottom column, and a transition column 5 connecting the upper column and the bottom column; and a sedimentation-filtration unit, having a zinc hydroxide slurry inlet, a flocculant inlet, a zinc-rich slag outlet and a filtered liquid outlet. The upper column has an open top, and includes a mixed slurry feeding pipe connected to the mixed slurry outlet, an overflow trough disposed at an outer sidewall of an upper part of the upper column, and a zinc hydroxide slurry outlet disposed at a bottom of the overflow trough. The 10 bottom column includes a rotary water inlet pipe and a calcium sulfate slurry outlet disposed above the rotary water inlet pipe.



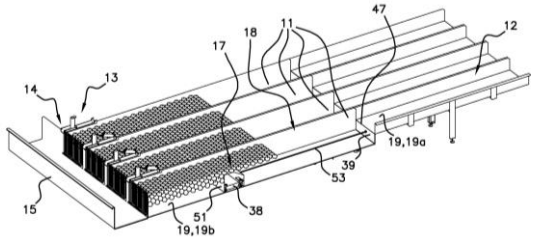
21: 2020/04121. 22: 2020/07/06. 43: 2022/10/31
51: F42D; C06D
71: DYNO NOBEL INC.
72: HALANDER, JOHN B, NELSON, CASEY L, KOME, CORNELIS L
33: US 31: 62/623,324 32: 2018-01-29
54: MECHANICALLY-GASSED EMULSION EXPLOSIVES AND METHODS RELATED THERETO
00: -
Emulsion explosives with gas bubbles that are resistant to in-borehole migration or coalescence are disclosed herein. Such emulsions can be sensitized by mechanically-introducing gas bubbles into the

emulsion. Resistance to gas bubble migration and coalescence can be achieved by homogenization, without the need for bubble stabilization agents.

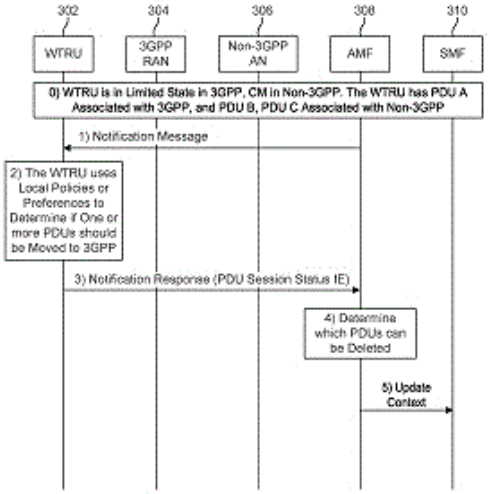


21: 2020/04123. 22: 2020/07/06. 43: 2022/10/31
51: C06B
71: DYNO NOBEL ASIA PACIFIC PTY LIMITED
72: PETTERSEN, JADE, MCPHAIL, EMMA, GORE, JEFF
33: AU 31: 2018900058 32: 2018-01-09
54: EXPLOSIVE COMPOSITIONS FOR USE IN REACTIVE GROUND AND RELATED METHODS
00: -
Explosive compositions for use in high temperature, reactive ground, or both, are disclosed. The explosive compositions can include an emulsion with a continuous organic fuel phase and a discontinuous oxidizer phase. The oxidizer phase can include one or more Group I or Group II nitrates.

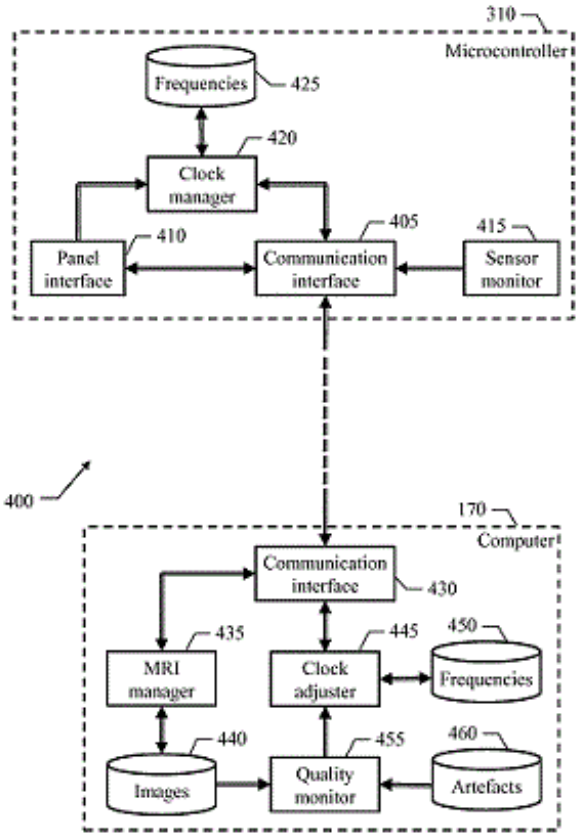
21: 2020/04180. 22: 2020/07/08. 43: 2022/09/28
51: B08B; B65G
71: MAF Agrobotic
72: BLANC, Stéphane
33: FR 31: 17 63101 32: 2017-12-22
54: METHOD AND DEVICE FOR GROUPING FLOATING ARTICLES INTO BATCHES, WITH DYNAMIC HYDRAULIC SUPERIMPOSITION OF THE ARTICLES
00: -
The invention relates to a method and a device for grouping fragile floating objects such as floating fruit into batches, in at least one accumulation channel with hydraulic superimposition of the retained objects in a superimposition zone against a retaining/releasing device which is closed so as to retain the articles. During a step of accumulating articles in an accumulation channel (11), a jump (17) towards the top of the bottom (19) of the accumulation channel (11) is moved upstream into said superimposition zone (18) from the downstream end (13) of the accumulation channel (11), as the articles are supplied, in such a way as to cause a superimposition of the articles retained in the superimposition zone between said jump (17) and the retaining/releasing device (14).



21: 2020/04261. 22: 2020/07/10. 43: 2022/10/31
51: H04W
71: IDAC HOLDINGS, INC.
72: WATFA, MAHMOUD, AGHILI, BEHROUZ, AHMAD, SAAD, SHI, XIAOYAN, OLVERA-HERNANDEZ, ULISES
33: US 31: 62/616,687 32: 2018-01-12
33: US 31: 62/716,516 32: 2018-08-09
33: US 31: 62/653,817 32: 2018-04-06
54: METHODS FOR PROTOCOL ENHANCEMENTS IN 5G NAS
00: -
Methods, systems, and apparatuses for protocol data unit (PDU) session management over different access technologies (ATs) are disclosed. A wireless transmit/receive unit (WTRU) may receive a first message from a network over a first access technology. The first message may include an indication for the WTRU to reestablish resources for one or more protocol data unit (PDU) sessions over a second access technology. The WTRU may determine that a PDU session of the one or more PDU sessions is locally deactivated by the WTRU. The WTRU may determine that it is in a limited service state associated with the second access technology. The WTRU may send a second message via the first access technology. The second message may include a PDU session status information element (IE) indicating the PDU session is locally deactivated such that the network releases the PDU session.



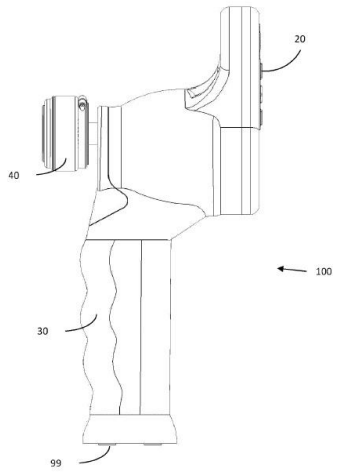
21: 2020/04410. 22: 2020/07/17. 43: 2022/10/03
51: G06F G06K
71: BRACCO INJENEERING SA
72: ROLFE, Steven, Mark, Guy, KREMER, Volker, BUCHHOLTZ, Eckhard, VAN DE BRUCK, Michael, BRUCKMANN, Günter
33: EP 31: 17208916.1 32: 2017-12-20
54: ADJUSTABLE CLOCK FREQUENCY IN AN INJECTOR HEAD ASSEMBLY FOR AN MRI SYSTEM
00: -
An MRI system (100) is proposed (for generating one or more images of a body-part of a patient under analysis); the MRI system (100) comprises an injector head assembly (155), for injecting at least one medical fluid into the patient, having a clock unit (340) for providing a clock signal with a clock frequency. The MRI system (100) comprises means (420-425;445 -460) for adjusting the clock frequency in response to a manual command and/or to a detection of a degradation of the images. An injector system (155,165) for use in this MRI system (100) is also proposed. Moreover, a corresponding method (500) for managing the injector head assembly (155) is proposed. A computer program (400) for implementing the method (500) and a corresponding computer program product are also proposed.



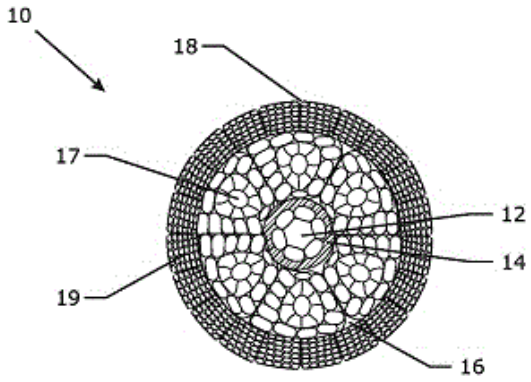
21: 2020/04431. 22: 2020/07/17. 43: 2022/10/26
51: A61F; A61M; A61L
71: REDDRESS LTD.
72: KUSHNIR, ALON, KUSHNIR, IGAL
33: IL 31: 254644 32: 2017-09-24
54: WOUND DRESSING DEVICE, ASSEMBLY AND METHOD
00: -
The present disclosure provides a device, method and assembly for use in wound treatment. Specifically disclosed is a wound dressing device; an assembly, e.g. in the form of a kit-of-parts, which comprises the device as one of its components; and a method of wound dressing and a use wherein said device is a key component. The device comprises a cavity defined by concave walls surrounded by lips configured for attachment to skin in a fluid tight manner and a closure removably fixed to the lips and sealing the cavity. The assembly also comprises, as other of its components a device for introducing blood into the cavity after it is fixed over a wound to permit the blood to clot over the wound within said cavity. In use, the clotting mold device is fixed on top of a wound, and blood is introduced into

the mold space to permit the blood to clot within the mold space to thereby form a blood clot over the wound.

21: 2020/04457. 22: 2020/07/20. 43: 2022/10/20
51: A61B
71: SONNEXT LTD.
72: Vyacheslav KAMENKO
33: US 31: 62/631,649 32: 2018-02-17
54: ULTRASOUND APPARATUS FOR MECHANICALLY APPLYING ULTRASOUND WAVES EFFICIENTLY
00: -
The present invention relates to an ultrasound apparatus for efficiently applying ultrasound waves over a treated area by mechanically moving the ultrasound transducer over an area larger than the Effective Radiating Area (ERA) comprising: (a) an ultrasound transducer, connected by wiring, for dispersing ultrasound waves; (b) an electric actuator for spinning a crank, wherein a shaft is eccentrically attached to said crank for rotatably whirling said transducer in circles.



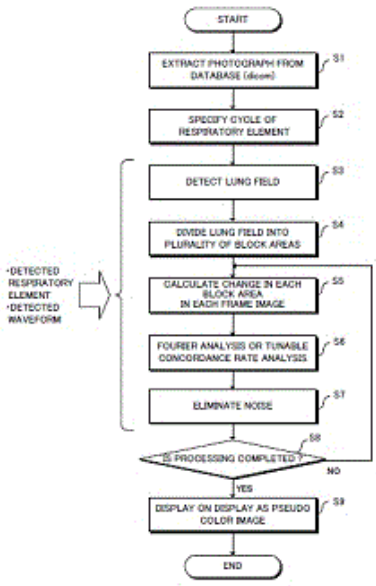
21: 2020/04510. 22: 2020/07/21. 43: 2022/10/12
51: D07B
71: BRIDON INTERNATIONAL LIMITED
72: HUNTER, TIMOTHY, WANG, PENGZHU, SINSBURY, IAN, JEAYS, ADAM, TAYLOR, JAMES
33: EP 31: 18250010.8 32: 2018-03-26
54: SYNTHETIC FIBER ROPE
00: -
A synthetic fiber rope comprising: - a core, said core being a laid or braided synthetic fiber strand, - a polymer layer, said polymer layer covering said core, - a first layer, said first layer having at least six first synthetic fiber strands laid in a first direction surround said polymer layer, and - a second layer, said second layer having at least twelve second synthetic fiber strands laid in a second direction surround said first layer.



21: 2020/04531. 22: 2020/07/22. 43: 2022/10/03
51: A61K
71: SAMI LABS LIMITED
72: MAJEED, Muhammed, NAGABHUSHANAM, Kalyanam, BHAT, Beena
33: US 31: 62/610,565 32: 2017-12-27
54: COMPOSITIONS CONTAINING THYMOHYDROQUINONE AND THEIR METHOD OF PREPARATION
00: -
Disclosed are compositions enriched with thymohydroquinone, further comprising of thymoquinone, hederagenm and/or a-hederin formulated by blending the active molecules isolated from the seeds of Nigella sativa. Also disclosed are novel processes for the isolation of bioactive components thymohydroquinone, thymoquinone from the seeds of Nigella sativa. A process for the isolation a-hederin and hederagenin from the spent material of Nigella sativa is also disclosed herein.

21: 2020/04575. 22: 2020/07/23. 43: 2022/10/24
51: A61B
71: PARAMEVIA PTE. LTD., MEDIOTT CO., LTD.
72: ABE, TAKEHIKO, YOSHIDA, NORIFUMI
33: JP 31: 2018-000855 32: 2018-01-05
33: JP 31: 2018-043511 32: 2018-03-09
54: DIAGNOSTIC SUPPORT PROGRAM
00: -

Provided is a diagnostic support program that can display the movement of an area that changes shape with each respiration element that includes all or part of an inhale or an exhale. The program includes: processing in which a plurality of frame images are acquired from a database that stores images; processing in which the period of a respiration element that includes all or part of an inhale or an exhale is specified on the basis of the pixels in a specific area of the frame images; processing in which a lung field is detected on the basis of the specified period of the respiration element; processing in which the detected lung field is partitioned into a plurality of block areas, and the change in the block areas of the frame images are calculated; processing in which a Fourier transform is performed on the change in the block areas of the frame images; processing in which, of the spectra obtained after the Fourier transform, the spectra that are within a fixed band that includes the spectrum that corresponds to the period of the respiration element are extracted; processing in which an inverse Fourier transform is performed on the spectra extracted from the fixed band; and processing in which post-inverse-Fourier-transform images are displayed on a display.



21: 2020/04802. 22: 2020/08/03. 43: 2022/11/16
51: A61L
71: MEDTRADE PRODUCTS LIMITED
72: HARDY, Craig, HOGGARTH, Andrew, GRIST, Matthew
33: GB 31: 1802380.4 32: 2018-02-14
54: HAEMOSTATIC MATERIAL
00: -
The present invention relates to a haemostatic material which is effective at controlling the flow of blood from both standard and coagulopathic wound injuries, whilst maintaining a reduced compression time, minimising the requirement for resuscitation fluids, and being easy and safe to use.

21: 2020/04932. 22: 2020/08/11. 43: 2022/10/10
51: A61K; A61P; C07D
71: Skyhawk Therapeutics, Inc.
72: LUZZIO, Michael, MCCARTHY, Kathleen, HANEY, William
33: US 31: 62/541,202 32: 2017-08-04
54: METHODS AND COMPOSITIONS FOR MODULATING SPLICING
00: -
Described herein are small molecule splicing modulator compounds that modulate splicing of mRNA, such as pre-mRNA, encoded by genes, and methods of use of the small molecule splicing modulator compounds for modulating splicing and treating diseases and conditions.

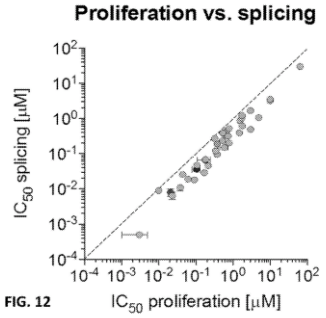
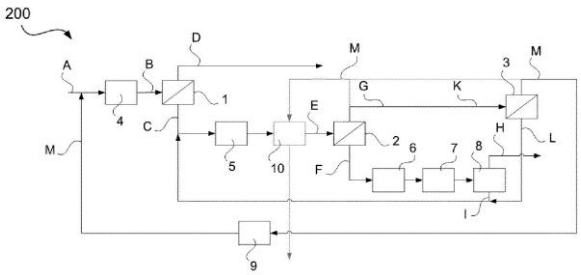


FIG. 12

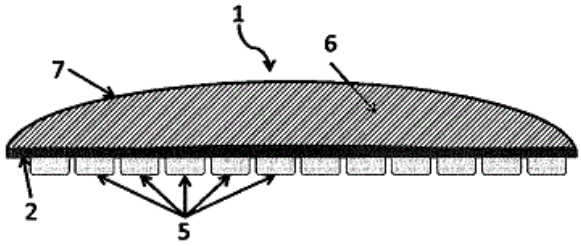
21: 2020/04970. 22: 2020/08/12. 43: 2022/10/03
51: H01M
71: BASF SE
72: BAYER, Domnik, ZERPA UNDA, Jesus, Enrique, JABCZYNSKI, Wolfgang, TER MAAT, Johan
33: EP 31: 18151853.1 32: 2018-01-16
54: METHOD FOR PRODUCING MOULDED PARTS CONSISTING OF A POROUS MATERIAL INPREGNATED WITH POLYSULFIDE
00: -
The invention relates to a method for producing moulded parts consisting of a porous material impregnated with polysulfide, comprising the

following steps: (a) feeding the porous material into a form tool; (b) introducing liquid polysulfide into the form tool with a flow velocity in the porous material of betwen 0.5 and 200 cm/s; (c) cooling the polysulfide to a temperature below the melting temperature of the polysulfide; and (d) removing the porous material impregnated with the polysulfide.

21: 2020/05022. 22: 2020/08/13. 43: 2022/10/20
51: B01D
71: Linde GmbH
72: KELLER, Tobias, BAUER, Martin, SCHIFFMANN, Patrick
33: EP(DE) 31: 18020032.1 32: 2018-01-22
54: METHOD AND SYSTEM FOR EXTRACTING PURE HELIUM
00: -
The invention relates to a method (200-400) for extracting pure helium using a first membrane separation stage (1), a second membrane separation stage (2) and a third membrane separation stage (3), in which a first helium-containing feed mixture is supplied to the first membrane separation stage (1), a second helium-containing feed mixture is supplied to the second membrane separation stage (2), and a third helium-containing feed mixture is supplied to the third membrane separation stage (3), and in which a first permeate and a first retentate are formed in the first membrane separation stage (1), a second permeate and a second retentate are formed in the second membrane separation stage (2), and a third permeate and a third retentate are formed in the third membrane separation stage (3). According to the invention, the first feed mixture is formed using at least one portion of a helium-containing starting mixture, the second feed mixture is formed using at least one portion of the first permeate, the third feed mixture is formed using at least one portion of the second retentate, the second permeate is at least partially processed by pressure-swing adsorption in order to obtain the pure helium and a remaining mixture, and at least one portion of the third permeate and/or at least one portion of the third retentate is guided back into the method (200). The invention also relates to a corresponding system.

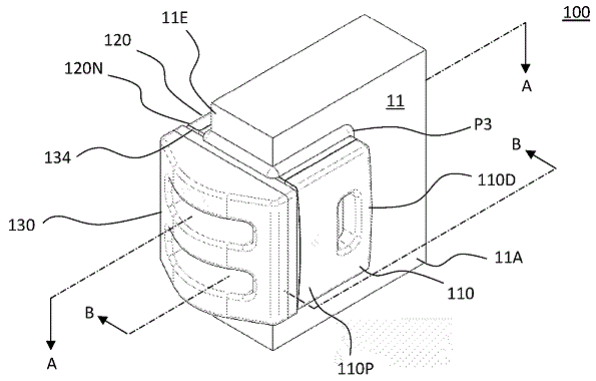


21: 2020/05593. 22: 2020/09/09. 43: 2022/10/19
51: A61F D04H
71: BSN MEDICAL GMBH
72: WILHELMS, Tim, ANNAHIT, Arshi, SCHÜTZ, Patrick
33: EP 31: 18161465.2 32: 2018-03-13
54: MECHANICAL WOUND CLEANING DEVICE
00: -
The invention relates to a mechanical wound cleansing device comprising a carrier layer and an abrasive loop system arranged above the carrier layer, whereby the lop system is an intermeshed fiber system which is intermeshed above the carrier layer and/or a loop system comprising highly and softly abrasive loops. The invention further relates to a method of producing said mechanical wound cleansing device. The invention final relates to the use of said wound cleansing device for the abrasive removal of and cleansing of wounds, especially for venous leg ulcers, diabetic foot ulcers (neuropathic and neuro-ischemic), arterial ulcers, mixed etiology ulcers, pressure ulcers or traumatic wounds.

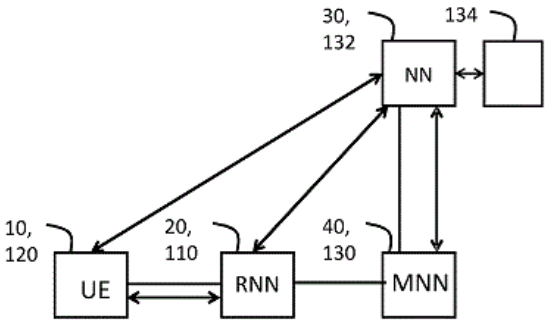


21: 2020/05596. 22: 2020/09/09. 43: 2022/10/19
51: E02F
71: MAKURI TECHNOLOGY PTE. LTD.
72: WILSON, Ian, James
54: AN EDGE WEAR PROTECTOR SYSTEM
00: -
An edge wear protector system adapted to be attached to a plate of a bucket is provided. Edge wear protector system includes a first side member having a proximal end and a distal end opposite the

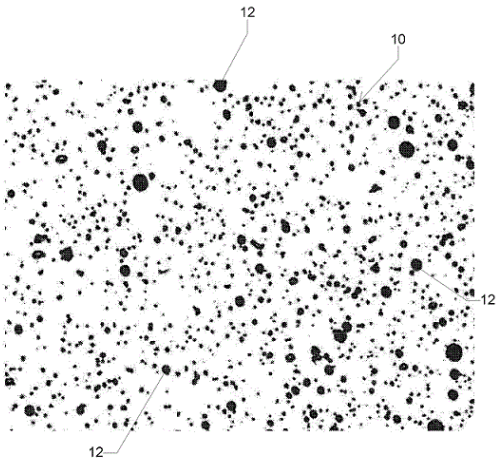
proximal end, the first side member adapted to be attached to one side of the plate, a second side member having a near end and a far end opposite the near end, the second side member adapted to be attached to another side of the plate, the another side of the plate being opposite the one side of the plate, an end member adapted to be attached to an edge of the plate, the edge of the plate extends from the one side to the another side of the plate, such that the first side member is attachable to the end member via its proximal end and the second side member is attachable to the end member via the near end.



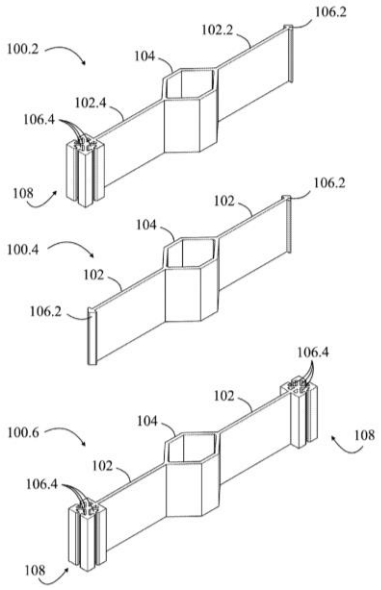
21: 2020/05677. 22: 2020/09/11. 43: 2022/10/19
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: GUNNARSSON, Fredrik, BUSIN, Åke, SHREEVASTAV, Ritesh, MODARRES RAZAVI, Sara, CUI, Tao
33: US 31: 62/658,628 32: 2018-04-17
54: A RADIO NETWORK NODE, A WIRELESS DEVICE AND METHODS THEREIN FOR TRANSMISSION AND RECEPTION OF POSITIONING SYSTEM INFORMATION
00: -
A wireless device (10,120) and a method therein for receiving positioning system information from a radio network node (20,110). The wireless device and the radio network node operate in a wireless communications network (100). The wireless device receives positioning system information broadcast scheduling information (pSI) comprising information about positioning System Information Blocks (pSIBs) that are comprised in a System Information (SI) message. Further, the wireless device receives an indication that a pSIB is segmented into pSIB segments. Based on the indication and on the pSI the wireless device determines whether or not the pSIB segments are scheduled via contiguous scheduling. When the pSIB segments are determined to be scheduled via contiguous scheduling, the wireless device monitors scheduled resources, retrieves the contiguously scheduled pSIB segments and decodes position system information of the retrieved pSIB segments.



21: 2020/05739. 22: 2020/09/16. 43: 2022/10/19
51: G06K B41M
71: CHAMELEON INNOVATIONS AUSTRALIA (CIA) PTY LTD
72: FONTAINE, Thomas, Joseph, Clayborne
33: AU 31: 2018900526 32: 2018-02-20
54: METHOD FOR ARTICLE AUTHENTICATION
00: -
A method of marking an article for authentication, the comprising the steps of applying an identification mark to an article, said mark comprising an array of varying sized markings, where the combination of the shape, the spatial distribution and the varying sizes of the markings imparts a distinctiveness to the identification mark recording the identification mark in a database and associating information relating to the article with the identification mark in the database, wherein comparison of the identification mark on the article and the database enables the identification mark to be associated with the information relating to the article on the database.



21: 2020/05835. 22: 2020/09/21. 43: 2022/10/19
51: E02B; E02D; F16B
71: GABTECH (PTY) LTD
72: BOTES, Anthin John, MARNEWECK, Gary Christopher, DLAMINI, Bhuti Vincent
33: ZA 31: 2018/01180 32: 2018-02-21
54: GROUND STABILISATION
00: -
The invention provides a modular barrier construction unit, which includes a planar body having first and second opposing ends, and at least one anchor retaining formation between the first and second opposing ends, said formation being shaped to receive an anchor in an upright orientation, co-planar with the planar body. The modular barrier construction unit further includes an inter-connectable formation on any one or both of the first and second opposing ends such that in use, the modular barrier construction unit is connected to one or more complementary modular barrier construction units to form a barrier. The invention is extended to provide a first and second barrier assembly kit for ground stabilisation.



21: 2020/05890. 22: 2020/09/23. 43: 2022/10/19
51: G01N
71: EVONIK OPERATIONS GMBH
72: FLÜGEL, Monika, PELZER, Stefan, THIEMANN, Frank, VAN IMMERSEEL, Filip, DUCATELLE, Richard, GOOSSENS, Evy, DEVREESE, Bart, DEBYSER, Griet
33: EP 31: 18159632.1 32: 2018-03-02
54: IN VITRO METHOD FOR DETECTING INTESTINAL BARRIER FAILURE IN ANIMALS
00: -
The present invention pertains to an in vitro method for detecting intestinal barrier failure in an avian population, the method comprising the following steps: a) collecting a pooled fecal sample deriving from an avian population and b) determining the amount of at least one protein marker contained in said sample; wherein the at least one protein marker comprises or consists of an acute phase protein or a functional fragment thereof, and wherein an increased amount of said at least one protein marker contained in said sample versus a reference sample indicates intestinal barrier failure.

21: 2020/05990. 22: 2020/09/28. 43: 2022/10/20
51: F17C
71: L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude
72: FOURNEL, Jean-Luc, BOIS, Romain, GARCIA, Marine
33: FR 31: 1852005 32: 2018-03-08

54: CONTAINER FOR STORING AND TRANSPORTING LIQUEFIED GAS
00: -
The invention relates to a container for storing and transporting liquefied gas, comprising a first reservoir (2) intended to store the liquefied gas, a second, external reservoir (3) that is disposed around the first reservoir (2), a third, annular reservoir (4) that is disposed between the first reservoir (2) and the second reservoir (3) and contains a liquefied gas for forming a heat shield, the container (1) comprising a device for holding the first reservoir (2) and third reservoir (4) in the second reservoir (3), configured to allow displacement of the first reservoir (2) and third reservoir (4) in the second reservoir (3) when they undergo dimensional variations caused by variations in temperature, the holding system comprising a set of tie bars (5, 6), at least some of the tie bars (5, 6) having a first end (7) connected in an articulated manner to the second reservoir (3) and a second end (8, 9) connected rigidly to the first reservoir (2) or to the third reservoir (4) or to a structural component rigidly joined to the latter, said articulated tie bars (5, 6) being movable between two given angular positions that respectively define two different positions of the second end (8, 9) of the tie bars and correspond respectively to the extremes of the dimensional variations of the first reservoir (2) and third reservoir (4) with respect to the second reservoir (3).

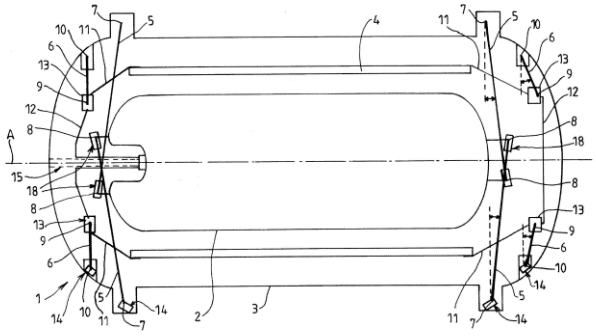
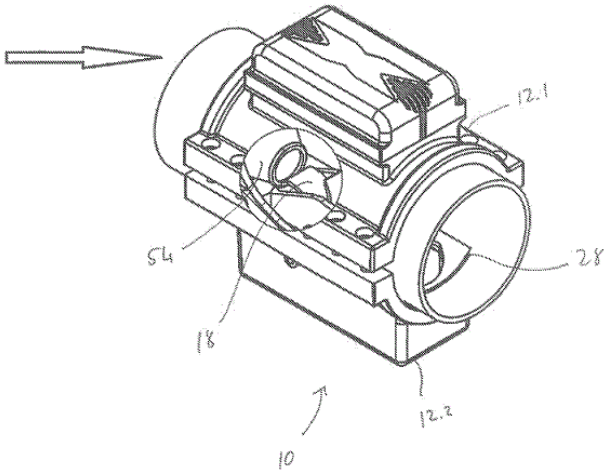


FIG.1

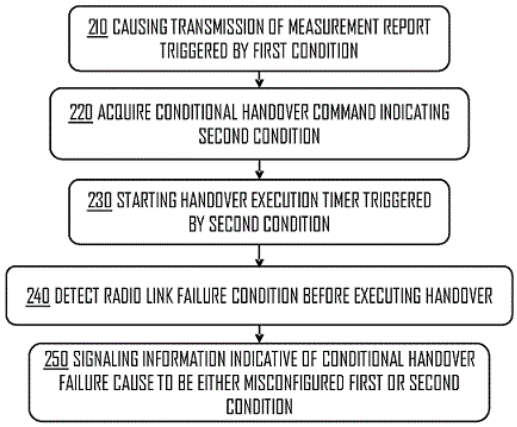
21: 2020/06113. 22: 2020/10/02. 43: 2022/10/11
51: A61K
71: LABORATORIOS FARMACÉUTICOS ROVI, S.A.
72: FRANCO RODRÍGUEZ, Guillermo, GUTIERRO ADURIZ, Ibon
33: EP 31: 18382413.5 32: 2018-06-12

54: INJECTABLE COMPOSITION
00: -
The present invention refers to a letrozole composition suitable for forming an in situ intramuscular implant comprising a sterile biodegradable thermoplastic polymer of polylactic acid (FLA), for administering a patient in need thereof from 0.1-2 milligrams every day.

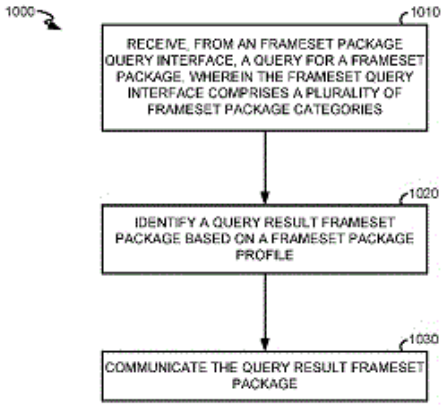
21: 2020/06206. 22: 2020/10/07. 43: 2022/10/03
51: G01F
71: MONG, Jacob, Johannes
72: MONG, Jacob, Johannes
33: ZA 31: 2018/02394 32: 2018-04-12
54: FLOW METER
00: -
According to the invention there is provided a flow meter (10) which includes a mounting member (12) for mounting the flow meter (10) about a pipeline aperture (13), an impeller housing (16) connectable to the mounting member (12) for housing an impeller (18) such that at least a peripheral region of the impeller (18) extends into the pipeline (14), the impeller housing (16) having a leading end region (20) defined upstream the fluid flow, and, a trailing end region (22) defined downstream the fluid flow, respectively, wherein the leading end region (20) is dimensioned to have a decreased degree of fluid flow resistance relative the trailing end region (22), when in use, and, a fluid flow path arrangement defined about a sidewall of the impeller housing (16), when in use, facilitate the outflow of fluid entering the impeller housing (16).



21: 2020/06209. 22: 2020/10/07. 43: 2022/10/03
51: H04W
71: NOKIA TECHNOLOGIES OY
72: BALAN, Irina-Mihaela, LOBINGER, Andreas, DECARREAU, Guillaume, VIERING, Ingo
54: DETERMINATION FOR CONDITIONAL HANDOVER FAILURE
00: -
There is provided a method comprising: upon detecting that a first condition is met, causing a transmission of a measurement report to a wireless network; acquiring a conditional handover command from the wireless network; upon detecting that a second condition, associated with the conditional handover command, is met, starting a handover execution timer for triggering execution of a handover from a source cell to a target cell; detecting that a radio link failure condition is met before the execution of the handover is triggered; and on the basis of the detecting, signaling, to the wireless network, information indicative of a cause of a conditional handover failure to be either misconfigured first condition or misconfigured second condition.

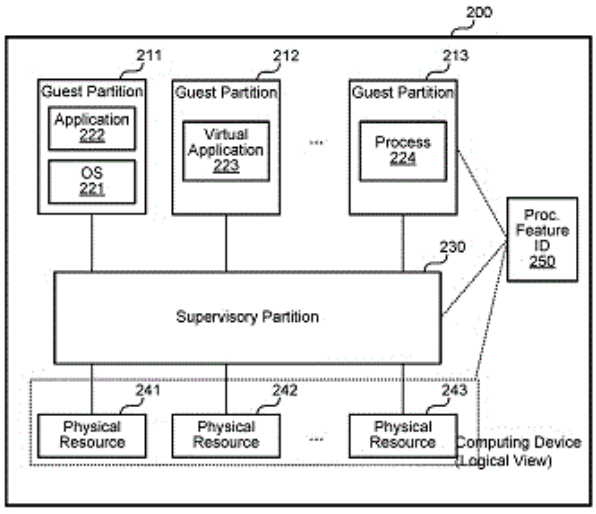


21: 2020/06248. 22: 2020/10/08. 43: 2022/10/18
51: G06F
71: MICROSOFT TECHNOLOGY LICENSING, LLC
72: ZARGAHI, KAMRAN
33: US 31: 15/995,121 32: 2018-05-31
54: DISTRIBUTED COMPUTING SYSTEM WITH A SYNTHETIC DATA AS A SERVICE FRAMESET PACKAGE STORE
00: -
Various embodiments, methods and systems for implementing a distributed computing system frameset package store are provided. Initially, a query for a frameset package is received from a frameset package query interface. The frameset query interface comprises a plurality of frameset package categories. A query result frameset package is identified based on a frameset package profile. The query result frameset package is communicated.



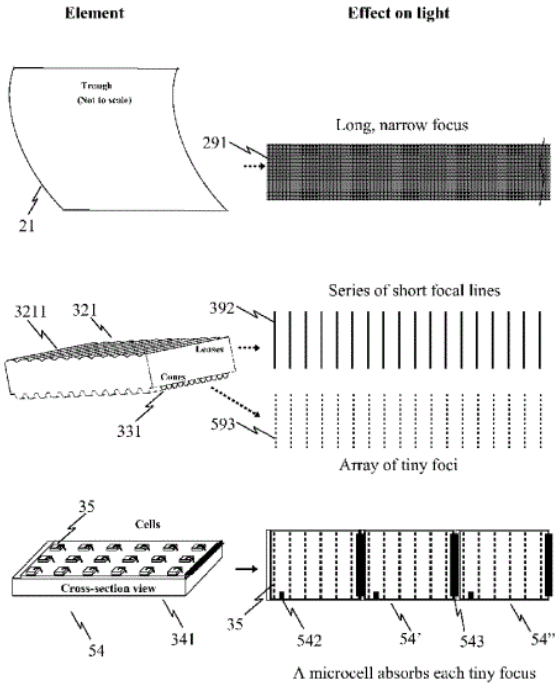
21: 2020/06251. 22: 2020/10/08. 43: 2022/10/18
51: G06F
71: MICROSOFT TECHNOLOGY LICENSING, LLC

72: SHERWIN, BRUCE J JR
33: US 31: 15/990,310 32: 2018-05-25
54: PROCESSOR FEATURE ID RESPONSE FOR VIRTUALIZATION
00: -
The disclosed technology is generally directed to virtualization technology. The disclosed technology includes providing processor feature ID information requested by, or from, a virtual machine (VM), virtualized application, Virtualization Based Security (VBS) user mode process, VBS kernel mode process, or other guest partition, by a processor. Such information may be provided based on information provided a priori to the processor, for example, by a supervisory partition, such as a hypervisor. The disclosed technology also includes a supervisory partition, for example, that provides such information to the processor, and includes guest partitions that receive such information.



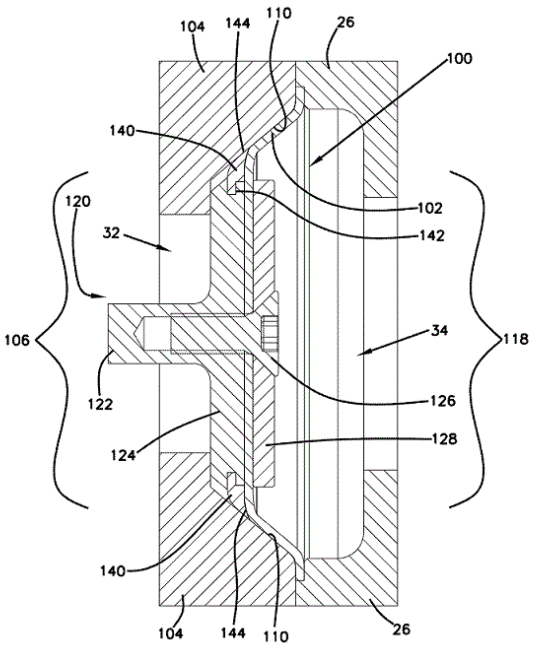
21: 2020/06371. 22: 2020/10/14. 43: 2022/10/19
51: A61K
71: TSETI, Ioulia
72: TSETI, Ioulia
33: EP 31: 18167617.2 32: 16-04-2018
33: EP 31: 19386017.8 32: 22-03-2019
54: A PHARMACEUTICAL DRY POWDER COMPOSITION FOR INHALATION COMPRISING A THYROID HORMONE
00: -
The present invention relates to dry powder compositions, suitable for inhalation through an appropriate inhalation device, comprising a thyroid hormone drug and a non-reducing sugar or sugar alcohol as a single carrier. The preparations of the invention show higher stability than the corresponding ones with lactose monohydrate, a commonly used carrier for dry powder preparations.

21: 2020/06372. 22: 2020/10/14. 43: 2022/10/03
51: H02S
71: TERRA FIRMA INNOVATIONS INC.
72: NORMAN, Richard
33: US 31: 62/644,774 32: 2018-03-19
54: PHOTOVOLTAIC MICROCELL ARRAY WITH MULTI-STAGE CONCENTRATING OPTICS
00: -
The present invention is primarily directed to reducing the cost of photovoltaic systems in general, and high-concentration photovoltaic systems in particular, through reducing the cost of concentrating light to the high-concentration needed to make ultra-efficient cells affordable, reducing the cost of interconnecting and cooling the photovoltaic cells, and increasing the optical and electrical efficiency of the photovoltaic system as a whole.

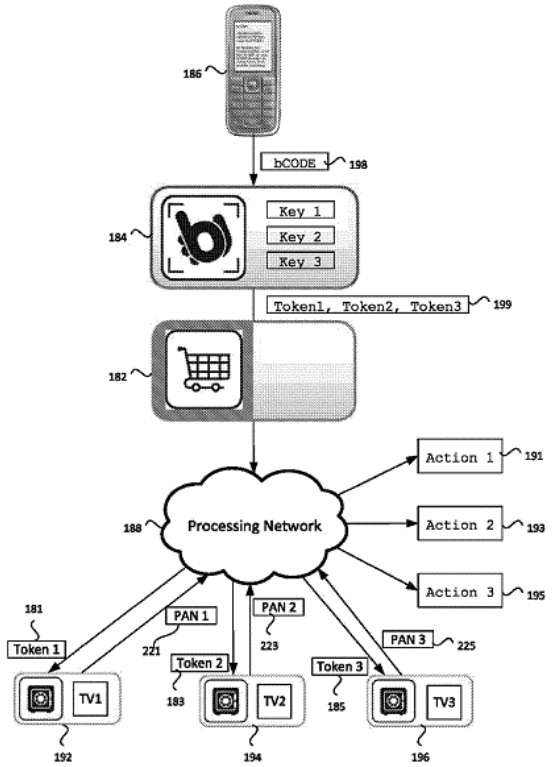


21: 2020/07017. 22: 2020/11/11. 43: 2022/10/03
51: F04B
71: WANNER ENGINEERING, INC.
72: MEINZ, Peter, FEATHERSTONE, Dustin, HOLLISTER, Matthew

33: US 31: 62/659,550 32: 2018-04-18
54: DEVICE FOR PROTECTING A DIAPHRAGM PUMP FROM PRESSURE DIFFERENTIAL
00: -
A diaphragm pump includes a transfer chamber containing hydraulic fluid and a pumping chamber for fluid to be pumped. A connecting assembly includes a plunger extending to the transfer chamber. A diaphragm connects to the connecting assembly and separates the transfer chamber and the pumping chamber. A pressure protection device mounts to the connecting assembly and is configured to seal against the transfer chamber when pressure differential, including reverse pressure differential, across the diaphragm exceeds a predetermined value. The pressure protection device is intermediate the plunger and the diaphragm and supports the diaphragm when there is excess pressure differential across the diaphragm.

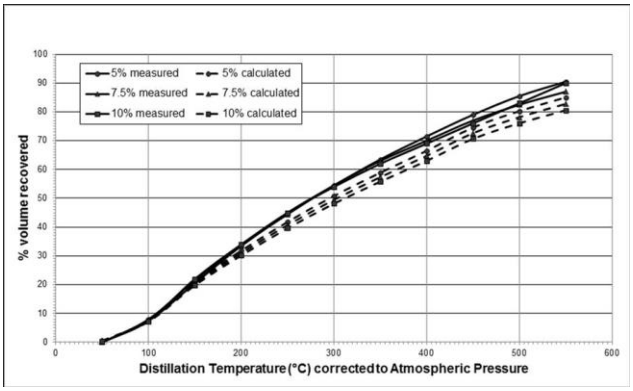


21: 2020/07191. 22: 2020/11/18. 43: 2022/10/03
51: G06F; G06Q
71: MOBILE TECHNOLOGY HOLDINGS LIMITED
72: EDMISTON, Sean, Anthony, EHRLICH, David, Kenneth
33: US 31: 62/661,084 32: 2018-04-23
54: MULTI-ACTION TRANSACTION SYSTEM AND METHOD
00: -
A transaction system and method, for use at merchant premises and which includes an electronic cash register (182, 54) and a scanning device (184, 60). The scanning device (184, 60) optically scans a customer code (198) on a user device (48), such as a user's smart phone (148). The customer code (198) is processed (188) using a plurality of keys to produce a plurality of processing tokens (181, 183,185), such as a financial processing token and a loyalty program token. These tokens can then be used to initiate multiple actions, such as transaction payment and loyalty program actions, from a single scan (184) of the customer code (198). The processing tokens (181, 183, 185,) may be provided to respective token vaults (192, 194, 196) for conversion to respective account numbers, e.g. for a financial account and a loyalty program account.

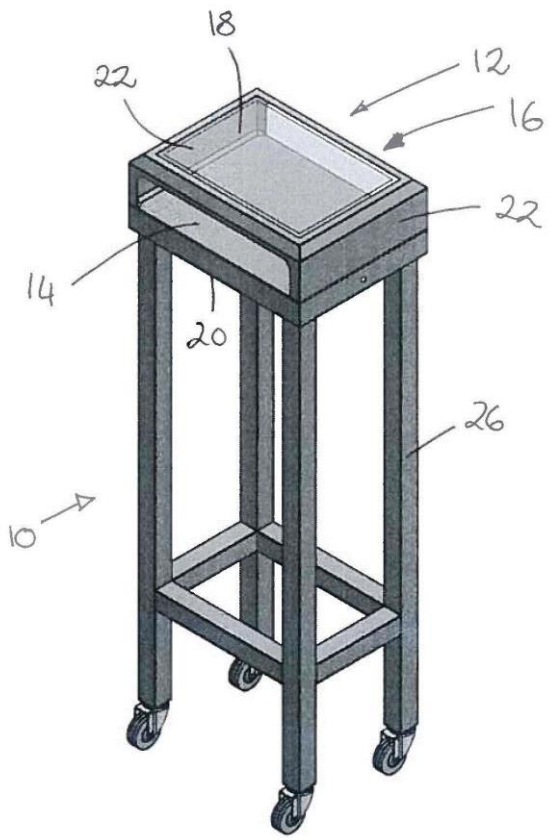


21: 2020/07404. 22: 2020/11/27. 43: 2022/11/21
51: C10G; C10L
71: ARQ IP LIMITED
72: SNAITH, Paul, UNSWORTH, John Francis
33: GB 31: 1605767.1 32: 2016-04-04
33: GB 31: 1607563.2 32: 2016-04-29
54: SOLID-LIQUID CRUDE OIL COMPOSITIONS AND PROCESSES
00: -
A process for the production of a fractionated product is disclosed, comprising providing a solid

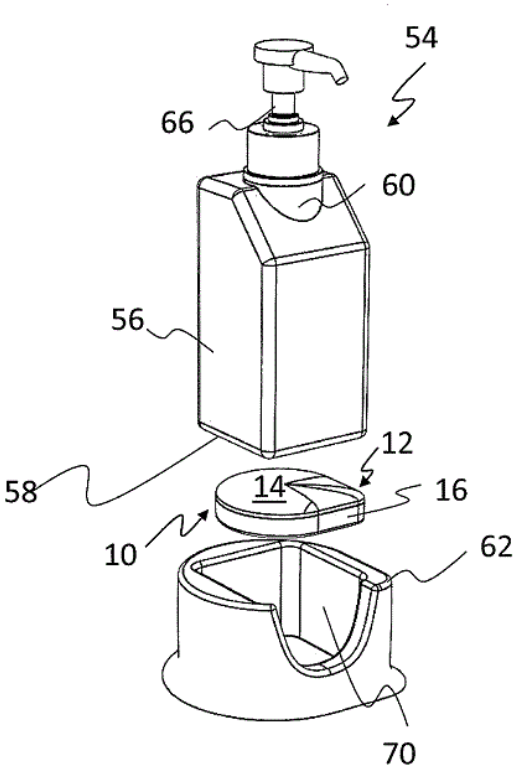
hydrocarbonaceous material, wherein the material is in particulate form, and wherein at least about 90 % by volume (%v) of the particles are no greater than about 500µm in diameter. The solid hydrocarbonaceous material is combined with an unrefined liquid hydrocarbonaceous material, such as crude oil, in order to create a combined solid-liquid blend; and the combined solid-liquid blend is subjected to fractionation in order to generate one or more fractionation products. Typically the solid hydrocarbonaceous material comprises coal, optionally the coal is ultrafine coal, and suitably the coal is comprised of microfine coal. The coal may be dewatered and deashed prior to combination with unrefined liquid hydrocarbonaceous material. Compositions and products of the process are further provided.



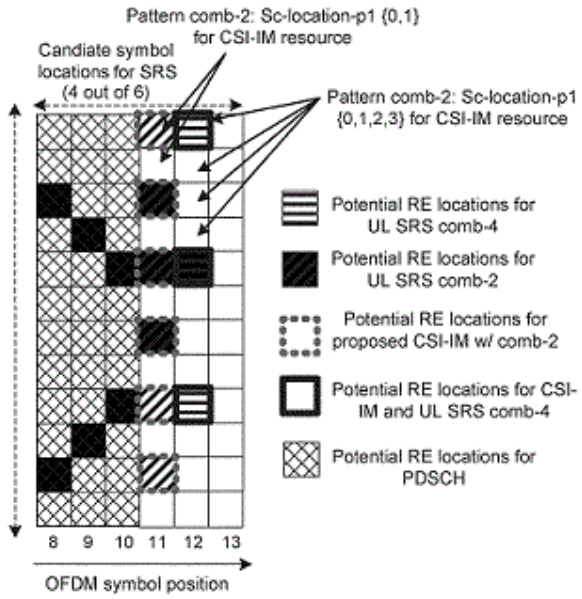
21: 2020/07477. 22: 2020/12/01. 43: 2022/10/03
51: A61L
71: O'CONNELL, Jonathan
72: O'CONNELL, Jonathan
54: A SANITIZING APPARATUS
00: -
The sanitizing apparatus 10 includes a housing 12 having a front opening 14 and a rear opening 16. One or more sanitizing light sources (not shown) are arranged along top and bottom walls 18 and 20 of the housing 12 which in use emit a sanitizing light so as to expose an object (not shown) located in the housing 12 to the sanitizing light. The apparatus 10 includes a continuous track (not shown) arranged so as to span between the front and rear openings 14 and 16 of the housing 12. The continuous track is manufactured from a wire mesh.



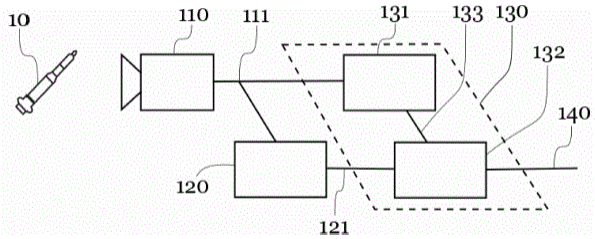
21: 2020/07664. 22: 2020/12/09. 43: 2022/10/03
51: G01G A47K G01F G08B
71: GWA HYGIENE GMBH
72: WALZ, Marcel
33: EP 31: 18177116.3 32: 2018-06-11
54: RE-USABLE SENSOR MODULE FOR USE WITH A DISPENSER OF A HAND HYGIENE PRODUCT
00: -
A re-usable sensor module for use with a dispenser for a hand hygiene product is described, wherein the dispenser comprises a container. The sensor module comprises an elastically deformable capsule with a top portion for placing a bottom of the container thereon. A sensor is arranged within the capsule and configured to measure a parameter associated with an elastic deformation of the capsule resulting from actuation or presence of the dispenser. The sensor module further comprises a processor arranged within the capsule and coupled to the sensor. The processor is configured to at least temporarily record at least one of the parameter and an event associated therewith.



21: 2020/07668. 22: 2020/12/09. 43: 2022/10/03
51: H04W H04B H04J H04L
71: NOKIA TECHNOLOGIES OY
72: KARJALAINEN, Juha, TIIROLA, Esa, KESKITALO, Ilkka, KORHONEN, Juha
33: US 31: 62/673,565 32: 2018-05-18
54: CROSS-LINK INTERFERENCE MEASUREMENTS FOR NR
00: -
According to a first embodiment, a method may include receiving, by a user equipment, a configuration for determining one or more antenna panel-wise cross-link interference measurements from a network entity configured to receive one or more downlink spatial directions. The method may further include calculating, by the user equipment, one or more interference estimates of UL interfering signals and related cross-link interference powers from the network entity. The method may further include transmitting, by the user equipment, one or more interference measurements based upon the configured flexible UL-to-DL cross-link specific resource configuration to the network entity.

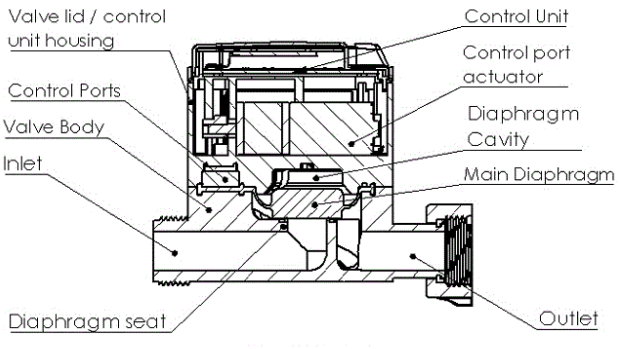


21: 2020/07804. 22: 2020/12/15. 43: 2022/10/03
51: G01J G01S
71: HENSOLDT SENSORS GMBH
72: ASSEL, Michael
33: EP 31: EP 19 217 531.3 32: 2019-12-18
54: MISSILE WARNER AND METHOD FOR WARNING OF A MISSILE
00: -
A missile warner comprises: a sensor (110), a recording device (120), and an evalua-tion unit (130). The sensor is configured to detect a potential missile (10). The recording device (120) is configured to continuously store detector data (121) generated by the sensor (110), for a predefined amount of time. The evaluation unit (130) is configured: to recognize within the detector data (111) a detection signal (230) of the potential missile (10) and to compare the detection signal (230) with a declaration threshold value (S2), and to generate, after the detection signal (230) has exceeded the declaration threshold value (S2), a warning signal (133) of the potential missile (10), and to perform, upon the presence of the warning signal (133), a verification of the potential missile (10) based on a temporal backtracking (220) of the corresponding detection signal (230), wherein the backtracking (220) comprises an analysis of the stored detector data (121).

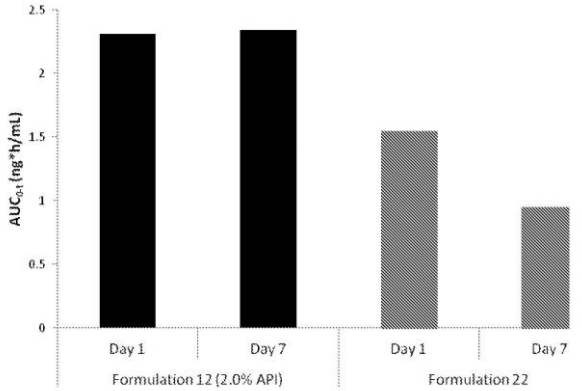


21: 2020/07819. 22: 2020/12/15. 43: 2022/10/03
51: A61K
71: SAMI LABS LIMITED
72: MAJEED, Muhammed, NAGABHUSHANAM, Kalyanam, BANI, Sarang, PANDEY, Anjali
33: IN 31: 201941006993 32: 2019-02-22
54: APHRODISIAC COMPOSITION AND MANAGEMENT OF MALE SEXUAL DYSFUNCTION
00: -
The present invention discloses a composition for the therapeutic management of male sexual dysfunction and related disorders. Specifically, the invention discloses a composition comprising 60-65% w/w Withania somnifera extract, 12-18% w/w Mucana pruriens extract, 5- 10% w/w Coleus forskolii extract, 12-18% w/w Kaempferia parviflora extract, 0.1 - 2% w/w Piper nigrum extract, for use as an aphrodisiac.

21: 2020/07863. 22: 2020/12/17. 43: 2022/10/19
51: E03B
71: LESIRA MANUFACTURING (PTY) LIMITED
72: DE BEER, Leon, Le Roux
33: ZA 31: 2019/06117 32: 2019-09-17
54: TRICKLE FLOW WATER METER
00: -
The invention provides a tri-state valve which includes the following components: 1. Valve Body 2. Diaphragm 3. Control ports 4. Control port actuator 5. Valve Lid / Control unit housing 6. Control unit o Basic valve control unit or, o Data acquisition and valve control unit The tri-state valve has at least one long edge and three operational states: - open; - closed; and - trickle flow, wherein the actuation from trickle flow to open opens the trickle flow liquid flow path through the valve along or parallel to the long edge of the valve so that any material obstructing flow through the trickle flow path of the valve when in the trickle flow state is flushed away by the liquid when the valve is actuated to open flow.



21: 2020/07965. 22: 2020/12/21. 43: 2022/11/23
51: A61K
71: DERMAVANT SCIENCES GMBH
72: BEDARD, Mary, DOHERTY, Michael, Quinn, LENN, Jon, D., SANTOS, Leandro, L., SONTI, Sujatha, D., THOMAS, Joey, Roger, WHITEMAN, Justin, E., JAIN, Piyush
33: US 31: 62/165,097 32: 2015-05-21
33: US 31: 62/324,450 32: 2016-04-19
54: TOPICAL PHARMACEUTICAL COMPOSITIONS
00: -
The present invention relates to topical pharmaceutical emulsion compositions comprising a therapeutically effective amount of 3,5-Dihydroxy-4-isopropyl-trans,-stilbene or a pharmaceutically acceptable salt thereof, an oil phase, a water phase, a surfactant, and an antioxidant, and wherein the emulsion composition is homogeneous and/or the active is solubilized in the oil phase. The invention also relates to methods of treating a dermatological condition or disorder in a patient by administering the present compositions to the skin of the patient.



21: 2021/00280. 22: 2021/01/14. 43: 2022/10/19
51: A61K; A61P; C07D
71: Hangzhou DAC Biotech Co. Ltd
72: ZHAO, Robert Yongxin, ZHUO, Xiaotao, YANG, Qingliang, ZHAO, Linyao, HUANG, Yuanyuan, YE, Hangbo, YANG, Chengyu, LEI, Jun, GAI, Shun, GUO, Huihui, JIA, Junxiang, BAI, Lu, XIE, Hongsheng, ZHOU, Xiaomai, GUO, Zhixiang, LI, Wenjun, CAO, Mingjun, ZHENG, Jun, YE, Zhichang, YANG, Yanlei

54: CROSS-LINKED PYRROLOBENZODIAZEPINE DIMER (PBD) DERIVATIVE AND ITS CONJUGATES

00: -

A novel cross-linked cytotoxic agents, pyrrolobenzo-diazepine dimer (PBD) derivatives, and their conjugates to a cell-binding molecule, a method for preparation of the conjugates and the therapeutic use of the conjugates.

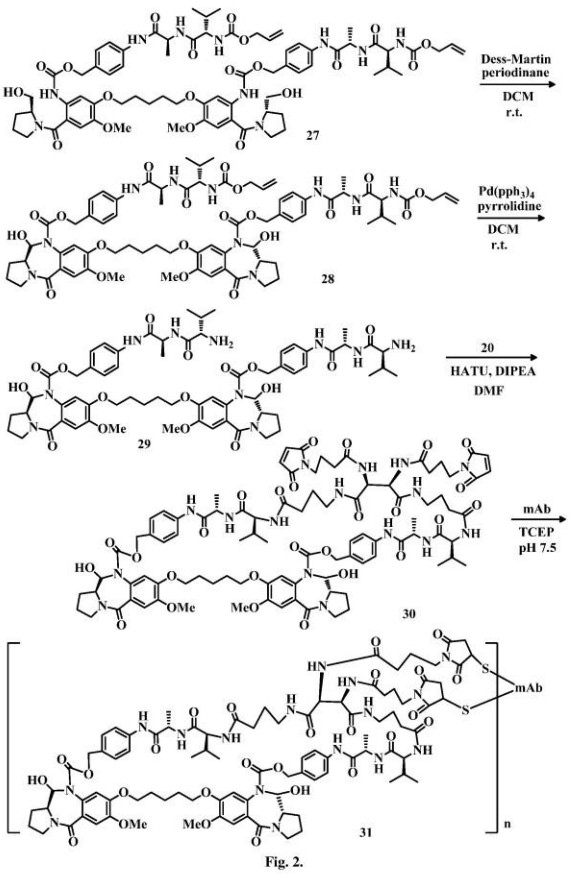


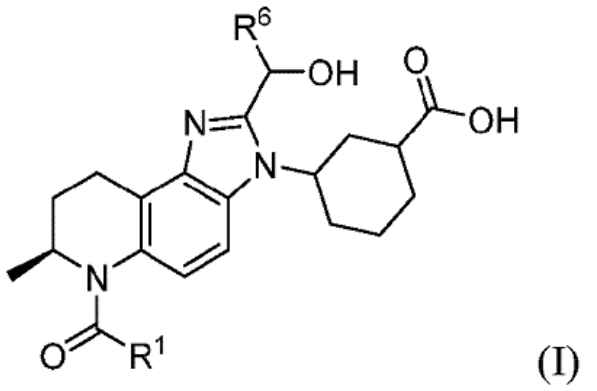
Fig. 2.

21: 2021/00509. 22: 2021/01/25. 43: 2022/10/19
51: C07D A61K A61P
71: FORMA THERAPEUTICS, INC.
72: SCHILLER, Shawn, E.R., HERBERTZ, Torsten, LI, Hongbin, GRAVES, Bradford, MISCHKE, Steven, WEST, Angela, V., ERICSSON, Anna, DOWNING, Jennifer, R.
33: US 31: 62/692,593 32: 29-06-2018
33: US 31: PCT/US2018/051214 32: 14-09-2018;
33: US 31: PCT/US2018/051235 32: 14-09-2018;
33: US 31: 62/819,490 32: 15-03-2019

54: INHIBITING CREB BINDING PROTEIN (CBP)

00: -

The present disclosure is directed to inhibitors of the CBP/p300 family of bromodomains. The compounds can be useful in the treatment of disease or disorders associated with the inhibition of the CBP/p300 family of bromodomains. For instance, the disclosure is concerned with compounds and compositions for inhibition of the CBP/p300 family of bromodomains, methods of treating, preventing, or ameliorating diseases or disorders associated with the inhibition of CBP/p300 family of bromodomains, and methods of synthesis of these compounds.



(I)

21: 2021/00616. 22: 2021/01/28. 43: 2022/10/03
51: F24D; G05D
71: STEENKAMP, JAN HARM JACOBUS, JONKER, JOHANNES PETRUS
72: STEENKAMP, Jan Harm Jacobus, JONKER, Johannes Petrus
33: ZA 31: 2019/07475 32: 2019-11-12
54: CONTROL ARRANGEMENT
00: -
The invention is for a control arrangement for a water heater, which includes a temperature probe configured to measure water temperature in the water heater, a switching circuit, controllably connected to a switching element of a heating element of the water heater, at least one processor connected to both the temperature probe and the switching circuit, the processor having a memory unit for storing water temperature measurements, the processor configured to measure water temperatures at predefined time intervals from the temperature probe, to calculate water usage from the water heater based on the measured temperature drop over a number of time intervals and storing calculated water usage data in the memory unit to map calculated water usage from the water heater against the time of day to create a water usage schedule; and to control the element switching circuit in real time according to the mapped historical water usage.

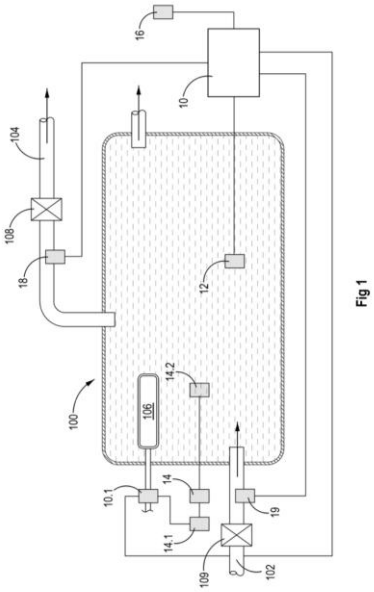
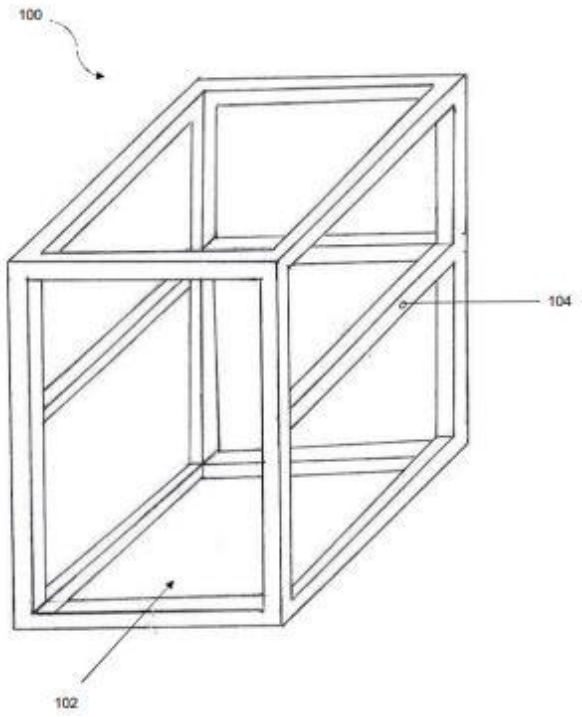
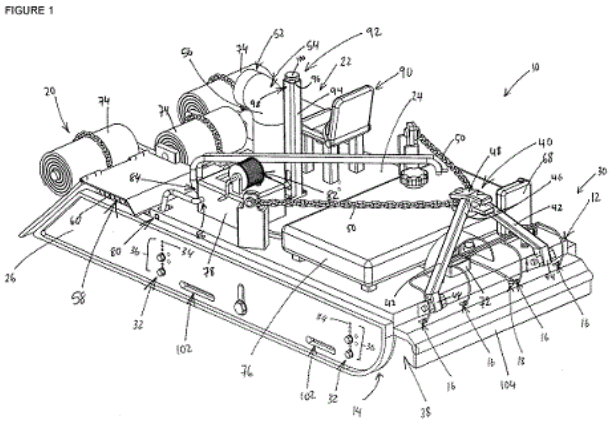


Fig 1

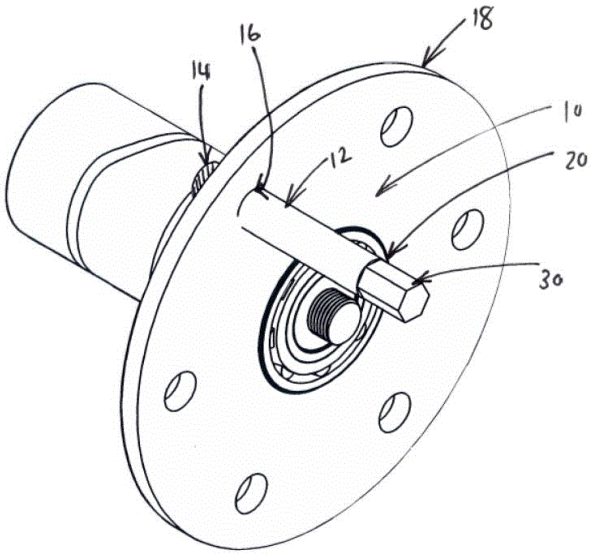
21: 2021/00747. 22: 2021/02/03. 43: 2022/10/03
51: G01N
71: Eclectic Services Company (pty) Ltd
72: Botha, Alex Johan
33: ZA 31: 2020/05791 32: 2020-09-18
54: A LOW-COST SYSTEM FOR INSPECTING THE INTEGRITY OF A WHEEL RIM
00: -
According to an aspect of the invention, there is provided a low-cost system for inspecting the integrity of a wheel rim, said system including one or more of the following: a portable compact xray device; a wheel gripping means operable to rotate and hold the rim in position; and an x-ray detector panel; wherein said x-ray detector panel is operable to produce an image of the wheel rim on a computer, to thereby manipulate and store images of said wheel rim. In an embodiment of the invention, said x-ray detector panel is operable to enable a user to check the integrity of one or more welding joints on the wheel rim made during repair of the wheel rim and/or checking for cracks in the wheel rim not visible the naked eye.



21: 2021/00790. 22: 2021/02/04. 43: 2022/10/03
51: E01C
71: KRIEL, Andre
72: KRIEL, Andre
33: ZA 31: 2018/05724 32: 2018-08-28
33: ZA 31: 2019/01010 32: 2019-02-18
54: A BURNING APPARATUS
00: -
The burning apparatus (10) includes a body (12) which defines a burning zone (14) for facilitating controlled burning of plant matter (not shown) on a ground surface (not shown) falling substantially within the burning zone (14) when the body (12) is displaced relative the ground (not shown), a dispenser (16) for dispensing an ignitable or combustible fuel (not shown) into the burning zone (14), an igniter device (18) for igniting the ignitable or combustible fuel (not shown) dispensed by the dispenser in the burning zone (14) and a smothering arrangement (20) for smothering burning plant matter as a trailing portion (22) of the burning zone (14) passes thereby.

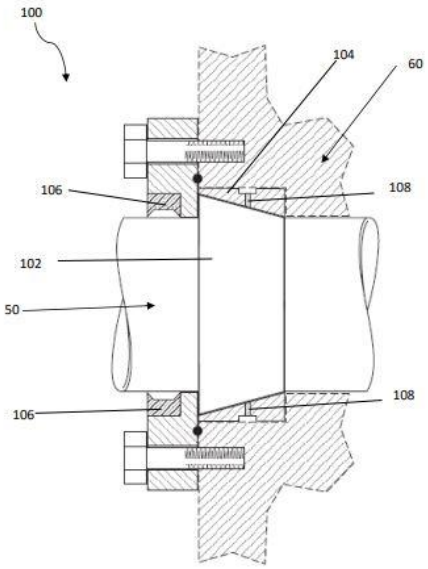


21: 2021/00804. 22: 2021/02/05. 43: 2022/10/03
51: B60B
71: LAWRANCE, John, Frederick, Hudson
72: LAWRANCE, John, Frederick, Hudson
33: ZA 31: 2020/00291 32: 2020-01-16
54: A MOUNTING AID
00: -
The mounting aid 10 includes an elongate member 12 having a first portion 14 sized, shaped and configured to be received by an aperture 16 of a wheel hub assembly 18 and a second portion 20 extending from the first portion 14 for supporting a wheel 22 to be mounted on the wheel hub assembly 18 so as to facilitate alignment of apertures 24 in the wheel 22 and corresponding apertures 16 in the wheel hub assembly 18 and thereby aid in mounting of the wheel 22 on the wheel hub assembly 18.

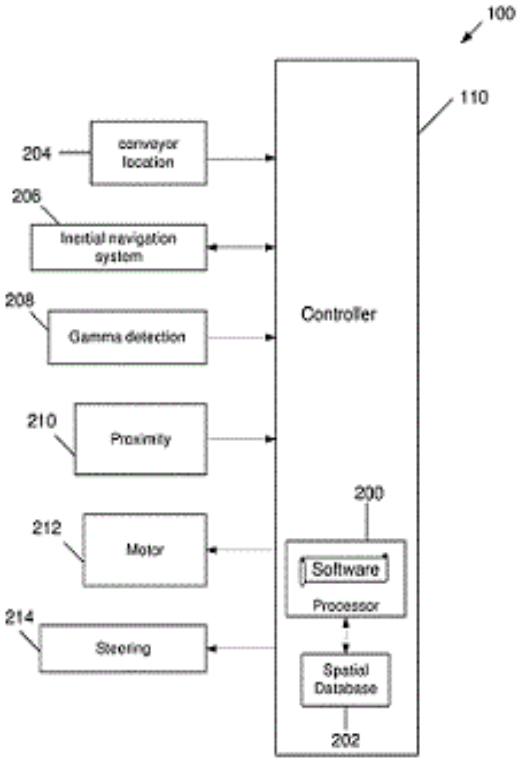


21: 2021/00942. 22: 2021/02/11. 43: 2021/09/08
51: F04D

71: Mark Desmond Rennie
72: Mark Desmond Rennie
33: ZA 31: 2020/00871 32: 2020-02-11
54: A SEALING DEVICE FOR USE WITH A CENTRIFUGAL PUMP, AND A METHOD OF SEALING A CENTRIFUGAL PUMP
00: -
According to a first aspect of the invention, there is provided a sealing device for use with a centrifugal pump, said device including one or more of the following: two tapered cones, one nested in the other; and one or more lip seals positioned between said two cone seals, in use. In an embodiment, said one or more lip seals are operable to seal said two tapered cones in use. In an embodiment of the invention, said two cones comprise an inner cone and one outer cone, said inner being axially displaceable relative to the outer cone, in use. In this embodiment, said inner cone is operable to rotate with the shaft of the centrifugal pump, in use. In an embodiment, said outer cone is operable to remain stationary in a stuffing box of the centrifugal pump, in use.

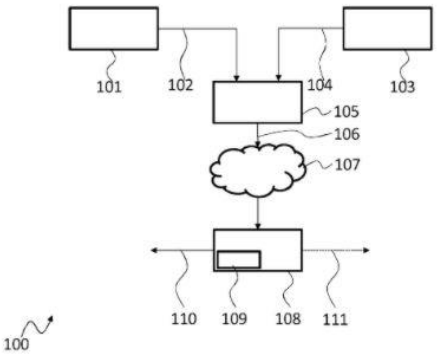


21: 2021/01238. 22: 2021/02/24. 43: 2022/10/03
51: E21C E21F B65G
71: UNDERGROUND EXTRACTION TECHNOLOGIES PTY LTD
72: MAPP, Michael, MACDONALD, Brian
33: AU 31: 2018903338 32: 2018-09-07
54: A MINING SYSTEM
00: -
The present invention relates to a mining system. The system includes a continuous miner for forming plunge tunnels from a roadway. A flexible conveyor system is coupled to the continuous miner for conveying mined material from the plunge tunnels. A controller is provided for controlling the continuous miner and the flexible conveyor system to travel along a predetermined path. Advantageously, the controller may control the drive and steering (including turning maneuvers) of the continuous miner and each conveyor module of the flexible conveyor system along the predetermined path to avoid striking either any adjacent equipment (e.g. another conveyor), or the 'ribs' of a plunge tunnel being mined.

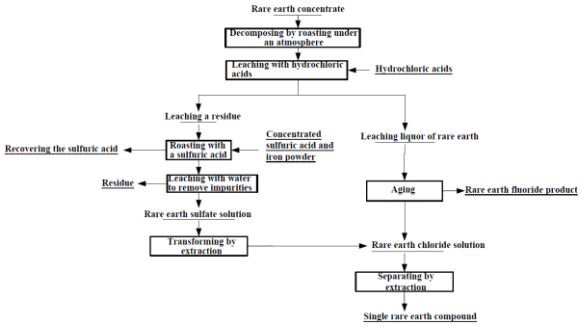


21: 2021/01366. 22: 2021/02/26. 43: 2022/10/12
51: G06Q
71: SALAMANTEX GMBH
72: Rene POMASSL, Attila ORAVECZ, Michael MUCK, Robert HUBER, Michael LOE, Thomas HIRSCH, Dominik CABRERIZO
33: EP 31: PCT/EP2018/071114 32: 2018-08-03
54: PROCESSING SYSTEM FOR PROCESSING CRYPTOCURRENCIES AND METHOD FOR PROCESSING CRYPTOCURRENCIES

00: -
The present invention provides a processing system (100, 1800, 1900, 2000, 2300) for processing a number of cryptocurrencies, the processing system (100, 1800, 1900, 2000, 2300) comprising a merchant terminal (101, 201, 301, 401, 501, 1801, 1901, 2001, 2301) configured to generate transaction information (102, 402, 502, 602, 802, 202) as a basis for the generation of transactions (106, 606, 806, 1206, 1306; 1506, 806, 1906, 2006) with one of the cryptocurrencies, and an automatic transaction handling processor (108, 1208, 1808) configured to process transactions (106, 606, 806, 1206, 1306; 1506, 1806, 1906, 2006) generated based on the transaction information (102, 402, 502, 602, 802, 1202) and to automatically split and/or redistribute transferred coins and/or assets based on a predetermined transfer policy (109, 1809). Further, the present invention provides a respective method.

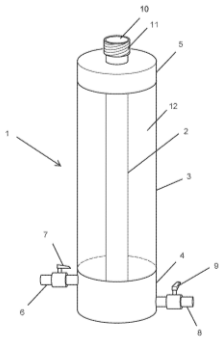


21: 2021/01505. 22: 2021/03/04. 43: 2022/11/21
51: C22B
71: GRIREM ADVANCED MATERIALS CO., LTD.
72: HUANG, Xiaowei, FENG, Zongyu, WANG, Meng, SUN, Xu, XU, Yang, XIA, Chao, ZHAO, Yanyan, ZHAO, Longsheng, MENG, Deliang, ZHANG, Yongqi
33: CN 31: 201810912079.3 32: 2018-08-10
54: PROCESS FOR SMELTING AND SEPARATING RARE EARTH CONCENTRATE USING COMBINATION METHOD
00: -
Disclosed is a process for smelting and separating a rare earth concentrate using a combination method, comprising treating a rare earth concentrate containing bastnaesite by using a method of roasting under an atmosphere - leaching with hydrochloric acid - roasting with sulfuric acid, and controlling the manner of stepping acid leaching with a low concentration hydrochloric acid during the leaching with hydrochloric acid so as to obtain a rare earth solution with a high concentration (150-250 g/L REO), such that the leaching rate of Ce reaches 60% or more, and the content of F- in a leaching liquor is reduced by aging, and further recovering rare earth from leaching residue by roasting with sulfuric acid - leaching with water, wherein the total yield of the rare earth reaches 95% or more. The whole process has a wider industrial applicability, can comprehensively treat a variety of complex rare earth minerals, and can realize environmentally friendly, efficient and clean production of mineral-type rare earth concentrates.

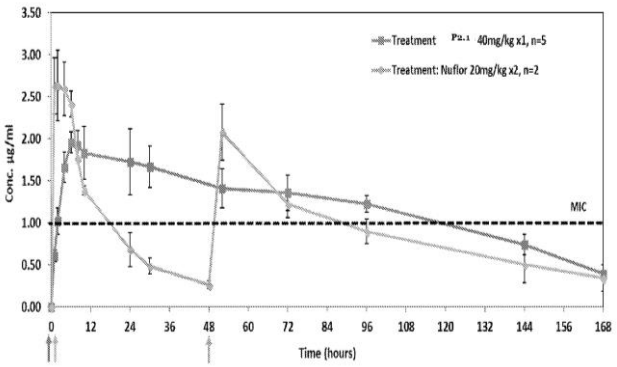


21: 2021/01993. 22: 2021/03/24. 43: 2022/10/17
51: C02F
71: NOAH WATER SOLUTIONS BVBA
72: PARMENTIER, Dries, VAN MEIRHAEGHE, Rik
33: BE 31: 2018/5601 32: 2018-08-28
54: METHOD AND DEVICE FOR THE CLEANING OF ELECTRODE CELLS WHICH ARE USED FOR WASTE WATER TREATMENT BY ELECTROCOAGULATION
00: -
The present invention relates to a method for removing contaminants from wastewater by means of electrocoagulation, the method comprising the steps of: passing the wastewater to be purified through an electrolytic cell that is provided with two metal electrodes with different electronegativities, consisting of coaxial pipes wherein the inner pipe comprises the more electronegative electrode, performing electrolysis between the two electrodes, such that the more electronegative electrode, which does not wear in a cleaning process, is used to produce hydrogen gas and hydroxyl ions from water, and that the less electronegative electrode, which is an active, wearing electrode in a cleaning process, is

used to produce metal ions in a solution to be cleaned, to produce an electric field in the electrolytic cell, whereby desired redox reactions take place to isolate one or more contaminants from the wastewater in the form of flakes, directing the wastewater with said flakes from the electrolytic cell to a separation device for flakes and purified water, and intermittently producing axial waves in the wastewater along the inner surface of the outer electrode to prevent contamination or poisoning of the electrodes.



21: 2021/02140. 22: 2021/03/30. 43: 2022/11/21
51: A61K; A61P
71: YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD
72: FRIEDMAN, Michael, KIRKMAYER, David, NUDELMAN, Zakhar, HOFFMAN, Amnon, LAVY, Eran, BAR-HAI, Ayala, GATI, Irith
33: US 31: 62/727,574 32: 2019-09-06
54: SUSTAINED-RELEASE INJECTABLE ANTIBIOTICAL FORMULATION
00: -
Provided herein are compositions of injectable antibiotics for veterinary use. The compositions are characterized by forming a gel at animal physiological temperature, said gel being characterized by a stable and repeatable release profile of the antibiotic. The compositions comprise high loading of drug in poloxamer solutions with addition of a co-solvent, and preferably with an addition of a cellulose derivative at least partially soluble in organic solvents. Methods of treatment of veterinary infections are also provided.

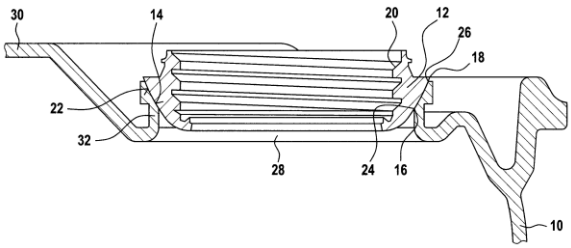


21: 2021/02228. 22: 2021/04/01. 43: 2022/10/20
51: H04N
71: Huawei Technologies Co., Ltd.
72: CHEN, Jianle, RUFITSKIY, Vasily Alexeevich, FILIPPOV, Alexey Konstantinovich
33: US 31: 62/728,666 32: 2018-09-07
54: METHOD AND APPARATUS FOR INTERPOLATION FILTERING FOR INTRA- AND INTER-PREDICTION IN VIDEO CODING
00: -
A method of video coding, wherein the method comprises inter-prediction processing of a first block, wherein the inter-prediction processing comprises subpixel interpolation filtering of samples of a reference block; intra-prediction processing of a second block, wherein the intra-prediction processing comprises subpixel interpolation filtering of reference samples; wherein the method further comprises selecting interpolation filter coefficients for the subpixel interpolation filtering based on a subpixel offset between integer reference sample positions and fractional reference samples' positions, wherein for the same subpixel offsets the same interpolation filter coefficients are selected for intra-prediction processing and inter-prediction processing.

21: 2021/02345. 22: 2021/04/09. 43: 2022/11/21
51: B29C; B65D
71: MAUSER-WERKE GMBH
72: WEYRAUCH, Detlev
33: DE 31: 20 2018 004 383.4 32: 2018-09-21
54: PLASTIC CONTAINER
00: -
The present invention relates to a container (10) made of thermoplastic material and produced by blow moulding - preferably a tight head drum - having an internally threaded, welded-on spigot

connection prefabricated by injection moulding, for storing and for transporting liquid or free-flowing contents. In order to eliminate disadvantageous material deformation in blow-moulded containers as a result of relatively long cooling periods required by thickened locations, e.g. at threaded spigots and pinch-off welds, a shortened weld spigot connection (32) is provided in the upper base (30) of the container (10), onto which connection is welded a solid threaded weld head (12) prefabricated by injection moulding and having an internal thread (20).

Fig. 3



21: 2021/02378. 22: 2021/04/12. 43: 2022/11/21
51: B28B; E04B
71: START SOMEWHERE GEMEINNÜTZIGE GMBH
72: VON MALM, Oliver
33: DE 31: 102018125548.9 32: 2018-10-15
54: WALL BLOCK, RANGE OF WALL BLOCKS, AND FORMWORK FOR PRODUCING A WALL BLOCK
00: -
Wall block (2) consisting of artificial stone material: it has an overall elongate format and has a first seating side (10); an opposite, second seating side (12); a first end side (14); an opposite, second end side (16); a first wall surface side (18); an opposite, second wall surface side (20); it has a first seating surface (4) on its first seating side and a second seating surface (6) on its second seating side; it has a lateral surface (8) and on its first seating side, arranged in a row, a plurality of extension arrangements (30), and on its second seating side, arranged in a row, a plurality of receiving arrangements (40), wherein the respective extension arrangement and the respective receiving arrangement are formed in such a way that the form-fitting engagement - in itself - is possible both when the longitudinal center axes of the claimed wall block and of the third further or of the fourth further wall block are parallel to one another and when the longitudinal center axes of the claimed wall block and of the third further or of the fourth further wall block - as seen in a plan view of the first seating side or the second seating side of the claimed wall block - extend at an angle (81) to one another; and said wall block is formed with a fin (60) at the transition between its first end side and its first wall surface side and / or at the transition between its first end side and its second wall surface side.

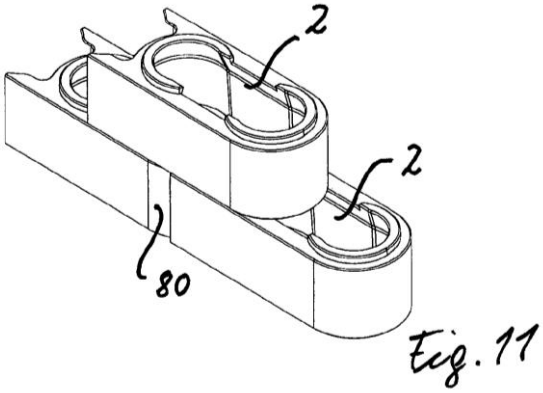
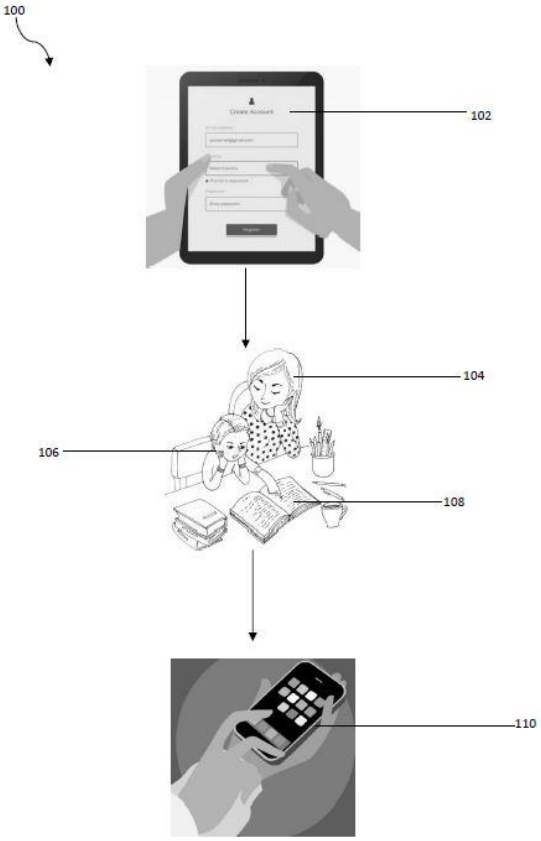


Fig. 11

21: 2021/02400. 22: 2021/04/09. 43: 2022/10/20
51: G09B
71: PANDA, MPHUTUMI BRANDON
72: PANDA, MPHUTUMI BRANDON
33: ZA 31: 2020/01948 32: 2020-05-04
54: A SYSTEM FOR AND A METHOD OF ASSISTING PRIMARY SCHOOL LEARNERS WITH HOMEWORK
00: -
According to a first aspect of the invention, there is provided a system for assisting primary school learners with homework, the system includes one or more of the following:a means of supervising one or more primary school learners with their homework; and a mobile application and/or platform operable to be run on one or more mobile devices. In an embodiment of the invention, said mobile device application and/or platform includes one or more data encryption and security protocols. In an embodiment of the invention, said means of supervising one or more primary school learners with their homework is provided in the example form of an after-school homework program. In this embodiment, said after-school homework program includes the use of one or more educationally

trained individuals, a suitable venue and said mobile application and/or platform.



21: 2021/03082. 22: 2021/05/07. 43: 2022/10/12
51: H04B; G06Q
71: ANCHOR RING SOLUTIONS, LLC
72: FUGALLO III, Joseph A., MARRA, John P., WALSH, James R., FUGALLO IV, Joseph
33: US 31: 16/186,247 32: 2018-11-09
33: US 31: 62/794,905 32: 2019-01-21
33: US 31: 62/841,217 32: 2019-04-30
54: SYSTEMS AND METHODOLOGY FOR CONSTRUCTION MANAGEMENT AND EQUIPMENT POSITIONING VIA BUILDING INFORMATION MODELING
00: -
A system, method and apparatus includes generating a building model of a building to be constructed at a construction site, identifying within the building model positional locations for installation of one or more anchor apparatuses within structural elements of the building model, transmitting the building model to a portable computing device at the construction site and identifying the location of the portable computing device to a given positional location. At least the generating, identifying, transmitting and identifying steps are implemented via at least one processing device comprising a processor and a memory.

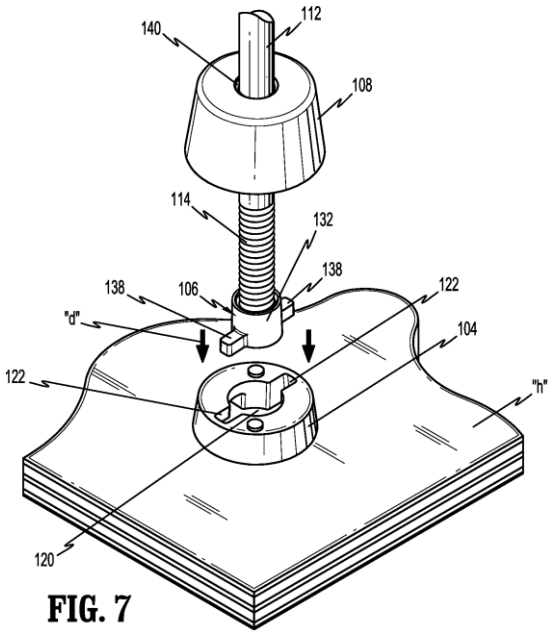


FIG. 7

21: 2021/03349. 22: 2021/05/18. 43: 2022/10/12
51: A61K; A61P; C07D
71: GlaxoSmithKline Intellectual Property Development Limited, ViiV Healthcare Company, The University of North Carolina at Chapel Hill
72: DE LA ROSA, Martha Alicia, DUNHAM, Richard M, MARGOLIS, David, TAI, Vincent Wing-Fai, TANG, Jun
33: US 31: 62/773,563 32: 2018-11-30
54: COMPOUNDS USEFUL IN HIV THERAPY
00: -
The invention relates to compounds of Formula (I), (Ia), (Ib), (II) or (III), salts thereof, pharmaceutical compositions thereof, as well as therapeutic methods of treatment and prevention.

21: 2021/03353. 22: 2021/05/18. 43: 2022/10/12
51: A61K; A61P; C07K
71: Bristol-Myers Squibb Company
72: YAMNIUK, Aaron, STRUTHERS, Mary, KRYSTEK, Jr., Stanley R., NAYEEM, Akbar, RAKESTRAW, Ginger
33: US 31: 62/769,514 32: 2018-11-19
54: ANTAGONISTIC CD40 MONOCLONAL ANTIBODIES AND USES THEREOF
00: -

The disclosure provides for antibodies that bind CD40, including a humanized antibody. The antibodies bind CD40 and do not exhibit CD40 agonist activity. The antibodies may comprise a modified IgG1 Fc domain, and exhibit minimal activation of immature dendritic cells. Compositions comprising antibodies, methods of use for treatment of diseases involving CD40 activity, and use in the preparation of a medicament for treatment of a disease involving CD40 activity are provided.

21: 2021/03423. 22: 2021/05/20. 43: 2022/10/03
51: C13B B01D
71: BUCKMAN LABORATORIES INTERNATIONAL, INC.
72: MASCIA, Marco, Ulisse, MAGNESS, Bret, SMITH, Ivan
33: US 31: 62/770,283 32: 21-11-2018
33: US 31: 62/833,242 32: 12-04-2019
54: EFFECTIVE FOAM CONTROL ON PROCESS BEET WASHING WATER BY AUTOMATIC APPLICATION OF ANTIFOAM
00: -
A beet washing system features a defoamer dosage controller having a signal processor configured to receive signaling containing information about a volumetric percent of entrained air in a process water used for washing beets; and determine corresponding signaling containing information to control a dosage of defoamer provided to the process water to regulate the amount of foam in the process water used for washing the beets.

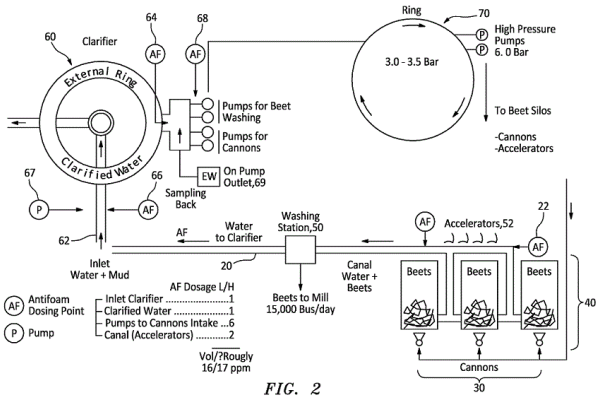
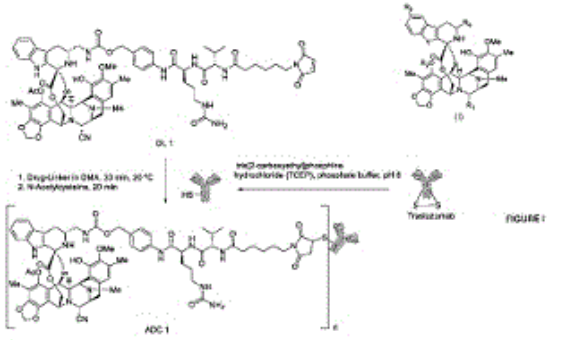


FIG. 2

21: 2021/03478. 22: 2021/05/21. 43: 2022/10/17
51: A61K; A61P
71: PHARMA MAR, S.A.
72: CUEVAS MARCHANTE, MARIA DEL CARMEN, FRANCESCH SOLLOSO, ANDRES, LATORRE LOZANO, ALFONSO, MARTINEZ BARRASA, VALENTIN
33: EP 31: 18382759.1 32: 2018-10-25
54: ANTIBODY DRUG CONJUGATES COMPRISING ECTEINASCIDIN DERIVATIVES
00: -
Drug conjugates having formula $[D\text{-}(X)_b\text{-}(AA)_w\text{-}(T)_g\text{-}(L)\text{-}]_n\text{-}Ab$ wherein: D is a drug moiety having the following formula (I) or a pharmaceutically acceptable salt, ester, solvate, tautomer or stereoisomer thereof, (I) wherein D is covalently attached via a hydroxy or amine group to $(X)_b$if any, or $(AA)_w$if any, or to $(T)_g$if any, or (L); that are useful in the treatment of cancer.



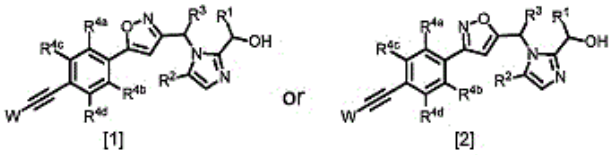
21: 2021/03493. 22: 2021/05/24. 43: 2022/12/01
51: G01H; G10L; H04L
71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN
54: A WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE
00: -
A wireless communication identification sensor for regulating the access of files and use of computing device functionality comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which identification is required to access files on a data processor, in use. The sensor identity at least partially defines an encryption key for encryption or decryption of data. The sensor uses a software application which enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server

which interacts with the software application and communicates the user information when appropriately accessed.

21: 2021/03494. 22: 2021/05/24. 43: 2022/12/01
51: G01H; G10L; H04L
71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN
54: A WEARABLE WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE
00: -
A wearable wireless communication identification sensor for regulating the access of files and use of computing device functionality comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which identification is required to access files on a data processor, in use. The sensor identity at least partially defines an encryption key for encryption or decryption of data. The sensor uses a software application which enables the user to input and store personal identifying information on the user sensor as an aspect of the SSID data broadcast, alternately a user may input said information on a remote server which interacts with the software application and communicates the user information when appropriately accessed.

21: 2021/03496. 22: 2021/05/24. 43: 2022/06/29
51: G01H; G10L; H04L
71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN, EDSON PINDZA
54: A WIFI AUTHENTICATION SENSOR USED TO REGULATE CRYPTO CURRENCY TRANSACTIONS
00: -
A wireless communication identification sensor for regulating crypto currency block chain transactions and access to files associated therewith comprising a wifi BSSID combined with programmable SSID data, wherein the BSSID in combination the programmable data is configurable to identify the sensor, which identification is required to access block chain files which have been encrypted. The encryption includes a recipient key comprising a component unique to their device, wherein the decryption is only possible using the device as part of the authentication process. The encryption key at least partially comprises the BSSID of their device used to access or create block chain regulated files. Accordingly, the sensor at least partially defines an encryption key for encryption or decryption of crypto currency block chain data.

21: 2021/03684. 22: 2021/05/28. 43: 2022/10/03
51: A61K; A61P; C07D
71: TAISHO PHARMACEUTICAL CO., LTD.
72: TAKASHIMA, HAJIME, MATSUDA, YOHEI, OGATA, YUYA, SASAMOTO, NAOKI, TSURUTA, RISA, USHIYAMA, FUMIHITO, UEKI, KAORI, TANAKA, NOZOMI
33: JP 31: 2018-218448 32: 2018-11-21
54: NOVEL IMIDAZOLE DERIVATIVE
00: -
The present invention provides a novel imidazole derivative or a pharmaceutically acceptable salt thereof. The novel imidazole derivative, which is represented by general formula [1] or [2], demonstrates, through a LpxC inhibition action, a strong anti-bacterial activity against gram-negative bacteria such as Pseudomonas aeruginosa, Escherichia coli, and Klebsiella pneumoniae, and drug-resistant strains thereof.



[1] [2]

21: 2021/04314. 22: 2021/06/23. 43: 2022/10/10
51: F02C
71: General Electric Company
72: CASTILLO CAMPOS, Jesus Daniel, SCHORNICK , Joe F., SANCHEZ HERRERA, Jose Carlos, GODINEZ, Horacio Solis
33: US 31: 16/936,982 32: 2020-07-23
54: METHOD TO CONDITION AND CONTROL SUPERCRITICAL LIQUIFIED PETROLEUM GASES FUEL FLOW FOR OPERATION IN GAS TURBINES
00: -
A fuel conditioning and control system (20) provides dynamic control and steady state operations of a gas turbine (300) provided fueled by supercritical liquefied petroleum gas (LPG). The fuel conditioning

and control system (20) comprises a storage for LPG fuel; a fuel delivery sub-system (100) connecting the storage to turbomachinery; and a control system (20). The gas turbine (300) includes a gas turbine core control (206) that provides at least one operational data of the gas turbine (300) to the control system (20). The fuel delivery sub-system (100) includes at least one sensor for sensing at least one property of the LPG fuel in the fuel delivery sub-system (100), where the at least one sensor providing data on the at least one property of the LPG fuel to the control system (20). The control system (20) analyzes the data on the at least one property of the LPG fuel and at least one operational data of the gas turbine (300) for dynamic control of LPG fuel to the gas turbine (300) under dynamic and steady state conditions

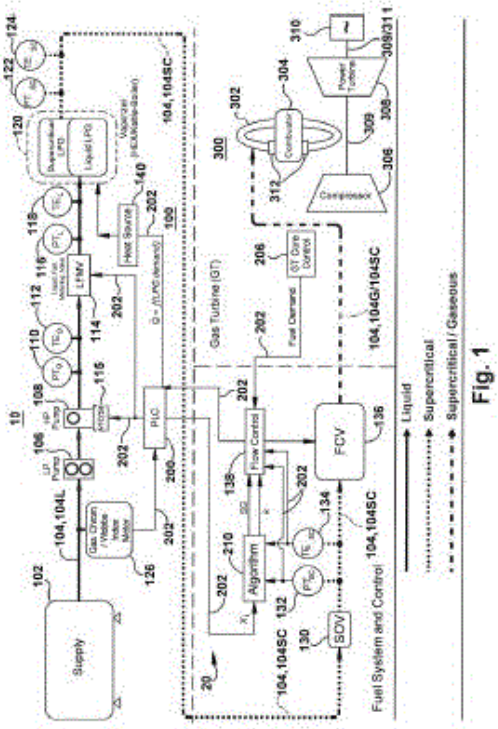
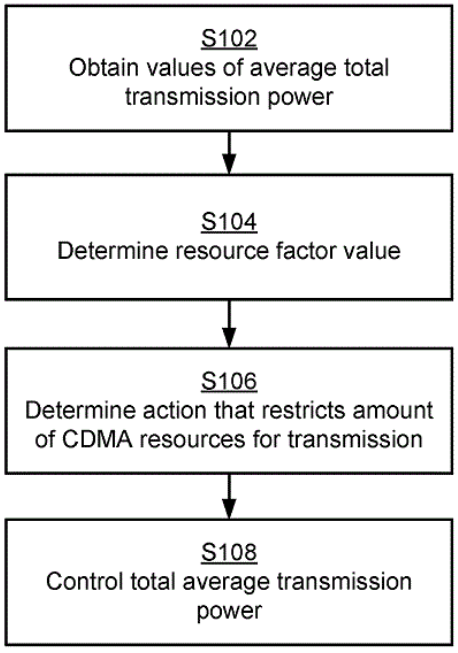


Fig. 1

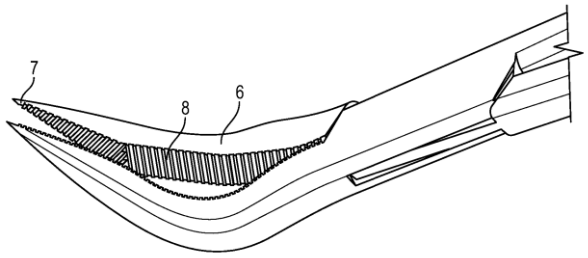
21: 2021/04320. 22: 2021/06/23. 43: 2022/10/03
51: H04W H04J
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: WIGREN, Torbjörn, HOGAN, Billy
54: TRANSMISSION POWER CONTROL FOR A RADIO BASE STATION
00: -

There is provided mechanisms for controlling total average transmission power of a radio base station over a fixed time period. A method is performed by a control device. The method comprises obtaining values of average total transmission power of at least one previous transmission from the radio base station. The method comprises determining a resource factor value from the value of average total transmission power and a set point value of the average total transmission power. The method comprises determining, based on the resource factor value, an action that restricts the amount of code-division multiple access (CDMA) resources to be used at least for a current transmission. The method comprises controlling the total average transmission power over the fixed time period by initiating the determined action at least for the current transmission.



21: 2021/04398. 22: 2021/06/25. 43: 2022/10/17
51: A61B
71: GARCIA, Annalyn
72: GARCIA, Annalyn
33: BE 31: 2018/5935 32: 2018-12-21
54: SURGICAL INSTRUMENT
00: -
The present disclosure relates to surgical instruments and, more particularly, to a surgical forceps configured for treating and/or cutting tissue.

The surgical forceps of the present invention is based on the so named 'mosquito forceps' and provides a new clamping configuration of the tip making it particularly useful for neuropathic skin surgery, such as in case of diabetes or other skin irregularities e.g. the callus or the like.

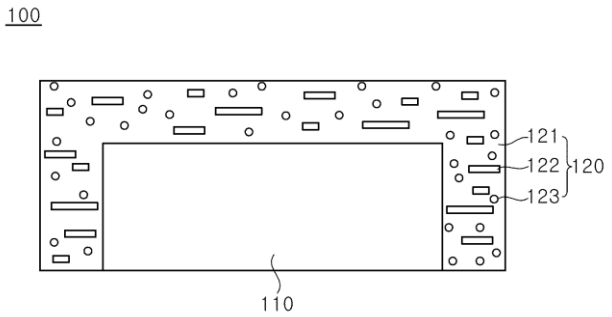


21: 2021/04718. 22: 2021/07/06. 43: 2022/11/21
51: A23L
71: Top Gum Industries Ltd
72: HYZKIHU, Amit
33: TR 31: 2020/19378 32: 2020-12-01
33: US 31: 63/034,430 32: 2020-06-04
33: IL 31: 272833 32: 2020-02-20
54: PLANT BASED READY TO CONSUME GEL PRODUCTS WITH NO ADDED SUGAR AND THEIR USE IN DELIVERY OF AGENTS
00: -
The present invention relates to ready to consume gel confectionary food products having no added sugar or any stereoisomers thereof or any sugar substitutes, including methods of their preparation.

21: 2021/04738. 22: 2021/07/07. 43: 2022/10/19
51: G01N
71: EVONIK OPERATIONS GMBH
72: PELZER, Stefan, FLÜGEL, Monika, HARK, Sarah, GOOSSENS, Evy, VAN IMMERSEEL, Filip, DUCATELLE, Richard, VAN MEULEBROEK, Lieven, VANHAECKE, Lynn
33: EP 31: 18212599.7 32: 2018-12-14
54: IN VITRO METHOD FOR DETECTING AVIAN INTESTINAL DYSBIOSIS
00: -
The invention pertains to an in vitro method for detecting avian intestinal dysbiosis, the method comprising determining the presence and/or level of isoleucyl-arginine ($C_{12}H_{25}O_3N_5$) or isomers thereof in avian sample material wherein the presence and/or an increased level of isoleucyl- arginine ($C_{12}H_{25}O_3N_5$) or isomers thereof in comparison to a non-affected control is indicative for avian intestinal dysbiosis.

21: 2021/05006. 22: 2018/11/16. 43: 2022/10/03
51: A61K
71: IO THERAPEUTICS, INC.
72: CHANDRARATNA, Roshantha, A., VULIGONDA, Vidyasagar, Pradeep, JACKS, Thomas, WADE, Peter, THOMPSON, Andrew
33: US 31: 62/588,163 32: 2017-11-17
33: US 31: 62/671,137 32: 2018-05-14
54: COMPOUNDS AND SYNTHETIC METHODS FOR THE PREPARATION OF RETINOID X RECEPTOR-SPECIFIC RETINOIDS
00: -
Provided herein are compounds useful for the preparation of compounds that have retinoid-like biological activity. Also provided herein are processes for the preparation of compounds that have retinoid-like biological activity.

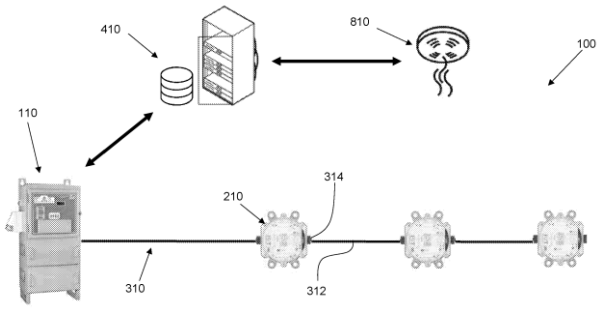
21: 2021/05147. 22: 2021/07/21. 43: 2022/11/02
51: H01L
71: Seoul Semiconductor Co., Ltd.
72: KIM, Myung Jin, OH, Kwang Yong
33: KR 31: 10-2019-0001181 32: 2019-01-04
54: LIGHT-EMITTING DIODE PACKAGE
00: -
The present embodiment relates to a light-emitting diode package. The light-emitting diode package according to the present embodiment included a light-emitting diode chip that emits light, and a light-transmitting member. The light-transmitting member covers at least the upper surface of the light-emitting diode chip and includes a light-transmissive resin and a reinforcing filler. The reinforcing filler has at least two sides having different lengths and is dispersed in the light-transmissive resin.



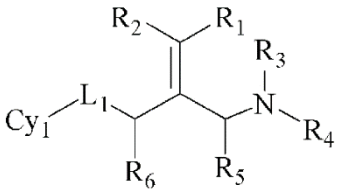
21: 2021/05229. 22: 2021/07/23. 43: 2022/08/22

51: A61K; C07D
71: THE ROSKAMP INSTITUTE
72: JIN, Chao, PARIS, Daniel, MULLAN, Michael
33: US 31: 62/795,549 32: 2019-01-22
33: US 31: 62/871,951 32: 2019-07-09
54: AMINO ACID DERIVATIVES FOR THE TREATMENT OF INFLAMMATORY DISEASES
00: -
The present disclosure provides certain amino acid derivatives that inhibit NF-kB activation and are therefore useful for the treatment of inflammatory diseases. Also provided are pharmaceutical compositions containing such compounds and processes for preparing such compounds.

21: 2021/05263. 22: 2021/07/26. 43: 2022/11/21
51: E21F; F21S; G08B
71: IOT AUTOMATION GLOBAL PTY LTD
72: PAINE, Robin, JAMES, Greg
54: A LIGHTING SYSTEM AND METHOD OF USE THEREOF
00: -
The present invention concerns a lighting system and method of use for use with an underground passageway. The lighting system includes a base station located at or near an end of the passageway, said base station including at least one power source. The system also includes a plurality of light modules extending from the base station in a serial arrangement and spaced at least partially along the length of the passageway. Each light module is capable of emitting light for ordinary operations within the passageway and at least one visual signal. The system further includes at least one cable extending from the base station and interconnecting the light modules with the base station and the power source. Lastly, the system includes a controller operatively associated with the base station, said controller being in communication with at least one sensor configured to sense an environmental condition, said controller configured to continuously monitor said sensor and activate the at least one visual signal when an abnormal or emergency environmental condition is detected.



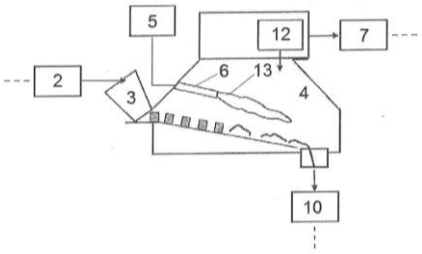
21: 2021/05752. 22: 2021/08/04. 43: 2022/10/03
51: C07D A61K A61P
71: TRANSTHERA SCIENCES (NANJING), INC.
72: WAN, Zhonghui, LI, Lin, WU, Frank
33: CN 31: 201910025251.8 32: 11-01-2019
33: CN 31: 201910196383.7 32: 15-03-2019
33: CN 31: 201910434159.7 32: 23-05-2019
33: CN 31: 201910914387.4 32: 24-09-2019
33: CN 31: 201911026383.9 32: 26-10-2019
54: HALOALLYLAMINE COMPOUNDS AND APPLICATION THEREOF
00: -
The present invention relates to the technical field of medicine. Specifically, the present invention relates to haloallylamine compounds as represented by formula (I) or pharmaceutically acceptable salts, esters, stereoisomers and tautomers thereof, and pharmaceutical preparations and pharmaceutical compositions containing these compounds, as well as their application in preventing and/or treating diseases related to or mediated by SSAO/VAP-1 protein, wherein R_1, R_2, R_3, R_4, R_5, R_6, L_1, and Cy_1 are defined in the specification.



I

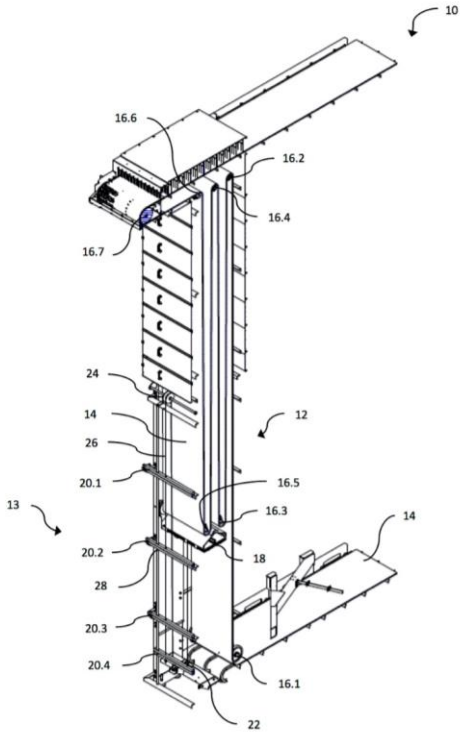
21: 2021/06155. 22: 2021/08/25. 43: 2022/10/03
51: F23G; H01J
71: ININ S.R.O.
72: DANYLENKO, Anton, FISENKO, Petro, SLAVIK, Zbynek
33: EP 31: 19153643.2 32: 2019-01-25
54: GASIFICATION DEVICE AND PLASMA SHUTTER WITH A MICROWAVE PLAZMA SLOWING SYSTEM OF THE GASIFICATION DEVICE
00: -

Microwave plazma slowing system (15) for a plasma shutter (6) comprises a waveguide- band transmission (18) for interconnection of the system with a generator (5), and for letting waves from the generator (5) into the plasma shutter (6), a bridge band (17) interconnected with the waveguide-band transmission (16), two parallel band waistlines (18), interconnected by its one end with the bridge band (17), where the band waistlines (18) are flat plates, where one of its sides is provided with tenons (19) arranged side by side along the axis of the band waistlines (18) with orientation in a such way, that the tenons (19) arranged on the one side of the first band waistline 18 are placed in turns between the tenons (19) arranged on the one side of the second band waistline (18), where the band waistlines (18) are provided at the other end by mutually separated lockable electromagnetic oscillators (20), where the position of the lockable electromagnetic oscillators (20) defines an exact point of reflection of a waves to perform its maximal amplitude by count up of a direct and a reflected waves, the band waistlines (18) are broadened in the direction from the waveguide-band transmission (18) and narrowed before the lockable electromagnetic oscillators (20), and intended for leading the direct waves Y from the bridge band (17) to the lockable electromagnetic oscillators (20), the tenons (19) are mutually separated in distance λB/2, where λB is a longitude of the wave at the exit of the waveguide-band (transmission 18), and positioned in a path of the reflected waves Z, which is leading from the lockable electromagnetic oscillator (20) to the bridge band (17), the bridge band (17) attends to split a coming wave to two identical waves shifted by 180°, where each one of the waves spreads on a different band waistline (18).



21: 2021/06176. 22: 2021/08/26. 43: 2022/10/03
51: B65G
71: Dale Holdings (Pty) Ltd
72: DALE, Christopher, SWEETING, Adam, KRIEL, Francois
33: ZA 31: 2020/05096 32: 2020-08-18
54: CONVEYOR BELT TENSIONING
00: -

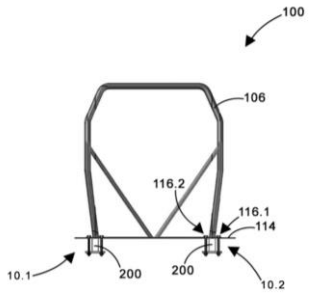
The invention is for a belt tensioning system, which includes a vertical take-up arrangement through which a conveyor belt is capable of being directed in use, a plurality of rollers forming part of the vertical take-up arrangement, the plurality of rollers arranged to direct the conveyor bel in a catenary-shaped sling and an incremental tensioning arrangement, operable to exert a lower tension on the conveyor belt when the conveyor belt in the vertical take-up arrangement is longer and to exert a high tension on the conveyor belt when the conveyor belt in the vertical take-up arrangement is contracted. The incremental tensioning arrangement includes a weight carriage operable to engage with a weight addition system in order to add and remove weighs from the weight carriage, depending on the directional movement thereof and accordingly providing for the exerted lower tension and higher tension on the conveyor belt.



21: 2021/06497. 22: 2021/09/06. 43: 2022/10/03
51: B60J; B60R
71: HAUMAN, Pierre
72: HAUMAN, Pierre
33: ZA 31: 2020/03396 32: 2020-06-08
54: ROLLOVER PROTECTION
00: -

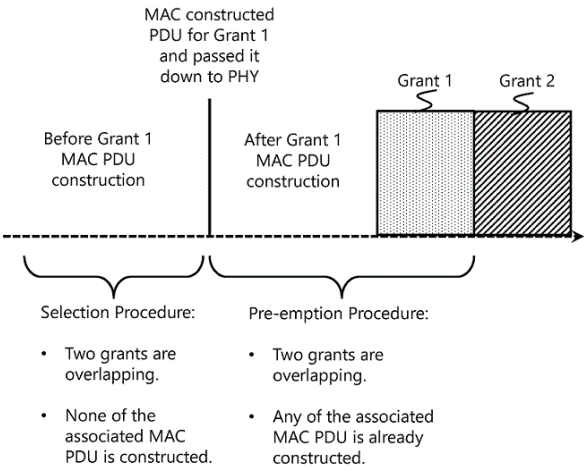
The invention is for a mount for a protective structure for a vehicle, which includes a chassis mount,

shaped and dimensioned to mount the protective structure to a chassis frame of the vehicle, such that upon the vehicle turning over or rolling, pressure placed on the protective structure is transferred to the chassis frame via the chassis mount. The protective structure includes a frame structure and a plurality of base plates located at a base of the frame through which the protective structure is attachable to the vehicle. Furthermore, the chassis mount is either attachable, through means of a clamping device, or integrated with the protective structure. The protective structure may be in the form of any one or more of: a roll bar, a roll hoop, a roll cage, an exo cage, a rollover protection structure, a bull bar/push bumper or the like.



21: 2021/06607. 22: 2021/09/08. 43: 2022/10/03
51: B29B; B29C
71: VIVE TEXTILE RECYCLING SPÓŁKA Z O.O.
72: SERVAAS, Bertus Jan
33: PL 31: P.429361 32: 2019-03-22
54: PROCESS FOR THE PRODUCTION OF A COMPOSITE MATERIAL FROM TEXTILE WASTE AND POLYETHYLENE FILM WASTE
00: -
The invention relates to a process for the production of a composite material from textile waste and polyethylene film waste, characterized in that it comprises the following steps: a) comminuting the textile waste into the fraction up to 15 mm in size, b) comminuting the polyethylene film into the fraction up to 15 mm in size, c) separating metal parts from the comminuted textiles, d) separating metal parts and unwanted plastics from the comminuted film, e) further comminuting the textiles into the fraction up to 5 mm in size, f) mixing the comminuted textiles with the comminuted film, said textiles constituting 10-50% of the mixture, g) plasticizing, homogenizing and extruding the obtained mixture in an extruder at the temperature of 170-240oC and under the pressure of 8-15 MPa.

21: 2021/06759. 22: 2021/09/13. 43: 2022/10/19
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: ALABBASI, Abdulrahman, DUDDA, Torsten, ZOU, Zhenhua, ENBUSKE, Henrik, PRADAS, Jose Luis
33: US 31: 62/805,906 32: 2019-02-14
54: MULTIPLE GRANT HANDLING IN MIXED SERVICES SCENARIOS
00: -
According to certain embodiments, a method performed by a wireless device comprises receiving a first grant and a second grant from a network node. The first grant and the second grant are overlapping. The method comprises determining a prioritized one of the first grant and the second grant and constructing a Medium Access Control (MAC) Protocol Description Unit (PDU) for the prioritized grant of the first grant and the second grant. According to certain embodiments, a method performed by a network node comprises transmitting a first grant and a second grant to a wireless device. The first grant and the second grant are overlapping. The method comprises receiving a transmission from the wireless device on a prioritized one of the first grant and the second grant.



21: 2021/06763. 22: 2021/09/13. 43: 2022/10/19
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: YANG, Yong, XU, Juan
33: CN 31: PCT/CN2019/075050 32: 2019-02-14
54: AN ENHANCED UP FUNCTION REQUESTED PFCP ASSOCIATION RELEASE
00: -
Embodiments of a method performed in a User Plane Entity (UPE) in a core network to perform a user plane initiated Packet Forwarding Control Protocol (PFCP) association release procedure are provided. In some embodiments, the method comprises, for each affected PFCP session, sending, to a Control Plane Entity (CPE), a PFCP session report request comprising an indicator that the PFCP session is being removed and one or more usage reports for the PFCP session, and deleting the PFCP session. The method further comprises sending, to the CPE, a PFCP association update request comprising information that indicates that the PFCP association update request is to initiate release of the PFCP association and an indicator that all non-zero usage reports for the affected PFCP session(s) have been reported. The method further comprises receiving, from the CPE, a PFCP association release request and sending, to the CPE, a PFCP association release response.

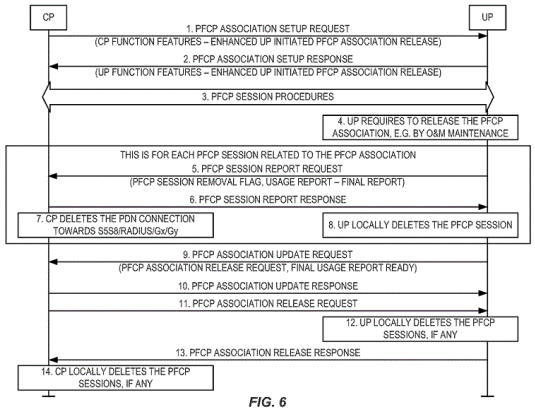
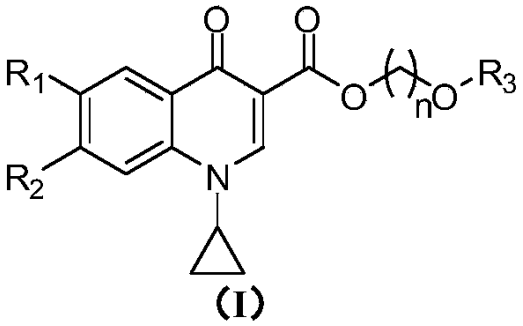


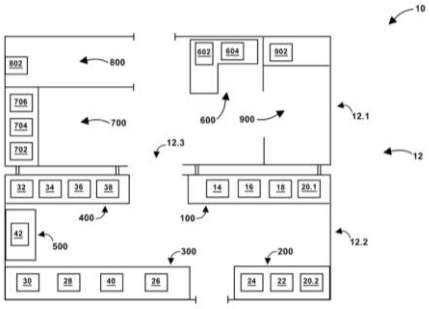
FIG. 6

21: 2021/06803. 22: 2021/09/14. 43: 2022/11/21
51: A01N; C07D; A01P
71: SHANDONG UNITED PESTICIDE INDUSTRY CO., LTD.
72: XU, Hui, TANG, Jianfeng, CHI, Huiwei, WU, Jianting, HAN, Jun, LIU, Ying, ZHAO, Baoxiu, ZHANG, Zhenguo
33: CN 31: 201910273279.3 32: 2019-04-04
33: CN 31: 201910512103.9 32: 2019-06-13
54: QUINOLINE CARBOXYLIC ACID ESTER COMPOUND AND PREPARATION METHOD AND USE THEREOF
00: -
A quinoline carboxylic acid ester compound shown in formula (I). The compound of formula (I) shows activity for a variety of bacteria in field of agriculture. Moreover, because the compounds have biological activity, the compounds can be used for preparing a bactericide in field of agriculture.



(I)

21: 2021/06865. 22: 2021/09/17. 43: 2022/10/03
51: A47B; B01L; E04H; G01N
71: BOTES, Elsabe
72: BOTES, Elsabe, DE SMIDT, Olga, LE ROUX, Francois Pieter
33: ZA 31: 2020/05300 32: 2020-08-26
54: WATER TESTING
00: -
The invention relates to a self-contained water testing laboratory which includes a structure, a plurality of water testing apparatus installed and arranged in the structure to a predetermined workflow design, the plurality of water testing apparatus including a combination of one or more of: a reference thermometer, an autoclave, a free chlorine photometer, at least one testing thermometer, at least one micropipette, a refrigerator, an incubator, a sealer, a mixer, an ultraviolet light, a colony counter, a balance, a turbidimeter, a pH/conductivity meter and a stirrer and wherein the self-contained water testing laboratory is operable to perform a selection of water quality tests including at least: a pH test, an electrical conductivity test, a turbidity test and at least one bacterial test with the at least one bacterial test that may include a bacterial presence/absence test, bacterial count test, or the like.



21: 2021/06986. 22: 2021/09/20. 43: 2022/10/19
51: E01C E03F F16L
71: ACO SEVERIN AHLMANN GMBH & CO. KG
72: MEINCKE, Arne, WANDKOWSKI, Marco, MÜLLER-BAKU, Sascha
33: EP 31: PCT/EP2019/054379 32: 21-02-2019
33: EP 31: PCT/EP2019/054383 32: 21-02-2019
54: DRAINAGE SYSTEM, DRAINAGE UNITS, AND METHODS
00: -
Disclosed is a drainage system (1) comprising: at least one water receiving unit (20) having: a water receptacle (22) for receiving water from an adjoining surface; a first neck piece (24) which can be connected to the water receptacle (22) and provided such that water can flow out of the water receiving unit (20) through an opening (26) of the first neck piece (24); and at least one water drainage unit (40) for draining the water, comprising: a pipe body (42); and a first opening (46b), provided on the pipe body (42), for receiving the water in said pipe body (42); wherein: the water drainage unit (40) can be provided and oriented under the surface such that the opening (26) of the first neck piece (24) and the first opening (46b) of the pipe body (42) can be connected and the water flowing out of the water receiving unit (20) can flow into the water drainage unit (40). Also disclosed are drainage units and methods.

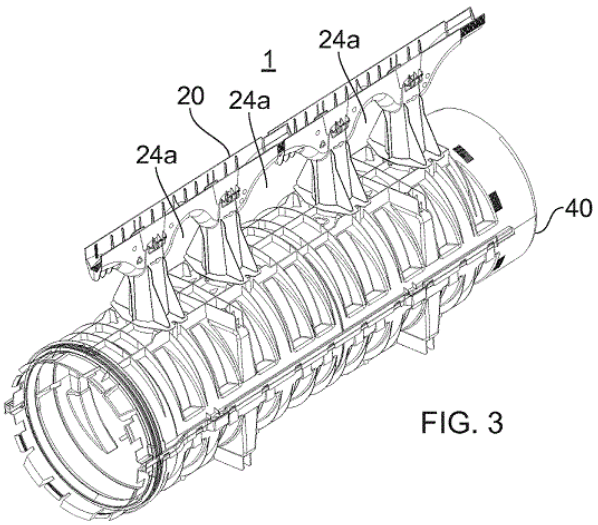


FIG. 3

21: 2021/07075. 22: 2021/09/22. 43: 2022/10/19
51: H04W
71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
72: YAMAMOTO, Tetsuya, SUZUKI, Hidetoshi, NISHIO, Akihiko, HORIUCHI, Ayako
33: JP 31: 2019-061490 32: 2019-03-27
54: TERMINAL AND TRANSMISSION METHOD
00: -
Provided is a terminal that makes it possible to improve the efficiency of random access processing. A control unit (209) in the terminal (200) uses channel quality as a basis to select either a first method for transmitting a random access signal including a preamble section and a data section or a second method for transmitting a random access signal that includes a preamble section and that does not include a data section. A transmission unit (217) transmits a random access signal on the basis of the selected method.

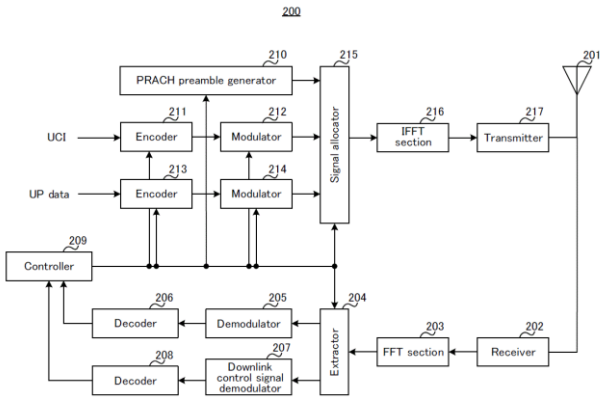


FIG. 5

21: 2021/07076. 22: 2021/09/22. 43: 2022/10/19
51: H04W
71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
72: YAMAMOTO, Tetsuya, NISHIO, Akihiko, SUZUKI, Hidetoshi, LI, Yihui
33: JP 31: 2019-061499 32: 2019-03-27
54: TERMINAL AND TRANSMISSION METHOD
00: -
This terminal improves the efficiency of random access processes. In a terminal (200), a control unit (209) determines, on the basis of parameters respectively set for each of a plurality of terminals, the resource to use to transmit a response signal to a downlink signal for the plurality of terminals, and a transmission unit (218) transmits the response signal using the resource.

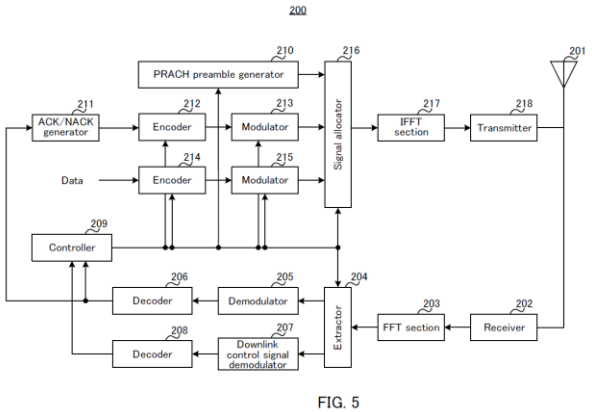


FIG. 5

21: 2021/07214. 22: 2021/09/27. 43: 2022/10/03
51: C07K; G01N
71: PROTHENA BIOSCIENCES LIMITED
72: NIJJAR, Tarlochan, S., BARBOUR, Robin, DOLAN, Philip, James, III, LIU, Yue, ALEXANDER, Svetlana, RENZ, Mark, E.
33: US 31: 62/813,126 32: 2019-03-03
33: US 31: 62/813,137 32: 2019-03-03
33: US 31: 62/838,159 32: 2019-04-24
54: ANTIBODIES RECOGNIZING TAU
00: -
The invention provides antibodies that specifically bind tau. The antibodies inhibit or delay tau-associated pathologies and associated symptomatic deterioration.

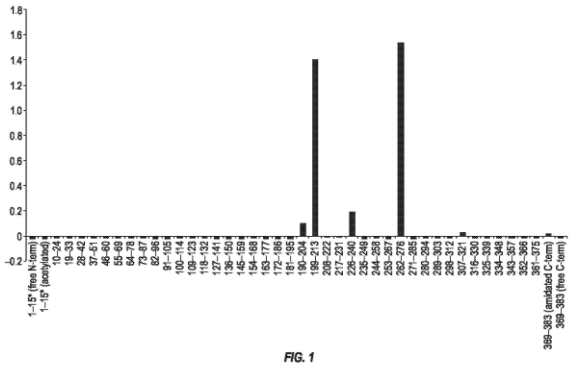


FIG. 1

21: 2021/07268. 22: 2021/09/28. 43: 2022/10/03
51: F21V; G09F
71: Goal Post Marketing (Pty) Ltd
72: HERBST, Andries Johannes, MOOLMAN, Ivan, VILJOEN, Carlõ
33: ZA 31: 2020/03969 32: 2020-06-30
54: ADVERTISING DISPLAY ARRANGEMENT
00: -
The invention relates to an advertising display arrangement for use at sport stadiums, which includes at least one information display installed on a scoring structure, and trigger means, triggerable when points are scored via the scoring structure, the trigger means being in communication with the at least one information display, upon being triggered, the trigger means is operable to activate the at least one information display. The information display may be in the form of a data display, video screens, full-colour video screens or LED video screens. The information display may further be in the form of a 3-dimensional display such as a hologram. The scoring structure may be in the form of a structure having a portion for receiving a ball, puck or the like there through in order to score points in a specific sport.

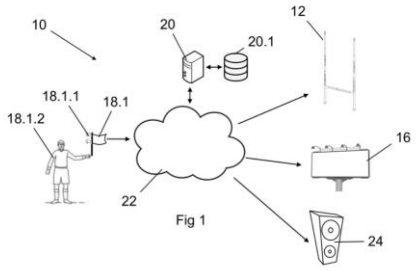
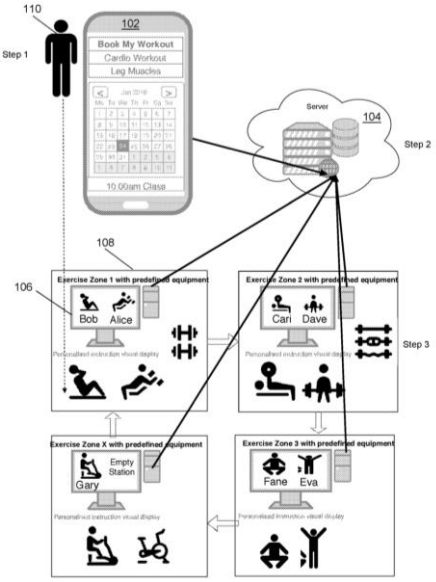


Fig 1

21: 2021/07302. 22: 2021/09/28. 43: 2022/10/03
51: A63B; G16H
71: FITBEAT AUSTRALIA PTY LTD
72: KUNITZ, Michael Vernon
33: AU 31: 2019900855 32: 2019-03-15
54: SYSTEMS AND METHODS FOR DELIVERING A PERSONALISED DOSE OF EXERCISE
00: -
Embodiments of the present disclosure provides a system for delivery of a personalised dose of exercise to subjects, comprising a computing device configured to obtain information pertaining to the subjects. The system further includes a fitness program determining device configured to: store information about the subjects; determine a personalised dose of exercise for a subject based on the information of the subject; and schedule the personalised dose of exercise to one or more exercise zones and points in time in a physical gym. The system furthermore includes an instruction device for providing personalised instructions to the subject based on the personalised dose of exercise at the points in time. The personalised instructions includes instructions for performing activities in the exercise zones, an order in which the activities to be performed in the exercise zones, and a workout sequence and a timing in which the exercise zones are to be completed.



21: 2021/07515. 22: 2021/10/06. 43: 2022/10/19
51: A61K A61P C07K
71: SUZHOU CONNECT BIOPHARMACEUTICALS, LTD.
72: ZHENG, Wei, PAN, Wubin, YANG, Xin, ZHANG, Limin, JIANG, Jie
33: CN 31: 201910187179.9 32: 2019-03-13
54: LIQUID COMPOSITION COMPRISING ANTIBODY OF HUMAN INTERLEUKIN-4 RECEPTOR ALPHA
00: -
The present invention provides a liquid composition comprising an antibody of human interleukin-4 receptor alpha. The liquid composition comprises the antibody at a concentration of 50-200 mg/ml; and a buffer, a protectant, and a surfactant as adjuvants. The liquid composition has a pH of 5.4-6.4.

21: 2021/07582. 22: 2021/10/08. 43: 2022/10/19
51: A41D B63C F41H
71: SHARK STOP AUSTRALIA PTY LTD
72: BURFORD, Haydon
33: AU 31: 2019901237 32: 2019-04-10
54: SHARK RESISTANT COMPOSITE FABRIC
00: -
The present invention discloses a shark resistant composite fabric that has an outer layer of a woven or knitted shark bite resistant fabric material; an intermediate layer neoprene. An inner layer of a woven or knitted shark bite resistant fabric material may also be provided.

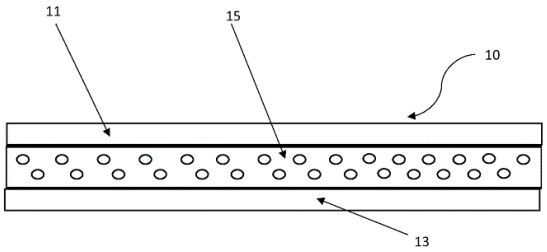
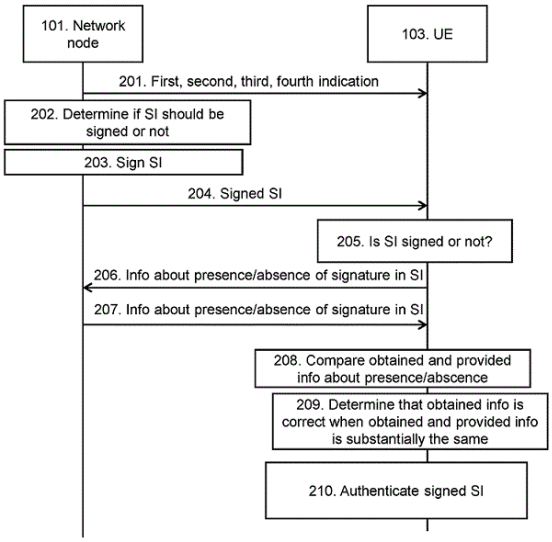


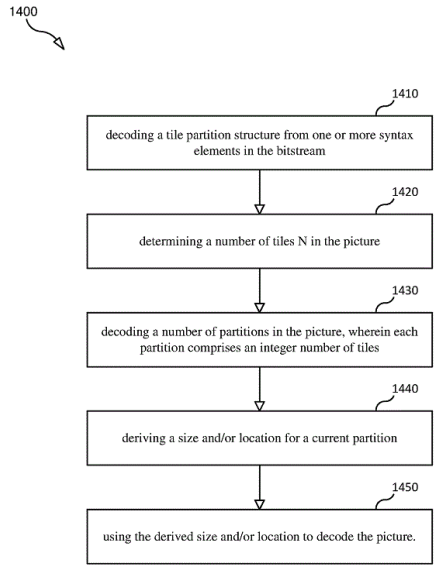
Figure 1

21: 2021/07587. 22: 2021/10/08. 43: 2022/10/03
51: A61K; A61P
71: JOINT STOCK COMPANY "BIOCAD"
72: CHERNIAEVA, Ekaterina Valerevna, LOMKOVA, Ekaterina Aleksandrovna, ARTEMEVA, Antonina Vasilevna, EREMEEVA, Anna Viktorovna, IVANOV, Roman Alekseevich, RYAKHOVSKAYA, Anastasiya Mikhajlovna, SHITIKOVA, Viktoriia Olegovna, IAKOVLEV, Aleksandr Olegovich, MOROZOV, Dmitry Valentinovich
33: RU 31: 2019109641 32: 2019-04-02
54: AQUEOUS PHARMACEUTICAL COMPOSITIONS OF AN ANTI-IL17A ANTIBODY AND USE THEREOF
00: -
The present disclosure relates to aqueous compositions for anti-IL17a antibodies, and more particularly to aqueous compositions for anti-IL17a antibodies with a VHH variable domain and a VL variable domain, and can be used as a medicinal agent for treating IL-17A-mediated diseases.

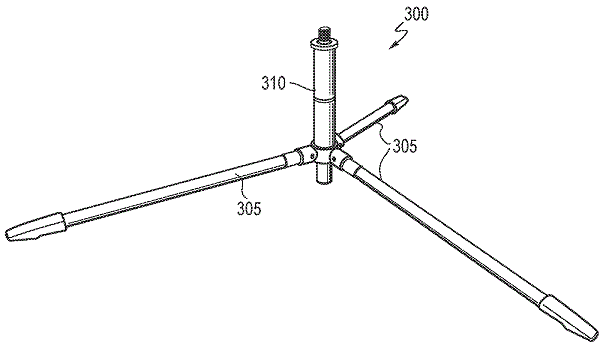
21: 2021/07650. 22: 2021/10/11. 43: 2022/10/19
51: H04W H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: OHLSSON, Oscar, BERGQVIST, Jens, NAKARMI, Prajwol, Kumar
33: US 31: 62/816,940 32: 2019-03-12
54: METHOD AND NODES FOR HANDLING SYSTEM INFORMATION
00: -
The present disclosure relates to a method performed by a UE (103) for handling signing of system information (SI). The UE (103) obtains, from a network node (101), a first indication which indicates that a first network (100a) is adapted to sign the SI. The signed SI is signed by the first network (100a) using a signature.



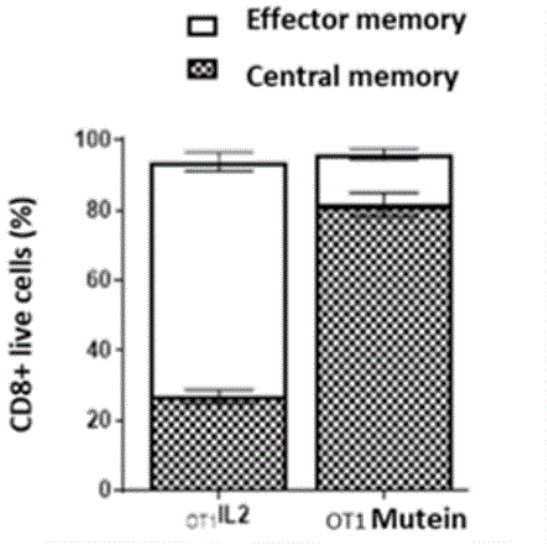
21: 2021/07651. 22: 2021/10/11. 43: 2022/10/19
51: H04N
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: SJÖBERG, Rickard, DAMGHANIAN, Mitra, PETTERSSON, Martin, STRÖM, Jacob
33: US 31: 62/816.563 32: 2019-03-11
54: VIDEO CODING COMPRISING RECTANGULAR TILE GROUP SIGNALING
00: -
A method for decoding a picture from a bitstream. The method includes decoding a tile partition structure from one or more syntax elements in the bitstream. The method includes determining a number of tiles N in the picture. The method includes decoding a number of partitions in the picture, wherein each partition comprises an integer number of tiles. The method includes deriving a size and/or location for a current partition, wherein deriving the size and/or location for the current partition comprises: decoding one or more location syntax elements for the current partition from the bitstream, deriving a top-left position of the current partition as a location of a first tile in raster scan order that is not included in one or more previously derived partition, and deriving the size and/or the location of the current partition from a value of the one or more location syntax element together with a size and/or location of the one or more previously derived partition. The method includes using the derived size and/or location to decode the picture.



21: 2021/07652. 22: 2021/10/11. 43: 2022/10/19
51: F41A F16M
71: SHELTERED WINGS, INC.
72: COLLINS, Alec, HAMILTON, David, M.
33: US 31: 62/817,876 32: 2019-03-13
54: COLUMN AND LEG LOCKING ASSEMBLIES FOR STATIONARY PLATFORMS
00: -
The disclosure relates to locking assemblies. In one embodiment, the disclosure relates to locking assemblies for a center column of a stationary platform. In another embodiment, the disclosure relates to locking assemblies for legs of a stationary platform.



21: 2021/07758. 22: 2021/10/13. 43: 2022/10/10
51: C12N A61K C07K
71: CENTRO DE INMUNOLOGIA MOLECULAR, LUDWIG INSTITUTE FOR CANCER RESEARCH LTD, CENTRE HOSPITALIER UNIVERSITAIRE VAUDOIS, UNIVERSITY OF LAUSANNE
72: LEÓN MONZÓN, Kalet, MONTALVO BEREAU, Galia Magela, COUKOS, George, IRVING, Melita, CRIBIOLI. Elisabetta, ORTIZ MIRANDA, Yaquelin, CORRIA OSORIO, Ángel de Jesús
33: CU 31: 2019-0021 32: 2019-03-15
54: METHOD FOR THE EXPANSION AND DIFFERENTIATION OF T LYMPHOCYTES AND NK CELLS IN ADOPTIVE TRANSFER THERAPIES
00: -
The present invention describes a method for obtaining T lymphocytes and NK cells with the desired phenotype in adoptive cell transfer for cancer therapy. In particular, it is based on strategies for inducing preferential signalling using intermediate-affinity IL-2 receptor, thereby enabling the expansion of cells with the desired central-memory phenotype. The method of the invention is useful for obtaining tumour-infiltrating lymphocytes, T-cell receptors (TCR) or engineered chimeric T-cell receptors used in cancer treatment.



21: 2021/07771. 22: 2021/10/13. 43: 2022/11/21
51: C02F; C25C
71: ENGINEROOM INFRASTRUCTURE CONSULTING PTY LTD
72: THOMPSON BREWSTER, Emma

33: AU 31: 2019900984 32: 2019-03-25
54: A PROCESS AND APPARATUS FOR ACID MINE DRAINAGE TREATMENT
00: -
An apparatus for the treatment of acid mine drainage and selective recovery of at least one of metals, critical elements, sulphuric acid and water is disclosed. The apparatus includes at least one electrochemical reactor, at least one catholyte reservoir and at least one anolyte reservoir for containing the acid mine drainage and a buffer, respectively. The reservoirs are in fluid communication with the at least one electrochemical reactor. The apparatus also includes at least one sensor for monitoring a pH of a contents of the reactor; and a power source for supplying an electrical current to the at least one electrochemical reactor. The electrical current is supplied until a predetermined pH is reached for the selective recovery of the at least one of metals, critical elements, sulphuric acid and water. A process for the treatment of acid mine drainage is also disclosed.

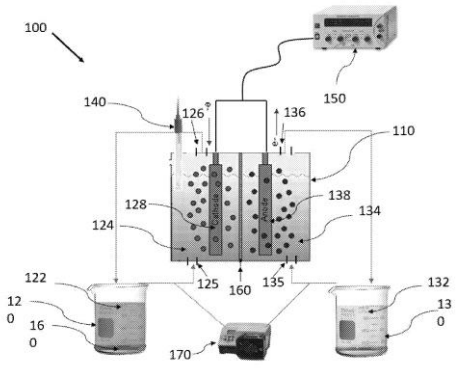
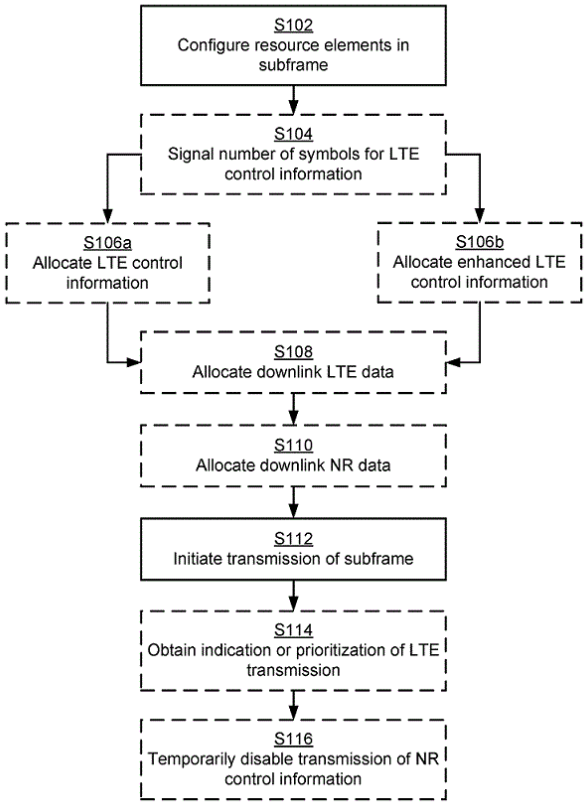


FIGURE 1

21: 2021/07919. 22: 2021/10/18. 43: 2022/10/19
51: H04L H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: HUSS, Fredrik, HEISER, Franz, BOUDREAU, Gary, WILLIAMS, Luke, BALDEMAIR, Robert
54: TRANSMISSION OF NR CONTROL INFORMATION IN AN LTE DOWNLINK SUBFRAME
00: -
There is provided mechanisms for transmission of NR control information in an LTE downlink subframe. At least two symbols in the subframe are allocatable for LTE control information. A method is performed by a network node. The method comprises configuring resource elements for LTE transmission and resource elements for NR transmission within the subframe such that NR control information is allocated to resource elements of at least one symbol within the at least two symbols allocatable for the LTE control information in the subframe. The method comprises initiating transmission of the subframe from co-sited antennas, such that the resource elements for LTE transmission and the resource elements for NR transmission are transmitted from the co-sited antennas.

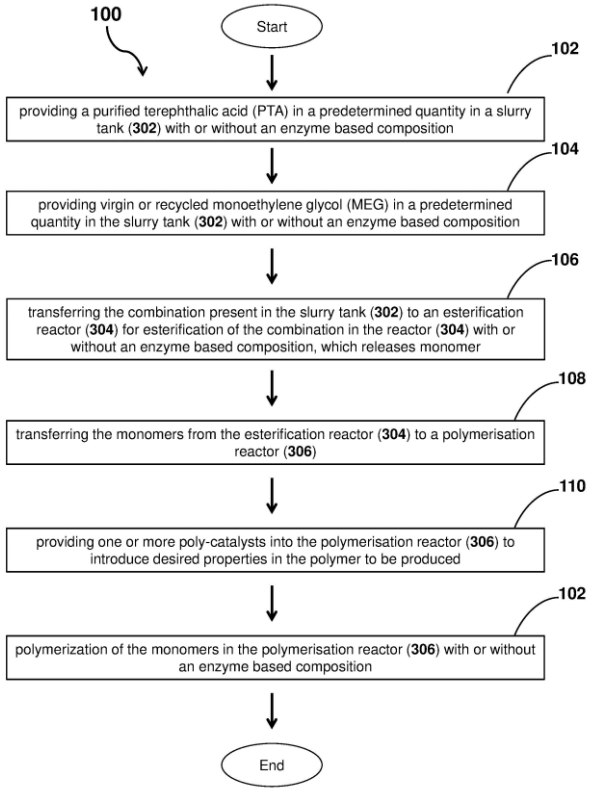


21: 2021/07996. 22: 2021/10/19. 43: 2022/10/10
51: C08L
71: CHATURVEDI, Ashok
72: CHATURVEDI, Ashok
33: IN 31: 201911010930 32: 2019-03-20

54: PROCESS OF MANUFACTURING BIODEGRADABLE PET CHIPS

00: -

The present invention describes a process of manufacturing biodegradable PET chips, comprising the steps of providing a purified terephthalic acid (PTA) in a predetermined quantity in a slurry tank; providing virgin monoethylene glycol (MEG) in a predetermined quantity in the slurry tank; transferring the combination of the slurry tank to an esterification reactor for esterification of the combination in the reactor at above 250°C temperature which releases monomers; transferring the monomers from the esterification reactor to a polymerisation reactor; providing poly-catalysts such as, but not limited, to Ti-based catalyst, sb2O3 or any other suitable catalysts or combination thereof into the polymerisation reactor; and polymerization of the monomers in the polymerisation reactor at above 280°C temperature, wherein an enzyme based composition is provided either at PTA / MEG stage or poly-catalyst stage or at other stages or combination thereof.



21: 2021/08027. 22: 2021/10/20. 43: 2022/10/19

51: A61K A61P C12N

71: ALTEOGEN INC.

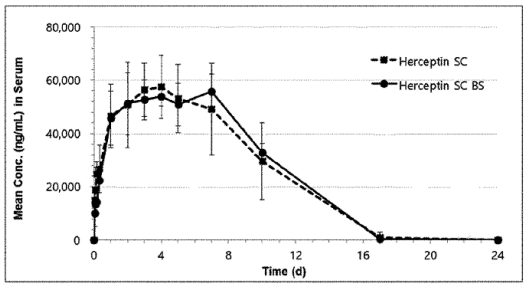
72: PARK, Soon Jae, CHUNG, Hye-Shin, LEE, Seung Joo, KIM, Kyuwan, BYUN, Minsoo, NAM, Ki Seok

33: KR 31: 10-2019-0033880 32: 2019-03-25

54: PHARMACEUTICAL COMPOSITION FOR SUBCUTANEOUS INJECTION COMPRISING HUMAN HYALURONIDASE PH20 VARIANT AND DRUG

00: -

The present invention relates to a pharmaceutical composition comprising (a) a drug and (b) a human PH20 variant. The human PH20 variant contained in the pharmaceutical composition according to the present invention includes an amino acid substitution at one or more positions selected from the alpha helix 8 sequence (S347-C381) and a linkage region (A333-R346) between alpha helix 7 and alpha helix 8 on the wild-type human pH20 having the amino acid sequence of SEQ IS NO: 1, and is optionally cleaved at an amino acid positioned at the N-terminal or C-terminal region. In addition, the pharmaceutical composition according to the present invention may further comprise a pharmaceutically acceptable additive, particularly, a stabilizer. Due to the advantage of the human PH20 variant, the pharmaceutical composition according to the present invention can exhibit a maximum therapeutic effect of the drug used together therewith.



21: 2021/08444. 22: 2021/10/29. 43: 2022/10/10

51: A61K; A61Q; C01F

71: The Regents of the University of California

72: KATZ, Alexander, MISHRA, Manish

33: US 31: 62/837,657 32: 2019-04-23

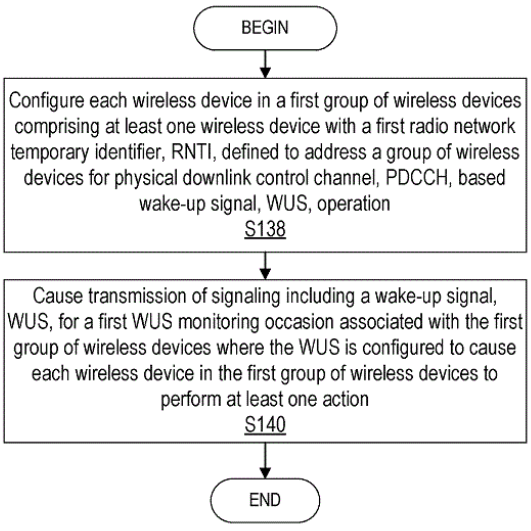
54: CERIUM (III) CARBONATE FORMULATIONS

00: -

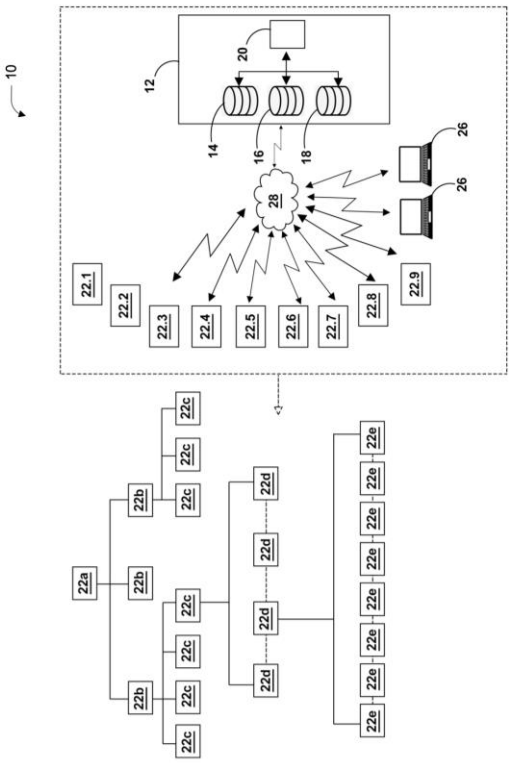
The disclosure provides, inter alia, formulations comprising cerium (III) carbonate, and processes for

producing cerium (III) carbonate. In embodiments, the disclosure provides methods for passivating photodegradation of organic compounds using cerium (III) carbonate.

21: 2021/08524. 22: 2021/11/02. 43: 2022/10/19
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: MALEKI, Sina, NADER, Ali, REIAL, Andres, NIMBALKER, Ajit, SUI, Yutao, ANDGART, Niklas
33: US 31: 62/828,126 32: 2019-04-02
54: METHODS FOR PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) BASED WAKE UP SIGNAL (WUS) CONFIGURATION
00: -
According to one aspect of the disclosure, a network node (16) is provided. The network node is configured to configure each wireless device (22) in a first group of wireless devices (22) comprising at least one wireless device (22) with a first radio network temporary identifier, RNTI, defined to address a group of wireless devices for physical downlink control channel, PDCCH, based wake-up signal, WUS, operation, and cause transmission of signaling including a wake-up signal, WUS, for a first WUS monitoring occasion associated with the first group of wireless devices (22), where the WUS is configured to cause each wireless device (22) in the first group of wireless devices to perform at least one action.

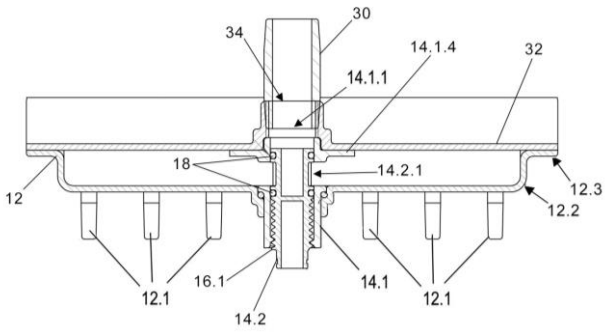


21: 2021/09078. 22: 2021/11/15. 43: 2022/10/03
51: G06Q
71: Leah & Levi Financial Services (Pty) Ltd
72: DAVIDS, Jabeer Mohammed, NAICKER, Kiruben, PILLAY, Nivaini
33: ZA 31: 2020/04996 32: 2020-08-13
54: MARKETING FACILITATION
00: -
The invention is a marketing facilitation system, which includes a central server hosting databases of services, a plurality of remote mobile devices each loaded with the marketing facilitation application programming interface (API) which, when executed is operable to interface with the central server to exchange data with the hosted databases and a processor operable to conclude an online transaction between clients and providers of the services stored on the central server databases respectively. The databases of services include services to be provided, agents offering services to the market and clients for the services to be offered. Furthermore, the invention extends to a method of facilitating marketing.

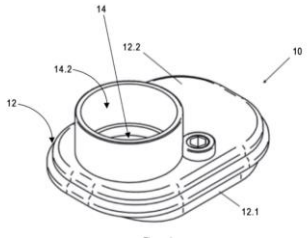


21: 2021/09287. 22: 2021/11/19. 43: 2022/10/03
51: F15D
71: VAN BUUREN, Eugene

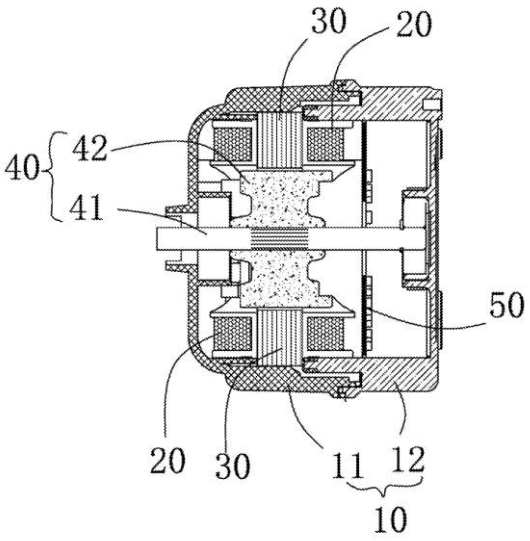
72: VAN BUUREN, Eugene
33: ZA 31: 2020/05202 32: 2020-08-21
54: FLUID DISTRIBUTION DEVICE
00: -
The invention is for a fluid distribution device, which includes a body defining a fluid inlet which is sealingly connectable to a fluid outlet from a large diameter pipe, being either an an opening in the large diameter pipe or a spout extending from the large diameter pipe, a fluid chamber in fluid communication with the fluid inlet mouth and a plurality of fluid distribution outlets extending from the fluid chamber. The fluid chamber defines a cavity between the fluid inlet mouth and the plurality of fluid distribution outlets. Furthermore, the fluid distribution device includes a valve operable to control fluid flow from the fluid inlet mouth into the fluid chamber.



21: 2021/09288. 22: 2021/11/19. 43: 2022/10/03
51: F16K; F16L
71: VAN BUUREN, Eugene
72: VAN BUUREN, Eugene
33: ZA 31: 2020/05203 32: 2020-08-21
54: AIR SADDLE
00: -
The invention is an air saddle, which includes a body having an inlet on a first side thereof, an outlet on an opposed side of the body and a channel between-, and in fluid communication with the inlet and the outlet, a shoulder on the first side of the body shaped and dimensioned to match an outer diameter of a supply; and a valve disposed within the body, the valve movable between a closed condition in which the valve restricts fluid flow within the channel and an open condition in which the valve permits fluid flow within the channel. The valve may be in the form of a gate valve. The valve may include a substantial planar valve disk which is shaped and dimensioned to fit within a cavity, between the inlet and the outlet, in the channel.



21: 2021/09300. 22: 2021/11/19. 43: 2022/11/21
51: H02K
71: HANGZHOU WEIGUANG ELECTRONIC CO., LTD.
72: LIU, Haiping, ZHOU, Nan, CHEN, Xin
33: CN 31: 201911171768.4 32: 2019-11-26
54: PERMANENT MAGNET SYNCHRONOUS MOTOR AND MOTOR START-UP METHOD
00: -
Provided in the present disclosure are a permanent magnet synchronous motor and a motor start-up method. The permanent magnet synchronous motor comprises a housing, a cavity being formed at the inner part of the housing; a stator assembly, which is disposed on the inner wall of the cavity at the inner part of the housing; a stator winding, which is connected to and arranged on the stator assembly; a rotor assembly, which is disposed on the inner wall of the stator assembly opposite the housing; and a control assembly, which is disposed on one end surface of the stator assembly, and is configured to control the motor to power on and off.



1

21: 2021/09351. 22: 2021/11/22. 43: 2022/10/27
51: A61K; A61P
71: XIAMEN INNOVAX BIOTECH CO., LTD., XIAMEN UNIVERSITY
72: ZHAO, Qinjian, HUANG, Xiaofen, CHEN, Siyi, LI, Yike, XIA, Ningshao, NIE, Meifeng
33: CN 31: 201910459715.6 32: 2019-05-30
54: PREPARATION OF RISEDRONATE ZINC MICRONANO-ADJUVANT, AND USE OF SAME AS VACCINE ADJUVANT
00: -
The present invention falls within the technical field of medicine. In particular, the present invention relates to a risedronate zinc micronano-adjuvant which has a slow-release function and is formed by mineralizing the major components, zinc ions and risedronic acid, and the use of same as a vaccine adjuvant. The present invention also relates to a method for preparing the risedronate zinc micronano-adjuvant. The present invention also relates to a chemical composition, a vaccine adjuvant and a vaccine composition containing the risedronate zinc micronano-adjuvant. Furthermore, the present invention relates to the use of the risedronate zinc micronano-adjuvant as a vaccine adjuvant.

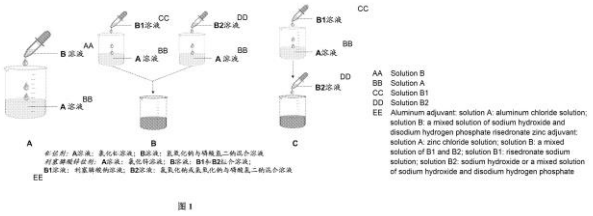
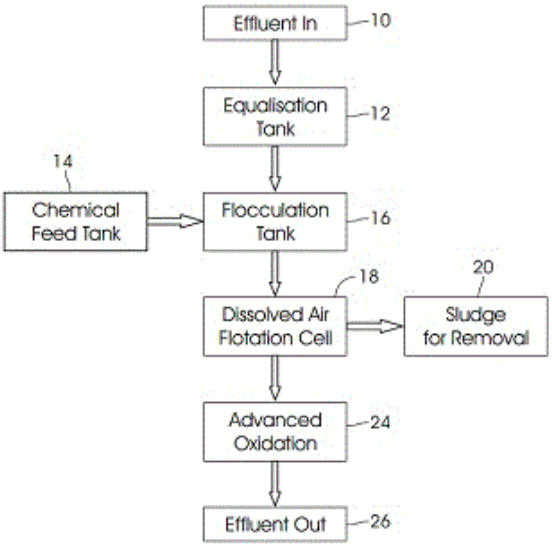


图 1

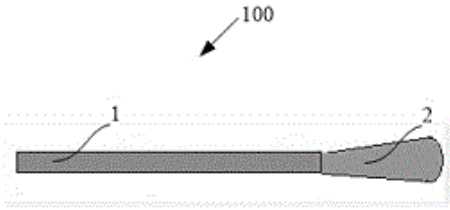
21: 2021/09374. 22: 2021/11/22. 43: 2022/10/03
51: A61K; C07K; C12N; C12P; A61P
71: JOINT STOCK COMPANY "BIOCAD"
72: ULITIN, Andrei Borisovich, KOZLOVA, Olesya Nikolaevna, GORDEEV, Aleksandr Andreevich, BURNYSHEVA, Ksenia Mihailovna, ISHUTINOVA, Anastasia Nikolaevna, SOZONOVA, Aleksandra Aleksandrovna, AGEEV, Sergei Andreevich, DORONIN, Aleksandr Nikolaevich, TSYMPILOV, Vladimir Sergeevich, MITROSHIN, Ivan Vladimirovich, SOLOVYEV, Valery Vladimirovich, USTIUGOV, Iakov Iurevich, IVANOV, Roman Alekseevich, MOROZOV, Dmitry Valentiovich
33: RU 31: 2019112296 32: 2019-04-23
54: MONOCLONAL ANTIBODY THAT BINDS SPECIFICALLY TO GITR
00: -
The present invention relates to biotechnology, in particular to antibodies or antigen-binding fragments thereof, and to use thereof. More particularly, the present invention relates to monoclonal antibodies that specifically bind to GITR. The invention also relates to a nucleic acid encoding said antibody or antigen-binding fragment thereof, an expression vector, a method for preparing said antibody, and use of said antibody in treatment of diseases or disorders associated with GITR.

21: 2021/09566. 22: 2021/11/25. 43: 2022/10/19
51: C02F
71: NUVEST RECOVERY SOLUTIONS (PTY) LTD
72: TUNNICLIFFE, IAN, PRETORIUS, ARTHUR
33: ZA 31: 2020/07330 32: 2020-11-25
54: WATER TREATMENT
00: -
This invention relates to a process for treating effluent water 10 from the food and beverage industries containing organic compounds. The process including the steps of flocculation 16, dissolved air 18 flotation in which air is injected into the water causing organic particles within the water to float to the surface to form a sludge, typically containing solids, fats, oils and grease. Sludge 20 is

removed from the surface of the water, and the water is treated in a chemical oxidation process 24.



21: 2021/09644. 22: 2021/11/26. 43: 2022/11/25
51: G01N
71: JINAN BABIO BIOTECHNOLOGY CO., LTD
72: WANG, PEI, ZHANG, BIN, NING, CHUNHUA, NIE, HUI
54: SELF-TESTED HANDHELD COVID-19 ANTIGEN TEST CARD AND KIT
00: -
A self-tested hand-held COVID-19 antigen test card is provided. The self-tested hand-heldCOVID-19 antigen test card includes a test paper, and a handheld part positioned on one side of the test paper, and the test paper comprising a bottom liner, a protective film, and a sample pad, a gold label pad, a nitrocellulose film, and a water-absorbing pad sequentially arranged on the bottom liner from a side of the bottom liner away from the hand-held part toward the hand-held part, the nitrocellulose membrane provides with a detection line and a quality control line, the gold label pad being coated with a colloidal gold-labeled mouse anti-COVID-19 monoclonal antibody, the detection line being coated with mouse anti-COVID-19 monoclonal antibody, and the quality control line being coated with goat anti-mouse polyclonal antibody.

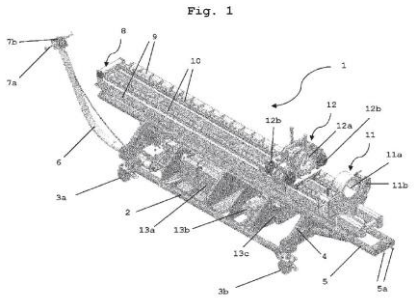


21: 2021/09860. 22: 2021/12/02. 43: 2022/10/03
51: A45C
71: TSHABALALA, Botlhale
72: TSHABALALA, Botlhale
33: ZA 31: 2020/07423 32: 2020-11-30
54: LUGGAGE
00: -
The invention is for a container, which includes side walls arranged to form a cuboidal body having an interior storage volume and of which at least two of the side walls are in the form of telescopic wall panels, which are adjustable in at least one dimension to adjust the interior storage volume of the container. More specifically, the side walls comprise of a plurality of interconnectable modular components having fastening means for connecting the component to each other providing a suitcase with an interior storage volume of which the interior storage volume is adjustable by adding or removing and/or adjusting one or more of the interconnectable modular components.

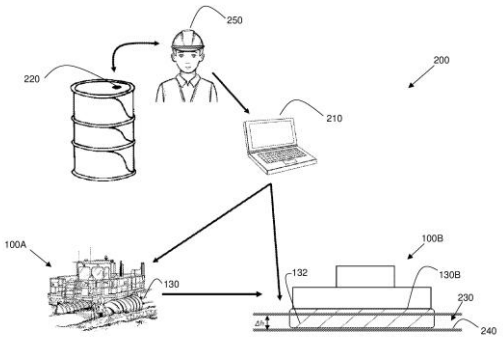


21: 2021/10420. 22: 2021/12/14. 43: 2022/10/03

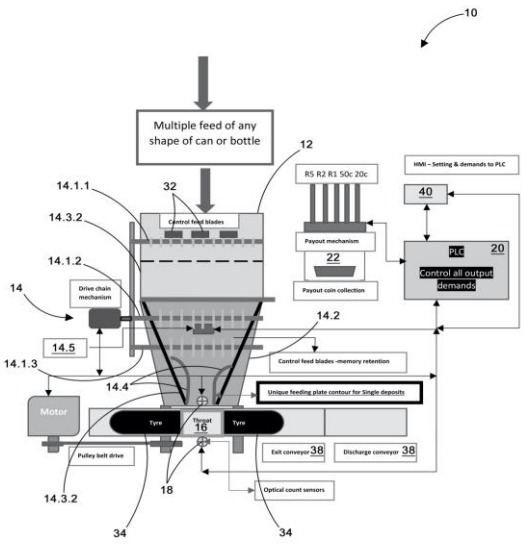
51: B29C
71: BÜHLER AG
72: KRISCHE, Andreas, VENKATESH, Manjunatha Mutaguppe
33: WO 31: PCT/CN2019/090752 32: 2019-06-11
54: EXTRUDER SCREW HANDLING DEVICE
00: -
The present invention is related to an extruder screw handling device (1) for handling a screw (15) of a food or land-or-sea-animal-feed extruder (14), said device being suitable for fully extracting an extruder screw (15) from an extruder barrel, wherein the device (1) has a horizontally arranged top section (8), a locking screw assembly (12) and a guiding element (11). The present invention is furthermore related to a method of extracting an extruder screw (15) from a food or land-or-sea- animal-feed extruder (14) using said device (1).



21: 2021/10441. 22: 2021/12/14. 43: 2022/11/21
51: B60F; B62D; B63H; C12F
71: PHIBION PTY LTD
72: MUNRO, Leon, SMIRK, David
33: AU 31: 2019901868 32: 2019-05-30
54: ENHANCED MECHANICAL DEWATERING OF A SLURRY
00: -
The present invention relates to methods and a vehicle for enhancing the mechanical dewatering of a slurry. In one aspect, the invention concerns a method for enhanced dewatering of a settling pond with a mechanical dewatering vehicle including: measuring one or more properties of a slurry to be deposited in the settling pond; determining a buoyancy profile for the vehicle, based on the one or more properties measured and one or more properties of the vehicle, such that the vehicle is neutrally buoyant in the slurry when deposited in the settling pond; and determining an optimal slurry depth for the slurry to be deposited in the settling pond such that the vehicle is able to maintain substantially shear-free traction as the vehicle traverses the slurry.



21: 2021/10445. 22: 2021/12/15. 43: 2022/10/03
51: G07F
71: VAN NIEKERK, Leonard Francois Mathey
72: VAN NIEKERK, Cornelius Jan Hendrik, VAN NIEKERK, Leonard Francois Mathey
33: ZA 31: 2020/07426 32: 2020-11-30
54: A FEEDER ARRANGEMENT
00: -
The invention is for a feeder arrangement for moving items along a feed path, which includes a retardation roller arrangement at an initial portion of the feed path and a vibratory feeder positioned along at least a portion of the feed path, for moving items from a start of the feed path to an end of the feed path. A bulk feed inlet is positioned adjacent the start of the feed path, into which a plurality of containers for recycling are fed simultaneously, whereafter the containers are arranged into a single feed stream. Furthermore, a single container outlet is provided through which the containers from the single feed stream moves and a container counter positioned proximate the single container outlet to count the number of containers that pass there through, thereby providing a container count of the number of containers which were fed into the feeder arrangement.



21: 2021/10479. 22: 2021/12/15. 43: 2022/10/03
51: C07J
71: HAFEEZ, Kalak Abdul
72: HAFEEZ, Kalak Abdul, PITTALA, Sandhya
33: IN 31: 201941022324 32: 2019-06-05
54: NOVEL ESTERS OF MEDROXYPROGESTERONE
00: -
The present disclosure relates to novel ester forms of medroxyprogesterone, process for their preparation and pharmaceutical compositions comprising the same. The present disclosure also relates to use of the novel ester forms in hormonal therapies such as, for example, contraception, hormone replacement therapy, endometriosis, etc.

21: 2021/10596. 22: 2021/12/17. 43: 2022/10/06
51: A47J
71: Rheavendors Services S.P.A.
72: BRUZZESE, Fabio
33: IT 31: 102019000009384 32: 2019-06-18
54: CONTINUOUS-FLOW ELECTROMAGNETIC-INDUCTION FLUID HEATER IN A BEVERAGE VENDING MACHINE
00: -
A continuous-flow electromagnetic -induction fluid heater (1, 1', 1") in a vending machine for preparing beverages. The continuous -flow electromagnetic-induction fluid heater (1, 1', 1") comprises a tubular body (7) having a longitudinal axis (A), internally defining at least one channel (7a) for a fluid, and including at least one inlet opening (8) through which the fluid to be heated is fed, in use, to the channel (7a), and one outlet opening (10) through which the heated fluid flows out, in use, from the channel (7a); a heating element (13, 13', 13") arranged, at least partially, inside the channel (7a) so as to be lapped, in use, by the fluid; and an electric winding (11) which is wound directly in contact around an external surface (12) of the tubular body (7) and which can be electrically powered to generate an electromagnetic induction field and heat, in this manner, the heating element (13, 13', 13") by the effect of said electromagnetic induction field. The inlet and outlet openings (8, 10) are arranged at respective opposite axial ends of the tubular body (7) in respective eccentric positions with respect to the longitudinal axis (A).

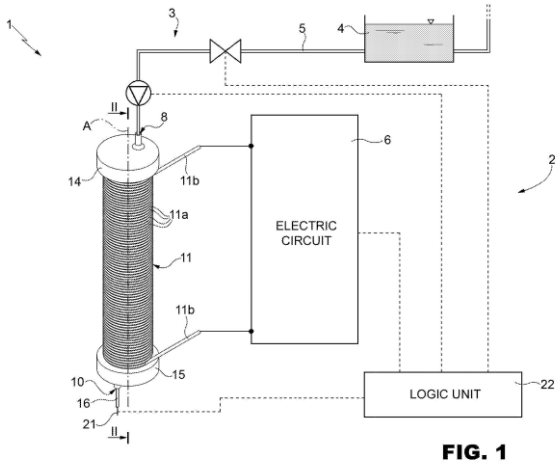
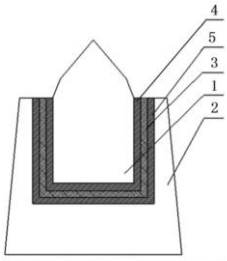


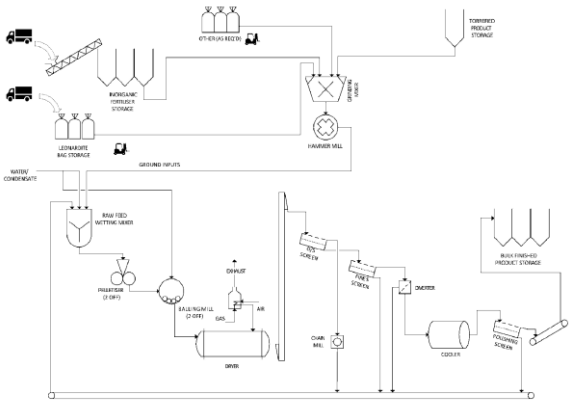
FIG. 1

21: 2021/10701. 22: 2021/12/21. 43: 2022/10/03
51: B23K
71: ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD.
72: LONG, Weimin, QIN, Jian, ZHONG, Sujuan, HUANG, Junlan, ZHOU, Xusheng, LU, Quanbin, GUO, Yanhong, LI, Yong
33: CN 31: 202110933187.0 32: 2021-08-12
54: COMPOSITE BRAZING MATERIAL FOR HARD ALLOY BRAZING, PRODUCTION METHOD THEREOF, AND USE THEREOF IN CUTTING PICK BRAZING
00: -
The present disclosure belongs to the field of brazing materials, and in particular, relates to a composite brazing material for hard alloy brazing, a production method thereof, and use thereof in cutting pick brazing. The composite brazing material is a sandwich structure, including an iron-cobalt-nickel alloy mesh at a core, and first and second

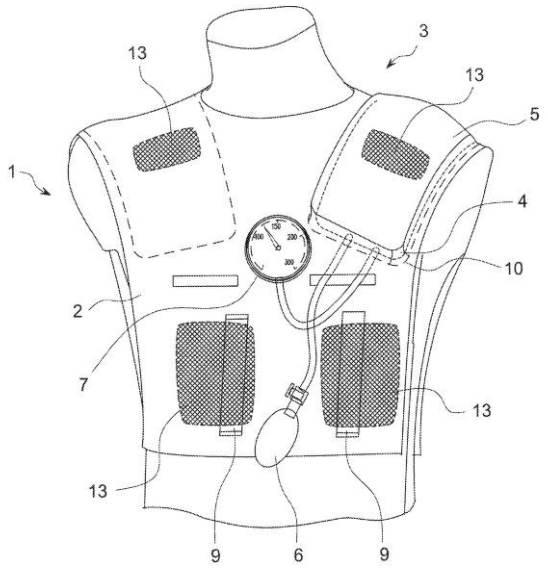
brazing material parts compounded on two sides of the iron-cobalt-nickel alloy mesh. The first and second brazing material parts are connected as a whole through a copper-based brazing material correspondingly filled in meshes of the iron-cobalt-nickel alloy mesh; and the iron-cobalt-nickel alloy mesh is composed of the following components in mass percentage: Ni: 24% to 34%, Co: 12% to 22%, and the balance: Fe. The composite brazing material of the present disclosure can effectively slow the release of thermal stress at a joint of cutting pick brazing and reduce the risk of a cutter body to crack. Fe, Ni, and Co in the iron-nickel-cobalt alloy will be dissolved and diffuse into a brazing seam in small quantities, which is conducive to the formation of a Fe-Ni-Co solid solution, reduces the generation of η brittle phase, and effectively enhances the strength of a joint.



21: 2021/10908. 22: 2021/12/23. 43: 2022/11/21
51: C05B; C05F; C05G; C10B
71: INCITEC FERTILIZERS PTY LIMITED
72: WALKER, Charles Norman, HOGAN, Nicholas, DURACK, Ellen, KHALIL, Roya, HUGHES, Timothy
33: AU 31: 2019902376 32: 2019-07-04
33: AU 31: 2020900981 32: 2020-03-31
54: IMPROVED FERTILISER
00: -
A dry and solid fertiliser in the form of discreet particles is provided. The particles of the dry and solid fertiliser comprise a homogenous mixture of organic and inorganic materials. The inorganic material comprises at least one of the NPKS nutrients. The organic material comprises a carbon-labile substantially sterile product of organic waste.

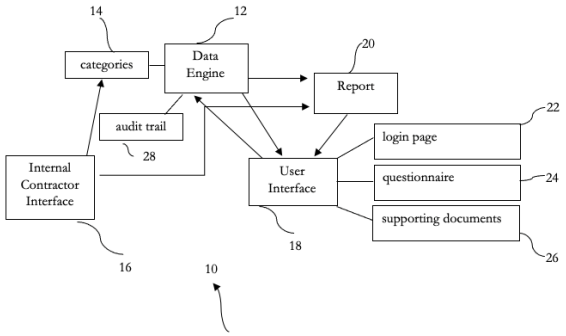


21: 2022/01080. 22: 2022/01/24. 43: 2022/09/29
51: A61F
71: ANGELORO, Ciro, MORSILLO, Enrico
72: ANGELORO, Ciro, MORSILLO, Enrico
33: IT 31: 102019000012843 32: 2019-07-25
54: IMPROVED MEDICAL APPARATUS FOR CONTAINING HAEMATOMAS
00: -
There is described a medical apparatus (1) for the containment of hematomas for treatment following operations for implanting cardiac devices. The apparatus comprises a support unit (2) externally enveloping at least a part of the patient' s body and adapted to resist efforts aimed to detach said unit from said patient, at least one inflatable cushion (4) held in place over or close to the patient' s shoulder by said support unit. The support unit comprises at least one pocket (10) arranged between the inflatable cushion and the patient' s shoulder; the pocket comprises a material (11) configured to distribute the pressure of the cushion, once inflated, on the patient' s shoulder. The inflatable cushion (40) is shaped so that, once inflated, it takes a wavy shape.



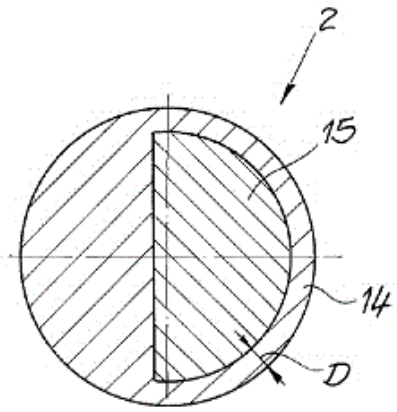
21: 2022/01089. 22: 2022/01/24. 43: 2022/09/29
51: C08K; C08L; E01C
71: A.L.M. Holding Company, Ergon Asphalt & Emulsions, Inc.
72: REINKE, Gerald H., BAUMGARDNER, Gaylon L., HANZ, Andrew
33: US 31: 62/874,196 32: 2019-07-15
54: RECYCLING OF STEROL-CONTAINING ASPHALT BINDER
00: -
Disclosed are asphalt binder compositions and methods for making such compositions with sterol. The sterol improves various rheological and chemical properties of asphalt binder.

21: 2022/01385. 22: 2022/01/27. 43: 2022/08/03
51: G06Q
71: THEKVEST LEGAL ADVISORY SERVICES
72: LERATO THEKISO
54: A SYSTEM FOR, AND METHOD OF RISK MANAGEMENT RELATED TO STATUTORY AND REGULATORY COMPLIANCE WITHIN A SOUTH AFRICAN ORGANISTION
00: -
This invention provides for a system for risk management related to statutory and regulatory compliance within a South African organisation comprising a data engine including a plurality of categories capable of selection by an internal consultant interface, the data engine in communication with a user interface and capable of generating an automated report manually customisable by means of the internal consultant interface.

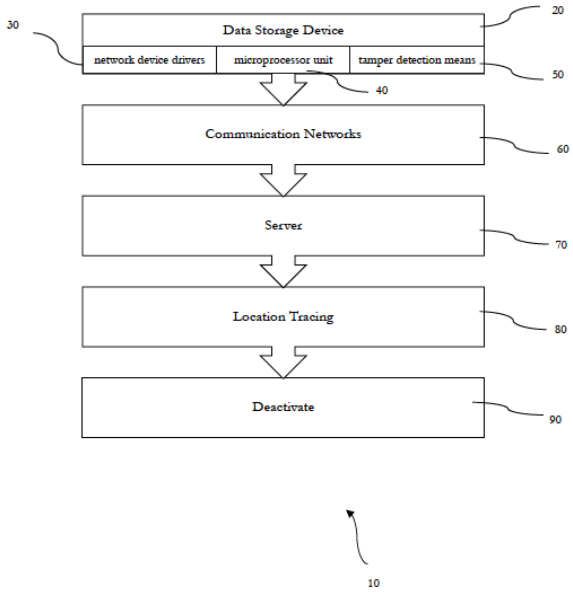


21: 2022/01435. 22: 2022/01/31. 43: 2022/10/31
51: B32B; D04H
71: REIFENHÄUSER GMBH & CO. KG MASCHINENFABRIK
72: WAGNER, TOBIAS, SOMMER, SEBASTIAN, BOHL, PATRICK
33: DE 31: 10 2021 102 287.8 32: 2021-02-01
33: EP 31: 21 154 643.7 32: 2021-02-01
54: SPUNBONDED NONWOVEN LAMINATE AND METHOD FOR PRODUCING A SPUNBONDED NONWOVEN LAMINATE
00: -
Spunbonded nonwoven laminate comprising at least two spunbonded nonwoven layers, wherein at least one spunbonded nonwoven layer comprises crimped continuous filaments. The crimped continuous filaments are multicomponent filaments, in particular bicomponent filaments having a first component based on polypropylene and a second component based on polypropylene. The specific density ρ [g/cm^3] of the spunbonded nonwoven laminate depending on the mass per unit area of the spunbonded nonwoven laminate lies below a limiting density ρ_G which is defined by the following equation:

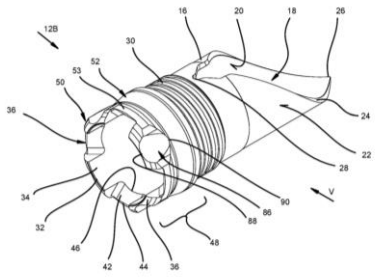
$$\rho_G = 9\frac{1}{cm} \times Mass\ per\ unit\ area\ \frac{g}{cm^2} + 0.0393\frac{g}{cm^3}$$



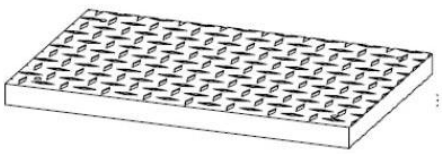
21: 2022/01648. 22: 2022/02/08. 43: 2022/08/23
51: G01P
71: INTELLIGENCE 161 HARDWARE
72: HENNING JACOBS
54: A METHOD AND DEVICE FOR REMOTE TRACING AND OPERATION OF A HOST DEVICE
00: -
This invention relates to a method and device for the accurate tracing and remote operation of a host device, for example a computer or an external hard drive, and more particularly provides for a method of assembly of a data storage device for accurate location tracing of a host device wherein the data storage device may include a plurality of network device drivers in wireless communication with a plurality of communication networks; the data storage device may include a microprocessor unit in electronic communication with the network device drivers, and in wireless communication with a server via the communication networks; and the data storage device may include a plurality of tamper detection means in electronic communication with the microprocessor; and the assembly may comprise enabling the server computing accurate location tracing of the device via the microprocessor unit and the combination of communication networks.



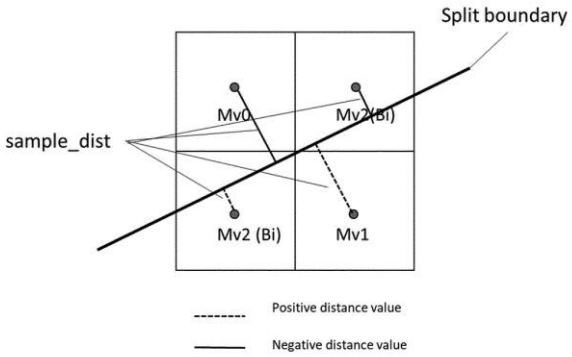
21: 2022/01781. 22: 2022/02/10. 43: 2022/09/29
51: E21B
71: REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD
72: BEACH, Andrew Phillip, MOKARAMIAN, Amir
33: AU 31: 2019903131 32: 2019-08-27
54: A DRIVE SUB FOR A DRILLING ASSEMBLY
00: -
A drive sub for a drilling assembly includes a tubular body configured to receive and releasably engage a drilling tool. The body has inner and outer faces and further has a castellated edge provided on its operative downhole end, which edge defines a plurality of lugs separated from each other by intervening slots. In one aspect the drive sub has a contour profile provided at least partially along a circumference of the castellated edge, wherein the contour profile traverses the castellated edge substantially from the inner face to the outer face. In another aspect the drive sub has a channel provided in each of the lugs, wherein the channel at least partially traverses the lugs and leads from an inlet opening on the castellated edge to an outlet opening on the outer face. The contour profile and/or channel facilitate flow of drilling fluid and cuttings past the lugs during use.



21: 2022/01824. 22: 2022/02/11. 43: 2022/10/03
51: E04C
71: Plastman Sp. z o.o.
72: Paweł Regulski
33: PL 31: P.439577 32: 2021-11-19
54: PLASTIC ROAD PLATE AND THE METHOD OF ITS MANUFACTURE
00: -
The subject of the invention is a plastic road plate of a cuboidal shape, characterised by the fact that it contains four transport thru-holes with rectangular longitudinal-section, located near the corners of the plate; its thickness varies from 100 mm to 250 mm, and the plastic used is heterogeneous plastic waste – light and heavy plastics, a combination of lightweight and heavy plastics, PVC or rubber from used tyres. Another subject of the invention is the method of manufacture of the plastic road plate, characterised by the fact that the plastic used is plastic waste; the method consists of the following stages: a) shredding of plastic waste; b) pre-washing of plastic waste; c) production of plastic mass by melting plastic waste chosen from the group composed of lightweight and heavy plastics, their combination, PVC, or rubber from used tyres in a temperature varying from 150 to 280°C and injecting the aforementioned plastic mass to a previously prepared mould tilted at angle a towards the ground, where a equals 15-35°; d) solidification of the moulded plastic plate.

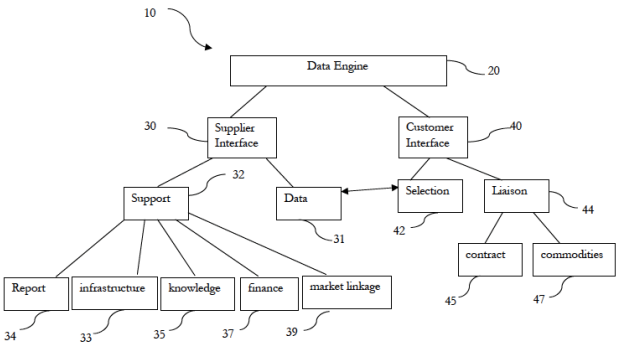


21: 2022/01896. 22: 2022/02/14. 43: 2022/10/10
51: H04N
71: Huawei Technologies Co., Ltd.
72: GAO, Han, ESENLIK, Semih, ALSHINA, Elena Alexandrovna, WANG, Biao, KOTRA, Anand Meher
54: METHOD AND APPARATUS FOR MOTION INFORMATION STORAGE
00: -
A motion information storing method comprises: determining a distance between a sample set in the current block and the common boundary; and comparing the distance with a threshold to determine whether third motion information is stored for the sample set, wherein the third motion information is derived by the first motion information and the second motion information

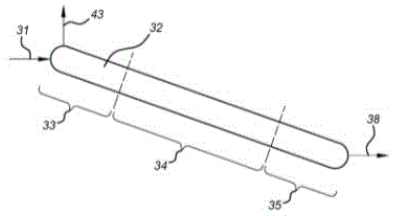


21: 2022/02010. 22: 2022/02/17. 43: 2022/08/22
51: G06F
71: THEKVEST GROUP (PTY) LTD
72: Champ Thekiso
54: A METHOD AND SYSTEM FOR ACCELERATED PROCUREMENT, SOURCING AND MONITORING OF SUPPLIERS COMPRISING SMALL, MICRO AND MEDIUM ENTERPRISES (SMES)
00: -
This invention relates to a method and a system for accelerated procurement, sourcing and monitoring of suppliers comprising small, micro and medium enterprises (SMEs) for the benefit of economic empowerment, comprising a data engine in communication with a supplier interface and a customer interface. The supplier interface may include a data module and a support module comprising a report function, an infrastructure function, a knowledge function, a finance function and a market linkage function. The customer interface may include a selection module and a liaison module, the selection module may be in communication with the data module via the data

engine, so that a suitable supplier is selected by a customer based on specified criteria.



21: 2022/02115. 22: 2022/02/18. 43: 2022/10/10
51: B01J
71: Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
72: VAN DER MEIJDEN, Christiaan Martinus, PELS, Jan Remmert
33: EP(NL) 31: 19192881.1 32: 2019-08-21
54: REACTOR FOR THE HYDROTHERMAL TREATMENT OF BIOMASS
00: -
The present invention concerns a reactor and a process for the hydrothermal treatment of an aqueous mixture, such as watery biomass. The reactor according to the invention comprises (31) an inlet for receiving the aqueous mixture, (32) a tube-shaped reactor interior, which is inclined at an angle in the range of 1 – 45°; (33) a first zone in the reactor interior (32) comprising means (5) for heating the aqueous mixture; (34) a second zone in the reactor interior (32) for keeping the aqueous mixture at the predetermined temperature; (35) a third zone in the reactor interior (32) for cooling the aqueous mixture; (38) an outlet for discharging a hydrothermally treated aqueous mixture, and (43) an outlet for discharging gas, wherein inlet (31) and outlet (43) are positioned at the top part of the reactor and outlet (38) at the bottom part of the reactor. The inclined nature of the reactor ensures that all gases are efficiently removed from the liquid effluent, and the CO2 formed during the process is used to improved efficacy of the hydrothermal treatment.



21: 2022/02299. 22: 2022/02/23. 43: 2022/10/10
51: F01N H02N H01L
71: KATRICK TECHNOLOGIES LIMITED
72: VELAYUTHAM, Karthikeyan
33: GB 31: 1911017.0 32: 01-08-2019
33: GB 31: 2006829.2 32: 07-05-2020
54: ENERGY HARVESTING SYSTEM AND METHOD OF MANUFACTURE
00: -
A vibrational lens is disclosed. The vibrational lens comprises at least two focusing plates each having a proximal and distal end. The separation between the distal ends of the at least two focusing plates is less than the separation between the proximal ends of the at least two focusing plates. The vibrational lens transmits, converges and focuses vibrational energy from a source to an energy conversion means such as piezoelectric crystals. The vibrational lens may also comprise a bimetallic structure to convert thermal fluctuations into mechanical displacement. The vibrational lens is suitable for use in a vibrational and or thermal energy harvesting system. Advantageously, the vibrational lens improves the energy efficiency of, for example, an internal combustion engine whilst mitigating the need for vibrational damping mechanisms and or thermal insulation.

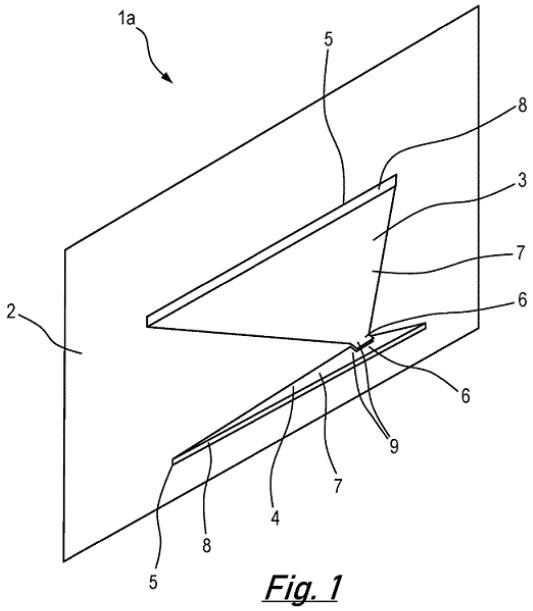
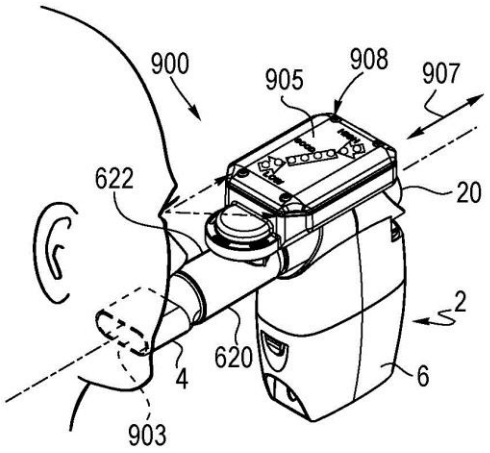


Fig. 1

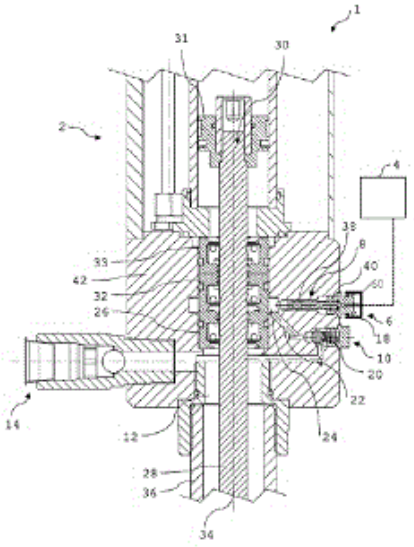
21: 2022/02311. 22: 2022/02/23. 43: 2022/09/01
51: C07F; C23C
71: HERAEUS DEUTSCHLAND GMBH & CO. KG
72: SIEVI, Robert, WALTER, Richard, RAUTER, Holger, GOCK, Michael, ULLAND, Holger
33: EP 31: 19199475.5 32: 2019-09-25
54: NOVEL PLATINUM COMPLEX
00: -
The invention relates to a platinum complex of the type [L1L2Pt[0(C0)R1]X]n, wherein L1 and L2 are the same or different monoolefin ligands or together represent a compound L1L2 acting as a diolefin ligand, wherein X is selected from bromide, chloride, iodide and -0(C0)R2, wherein -0(C0)R1 and -0(C0)R2 are the same or different C6-C18 or C8-C18 non aromatic monocarboxylic acid residues with the exception of a phenylacetic acid residue, or together represent a C8-C18 non aromatic dicarboxylic acid residue -0(C0)R1R2(C0)0-, wherein it is a mononuclear platinum complex where n = 1 or if L1L2 and/or of -0(C0)R1 R2(C0)0- is present, it may be a polynuclear platinum complex with a whole number n > 1.

21: 2022/02425. 22: 2022/02/25. 43: 2022/09/30
51: A61B; A61M
71: Trudell Medical International
72: ALIZOTI, Neritan, NOWAK, Bart, SUGGETT, Jason
33: US 31: 62/892,355 32: 2019-08-27
54: SMART OSCILLATING POSITIVE EXPIRATORY PRESSURE DEVICE
00: -
A respiratory therapy device having a diagonal feedback array, and methods for the user thereof.

FIG. 86A

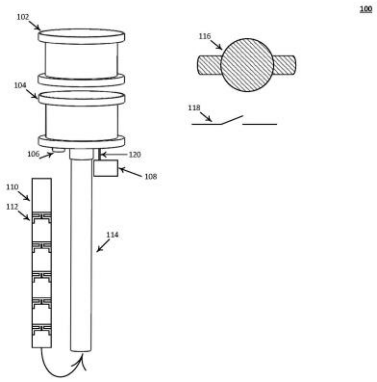


21: 2022/02471. 22: 2022/02/28. 43: 2022/10/31
51: F16N
71: SKF LUBRICATION SYSTEMS GERMANY GMBH
72: KREUTZKAEMPER, JUERGEN, SCHUERMANN, STEFAN, SCHOENFELD (DECEASED), ANDREAS, HESS, DIETER
33: DE 31: 102021204102.7 32: 2021-04-26
54: LUBRICANT PUMPING SYSTEM
00: -
Disclosed is a lubricant pumping system (1), including a lubricant pump (2) including a lubricant pumping space (12), and at least one seal (26) and at least one signal detecting device (4), wherein at least one leakage detecting device (6) that is configured to detect a leakage of a lubricant from the pumping space (12) of the lubricant pump (2) through the at least one seal (26), and to issue a signal to the signal detecting device (4) when the leakage of the lubricant is detected.

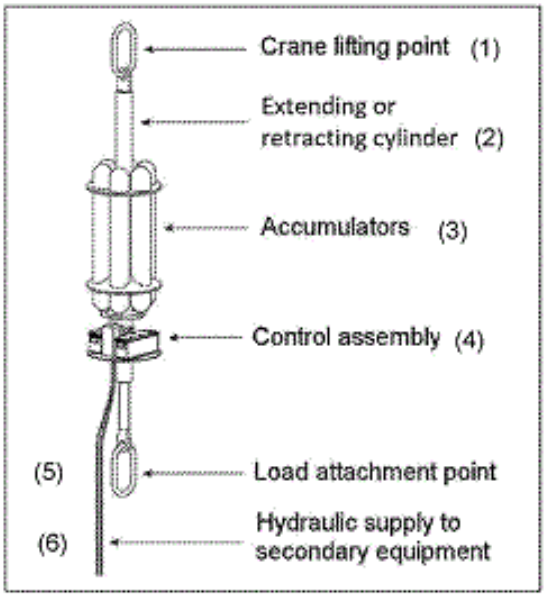


21: 2022/02811. 22: 2022/03/08. 43: 2022/09/26
51: A61K; C07D; A61P
71: UNIVERSITY OF MARYLAND, BALTIMORE
72: THOMPSON, Scott
33: US 31: 62/886,090 32: 2019-08-13
54: METHODS OF TREATING PSYCHOLOGICAL AND BRAIN DISORDERS
00: -
The present invention relates to the field of psychiatric diseases. More particularly, the present invention relates to compounds for use in treating psychological and brain disorders by manipulating brain serotonergic systems.

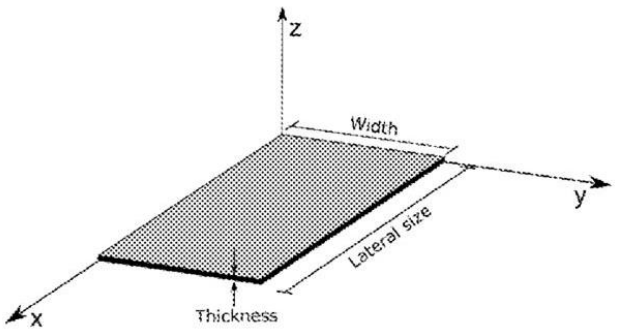
21: 2022/02826. 22: 2022/03/09. 43: 2022/09/26
51: G01F; G01N
71: AFRICAN NEW ENERGIES LIMITED
72: LARKIN, Stephen, RAW, Brendon, OMAR, Muhammad, USMAN, Muhammad, KHAN, Saad Saleem
33: ZA 31: 2022/00674 32: 2022-01-14
54: FANO BASED CRAB SENSOR AND SYSTEM FOR FUEL QUALITY, LEVEL, AND VOLUME MONITORING FOR IRREGULAR SHAPED FUEL TANKS
00: -
The invention is for fuel monitoring system which includes a control module configured to control sensors and a plurality of sensors. The sensors include an ultrasonic sensor mounted to a fuel tank and coupled to the control module, the ultrasonic sensor configured to measure or detect a fuel level of fuel in the fuel tank, and a Fano-based crab sensor mounted inside the fuel tank and coupled to the control module, the Fano-based crab sensor configured to monitor a quality of the fuel in the fuel tank.



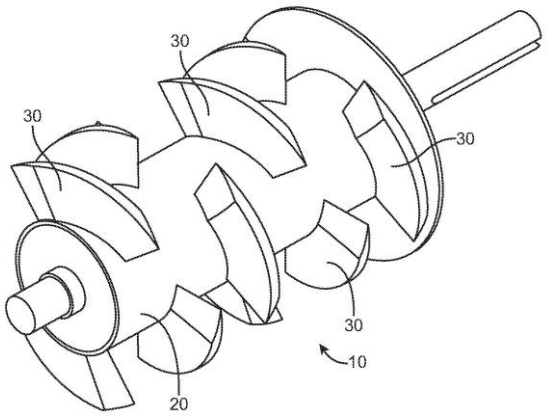
21: 2022/02872. 22: 2022/03/09. 43: 2022/10/03
51: B66C
71: VDM SUPPLY CHAIN SOLUTIONS (PTY) LTD
72: VAN ZYL, Petrus, Johannes, Adriaan, SCHOEMAN, Pieter, Conrad
54: HYDRAULIC POWER REGENERATION SYSTEM
00: -
A freestanding energy storage system, which can be fitted to a tilter and any other system which requires hydraulic pressure for further operation. The energy storage system has a crane lifting point (1) atop of an extending or retracting hydraulic cylinder (2). The hydraulic fluid in cylinder (2) is in flow communication with the accumulators (3) with a control assembly (4) controlling the direction of flow of hydraulic fluid into and out of the accumulators (3) thereby to store and release the potential energy of the hydraulic fluid when system is operational. A load attachment point (5) extends away from the control assembly whereby a load can be attached to the system for work to be done and potential energy to be collected and stored by the system. Once lifted, the accumulator is locked and the pressurised oil available for further use by means of a hydraulic supply (6).



21: 2022/02918. 22: 2022/03/10. 43: 2022/10/20
51: C04B; C23C
71: ARCELORMITTAL
72: Thi Tan VU, Laura MEGIDO FERNANDEZ, Carlota DOMINGUEZ FERNANDEZ, Jorge RODRIGUEZ GARCIA, David NORIEGA PEREZ, Roberto SUAREZ SANCHEZ, Cristina BLANCO ROLDAN
33: IB 31: PCT/IB2019/059255 32: 2019-10-29
54: A COATED STEEL SUBSTRATE
00: -
The present invention relates to a coated stainless-steel substrate comprising a coating comprising nanographites and a binder being sodium silicate, wherein the stainless-steel substrate has the following composition in weight percent: C = 1.2%, Cr = 11.0%, Ni = 8.0% and on a purely optional basis, one or more elements such as Nb = 6.0%, B = 1.0 %, Ti = 3.0 %, Cu = 5.0 %, Co = 3.0 %, N = 1.0 %, V = 3.0 %, Si = 4.0 %, Mn = 5.0 %, P = 0.5 %, S = 0.5 %, Mo = 6.0 %, Ce = 1.0%, the remainder of the composition being made of iron and inevitable impurities resulting from the elaboration. The invention also relates to a method for the manufacture of this coated stainless-steel substrate.

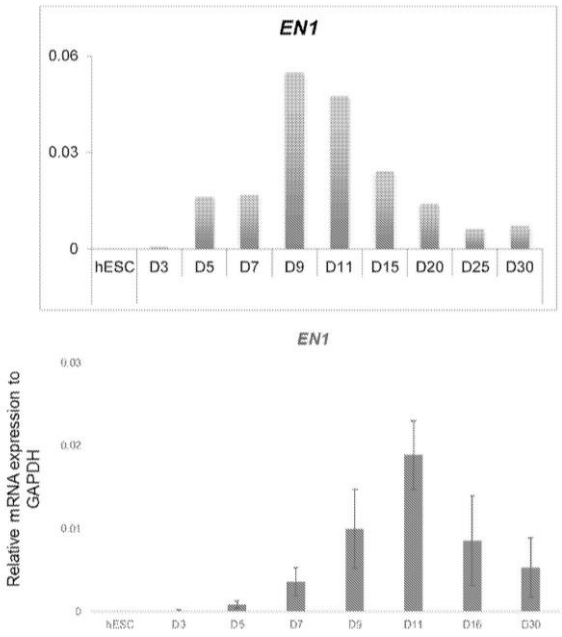


21: 2022/02990. 22: 2022/03/11. 43: 2022/09/27
51: B02C; B29C
71: Carlisle Construction Materials, LLC
72: LITTLE, Jeff, BISHOP, John
33: US 31: 62/899,925 32: 2019-09-13
54: AUGER FOR GRINDING POLYURETHANE FOR A TIRE FILLING MACHINE
00: -
An auger for a grinder material for a tire filling machine, having: a cylindrical column; and a plurality of flights extending outwardly from the cylindrical core, wherein (i) the flights are arranged in pairs extending radially outwards from the cylindrical column at 180 degrees to one another, and (ii) each flight has a sharpened leading edge. Each pair of flights are positioned at angles of approximately 50 or 60 degrees to one another, and each flight extends approximately half way around the circumference of the cylindrical column, and there are no outer edge notches in the flights.



21: 2022/02994. 22: 2022/03/11. 43: 2022/09/30
51: A61K
71: Memorial Sloan-Kettering Cancer Center

72: STUDER, Lorenz, KIM, Taewan, IRION, Stefan, KOO, So Yeon
33: US 31: 62/893,674 32: 2019-08-29
54: METHODS OF GENERATING AND ISOLATING MIDBRAIN DOPAMINE NEURONS
00: -
The present disclosure provides methods for generating midbrain dopamine neurons (mDAs) and precursors thereof, mDAs and precursors thereof generated by such methods and compositions comprising such cells, and uses thereof for preventing and/or treating neurological disorders. The present disclosure further provides methods of isolating mDAs and precursors thereof from a cell population using novel surface markers.



21: 2022/03081. 22: 2022/03/15. 43: 2022/09/26
51: E21D
71: LULL STORM TRADING (PTY) LTD.
72: WILSON, Langdon Roger, VAN DER WESTHUIZEN, Rudi, BOTHMA, Eric
33: ZA 31: 2021/04434 32: 2021-06-28
54: A Yield System
00: -
The invention provides a rock anchor 10 which includes an elongate anchor element 12 and a plurality of deformable yield elements 14 which are configured to deform plastically when subjected to a compressive load in excess of a predetermined load. A bearing plate 20 is provided on a tendon 16 and a barrel and wedge arrangement 22 is provided adjacent to an operatively outer end of the tendon 16. The yield elements 14 are positioned in series between the barrel of the barrel and wedge arrangement 22 and the bearing plate 20 and together form a composite yield arrangement. The invention extends to a yield element for use with a rock anchor and to a rock anchor kit. It further relates to a method of manufacturing a yield element for use with a rock anchor.

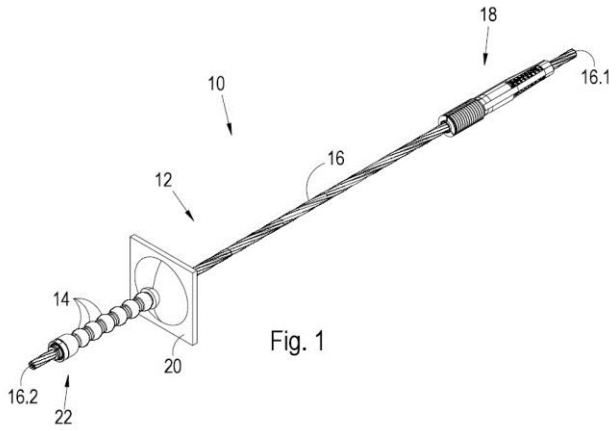
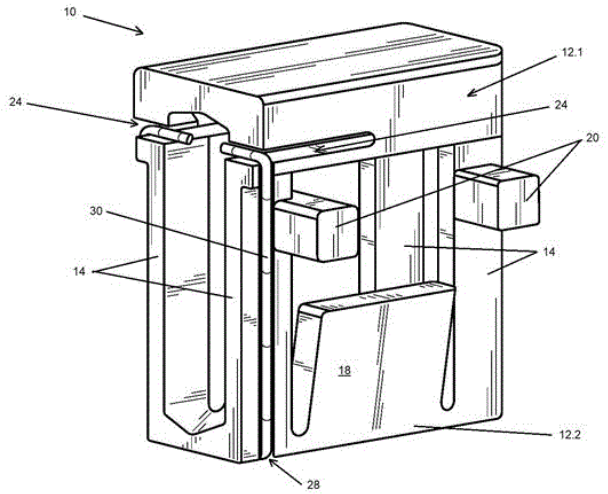


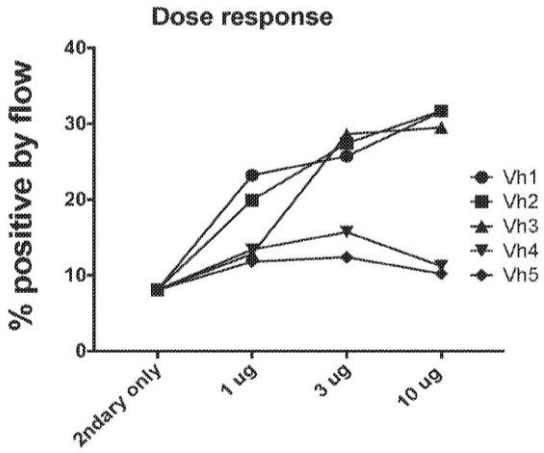
Fig. 1

21: 2022/03139. 22: 2022/03/16. 43: 2022/09/28
51: H02S
71: NIENHUIS, Jan, Balster
72: NIENHUIS, Jan, Balster
54: BRACKET FOR SOLAR PANELS
00: -
The invention provides an injection moulded bracket for attaching a solar panel to a generally U-shaped rail. The bracket includes a hollow generally cuboid shaped body with an upper and lower part with two opposed pairs of pillars extending between the upper and lower parts along the corners of the body and which lower part is dimensioned to fit snugly in the lower part of the rail, in use, a pair of opposed snap-lock braces extending from the lower part between its associated pillars and out of the plane defined by the pair of associated pillars and wherein the braces are dimensioned such that its upper free edges snugly fits, in use, under an upper lip of the U-shaped rail, and a pair of notches respectively extending outwardly from each of the pair of pillars and out of the plane defined by its associated pillars and above the upper free edge of the its associated brace such that the notches rests snugly on the upper edge of the rail, when the bracket is fitted, in

the rail. A slit is defined in the upper part of the body generally transverse to the planes defined by the pillars and extending from one side of the body in the direction of the rail and dimensioned to receive an inside facing edge of a solar panel frame, in use.

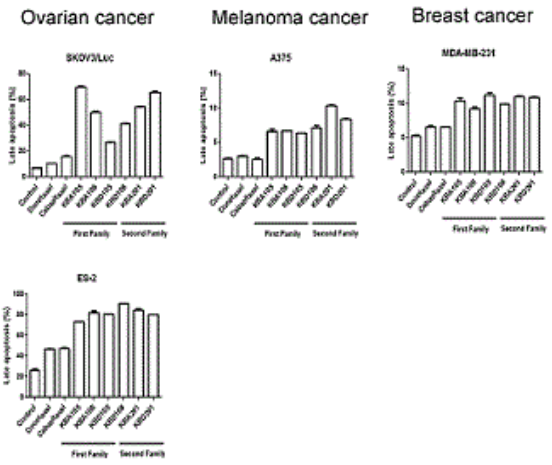


21: 2022/03272. 22: 2022/03/18. 43: 2022/09/26
51: C07K
71: Opsidio, LLC
72: PHILLIPS, Martin
33: US 31: 62/900,927 32: 2019-09-16
54: ANTI-STEM CELL FACTOR ANTIBODIES AND METHODS OF USE THEREOF
00: -
The disclosure relates to antibodies and antigen-binding fragments thereof that bind to Stem Cell Factor (SCF). The antibodies and antigen-binding fragments thereof specifically bind to SCF248. The disclosure further relates to methods for making the antibodies, and to methods of use of the antibodies including methods of treatment for inflammatory and/or fibrotic diseases and disorders.

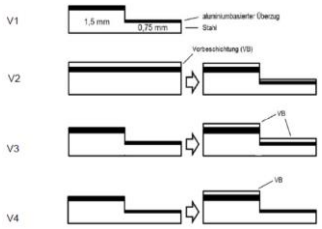


21: 2022/03329. 22: 2016/11/24. 43: 2022/10/19
51: C07K A61K A61P C07C C07D C07H C40B
71: TRANSFERT PLUS, S.E.C.
72: BÉLIVEAU, Richard, ANNABI, Borhane, DEMEULE, Michel, LAROCQUE, Alain, CURRIE, Jean-Christophe, CHARFI, Cyndia
33: US 31: 62/259,178 32: 2015-11-24
54: PEPTIDE COMPOUNDS AND PEPTIDE CONJUGATES FOR THE TREATMENT OF CANCER THROUGH RECEPTOR-MEDIATED CHEMOTHERAPY
00: -
The present disclosure relates to peptide compounds and conjugate compounds, processes, methods and uses thereof for treating cancer. For example, the compounds can comprise compounds of formula X1X2X3X4X5GVX6AKAGVX7NX8FKSESY (I) (SEQ ID NO: 1) (X9)nGVX10AKAGVX11NX12FKSESY (II) (SEQ ID NO: 2) YKX13LRRX14APRWDX15PLRDPALRX16X17L (III) (SEQ ID NO: 3) YKX18LRR(X19)nPLRDPALRX20X21L (IV) (SEQ ID NO: 4) IKLSGGVQAKAGVINMDKSESM (V) (SEQ ID NO: 5) IKLSGGVQAKAGVINMFKSESY (VI) (SEQ ID NO: 6) IKLSGGVQAKAGVINMFKSESYK (VII) (SEQ ID NO: 7) GVQAKAGVINMFKSESY (VIII) (SEQ ID NO: 8) GVRAKAGVRNMFKSESY (IX) (SEQ ID NO: 9) GVRAKAGVRN(Nle)FKSESY (X) (SEQ ID NO: 10) YKSLRRKAPRWDAPLRDPALRQLL (XI) (SEQ ID NO: 11) YKSLRRKAPRWDAYLRDPALRQLL (XII) (SEQ ID

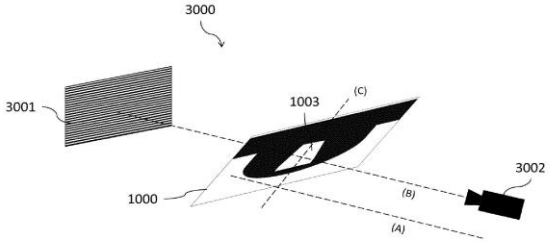
NO: 12) YKSLRRKAPRWDAYLRDPALRPLL (XIII) (SEQ ID NO: 13) wherein X1 to X21 and n can have various different values and wherein at least one protecting group and/or at least one labelling agent is optionally connected to said peptide compound at an N- and/or C-terminal end.



21: 2022/03365. 22: 2022/03/22. 43: 2022/09/28
51: B21D; C23C
71: SALZGITTER FLACHSTAHL GMBH
72: LUTHER, Friedrich, DEBEAUX, Marc, BEIER, Frank, KÖRNER, Kerstin
33: DE 31: 10 2019 126 378.6 32: 2019-09-30
54: METHOD FOR PRODUCING A PRESS-HARDENED SHEET STEEL PART HAVING AN ALUMINIUM-BASED COATING, INITIAL SHEET METAL BLANK, AND A PRESS-HARDENED SHEET STEEL PART MADE THEREFROM
00: -
The invention relates to a method for producing a press-mould-hardened part, comprising the following steps: - providing a steel strip having an aluminium-based coating; applying an inorganic, iron-containing conversion layer to the aluminium-based coating with a layer weight in relation to iron of 3-30 mg/m2; - cold-rolling the steel strip to form a flexibly rolled strip with strip sections of different sheet thickness; - cutting an initial sheet metal blank out of the flexibly rolled strip, the initial sheet metal blank having different sheet thicknesses with a thinnest and a thickest sheet section; - press-mould-hardening the initial sheet metal blank to form a part. Alternatively, the cold-rolling can take place before the cutting, and the application of the conversion layer can take place before or after the cutting, or, instead of the cold-rolling, at least two steel strip sections which have an aluminium-based coating and different sheet thicknesses can be welded together, and the application of the conversion layer can take place before or after the welding together.



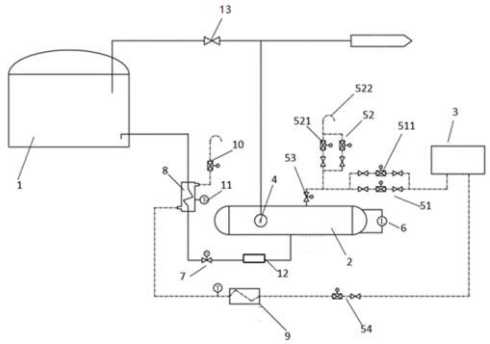
21: 2022/03632. 22: 2022/03/29. 43: 2022/09/30
51: G01N
71: Saint-Gobain Glass France
72: RYBARCZYK, Théo, REMEUR, Laurent
33: FR 31: 1910824 32: 2019-09-30
54: METHOD FOR EVALUATING THE OPTICAL QUALITY OF A DELIMITED ZONE OF A GLAZING
00: -
The invention concerns a method for measuring the optical quality of a delimited zone of a glazing, said delimited zone being intended to be placed in front of an acquisition or measurement device such as a camera. The invention is particularly suitable for measuring the optical quality of a delimited zone of a transport vehicle glazing, such as a car or aeroplane windscreen, in front of which an optical device for recording images or a device for measuring the external environment of the vehicle is placed for the operation of a smart driving assistance system of the vehicle.



21: 2022/03636. 22: 2022/03/29. 43: 2022/09/28
51: A61K; A61P; C07K; C12N
71: Jacobio Pharmaceuticals Co., Ltd.
72: LIU, Qinghao, TAO, Jun, ZHOU, Wenlai, HE, Shanshan, YANG, Haiyan, WANG, Hongling, YANG, Guiqun

33: PCT/CN 31: 2019/108904 32: 2019-09-29
54: BINDING MOLECULE SPECIFIC FOR LIF AND USE THEREOF
00: -
Provided are a binding molecule specific for LIF and uses thereof. Specifically, provided is an isolated antibody or an antigen-binding fragment thereof that binds to LIF and inhibits the activity of LIF. Also provided are uses of the isolated antibody or the antigen-binding fragment thereof in treatment of diseases.

21: 2022/03662. 22: 2022/03/30. 43: 2022/09/28
51: F24S F17D F22B
71: ZHEJIANG COSIN SOLAR TECHNOLOGY CO., LTD.
72: YU, Zhiyong, TANG, Yaping, ZHOU, Hui, ZHOU, Kai, BI, Wenjian, SUN, Feng, TANG, Juan, TONG, Guokai
33: CN 31: 201910929445.0 32: 2019-09-27
33: CN 31: 202010733930.3 32: 2020-07-27
54: HEAT-STORAGE MEDIUM CONVEYING SYSTEM FOR SOLAR-THERMAL POWER PLANT
00: -
The present invention provides a heat-storage medium conveying system for a solar-thermal power plant, comprising a high-level tank subsystem which comprises a high-level tank used for storing a heat-storage medium, and further comprising a heat-storage medium conveying subsystem. The high-level tank subsystem is connected to the heat-storage medium conveying subsystem. The heat-storage medium conveying subsystem comprises a low-level tank. The installation height of the low-level tank is lower than that of the high-level tank, and the volume of the low-level tank is less than that of the high-level tank. The heat-storage medium partially or fully enters the low-level tank from the high-level tank according to own gravity. The low-level tank is provided with a transfer pump. The heat-storage medium is pumped out of the low-level tank by means of the transfer pump. The present invention solves the problems of cost, operational and maintenance cost caused by a vertical long-axis submerged molten salt pump, avoiding the safety hazards of large and small tanks or high and low tank designs.



21: 2022/03770. 22: 2022/04/01. 43: 2022/10/17
51: A61K; A61P
71: LUPIN LIMITED
72: BHONDE, Mandar Ramesh, PALLE, Venkata P., KAMBOJ, Rajender Kumar
33: IN 31: 201921042899 32: 2019-10-22
54: PHARMACEUTICAL COMBINATION OF PRMT5 INHIBITORS
00: -
This disclosure relates to pharmaceutical combinations for treating and/or preventing cancer and methods and uses thereof. More particularly, provided are pharmaceutical combination comprising a PRMT5 Inhibitor and a cellular activity modulator selected from an EGFR inhibitor, a KRAS inhibitor, a KRAS-G12C inhibitor, a MEK inhibitor, a Bcl-2 inhibitor, a SOS1 inhibitor, a PARP inhibitor, a RAF inhibitor, a ERK inhibitor, a CDK4/6 inhibitor, a MALT1 inhibitor, a BTK inhibitor, MAT2A inhibitor, a PI3K inhibitor, a AKT inhibitor, a FGFR inhibitor, a Type I PRMT inhibitor, a STING agonist, or an immune checkpoint inhibitor/modulator.

21: 2022/03776. 22: 2022/04/01. 43: 2022/10/17
51: A61K
71: Trevena, Inc.
72: DEMITRACK, Mark A., KRAMER, Michael S.
33: US 31: 62/896,116 32: 2019-09-05
54: METHODS OF TREATING EPILEPSY USING THE SAME
00: -
The present embodiments are directed, in part, to compounds, or pharmaceutically acceptable salts thereof, or pharmaceutical compositions thereof for modulating the activity of S1P1 receptor and methods of using the same for the treatment of seizures, epilepsy related conditions, epilepsy-related syndrome, and the like as described herein.

21: 2022/03915. 22: 2022/04/06. 43: 2022/10/18
51: H02K
71: U.T.T. UNIQUE TRANSFORMER TECHNOLOGIES LTD.
72: BOLOTINSKY, Yuri, ADAR, Eliezer
33: IL 31: 269253 32: 2019-09-10
54: THREE-PHASE ASYNCHRONOUS ELECTRIC MACHINE AND METHOD OF MANUFACTURE THEREOF
00: -
Disclosed are axial-gap electrical machines which magnetic core elements are made of wound magnetic ribbons to provide relatively lightweight and small size implementations that can be operated in a wide range of operational modes with minimized magnetic and electrical losses. The axial-gap electrical machine comprise a cylindrically-shaped stator assembly having a central passage passing there along, a rotatable shaft passing within the central passage of the stator assembly coaxial to the axis of rotations of the electric machine, and one or two annular rotor assemblies concentrically attached to the shaft and magnetically coupled to the at least one cylindrically-shaped stator assembly. The stator assembly can have a plurality of prism-shaped magnetic core elements made from a plurality of magnetic ribbon layers extending along its length, and a primary winding comprising a plurality of coils mounted over the prism-shaped magnetic core elements. Each rotor assembly can have a toroidal-shaped magnetic core element made from a spiral wound of magnetic ribbon, and a secondary (short-circuit) winding comprising a spider-shaped electrically conducting structure having a plurality of electrically conducting spokes radially extending between concentric inner and outer electrically conducing rings electrically connected to said spokes.

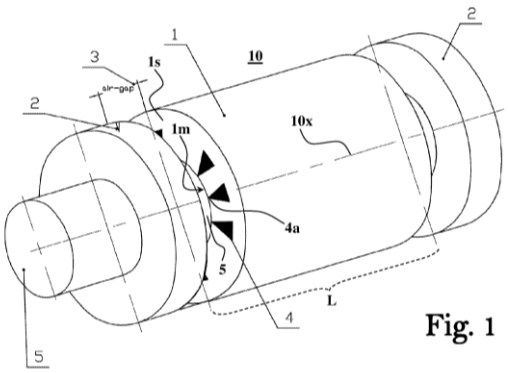
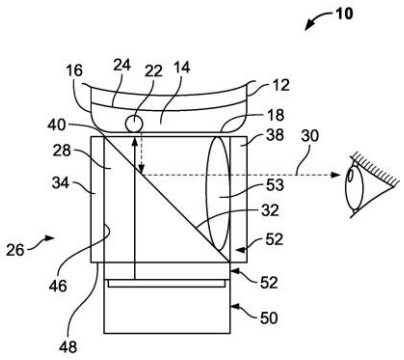


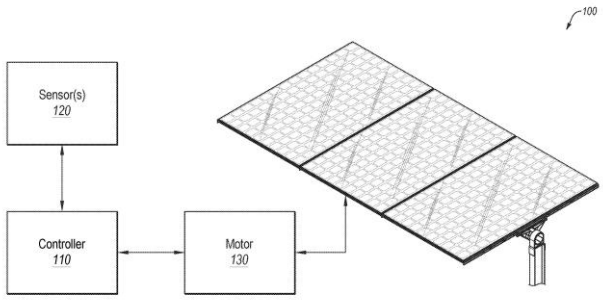
Fig. 1

21: 2022/03929. 22: 2022/04/06. 43: 2022/10/19
51: G01N
71: Amgen Inc.
72: MILNE, Graham F., FRADKIN, Dmitry
33: US 31: 62/949,119 32: 2019-12-17
54: CONTAINER VISUAL INSPECTION ASSEMBLY AND METHOD
00: -
Assemblies (10), devices, and methods are described herein that allow an examiner to inspect a container (12) of liquid product (14) through a bottom wall (18) of the container using a line-of-sight diversion member (28, e.g. beam splitter, mirror or prism). In some forms, the assemblies described herein can be provided with mounts and connecting arms to couple the devices to inspection booths.

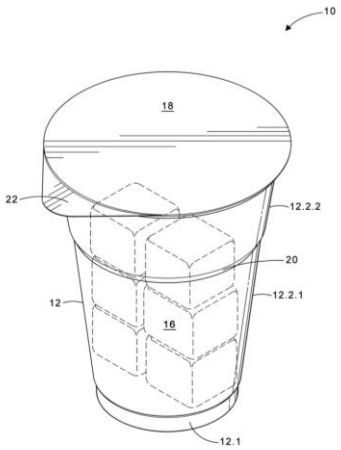


21: 2022/03930. 22: 2022/04/06. 43: 2022/10/19
51: F24S; G05D; H02S
71: Array Technologies, Inc.
72: LEE, Kyumin, CREASY, Lucas, SHARP, Jon, TOMASSON, Lars, GUR, Sourav
33: US 31: 62/909,756 32: 2019-10-02
33: US 31: 62/909,755 32: 2019-10-02
54: SOLAR TRACKING SYSTEM
00: -

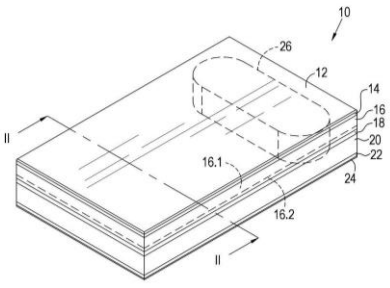
A method may include orienting a set of solar power units in a first position in which rows of solar power units are shaded by adjacent rows of solar power units; and monitoring energy generated by the set of solar power units over a window of time, that includes from when the set of solar power units are oriented in the first position until a sun angle corresponds to none of the rows being shaded by the adjacent rows. The method may include identifying a knee in energy generation during the first window of time, where the knee indicates a transition from higher to lower rates of change of energy generation at a given solar angle. The method may include plotting a trajectory of future orientation positions over time of the set of solar power units that include an orientation and time corresponding to the given solar angle.



21: 2022/03960. 22: 2022/04/07. 43: 2022/10/18
51: B65D
71: BRITZ, Jacques, BRITZ, Pierre
72: BRITZ, Jacques, BRITZ, Pierre
33: ZA 31: 2021/02803 32: 2021-04-28
54: CONTAINERS
00: -
The invention is for a drinking container, which includes a container body having an opening for drinking therefrom, the container body shaped and configured to receive a volume of beverage therein when in use, at least one piece of ice disposed within the container body, for cooling the beverage when the beverage is added to the body and a sealing member closing off the opening to the container body, such that the ice is prepacked within the container body. The sealing member is in the form of a non-resealable sealing member, which is not intended to be resealed to the container opening once opened. The container body comprises a base having at least one side wall extending from an outer rim of the base with the side wall providing an upper periphery that defines the opening for receiving the sealing member.

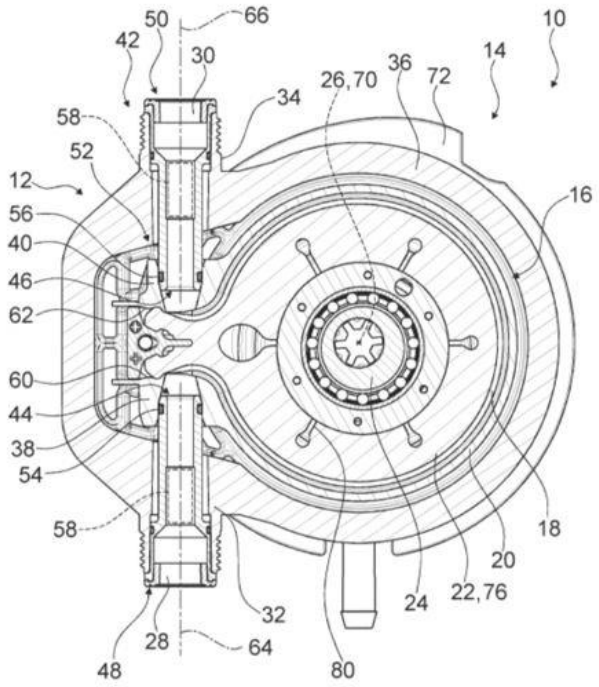


21: 2022/03961. 22: 2022/04/07. 43: 2022/10/17
51: B41M; B41N; G03F
71: PMD Dies & Stereos Proprietary Limited
72: ZEVENBERGEN, LEON MARE (Deceased)
33: ZA 31: 2021/02311 32: 2021-04-08
54: FLEXOGRAPHIC PRINTING
00: -
A flexographic printing plate (10) includes a layer (16) of a sheet photopolymer and a layer (20) of a compressible substrate attached or bonded to the photopolymer layer (16). The invention extends to a flexible printing plate and a flexible relief printing plate suitable for use in flexographic printing, to a method of preparing a flexible relief printing plate and to a flexographic printing process.



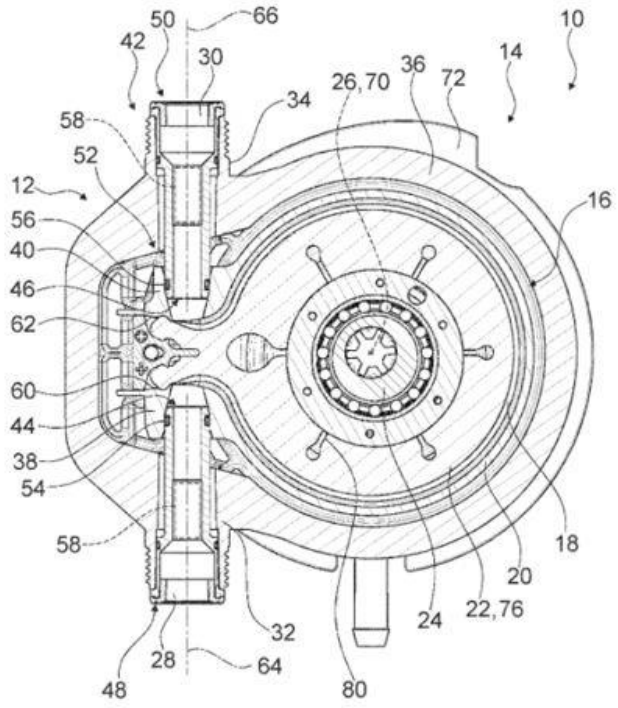
21: 2022/03977. 22: 2022/04/07. 43: 2022/10/12
51: F04B; F04C
71: WATSON MARLOW GMBH
72: Dr. Alois KRUTZENBICHLER, Lars FREIHERR VARNBÜLER VON UND ZU HEMMINGEN-REDSCHLAG, Raymond RITSCHKA, Nico HAUG

33: DE 31: 10 2019 128 680.8 32: 2019-10-23
54: PUMP WITH A CONVEYOR DEVICE AT LEAST FOR CONVEYING A FLUID AND SUCH A CONVEYOR DEVICE
00: -
The invention relates to a pump at least for conveying a fluid, comprising at least one conveyor device which has at least one conveyor chamber (18), at least one dimensionally stable conveyor chamber element (20) that at least partly delimits the conveyor chamber (18), and at least one elastically deformable conveyor element (22) that together with the conveyor chamber element (22) delimits the conveyor chamber (18) and is arranged on the conveyor chamber element (22); at least one drive unit (16) for acting on the conveyor device; and at least one housing (14) for receiving the conveyor device, wherein the housing (14) is formed at least separately from the conveyor chamber element (20) of the conveyor device, in particular from the conveyor device as a whole, in particular such that the conveyor chamber element (20), in particular the conveyor device, can be removed as a whole from the housing (14). According to the invention, the conveyor chamber element (20) has an outer face which is connected to an inner face of the housing (14) in a force- and/or form-fitting manner when the conveyor device is arranged on the housing (14), in particular the outer face rests against the inner face of the housing (14) when the conveyor device is arranged on the housing (14), and the conveyor chamber element (20) at least largely surrounds the conveyor element (22) along a circumferential direction running on a plane extending at least substantially perpendicular to the drive axis (70) of the drive unit (16).



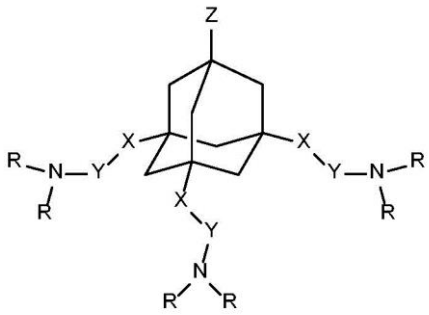
21: 2022/03979. 22: 2022/04/07. 43: 2022/10/12
51: F04B; F04C
71: WATSON MARLOW GMBH
72: Dr. Alois KRUTZENBICHLER, Lars FREIHERR VARNBÜLER VON UND ZU HEMMINGEN-REDSCHLAG, Raymond RITSCHKA, Nico HAUG
33: DE 31: 10 2019 128 682.4 32: 2019-10-23
54: CONVEYOR DEVICE AT LEAST FOR CONVEYING A FLUID AND PUMP COMPRISING SUCH A CONVEYOR DEVICE
00: -
The invention relates to a conveyor device at least for conveying a fluid, comprising at least one conveyor chamber (18), at least one dimensionally stable conveyor chamber element (20) which is formed separately from a housing (14) in particular and at least partly delimits the conveyor chamber (18), and at least one elastically deformable conveyor element (22), in particular a conveyor membrane, which together with the conveyor chamber element (20) delimits the conveyor chamber (18) and is arranged on the conveyor chamber element (20). The conveyor chamber element (20) comprises at least one connecting piece (38) for a fluid supply line adapter (28), which is designed to differ from a tube in particular, and/or at least one connecting piece (40), in particular an additional connecting piece, for a fluid discharge line adapter (30), which is designed to differ from a tube

in particular, said connecting piece/connecting pieces being arranged on a conveyor chamber element (20) face facing away from the conveyor element (22), in particular on the exterior of the conveyor chamber element. According to the invention, the conveyor device comprises at least one movement compensation unit (52) which is at least designed to at least partly compensate for and/or damp relative movements between the fluid supply line adapter (28) and the connecting piece (38) when the connecting piece (38) is connected to the fluid supply line adapter (28) and/or to at least partly compensate for and/or damp relative movements between the fluid discharge line adapter (30) and the connecting piece (40), in particular the additional connecting piece (40), when the connecting piece (40), in particular the additional connecting piece, is connected to the fluid discharge line adapter (30).



21: 2022/03990. 22: 2022/04/07. 43: 2022/10/18
51: C07C
71: Ustav organicke chemie a biochemie AV CR, v. v. i.
72: CIGLER, Petr, GRANTZ SASKOVA, Klara, VANEK, Vaclav, KRUZIKOVA, Zuzana, SEDLAK, Frantisek
33: CZ 31: PV 2020-529 32: 2020-09-23

54: LIPIDOIDS FOR NUCLEIC ACID TRANSFECTION AND USE THEREOF
00: -
The subject of the present invention is a lipidoid of general formula (I), wherein X, Y, Z and R are as defined in the claims. This lipidoid is useful as a transfection agent. The invention further describes transfection agents, transfection particles containing this lipidoid, and their use.



(I)

21: 2022/03991. 22: 2022/04/07. 43: 2022/10/18
51: A23L
71: Di Bartolo Srl
72: DI BARTOLO, Rosario
33: IT 31: 102019000016880 32: 2019-09-20
54: SEMI-FINISHED POWDERY FOOD PRODUCT BASED ON VEGETABLE FOOD AND A PROCESS FOR PRODUCTION THEREOF
00: -
The invention relates to a powder and dehydrated product essentially comprising, or consisting of, a food of plant origin with a lipid content of at least 30% by weight, and a water-soluble bulking agent. The invention also relates to a process for preparing this powder product.

21: 2022/04026. 22: 2022/04/08. 43: 2022/10/18
51: B32B; C04B; E04F
71: I4F LICENSING NV
72: BOUCKÉ, Eddy Alberic
33: NL 31: 2024193 32: 2019-11-08
54: DECORATIVE PANEL SUITABLE FOR ASSEMBLING A FLOOR, CEILING OR WALL COVERING BY INTERCONNECTING A PLURALITY OF SAID PANELS WITH EACH OTHER, AND DECORATIVE COVERING OF SUCH INTERCONNECTED PANELS
00: -

The invention relates to a decorative panel suitable for assembling a floor, ceiling or wall covering by interconnecting a plurality of said panels with each other, wherein the panel has a substantially planar top surface, and a substantially planar bottom surface, at least four substantially linear side edges of which at least one pair of side edges are provided with interconnecting coupling means for interconnecting one panel with another, the panel having a laminated structure comprising a core layer having an upper side and a lower side and a decorative top layer connected to the upper side of the core layer, wherein the core layer comprises a layer of a cementitious mineral material which includes a cement and a dispersant. The invention further relates to a decorative covering, in particular a decorative floor covering, decorative ceiling covering, or decorative wall covering, comprising a plurality of interconnected decorative panels.

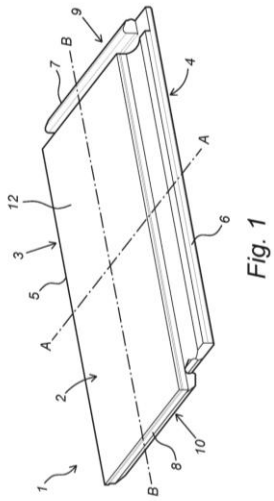
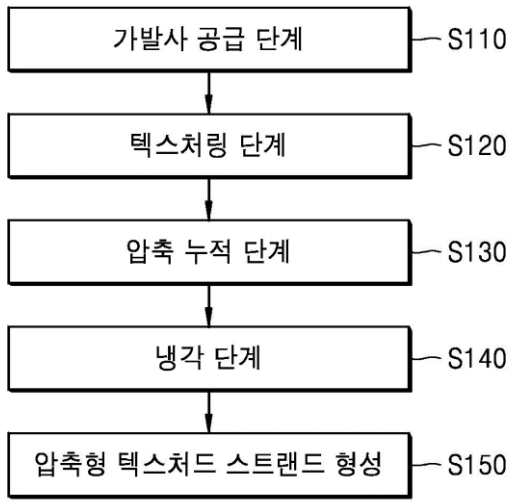


Fig. 1

21: 2022/04047. 22: 2022/04/11. 43: 2022/10/18
51: A61K
71: PHARMATHEN S.A.
72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI, Anastasia, KIZIRIDI, Christina, DRAGANOUDI, Christina
54: PHARMACEUTICAL COMPOSITION COMPRISING AN ANTICOAGULANT AGENT AND METHOD FOR THE PREPARATION THEREOF
00: -
The present invention relates to a stable hard capsule formulation including an anticoagulant agent such as Dabigatran etexylate mesylate and to a process for the preparation thereof.

21: 2022/04092. 22: 2022/04/11. 43: 2022/10/17
51: A61K; A61P; C07D
71: F. Hoffmann-La Roche AG
72: DOLENTE, Cosimo, HEWINGS, David Stephen, HUNZIKER, Daniel, KRUMMENACHER, Daniela, PETTAZZONI, Piergiorgio Francesco Tommaso, WICHMANN, Juergen
33: EP(CH) 31: 19214867.4 32: 2019-12-10
54: NEW BRAF INHIBITORS AS PARADOX BREAKERS
00: -
The invention provides a novel compound having the general formula (I) (I) wherein R^1-R^3 and X are as defined in the description and in the claims. The compound of formula (I) can be used as a medicament.

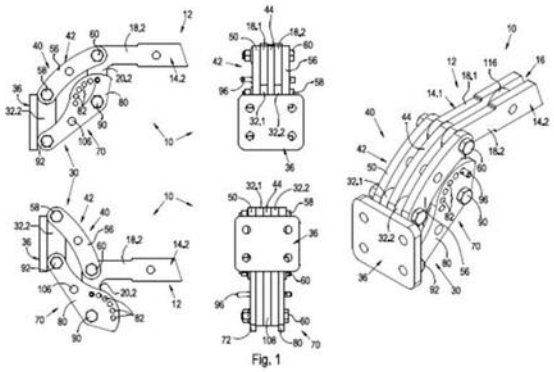
21: 2022/04097. 22: 2022/04/11. 43: 2022/10/10
51: A41G
71: LEE, Hae Ju
72: LEE, Hae Ju
33: KR 31: 10-2020-0130478 32: 2020-10-08
54: COMPRESSION TYPE STRAND OF TEXTURED FILAMENT FOR WIGS AND METHOD FOR PRODUCTION OF THE SAME
00: -
Provided are a compression-type textured strand for a wig and a method for manufacturing same. The compression-type textured strand for a wig is carried in a compressed form and, by rapid application of tension thereto before it is worn, is enabled to recover its external shape. Therefore, the strand can satisfy both the economic feasibility of the logistics process and the aesthetic sensation when it is worn.



S110 ... Wig thread supply step
S120 ... Texturing step
S130 ... Compression accumulation step
S140 ... Cooling step
S150 ... Form compression-type textured strand

21: 2022/04098. 22: 2022/04/11. 43: 2022/10/17
51: B09B; B29B; C08J; C08L
71: Fater S.p.A.
72: D'ALESSIO, Nicola, CARUSO, Tonino
33: IT 31: 102019000025570 32: 2019-12-24
54: A METHOD FOR SEPARATING AND RECOVERING SUPER-ABSORBENT POLYMERS (SAP) FROM POST-CONSUMER ABSORBENT SANITARY PRODUCTS
00: -
A method for separating the fraction of super-absorbent polymers (SAP) from post-consumer absorbent sanitary products, said post-consumer absorbent sanitary products further comprising at least one cellulose fraction and one plastic fraction. The method comprises at least the steps of sterilizing the post-consumer absorbent sanitary products and treating said post-consumer absorbent sanitary products by immersion in a bath with an aqueous solution containing at least one oxidizing compound. The oxidizing compound is preferably selected from the group consisting of sodium persulfate, potassium persulfate, ammonium persulfate, potassium monopersulfate, and hydrogen peroxide; preferably hydrogen peroxide. The treatment by immersion allows cross-link cleavage and solubilizing of the SAP contained in said post-consumer absorbent sanitary products, and obtaining a suspension comprising i) a solid fraction and ii) a liquid fraction, wherein the liquid fraction comprises linear polyacrylate (LPA) derived from the cross-link cleavage and solubilization of SAP.

21: 2022/04125 22: 2022/04/12 43: 2022/10/19
51: B60D
71: STYLE, Leon Edward
72: STYLE, Leon Edward
54: **ADJUSTABLE TOW BAR LOAD STABILISER**
57: An adjustable tow bar load stabiliser is provided, comprising a front vehicle fitting arrangement having a pair of spaced apart L-shaped vehicle fitting plates that define a gap therebetween, each L-shaped vehicle fitting plate comprising an operatively horizontally extending plate that extends towards the vehicle and an operatively downwardly extending plate that is spaced away from the vehicle. The tow bar load stabilizer further comprises a rear tow arrangement to receive a hitch of an accessory to be towed, the rear tow arrangement comprising a pair of spaced apart, operatively vertically extending tow support plates that define a gap therebetween, and a tow securing plate to which a tow ball can be secured to accommodate the hitch of the accessory. The load stabilizer further comprises a support and guiding arrangement between the front and rear arrangements, to mechanically connect the front and rear arrangements together and to allow the rear arrangement to be adjusted relative to the front arrangement.

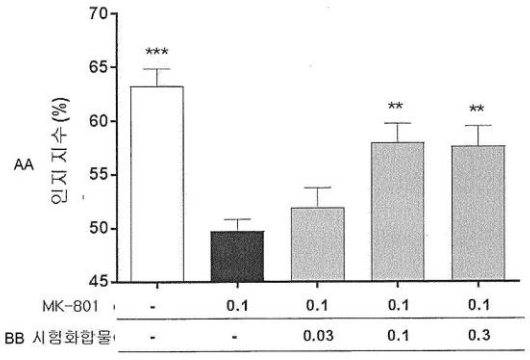

Fig. 1

21: 2022/04136. 22: 2022/04/12. 43: 2022/10/19
51: A61K; C07D; A61P
71: SK BIOPHARMACEUTICALS CO., LTD.
72: CHUNG, Jin Yong, JOUNG, Chan Mi
33: KR 31: 10-2019-0130384 32: 2019-10-21
54: USE OF IMIDAZOPYRIMIDINE OR IMIDAZOTRIAZINE COMPOUNDS FOR

PREVENTION, ALLEVIATION, OR TREATMENT OF COGNITIVE DISORDERS, OR FOR IMPROVING COGNITIVE FUNCTION

00: -

The present invention relates to a use of imidazopyrimidine or imidazotriazine compounds of Chemical Formula 1, or pharmaceutically acceptable salts, solvates, or hydrates thereof, for preventing, alleviating or treating cognitive disorder or for improving enhancing cognitive function.



CC ***: P<0.001, MK-801 단독 투여군과 비교해서 통계적 유의성 있음
DD **: P<0.01, MK-801 단독 투여군과 비교해서 통계적 유의성 있음

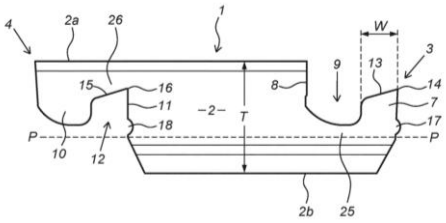
AA ... Recognition index
BB ... Test compound
CC ... P<0.001, MK-801 statistically significant compared to single administration group
DD ... P<0.01, MK-801 statistically significant compared to single administration group

21: 2022/04138. 22: 2022/04/12. 43: 2022/10/19
51: E04F
71: I4F LICENSING NV
72: SETTELS, Daniël Casper
33: NL 31: 2024191 32: 2019-11-08

54: PANEL, IN PARTICULAR A FLOOR PANEL OR A WALL PANEL

00: -

Panel comprising at least one first coupling part, wherein the first coupling part comprises an upward tongue, at least one upward flank lying at a distance from the upward tongue and an upward groove formed in between the upward tongue and the upward flank, wherein the side of the upward tongue facing towards the upward flank is the inside of the upward tongue and the side of the upward tongue facing away from the upward flank is the outside of the upward tongue; wherein at least a part of an upper side of the upward tongue is inclined relative to the plane of the panel, such that the upper side of the upward tongue comprises a highest point, wherein the upward tongue has a width, wherein the highest point of the upward tongue is arranged less than 50% of the width from the outside of the upward tongue.

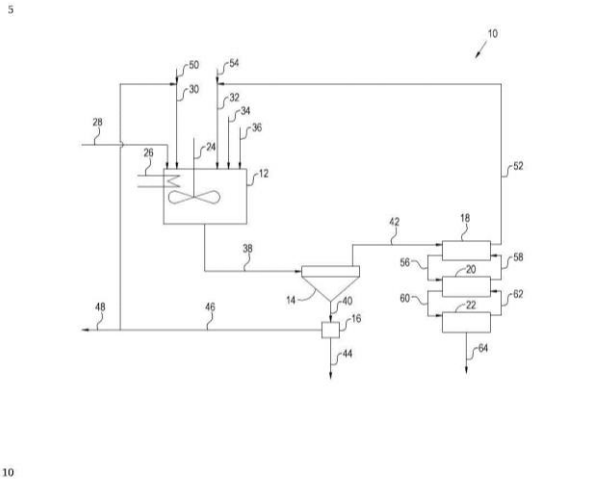


21: 2022/04224. 22: 2022/04/14. 43: 2022/10/18
51: C22B
71: NORTH-WEST UNIVERSITY
72: FOSSO-KANKEU, Elvis, NYEMBWE, Kolela, WAANDERS, Frans Boudewijn, MKANDAWIRE, Martin
33: ZA 31: 2021/02859 32: 2021-04-29

54: BENEFICIATION OF CHALCOPYRITE

00: -

A process (10) for the beneficiation of chalcopyrite to extract copper includes leaching (12) an admixture of particulate chalcopyrite and particulate magnetite in an acidified ferrous sulphate solution, in the presence of hydrogen peroxide, to obtain a pregnant leach solution (42) rich in copper and a leached solids residue (40).



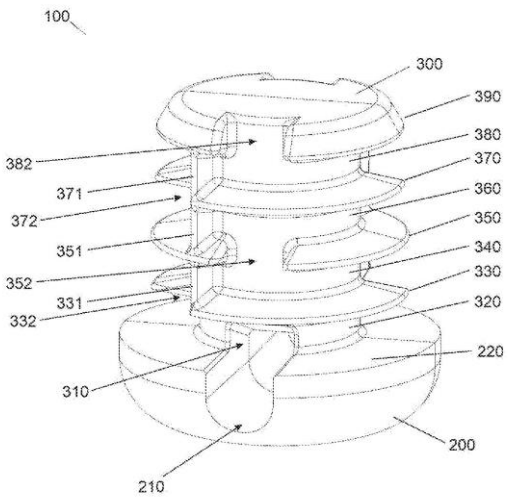
21: 2022/04267. 22: 2022/04/14. 43: 2022/10/18
51: H02K
71: WEG Equipamentos Elétricos S.A.

72: DA ROSA KAIZER, Gustavo, OSCAR CASTELLA, Milton, HENRIQUE NICOLAU, Paulo, BAGGIO, Tiago

54: DRAIN PLUG WITH PERIMETER LABYRINTH FOR CASINGS OF ROTARY ELECTRIC MACHINES AND CORRESPONDING CASING

00: -

The present invention relates to a drain plug (100) with a head (200) that includes at least one transverse through-hole (210) and at least one contact surface (220) concentric to the longitudinal axis of the drain plug (100), and also a body (300) that includes at least one transverse through-hole (310) adjacent and complementary to the transverse through-hole (210) of the head (200), at least one annular through-channel (320) having a peripheral platform (330) and delimited by the surface (220). The body (300) also has one or more sets of alternating fluid conveyance channels formed by alternating annular channels (340, 360, 380), perimeter platforms (330, 350, 370, 390), longitudinal walls (331, 351, 371) and longitudinal apertures (332, 352, 372, 382). The present invention also relates to a casing for a corresponding rotary electric machine.



21: 2022/04273. 22: 2022/04/14. 43: 2022/10/21
51: C07D; A61K; A61P
71: FUJIAN AKEYLINK BIOTECHNOLOGY CO., LTD.
72: CAI, ZHE, SUN, FEI, DING, CHARLES Z
33: CN 31: 201910887908.1 32: 2019-09-19

54: CRYSTAL FORM OF HEPATITIS B SURFACE ANTIGEN INHIBITOR AND APPLICATION THEREOF

00: -

A crystal form of a hepatitis B surface antigen inhibitor and a preparation method, and an application of the crystal form in the preparation of the hepatitis B surface antigen inhibitor.

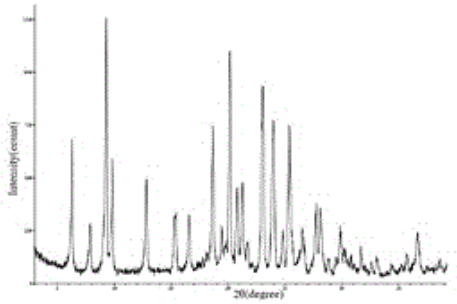
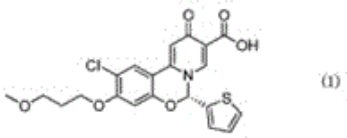


Fig.1



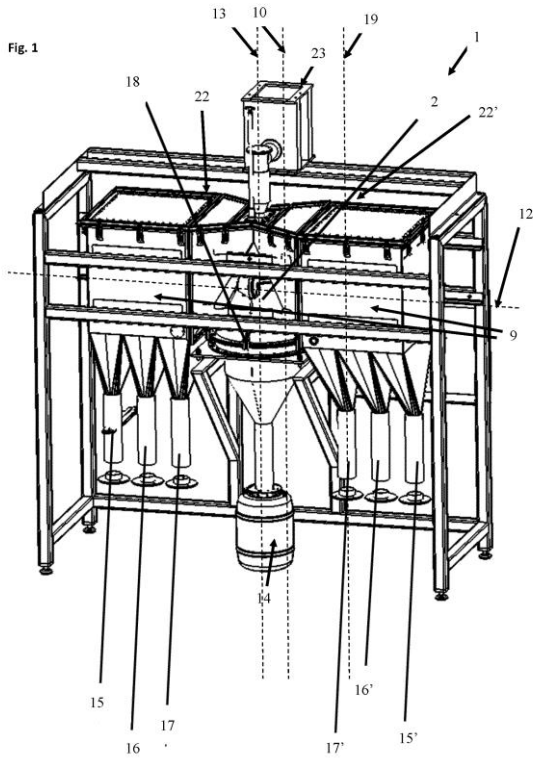
21: 2022/04283. 22: 2022/04/14. 43: 2022/10/18
51: B04C; B07B
71: VALUE ASH TECHNOLOGIES NV, VITO NV
72: GEURTS, Roeland, SNELLINGS, Ruben, LOOTS, Michel, ZYRYANOV, Vladimir
33: EP 31: 19020552.6 32: 2019-10-03

54: DEVICE FOR SORTING POWDER PARTICLES

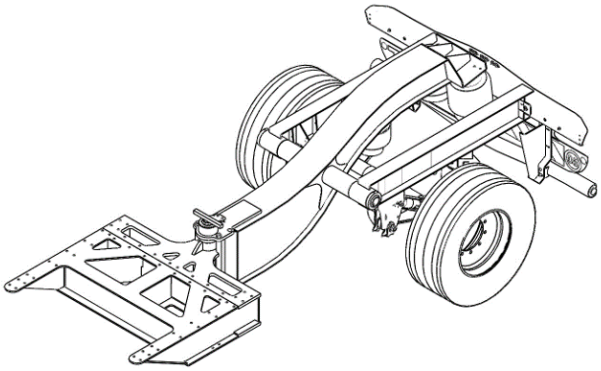
00: -

The present invention relates to a device (1) for sorting powder particles into ranges of particles according to one or more of a density, size and/or shape of the particles, wherein the device (1) comprises a particle sorting chamber (2) with at least one sloping side wall (3), which side wall (3) slopes from a lower part (4) of the sorting chamber (2) towards an upper part (5) thereof, wherein the lower part (4) of the sorting chamber (2) is larger dimensioned than the upper part (5), wherein at the upper part (5) of the particle sorting chamber (2) an inlet (6) is provided for supplying a flow of the powder particles to be sorted to the sorting chamber (2), wherein a particle outlet (7) is provided in the upper part (5) of the sorting chamber (2) for conducting sorted particles from the sorting chamber

(2) through a duct (8) to at least one particle sedimentation classifier (9), wherein in the lower part (4) of the sorting chamber (2) means (11) are provided for generating an upward rotating gas flow in the sorting chamber (2), the rotating gas flow having a rotation axis which corresponds to an upward axis (10) of the sorting chamber (2).



21: 2022/04359. 22: 2022/04/19. 43: 2022/10/18
51: B62D
71: ROUTE HOLDINGS (PTY) LTD
72: BURGER, Marco
54: AUXILIARY TRAILER
00: -
An auxiliary trailer is disclosed having a front body section with a coupler arranged to be hitched to a hitch of a main vehicle. The coupler and hitch inhibits vertical movement of the front body relative to the main vehicle. A rear body section of the trailer includes an axle connected to the front body section about a hinge connection. The hinge has a pivot axis parallel to the axle. The front body section includes a serpentine drawbar beam of which a first end extends rearward from the coupler in the direction of the rear body section, and a second end terminates above and proximate a rear end of the rear body section. The hinge is positioned between the first and second end of the serpentine drawbar beam. The serpentine drawbar beam or the rear body section includes linear actuators arranged to exert a variable force on the other.



21: 2022/04418. 22: 2022/04/20. 43: 2022/10/18
51: A47B; A47G
71: HATTON-JONES, Ronald Joseph
72: HATTON-JONES, Ronald Joseph
54: ADJUSTABLE SUPPORT TRAY FOR A TELEVISION SET
00: -
An adjustable support tray for a television set (TV) is provided. The adjustable support tray comprises a substantially flat tray body (to support a device or appliance on top of the TV); a support plate fitted to the operatively underside of the tray body, the support plate being adapted to be supported on top of the TV, the support plate being slidably movable relative to the tray body; first fastening means to secure the support plate relative to the tray body; a rear support arm fitted to an operatively rear side of the tray body, the rear support arm being angled towards an operatively front side of the tray body, to ultimately, in use abut against a rear face of the TV, the rear support arm being slidably movable relative to the tray body; and second fastening means to secure the rear support arm relative to the tray body.

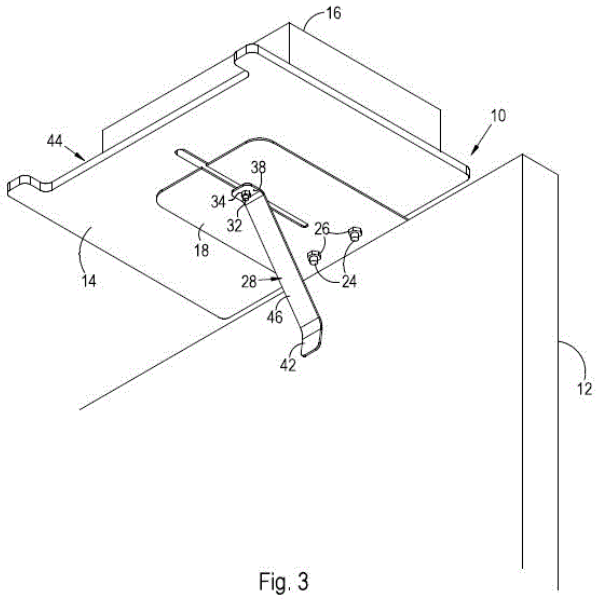


Fig. 3

21: 2022/04444. 22: 2022/04/20. 43: 2022/10/19
51: C08K; C08L
71: Green Whale Global Co., Ltd.
72: NHAN CHI, Ha Thuc, HWANG, Jiyoung
33: KR 31: 10-2019-0130936 32: 2019-10-21
54: RENEWABLE RESIN COMPOSITION AND PRODUCT MANUFACTURED FROM SAME
00: -
Proposed are a renewable resin composition and a product manufactured therefrom, wherein the recyclable resin composition comprises: 100 parts by weight of cassava starch; 100 to 200 parts by weight of polybutylene succinate (PBS); 20 to 120 parts by weight of poly(butylene adipate-co-terephthalate) (PBAT); and 10 to 40 parts by weight of a plasticizer.

21: 2022/04456. 22: 2022/04/21. 43: 2022/10/19
51: B01J; B29D
71: NORTHSWAN ENGINEERING (PTY) LTD.
72: NORTHING, Warren John
54: AN AUTOCLAVE
00: -
The invention relates to an industrial autoclave used for curing rubber. The autoclave 10 includes a hollow outer body 12 for receiving a product. It also includes a pair of oil-based heat exchangers 14.1, 14.2 which are disposed in passageways 15.1, 15.2 defined by a pair of ducts 17.1, 17. The heat exchangers are connected in parallel to one another in fluid flow communication to a supply of heated oil. Each heat exchanger 14 includes a plurality of serially interconnected, parallel finned radiators 19 which allow passage of the oil therethrough facilitating heat transfer to air passing over the radiators. A fan 20 ensures air circulation. This autoclave 10 is a non-pressurized system with very little wear properties, no risk of fire, no need for a condensate tank and no water treatment is required. In addition, a considerable saving in terms of power consumption is made when compared to electrical autoclaves.

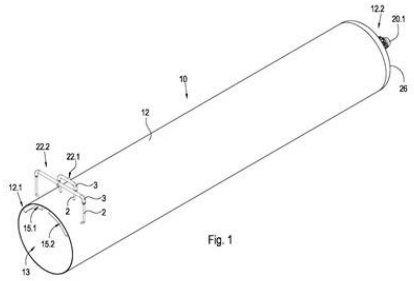


Fig. 1

21: 2022/04629. 22: 2022/04/25. 43: 2022/10/18
51: B26D; B26F; G05B
71: ROTA LASER DIES S.R.L.
72: DE FRANCESCHI, Adriano, LEOTTA, Francesco, MECELLA, Massimo, VISANI, Marco
33: IT 31: 102019000020028 32: 2019-10-30
54: SYSTEM FOR MONITORING CUTTING DEVICES IN A PACKAGING PRODUCTION LINES
00: -
The present invention relates to a system (1000) for monitoring cutting devices in a packaging production line, comprising a line for supplying a material to be cut, an area of a predetermined material cutting device (200), and a packaging output line; the system (1000), being characterized in that it comprises: means (210) for counting the cutting actions of the cutting device (200); a video camera (100) positioned so as to frame an area of said output line, the video camera (100) being configured to provide video data of said packaging in said area; first code means, configured to run, on a computer (300), a first algorithm for recognizing cutting defects starting from said video data, said first algorithm providing defect recognition data; second code means, configured to run, on said computer (300), a trained expert algorithm to predict a cutting performance degradation on the basis of the defect

recognition data, the time series of the cutting action counting data, as well as on the basis of said predetermined type of cutting device (200).

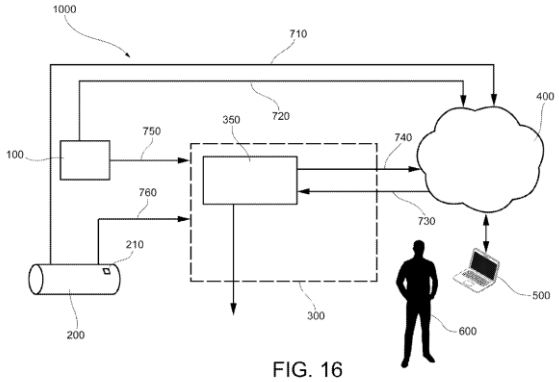
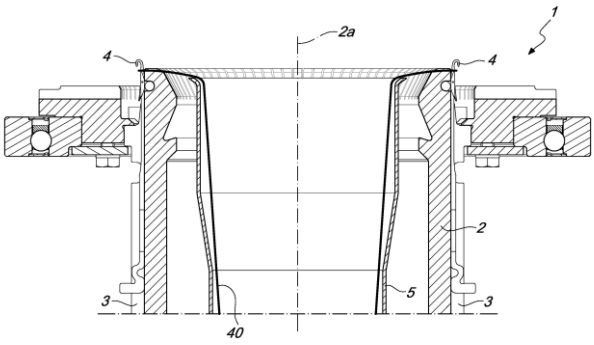


FIG. 16

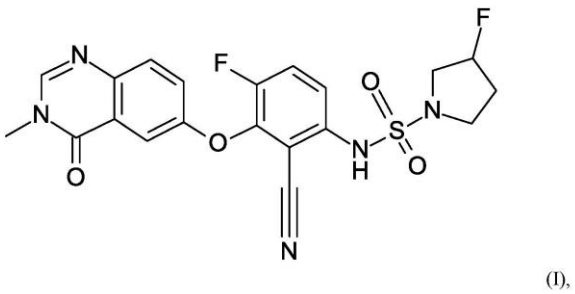
21: 2022/04661. 22: 2022/04/26. 43: 2022/10/17
51: E04C
71: KUSE, Kolja
72: KUSE, Kolja
33: DE 31: 20 2019 004 090.0 32: 2019-10-03
33: DE 31: 20 2020 000 730.7 32: 2020-02-22
54: SUPPORT MADE FROM STONE AND TENSION-RESISTANT MATERIAL
00: -
The invention describes a girder profile made of stone material and tensile-resistant material, which is preferably made of CO2 in order to fix greenhouse gases. This is intended to replace steel girders and aluminum girders with sustainable building materials. The invention adopts the principle of dovetailing from timber construction and transfers this principle to the structure made of stone material and fiber material, in that the planes of the profile, which usually meet orthogonally, overlap geometrically with regard to the tension-stable material parts or at least meet in one cutting plane. Such materials made of mineral substances and fibrous materials are significantly lighter, more durable and more ecological than such carriers made of metallic materials.

21: 2022/04670. 22: 2022/04/26. 43: 2022/10/21
51: D04B
71: Lonati S.p.A.
72: LONATI, Ettore, LONATI, Fausto, LONATI, Francesco
33: IT 31: 102020000006142 32: 2020-03-24
54: CIRCULAR HOSIERY KNITTING MACHINE FOR MANUFACTURING TUBULAR ITEMS
00: -
A circular hosiery knitting machine (1) comprising a needle cylinder (2) which can be actuated with a rotary motion about its own axis (2a), arranged vertically, and on the skirt of which there is a plurality of axial grooves (3), each accommodating a needle (4), a tubular body (5) being arranged internally and coaxially to the needle cylinder (2) and being adapted to receive the manufactured item (40) during its forming; the tubular body (5) is supported so that it can slide along an axial direction within the needle cylinder (2) in order to pass from at least one inactive position, in which it is arranged with its upper end at the same level or at a lower level with respect to the upper end of the needle cylinder (2), to at least one active position, in which it protrudes with its upper end from the upper end of the needle cylinder (2). The machine (1) further comprises actuation means (10) which act on command on the tubular body (5) in order to actuate its axial movement with respect to the needle cylinder (2), the actuation means (10) being associated with means for controlling the speed of the tubular body (5) along its axial movement from the inactive position to the at least one active position.



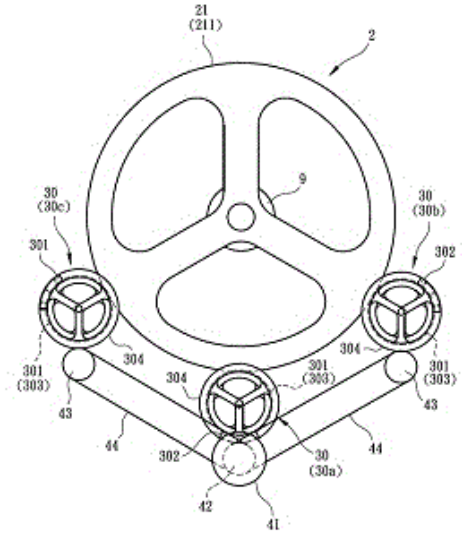
21: 2022/04675. 22: 2022/04/26. 43: 2022/10/17
51: A61K; A61P; C07D
71: F. Hoffmann-La Roche AG
72: DOLENTE, Cosimo, HEWINGS, David Stephen, HUNZIKER, Daniel, KRUMMENACHER, Daniela, PETTAZZONI, Piergiorgio Francesco Tommaso, WICHMANN, Juergen
33: EP(CH) 31: 19214941.7 32: 2019-12-10
54: NEW METHYLQUINAZOLINONE DERIVATIVES
00: -
The invention provides a novel compound having the general formula (I) (I), or a pharmaceutically

acceptable salt thereof. The compound of formula (I) can be used as a medicament.



(I),

21: 2022/04710. 22: 2022/04/28. 43: 2022/10/31
51: F03G; H02K
71: HSU, PO-CHI, HSU CHU, YU-LIEN, HSU, CHIA MING
72: HSU, PO-CHI, HSU CHU, YU-LIEN, HSU, CHIA-MING
33: TW 31: 110115606 32: 2021-04-29
54: DRIVE DEVICE WITH MULTIPLE SWINGING BLOCKS DRIVINGLY CONNECTED WITH EACH OTHER
00: -
A drive device with multiple swinging blocks drivingly connected with each other includes a driven unit connected with a driven apparatus (such as a power generation motor or a generator), a driving unit drivingly connected with the driven unit and an actuating unit connected with the driving unit. The driven unit includes a flywheel. The driving unit includes three dynamic energy modules respectively connected with the flywheel at intervals. Each dynamic energy module has a gear engaged with the flywheel and a swinging block disposed on the gear. There is a 120-degree angle difference between the corresponding angular positions of each two adjacent swinging blocks. The actuating unit includes an actuating motor, a driving member driven by the actuating motor and connected with one of the dynamic energy modules and transmission members drivingly connected with the dynamic energy modules for driving the driven unit to together rotate.



21: 2022/04736. 22: 2022/04/28. 43: 2022/10/13
51: B60L; B60M
71: LIEBHERR-MINING EQUIPMENT COLMAR SAS
72: FORESTIER, Cédric, KUGELSTADT, Kai
33: DE 31: 10 2019 126 557.6 32: 2019-10-02
54: OVERHEAD LINE SYSTEM FOR CONSTRUCTION MACHINES FOR PIECE GOOD AND BULK MATERIAL TRANSPORT AND CONSTRUCTION MACHINE
00: -
The invention relates to an overhead line system for supplying electricity to the drive of one or more construction machines for piece good or bulk material transport, wherein the overhead line comprises at least one pair of lines which extend parallel along the route, carry current with opposing polarity and which can be electrically contacted by corresponding current collectors of the construction machines, characterized in that each line is provided at the end with at least one guide forming a feed channel for receiving the head of the current collector, the feed channel converging in the direction of the associated line.

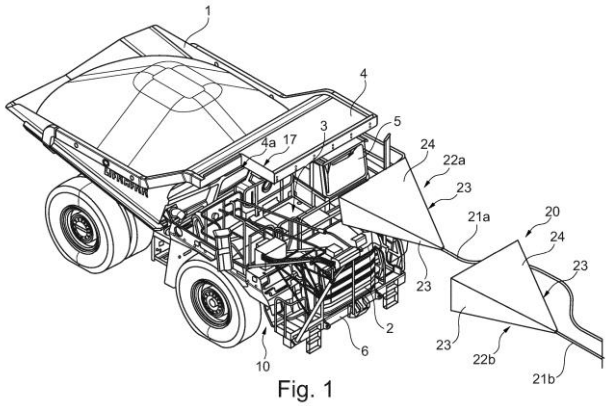
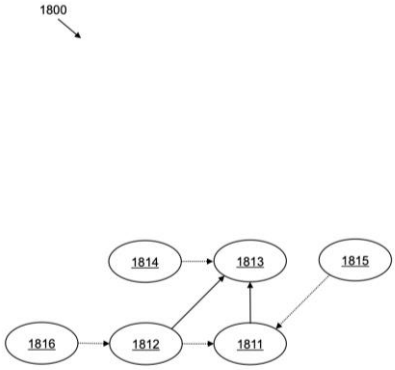
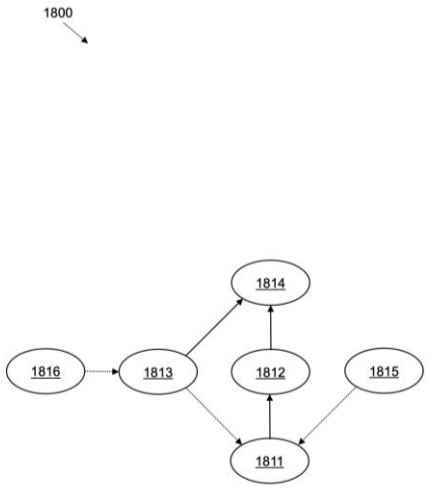


Fig. 1

21: 2022/04774. 22: 2022/04/29. 43: 2022/10/13
51: G06F
71: FEATURESPACE LIMITED
72: EXCELL, David, COOPER, Simon
33: WO 31: PCT/IB2021/060049 32: 2021-10-29
33: GB 31: 2115577.5 32: 2021-10-29
54: STORING AND SEARCHING FOR DATA IN DATA STORES
00: -
A data item is searched for in first and/or second data sets of a data store. If it is found in the first data set and if it was updated in the first data set after the second data set became an overlay of the first data set, first data stored in association with the data item in the first data set is returned. If it is found in the first and second data sets and if the second data set became an overlay of the first data set after the data item was updated in the first data set, second data stored in association with the data item in the second data set is returned. The second data set is identified based on overlay metadata, indicative of the second data set being an overlay of the first data set.



21: 2022/04775. 22: 2022/04/29. 43: 2022/10/13
51: G06F
71: FEATURESPACE LIMITED
72: COOPER, Simon
33: WO 31: PCT/IB2022/050896 32: 2022-02-02
33: GB 31: 2201328.8 32: 2022-02-02
54: STORING AND SEARCHING FOR DATA IN DATA STORES
00: -
A data item is searched for in first and/or second data sets of a data store. If it is found in the first data set and if it was updated in the first data set after the second data set became an overlay of the first data set, first data stored in association with the data item in the first data set is returned. If it is found in the first and second data sets and if the second data set became an overlay of the first data set after the data item was updated in the first data set, second data stored in association with the data item in the second data set is returned. The second data set is identified based on overlay metadata, indicative of the second data set being an overlay of the first data set.



21: 2022/04831. 22: 2022/04/13. 43: 2022/10/17
51: F27B; F27D; G05F; H05B
71: LENNOX, Jonathan Graeme, GREYLING, Frederik Petrus
72: LENNOX, Jonathan Graeme, GREYLING, Frederik Petrus
33: ZA 31: 2019/07850 32: 2019-11-27
54: DC BRUSH-ARC FURNACE WITH ARC DEFLECTION COMPENSATION
00: -
ABSTRACT The invention provides for a DC brush-arc furnace comprising a vessel 12 and first and second electrodes 16, 18. A first DC power supply 20 supplies power to the electrodes. A first conductor 26 extends parallel to the first electrode, so that a first current flows in a first direction through the first conductor and in a second opposite direction in the first electrode. A second conductor 28 extends parallel to the second electrode, so that the current flows in the first direction in the second electrode and in the second direction in the second conductor. An arc deflection compensation system 30 comprises a second DC power supply 32 and a compensation circuit 34 comprising a first compensation conductor 36 and a second compensation conductor 38. The second DC power supply causes a second current to flow through the first compensation conductor in the first direction and through the second compensation conductor in the second direction.

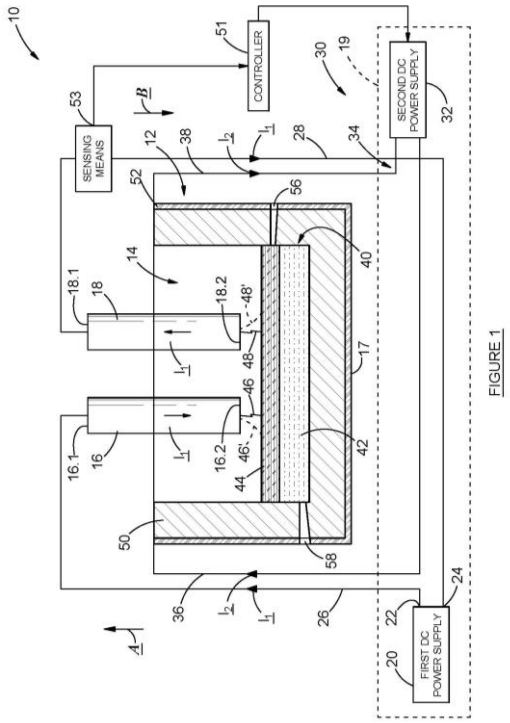
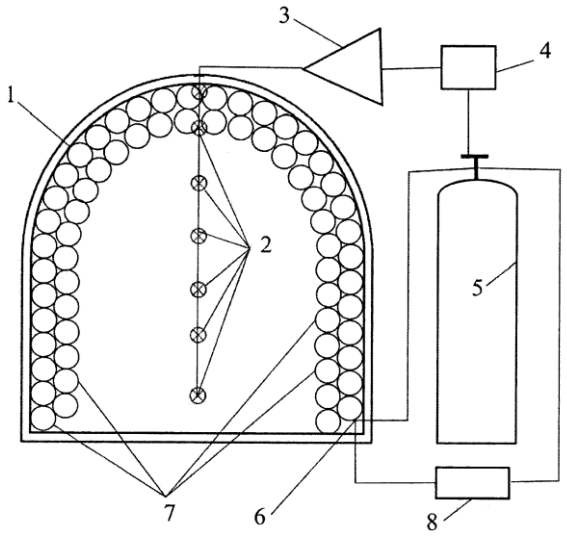


FIGURE 1

21: 2022/04850. 22: 2022/05/03. 43: 2022/12/07
51: F42D; G21C
71: STATE ATOMIC ENERGY CORPORATION "ROSATOM" ACTS ON BEHALF OF THE RUSSIAN FEDERATION
72: AGAFONOV, Gennadij Leonidovich, MEDVEDEV, Sergej Pavlovich, MIKHALKIN, Viktor Nikolaevich, NEKRASOV, Andrei Aleksandrovich, PETUKHOV, Vyacheslav Aleksandrovich, PETRUSHEVICH, Yurij Vasilevich, STAROSTIN, Andrej Nikonovich, TARAN, Mikhail Dmitrievich, KHOMIK, Sergej Viktorovich
33: RU 31: 2019134276 32: 2019-10-24
54: METHOD OF IMPROVING THE EXPLOSION SAFETY OF NUCLEAR POWER PLANTS
00: -
The invention relates to methods of decreasing the effect of blast loads on industrial spaces relating to, inter alia, nuclear power plant and large chemical manufacturing facilities. A method of improving explosion safety in closed spaces by attenuating the effect of a combustion wave or shock wave on a protected surface consists in placing obstructions before the protected surface in the form of elastic membranes filled with a flame-retardant substance. A non-flammable gas is used as the substance filling the membranes; the membranes themselves are made of a material that disintegrates during, and

under the action of, displacement of the front of a combustion wave or shock wave along the surface of the membranes. The membranes are filled with a non-flammable gas immediately after flammable gas is detected at a dangerous concentration in the space in front of the protected object. The technical result consists in increasing explosion safety, decreasing the effect that an explosive wave formed in an accidental explosion of fuel-air mixtures has on the walls and floors of protected spaces.



21: 2022/04892. 22: 2022/05/04. 43: 2022/11/04
51: C21D; C22C
71: ARCELORMITTAL
72: Pascal LORENZINI
33: IB 31: PCT/IB2019/060743 32: 2019-12-13
54: HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
00: -
A heat treated cold rolled steel sheet having a composition comprising of the following elements,0.1%≤Carbon≤0.25%,2.15%≤Manganese≤ 3.0%,1%≤Silicon≤0.8%, 0.1%≤Aluminum≤0.9%, 0.05%≤Chromium≤0.5%, 0%≤ Phosphorus≤0.09%, 0%≤Sulfur≤0.09%,0%≤Nitrogen≤0.09%, 2.4%≤C + Mn≤3%, 0%≤Niobium≤0.1%, 0% ≤Titanium≤0.1%, 0%≤Vanadium≤0.1%,0%≤Molybdenum≤1%,0%≤Nic kel≤1%, 0%≤Calcium ≤0.005%, 0% ≤ Boron ≤0.01%, 0% ≤ Cerium ≤ 0.1%, 0% ≤ Magnesium ≦ 0.05%,0% ≤ Zirconium ≦ 0.05% the remainder being composed of iron and unavoidable impurities, the microstructure of said steel sheet comprising, 20% to 70% Martensite, 5 to 60% of Inter-critical Ferrite, 5 to 30% of Transformed Ferrite, 8% to 20% of Residual Austenite and 1 to 20% Bainite, wherein the cumulated amount of Inter-critical and Transformed Ferrite is between 15% and 65%.

21: 2022/04917. 22: 2022/05/05. 43: 2022/11/09
51: G01R; G06Q; G16Y
71: Tyrone Waterston
72: Tyrone Waterston
33: ZA 31: 2021/03007 32: 2021-05-05
54: A METHOD OF VERIFYING THE STRUCTURAL CONDITION OF COMPUTING DEVICE
00: -
A method of determining the condition of a computing device using software enabled to perform the steps of: using a computing device to capture an image of itself; the captured image being used to determine the condition of the computing device; wherein the software attaches a unique identifier of the computing device to the image captured; analysing the image to determine the physical condition of the computing device; and generating an analysis report on the condition of the computing device;the software upon having assessed the condition of the computing device - generates prompts in accordance with the condition of the computing device, which prompts include at least one of; offering, withholding an offer or declining a service or product relevant to the specific computing device.

21: 2022/04950. 22: 2022/05/05. 43: 2022/11/09
51: E21D
71: INNOVATIVE MINING PRODUCTS (PTY) LTD
72: CROMPTON, Brendan Robert, ABREU, Rual, KNOX, Greig, PASTORINO, Paolo Ettore
33: ZA 31: 2019/08131 32: 2019-12-09
54: DEFORMED HOLLOW ROCK BOLT
00: -
[0007] The invention provides a rock bolt for use in supporting a rock wall by being grouted in a rock hole drilled into the rock wall which includes an elongate body of a suitable metal material which extends between a distal end and a proximal end and which body includes a threaded portion at the proximal end, a resin bore which extends through the elongate body, opening at each of the ends, a first integral anchor at or towards the distal end that comprises a plurality of integrally formed paddle formations, a second integral anchor between the

first integral anchor and the threaded portion that comprises a plurality of integrally formed paddle formations, and a stem portion between the first integral anchor and the second integral anchor which has a smooth cylindrical exterior surface.

21: 2022/05116. 22: 2022/05/09. 43: 2022/11/11
51: B63B
71: TRANSOCEANIC LLC
72: CHELARU, Silviu Dorian
33: US 31: 62/974,230 32: 2019-11-20
54: ULTRA-LARGE MARINE SUBMERSIBLE TRANSPORT BOATS AND ARRANGEMENTS FOR TRANSPORTATION OF AQUEOUS BULK LIQUIDS, INCLUDING FRESH WATER
00: -
Ultra-large marine submersible transport boats and arrangements for aqueous bulk liquids transportation, including fresh water and irrigation drainage, from specifically configured supply stations to specifically configured delivery stations. Boats present rigid hydrodynamic shaped double-walled submersible hulls incorporating a plurality of inside-reinforced impervious ballast chambers and also present radial reinforcing elements and hollow interior cavities that enclose collapsible bulk liquid bladders for transporting bulk liquids. Hulls can be made of reinforced concrete. Hull openings permit seawater circulation, avoiding transportation of bulk ballast seawater. Submersible cruising reduces structural loads and drag. An on-board hydro-pneumatic ballasting system adds to and removes reusable hull ballast water from, the ballast chambers controlling the hull's depth, pitch, and roll. Propulsion, steering capabilities, and detailed arrangements and methods for loading, unloading, and transporting bulk liquids are presented. Hull manufacturing is done on marine floating platforms using onshore precast panels. Maintenance and end of life procedures are detailed.

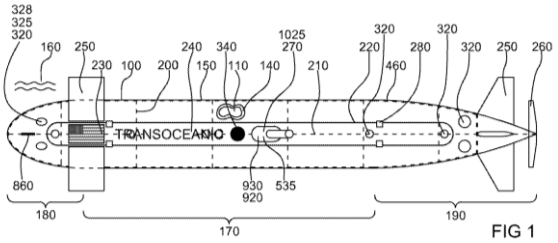
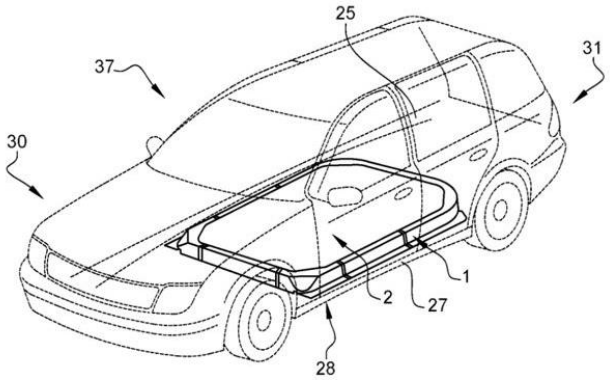


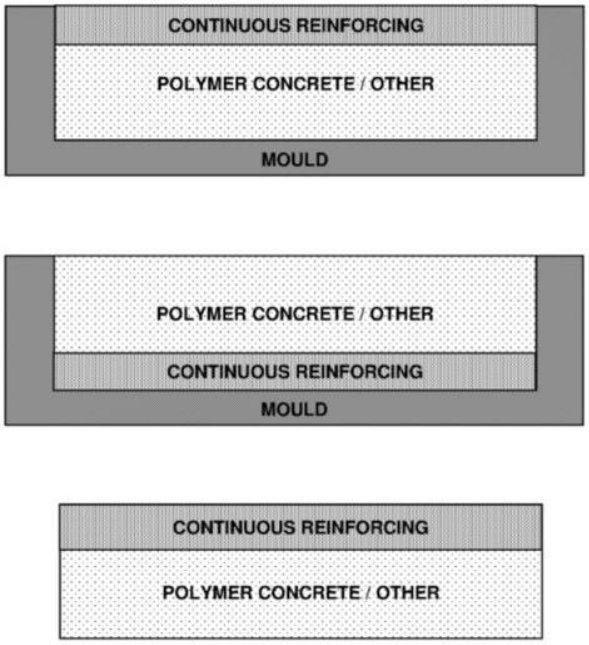
FIG 1

21: 2022/05151. 22: 2022/05/10. 43: 2022/11/11
51: B60K; B60L; B62D; H01M
71: ARCELORMITTAL
72: Gagan TANDON, Robert ZUMMALLEN
33: IB 31: PCT/IB2019/061006 32: 2019-12-18
54: REINFORCEMENT FRAME FOR A BATTERY PACK OF AN ELECTRIC OR HYBRID VEHICLE, REINFORCED BATTERY PACK AND PROCESS FOR ASSEMBLING SAID BATTERY PACK
00: -
The invention relates to a reinforcement frame (1) for a battery pack (2) of an electric or hybrid vehicle (37), said battery pack comprising a plurality of battery cells lying on and secured to a shield element, said reinforcement frame comprising at least: - a reinforcement frame fastening portion (3) provided to be secured to both the battery pack and the body of the vehicle, and - a reinforcement frame hollow portion (4) provided to surround at least the battery cells.



21: 2022/05162. 22: 2022/05/10. 43: 2022/11/11
51: E02D
71: Luke Stanton RADEMAN
72: Luke Stanton RADEMAN
33: ZA 31: 2019/07437 32: 2019-11-11
54: MANHOLE COMPONENT ARRANGEMENT
00: -

The invention discloses a manhole component arrangement, which includes a structural member including polymer concrete; and reinforcing continuous fibres and/or continuous reinforcing. The polymer concrete may be any filler/abrasion resistant layer. The reinforcing continuous fibres and/or continuous reinforcing are provided in the form of a quadraxial stitched cloth offering directional reinforcing in four directions and/or straight fibres and/or woven cloth in which the fibres are deformed by the weave and limited to two directions. The reinforcing continuous fibres and/or continuous reinforcing are located on the underside and/or close to the underside of the structural member and/or mould where the tensile resistance is required the most.



21: 2022/05179. 22: 2022/05/11. 43: 2022/11/11
51: B60R; E05B; F16H
71: NKOSI, Sizwe Sylvester
72: NKOSI, Sizwe Sylvester
54: TAMPER PROOF SYSTEM
00: -
There is provided a tamper-proof system suitable for use in a vehicle, the tamper-proof system including sensing means for generating a signal when sensing an object is within a predetermined distance from the vehicle; notification means for receiving the signal from the sensing means and generating a unique alert notification; transmission means for transmitting a signal from the sensing means to the notification means; and control means for receiving the signal and controlling a function of the vehicle. In addition, there is provided a further a tamper-proof system suitable for a prepaid electricity meter, the tamper-proof system including a first control means for controlling the power supply of electricity to the prepaid electricity meter; measurement means for measuring electricity usage; and transmission means for transmitting electricity usage information to a second control means.

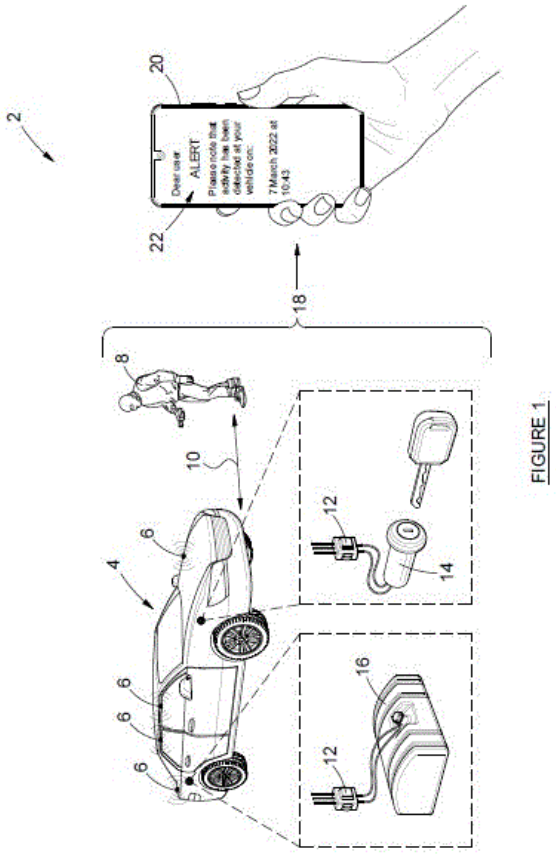
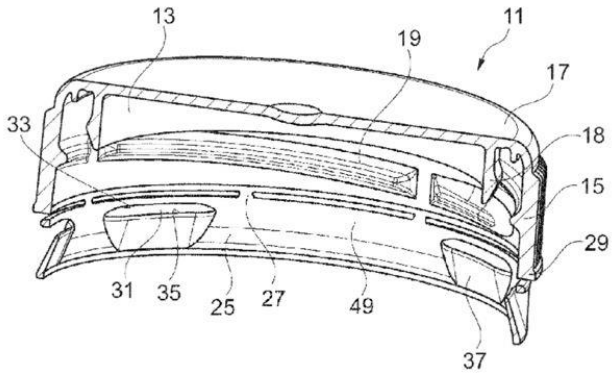


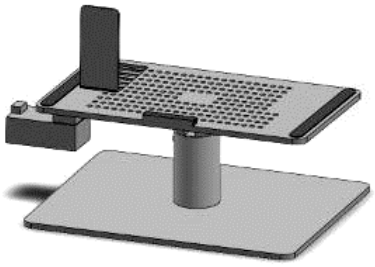
FIGURE 1

21: 2022/05237. 22: 2022/05/11. 43: 2022/11/11
51: B65D
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: Matthias DANGL
33: CH 31: 01467/19 32: 2019-11-20
33: CH 31: 01695/19 32: 2019-12-23
33: CH 31: 00601/20 32: 2020-05-18
54: CONTAINER CLOSURE
00: -
The invention relates to a container closure (11) made of plastic for closing a container, with a screw

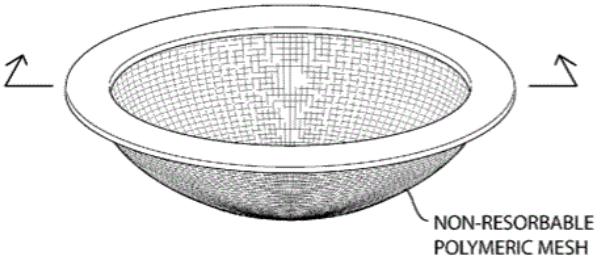
cap (13) that has a cylindrical casing (15) having an internal screw thread (19) and a lid disc (17) adjoining the casing (15), and with a security ring (25) that is connected by means of first break-off webs (27) to the free edge (29) of the casing (15) and has an engagement means (35) designed for a form-fitting engagement into an abutment arranged in the region of the container neck (23), said abutment being in the form of a holding ring. The security ring (25) has slots (31) that are arranged distributed over the circumference and have a top edge (33) and a bottom edge (35), wherein the top edge (33) is formed by a section of the security ring (25) that extends in the shape of a circular arc. The bottom edge (35) is formed by a wall section (37) that is inclined inwards in the radial direction. The bottom edge (35) of each slot (31) forms the engagement means for a form-fitting engagement into an abutment arranged in the region of the container neck (23).



21: 2022/05377. 22: 2022/05/16. 43: 2022/11/24
51: G06F
71: Dr.Vishwanath Karad MIT World Peace University, MAHAJAN, Mangesh, CHAUDHARI, Naresh, NAJARE, Kaushik Rajendra, PARADKAR, Aarya Sunil, PEDNEKAR, Kundan Laxman, KHER, Atharva Devendra
72: MAHAJAN, Mangesh, CHAUDHARI, Naresh, NAJARE, Kaushik Rajendra, PARADKAR, Aarya Sunil, PEDNEKAR, Kundan Laxman, KHER, Atharva Devendra
54: A LAPTOP STAND
00: -
The present invention relates to a laptop stand. It involves a simple mechanism which no one has used before for laptop stand. The screw pair is used for making upright movement of stand to minimize neck pain of users. The invention have a rectangular / round stationary base. On top there will be another rectangular / round desk. Base and desk will be in communication with the help of a metallic / polymer screw pair. The upper plate can be moved up and down by screw action. Total height of product will be 5 inches with total travel of 2.5 inches. This is by considering the average to maximum height of persons using laptops.

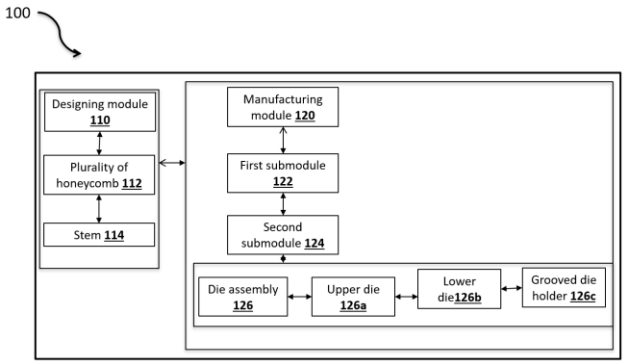


21: 2022/05482. 22: 2022/05/18. 43: 2022/11/21
51: A61K
71: DARÉ BIOSCIENCE, INC.
72: KIANG, Jennifer, WALTERS, Mark
33: US 31: 62/937,247 32: 2019-11-18
54: INTRAVAGINAL RING DEVICES
00: -
Disclosed herein are intravaginal ring devices that are resistant to distortion due to absorption of vaginal fluids. This allows the rings to perform better over time as compared to other intravaginal rings made with copolymeric silicone.



21: 2022/05520. 22: 2022/05/19. 43: 2022/11/24
51: C22C
71: Ajay Andrew Antony John, Shanmuga Sundaram Karibeeran
72: Ajay Andrew Antony John, Shanmuga Sundaram Karibeeran
54: A DESIGN APPARATUS FOR SYNTHESIS OF TOPOLOGICALLY ORDERED OPEN CELL METAL FOAMS BY RAPID MANUFACTURING
00: -

An apparatus (100) for synthesis of topologically ordered open cell metal foams, comprising of a desigining module (110) comprising of: a plurality of inverse honeycomb (112) structure designed for obtaining each of a plurality of extruded hexagonal honeycomb (112) shaped metal foam; and a stem (114) design for providing support to the obtained design of the inverse honeycomb structure (112); wherein a manufacturing module (120) comprises of: a first submodule (122) for performing a three-dimensional (3D) printing of the designed honeycomb structure (112); a second submodule (124) for performing sintering of the 3D printed honeycomb structure (112), wherein lose metal powders are compacted under pressure and then heated to a sintering temperature until particles of the lose metal powders fuse together; and a die assembly (126) for obtaining the designed honeycomb structure (112), comprises of an upper die (126a), a lower die (126b) and a grooved die holder (126c).

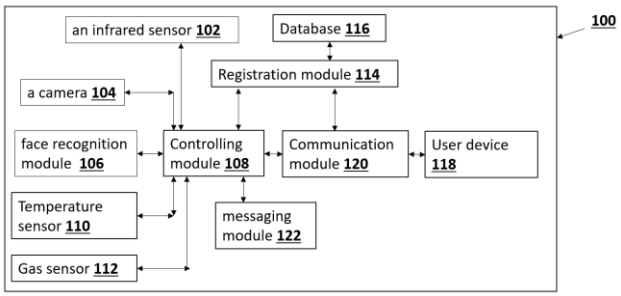


21: 2022/05530. 22: 2022/05/19. 43: 2022/11/24
51: H04L
71: ARUN KUMAR RANA, DR. TAPSI NAGPAL, DR. SOUVIK GANGULI, MR. NIRAV KARELIA, DR. RAJU KUMAR SWAMI, DR. SUNANDA SINHA
72: ARUN KUMAR RANA, DR. TAPSI NAGPAL, DR. SOUVIK GANGULI, MR. NIRAV KARELIA, DR. RAJU KUMAR SWAMI, DR. SUNANDA SINHA

54: A SYSTEM FOR ADVANCED ACCESS CONTROL AND SURVEILLANCE IN A SMART HOME AND A METHOD THEREOF

00: -

A system (100) for access control and surveillance in a smart home, comprises of: an infrared sensor (102) to detect objects entering through the entrance; atleast a camera (104) to capture images of the detected objects at the entrance; an face recognition module (106) for processing the captured images to detect the object, extracting a plurality of features involving a person, and classifying to identify the detected objects as a known person or an unknown person in order to detect a situation of intrusion; and a controlling module (108) for generating a plurality of control signals based on the classified features, wherein a first command signal is generated when a known person is identified, to greet the person and notify an user about the arrival of the person; wherein a second command signal is generated when an unknown person is detected, the user interacts with the person for manual identification.



21: 2022/05531. 22: 2022/05/19. 43: 2022/11/24
51: C08J
71: Dr. Pasha Wajir Sayyad, Kiran Sudhakar Sontakke, Aafiya Abdur Rab Farooqui, Dr. Manasi Manohar Mahadik, Prof. Mahendra Dashrath Shirsat
72: Dr. Pasha Wajir Sayyad, Kiran Sudhakar Sontakke, Aafiya Abdur Rab Farooqui, Dr. Manasi Manohar Mahadik, Prof. Mahendra Dashrath Shirsat

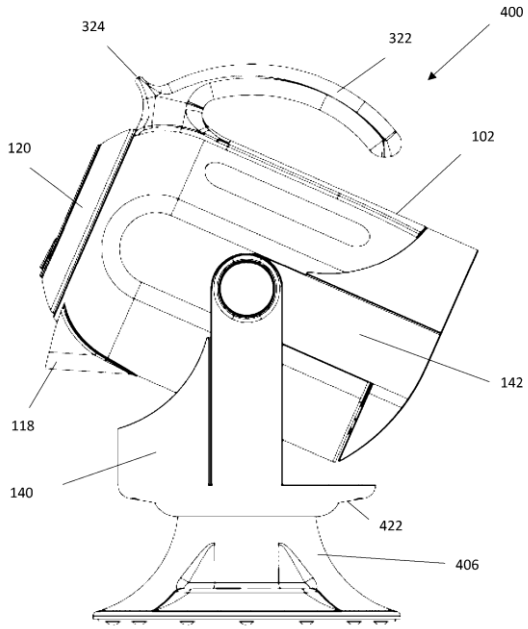
54: A METHOD FOR SYNTHESIZING L-GLUTATHIONE (LGSH) FUNCTIONALIZED POLY(3,4-ETHYLENEDIOXYTHIOPHENE) POLY(STYRENE-SULFONATE)/ MULTI-WALLED CARBON NANOTUBES-CARBOXYLIC ACID (PEDOT:PSS/MWCNTS-COOH) NANOCOMPOSITE

00: -

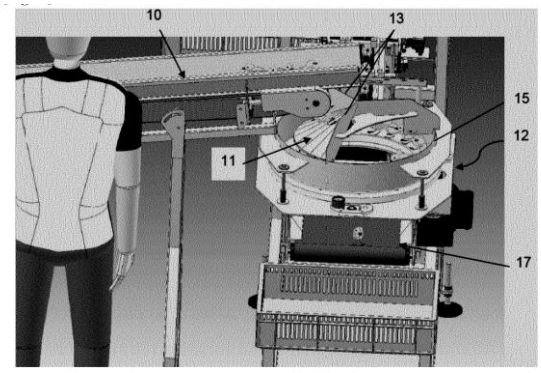
A method (100) for synthesizing LGSH functionalized PEDOT:PSS/MWCNTs-COOH nanocomposite, comprises: mixing 2-5 mg MWCNTs-COOH powder with 3-15 ml of aqueous solution of the PEDOT-PSS and 1-2 milligrams of LGSH in a mixing chamber; ultrasonicating the nanotube solution by an ultrasonic sonicator for a predetermined interval of time at a predefined temperature; and treating the ultrasonicated solution by centrifuging for 30 min at 8000 rpm by a

centrifuge to remove the unstabilized MWCNTs for synthesizing the LGSH functionalized PEDOT:PSS/MWCNTs-COOH. The efficacy of the prepared nanocomposite is investigated using Grazing Incidence X-Ray Diffraction. The nanocomposite is utilized for the determination of Cd(II) with the sensitivity and limit of detection of 10.69 µA/ppm and 1 ppb. Moreover, the developed sensor exhibited good selectivity, repeatability (RSD = 1.83%), and reproducibility (RSD = 4.73%), making the LGSH@PEDOT:PSS/MWCNTs-COOH electrode as an excellent Cd(II) ions detection probe as the next generation electrochemical sensor.

21: 2022/05584. 22: 2022/05/20. 43: 2022/11/21
51: A47J; F21V
71: Powa Corporation Pty Ltd
72: KHOURY, Edward Joseph, KHOURY, Ross Stanley
33: AU 31: 2019904178 32: 2019-11-06
54: A KETTLE
00: -
The present invention relates to a kettle for heating liquid comprising a base with a base connector being movable between an engaged and a disengaged position, and a vessel for holding the liquid. The vessel comprises a vessel connector with an electrical contact connected to a heating element. The vessel is pivotably connected to the base such that by pivoting the vessel liquid in the vessel flows through an opening located at a top portion of the vessel. The kettle is configured such that when the base connector of the base is in the engaged position, the base connector engages with the vessel connector to activate the heating element, and when the base connector is in the disengaged position, the vessel is pivotable relative to the base for pouring the liquid through the opening of the vessel.



21: 2022/05654. 22: 2022/05/23. 43: 2022/11/23
51: A01K; B65G
71: EGG-CHICK AUTOMATED TECHNOLOGIES
72: DONVAL, Mickaël
33: EP 31: 19306490.4 32: 2019-11-20
54: ASSEMBLY FOR TRANSPORTING AND SEPARATING LIVING POULTRY BIRDS
00: -
The present invention relates to an assembly for transporting and separating living poultry birds, in particular chickens. According to the invention, this assembly comprises: - a first conveyor (10) for conveying the poultry birds, - a carousel (12) comprising a rotating platform (14), said carousel (12) being configured to ensure, during the rotation of this platform (14), spatial separation of the poultry birds introduced at the inlet thereof so as to line them up one after another, - an ejector (18) for ejecting the poultry birds thus separated from the carousel (12) onto an evacuation conveyor (19) and aligning them.

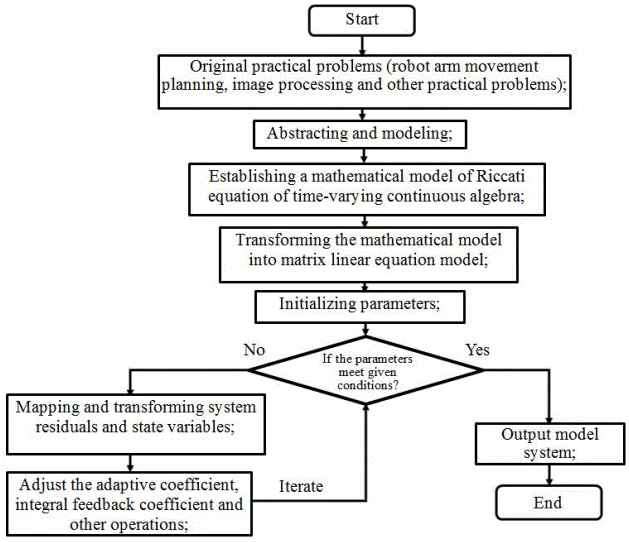


21: 2022/05847. 22: 2022/05/26. 43: 2022/11/28
51: G06N
71: GUANGDONG OCEAN UNIVERSITY
72: XIAO Xiuchun, JIANG Chengze, JIN Long, LI Kunjian
33: CN 31: 202110461012.4 32: 2021-04-27

54: ERROR-BASED ADAPTIVE COEFFICIENT ZEROING NEURAL NETWORK METHOD FOR SOLVING TIME-VARYING CONTINUOUS ALGEBRAIC RICCATI EQUATION

00: -

The invention discloses a method for solving the time-varying continuous algebraic Riccati equation based on error-based adaptive coefficient zeroing neural network (NACZNN). In this method, the original problems, such as robot arm movement planning, image and signal processing, are abstracted and modeled, and the problems are transformed into mathematical models for solving the time-varying continuous algebraic Riccati equation. Then, the mathematical model is transformed into a dynamic matrix linear equation problem by derivative and Kronecker product, and the NACZNN model is used for iterative solution. In the process of solving, the system residuals and state variables are constantly mapped and adaptively transformed, and the solution strategy of the network is adjusted. When the model system finally solved by iteration meets the predefined conditions and precision, the iteration is stopped and the model system is output. Compared with other traditional methods for solving the time-varying continuous algebraic Riccati equation, this algorithm has higher convergence accuracy and robustness.



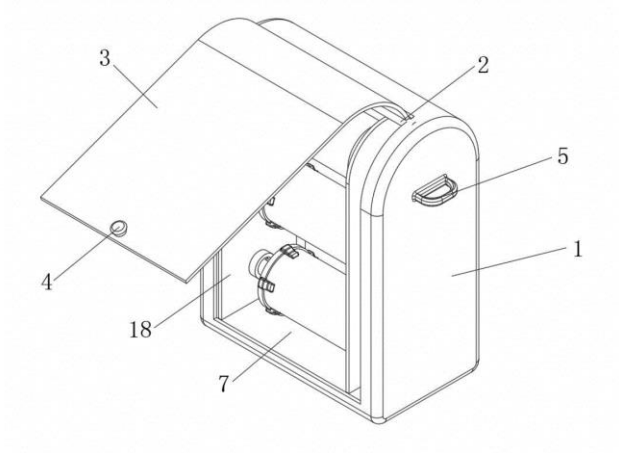
21: 2022/06126. 22: 2022/06/01. 43: 2022/12/02
51: B65D
71: GUANGZHOU CITY POLYTECHNIC, SERICULTURAL&AGRI-FOOD RESEARCH INSTITUTE OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES
72: HUANG Lihua, ZHANG Yehui, XUN Tiejun

54: A REFRIGERATED FRESH-KEEPING TRANSPORTATION EQUIPMENT FOR AQUATIC PRODUCTS

00: -

The invention comprises a refrigerated fresh-keeping transportation equipment for aquatic products, which is within the technical field of aquatic products transportation. The refrigerated fresh-keeping transportation equipment for aquatic products comprises an outer box body, a plurality of equally distributed placing units are arranged in the outer box body, the right ends of the placing units are connected with a rotating mechanism, the left ends of the placing units are connected with an installation mechanism, the top of the outer box body is movably hinged with a box door through a hinge shaft, a refrigerator is arranged on the rear side wall of the outer box body, and each placing unit comprises a placing barrel. The equipment has the advantages of reasonable structure, ingenious design, flexible use, and convenient transportation, which improves the refrigeration insurance effect of the transported aquatic products. The rotating mechanism in the equipment ensures the uniformity of refrigeration of aquatic products during transportation, and does not cause a large extrusion force on the bottom aquatic products, thus improving the protection of aquatic

products. At the same time, the equipment is convenient for loading and unloading aquatic products, and has strong practicability and market application prospects.

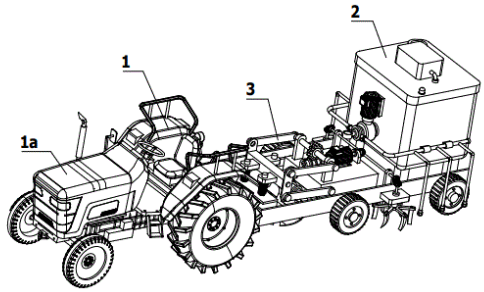


21: 2022/06249. 22: 2022/06/06. 43: 2022/12/07
51: A01B
71: Wuhu Tingyou Electromechanical Technology Co., Ltd
72: Jinting NI

54: FARMLAND MANAGEMENT DEVICE CAPABLE OF ADJUSTING TILLAGE DEPTH

00: -

The present invention relates to the field of farmland management, in particular to a farmland management device capable of adjusting a tillage depth, including a traction device, a ploughing device and a drug spraying device. Firstly, the traction device is started, the movement of the ploughing device and the drug spraying device is driven by the traction device, a lifting mechanism is used to perform a tillage operation with different depths on a farmland, and a driving mechanism is used to drive a second stirring assembly and the lifting mechanism. At the same time, drug solution is quantitatively put into a water tank by a drug box, a water source and the drug solution in the water tank are stirred by a first stirring assembly, and the drug solution is uniformly sprayed to a farmland to be managed by a spraying mechanism. At this time, the farmland that is sprayed with the drug solution is stirred by the second stirring assembly, thereby a tillage management operation is completed for the farmland. The above operation solves problems of quantitatively spraying the drug to the farmland by the water tank, and ploughing the farmland at the different depths and stirring soli at the same time, and the operation is simple.



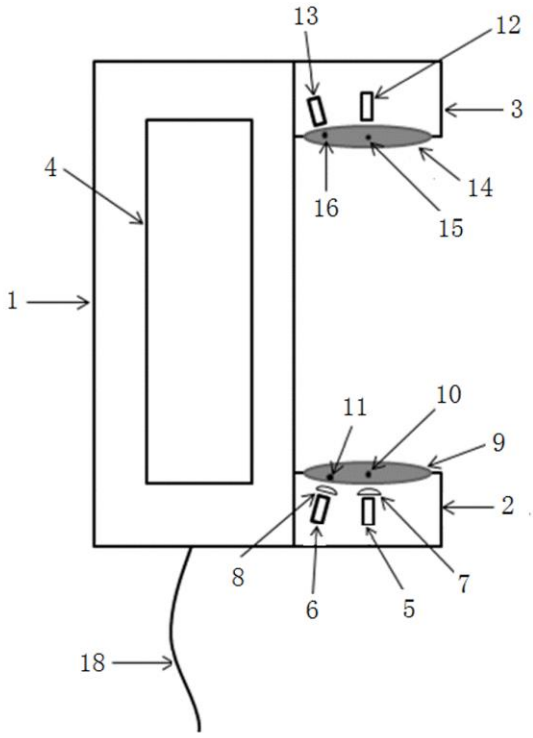
21: 2022/06389. 22: 2022/06/08. 43: 2022/11/28
51: G01N
71: INSTITUTE OF OCEANOGRAPHIC INSTRUMENTATION, SHANDONG ACADEMY OF SCIENCES
72: ZHANG, Keke, LIU, Shixuan, PEI, Liang, CHEN, Shizhe, WANG, Bo, WAN, Xiaozheng, WU, Yushang, ZHANG, Jiming
33: CN 31: 202110198847.5 32: 2021-02-22

54: DEVICE AND METHOD FOR DETECTING WATER VAPOR CONCENTRATION USING TWO LASERS

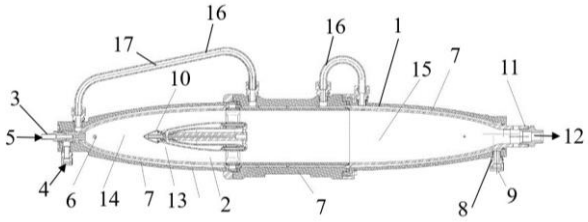
00: -

The present disclosure discloses a device and method for detecting water vapor concentration using two lasers. The device comprises a device housing, a hardware circuit board is arranged in the device housing, upper and lower end sides of the device housing are respectively connected with a transmitting end housing and a receiving end housing, a first laser, a second laser, a first lens and a second lens are arranged in the transmitting end housing, a first reflective mirror is arranged on a surface of the transmitting end housing, and the first reflective mirror is provided with a first light transmitting hole and a second light transmitting hole; and a first photoelectric detector and a second photoelectric detector are arranged in the receiving end housing, a second reflective mirror is arranged on a surface of the receiving end housing, the second reflective mirror is provided with a third light transmitting hole and a fourth light transmitting hole, the first laser is a near-infrared band laser, and the second laser is a mid-infrared band laser. The device and method disclosed by the present disclosure can guarantee water vapor concentration detection range and detection resolution both in a low temperature range and in a high temperature

range and improve full-range applicability of equipment.

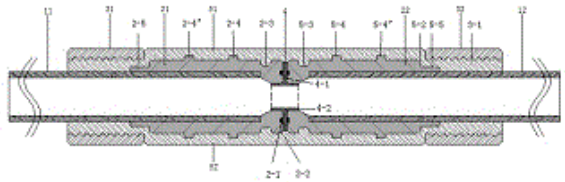


21: 2022/07006. 22: 2022/06/23. 43: 2022/10/07
51: F01K; F22B
71: STEAMOLOGY MOTION LTD
72: BLISS, Jeremy Henry Arthur, LACK, Christopher Alec
33: GB 31: 1917682.5 32: 2019-12-04
33: GB 31: 2019007.0 32: 2020-12-02
54: CONTROL DEVICE FOR A STEAM GENERATOR
00: -
A steam generator (1) comprises: a pressure vessel (2); a gas inlet (3) to the pressure vessel (2), arranged to receive hydrogen (4) and oxygen (5) under pressure; an ignition means (6) within the pressure vessel (2), arranged to ignite hydrogen (4) and oxygen (5) received at the gas inlet (3); a water jacket (7) in or on the pressure vessel (2); a water inlet (8) arranged to receive water (9) under pressure and feed it to the water jacket (7); a spray outlet (10) within the pressure vessel (2); and a steam outlet (11) for the outlet of steam (12) from the pressure vessel (2). In use, water (9) received at the water inlet (8) passes along the water jacket (7) to provide cooling of the pressure vessel (2) and is output at the spray outlet (10) to provide a water spray (and/or film) (13) that mixes with the ignited hydrogen and oxygen (14) to vaporize the water spray (13).

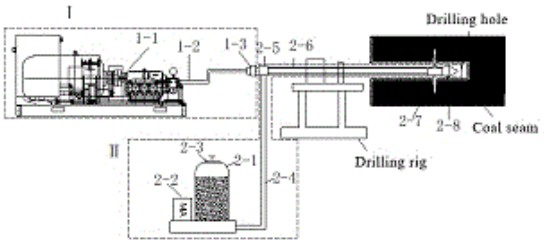


21: 2022/07099. 22: 2022/06/27. 43: 2022/10/19
51: F16L
71: CHINA COAL TECHNOLOGY & ENGINEERING GROUP CHONGQING RESEARCH INSTITUTE CO. LTD
72: ZHANG , YONGJIANG, GUO , LINDONG, ZHAO , XUSHENG, LU , ZHANJIN, HUANG , ZHENFEI, MENG , XIANZHENG, LI , CHENGCHENG, YANG , HUIMING, CAO , JIANJUN, LI , SHUAI, JI , FEI, LIU , JUN, NIU , XIN'GANG, WANG , ZHONGHUA, LIU , YONGSAN, LIU , HUAIFU, HU , SHANCHAO
33: CN 31: 202210404492.5 32: 2022-04-18
54: MINING HOSE CONNECTING DEVICE AND METHOD
00: -
The present invention relates to a mining hose connecting device and method, and belongs to the field of underground hydraulic equipment for coal mines. The mining hose connecting device comprises a joint unit, wherein the joint unit comprises a first joint and a second joint; a first fastening unit, wherein the first fastening unit is arranged symmetrically about a first plane, and the inner diameter of the first fastening unit is respectively in clearance fit with the outer diameters of the first joint and the second joint; and a second fastening unit, comprising a first fastener and a second fastener, wherein the inner diameters of the first fastener and the second fastener are respectively in clearance fit with the outer diameter of the first fastening unit. A first hose and a second hose are connected respectively through the first joint and the second joint, the end face seal of the joint unit is realized through the first fastening unit, the secondary seal of the first fastening unit is carried out through the second fastening unit to form a firm connecting structure, and the drag resistance of the first hose and the second hose after

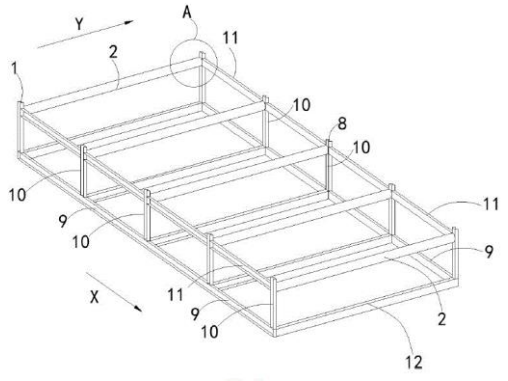
connection is enhanced to avoid blowout of flow media.



21: 2022/07100. 22: 2022/06/27. 43: 2022/10/19
51: B24C; E21C
71: CHINA COAL TECHNOLOGY & ENGINEERING GROUP CHONGQING RESEARCH INSTITUTE CO. LTD
72: ZHANG , YONGJIANG, GUO , LINDONG, ZHAO , XUSHENG, SUN , HAITAO, CAO , JIANJUN, LI , CHENGCHENG, LU , ZHANJIN, HUANG , ZHENFEI, JI , FEI, XU , ZUNYU, XU , JUNJIAN, LI , SHUAI, NIU , XIN'GANG, YANG , HUIMING, WANG , ZHONGHUA, LIU , YONGSAN, LIU , HUAIFU
33: CN 31: 202111192668.7 32: 2021-10-13
54: REAR-MOUNTED DOUBLE-CHANNEL ABRASIVE JET CUTTING DEVICE
00: -
The present invention relates to a rear-mounted double-channel abrasive jet cutting device, and belongs to the field of coal seam pressure relief and permeability improvement, which mainly comprises an ultra-high pressure clean water pump, an ultra-high pressure hose, an ultra-high pressure rotary water swivel, an abrasive pumping device, an abrasive rotary sealing water swivel, a double-channel sealing drill pipe and a double-channel cutter. A jet power source is provided by the ultra-high pressure clean water pump, and safe transfer of high pressure water is ensured by the ultra-high pressure hose, the ultra-high pressure rotary water swivel and the double-channel sealing drill pipe; an abrasive sand adding channel is formed by the abrasive pumping device, the abrasive rotary sealing water swivel, the double-channel sealing drill pipe and the double-channel cutter to achieve separate double-channel supply of high pressure water transfer and abrasive transfer. By innovatively inventing the double-channel abrasive jet cutting device, wear of a high pressure hose and a drilling tool caused by abrasive and high pressure water during mixed transfer is avoided. At the same time, the linear pressure loss of the high pressure water is avoided, which greatly improves the coal breaking capacity of high pressure water jet cutting and prolongs the service life of the device.



21: 2022/08016. 22: 2022/07/19. 43: 2022/10/04
51: B65G
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: LI, Quanzhong, WANG, Lihuan, LI, Ang, TAN, Difei, ZHAO, Yikai, ZHANG, Yuanming, ZOU, Yanshen, LIU, Yuxun
33: CN 31: 202123440315.2 32: 2021-12-31
54: OPERATION PLATFORM FOR FACILITATING PROCESSING STEEL BAR
00: -
The present application relates to the technical field of building construction, and particularly relates to an operation platform for facilitating processing a steel bar. The operation platform for facilitating processing a steel bar includes: a support frame whose front end is to abut a steel bar processing operation platform; and a plurality of rotation assemblies each of which is rotatably disposed on the support frame. The rotation assemblies are configured to carry a steel bar and rotate as the steel bar moves. The present application provides an operation platform configured to have a rotation structure. With the rotation structure, a frictional force between the rotation assemblies and the steel bar is reduced, which helps save labor and reduce labor intensity. In addition, it helps save time and improve processing efficiency. Thus, the operation platform facilitates processing in batches of the steel bar.

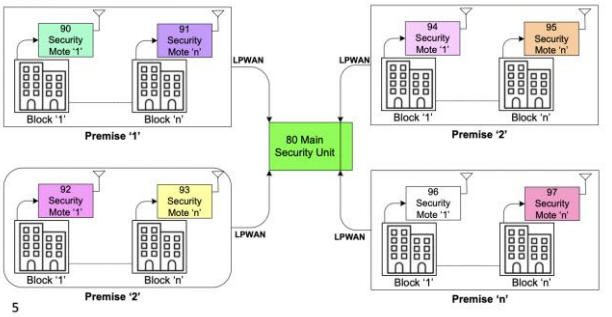


21: 2022/08125. 22: 2022/07/21. 43: 2022/11/02
51: H04L; H04W
71: UTTARANCHAL UNIVERSITY
72: SHAIK VASEEM AKRAM, RAJESH SINGH, ANITA GEHLOT, Prof. DHARAM BUDDHI, ANKITA JOSHI
33: IN 31: 202211009709 32: 2022-02-23

54: A LPWAN ASSISTED SYSTEM FOR LOCKING AND METHODS THEREOF

00: -

A LPWAN assisted system for locking of blocks/department in the university premises comprises the two-primary unit of this architecture are security mote (90-97), and main security unit (80); wherein Security mote (90-97), is the unit (201) that present inside the block; and Main security unit (80) is placed at the security room; and Low power wide area network (LPWAN) is established in between the ‘n’ number of security mote and main security unit (80); wherein LPWAN is preferred in the system, as it is able to provide reliable and secure data transmission. A 433 MHz LoRa module is based for the establishment of LPWAN network, as it communicates data over 10 km rang in the line of sight. 433 MHz LoRa module is transceiver communication module and in the security mote (90-97) it acts as transmitter unit and in the main security more (80) it acts as receiver unit.

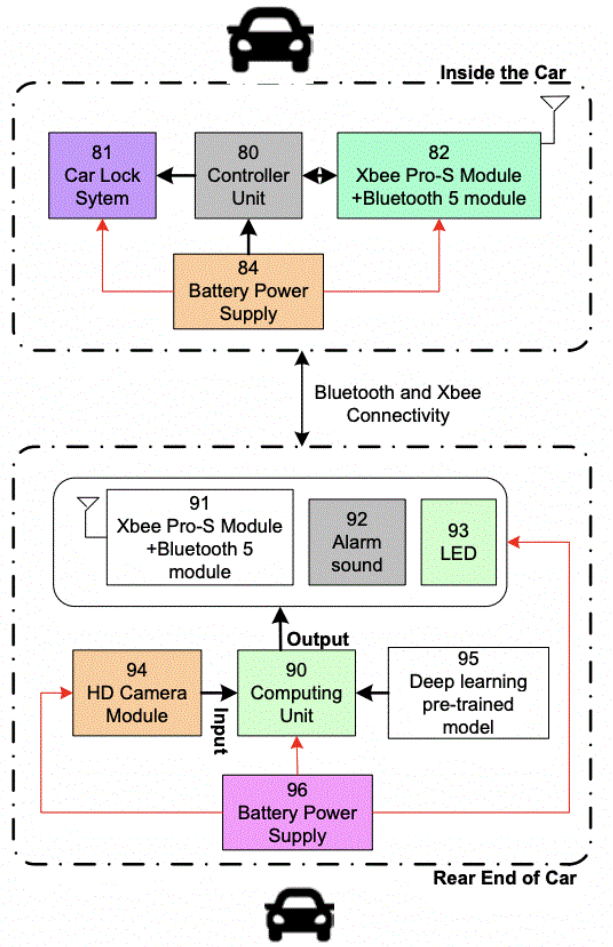


21: 2022/08126. 22: 2022/07/21. 43: 2022/11/02
51: G06K; G08G; B60W; G06N
71: UTTARANCHAL UNIVERSITY
72: AMIT SRIVASTAVA, SHAIK VASEEM AKRAM, RAJESH SINGH, ANITA GEHLOT, DHARAM BUDDHI, ABHISHEK JOSHI
33: IN 31: 202211009711 32: 2022-02-23

54: DEEP LEARNING MODEL INSPIRED AUTOMATIC DOOR LOCK SYSTEM FOR AVOIDING THE COLLISION WITH OBSTACLES DURING OPENING THE CAR DOOR

00: -

Discloses herein a Deep learning model Inspired Automatic Door Lock System for Avoiding the Collision with obstacles During Opening the Car Door comprises Controller Unit(80), Car Lock System (81), Xbee Pro-S Module includes Bluetooth 5 module, Battery Power Supply (84), Computing unit (90), Xbee Pro-S Module includes Bluetooth 5 module (91), Alarm Sound (92), LED(93), HD Camera Module (94), Deep Learing pre-trained model (95) and Battery Power Supply (96) along with Bluetooth and Xbee Connectivity; wherein the unit placed in the rear end of the car is the primary for detecting the obstacle that is about to pass through the car.A vision-based node is the unit of rear end of car that provides the visuals inputs to the computing unit. The pre-trained deep learning (DL) model is powered to the computing unit to identify the moving objects based on visual data.

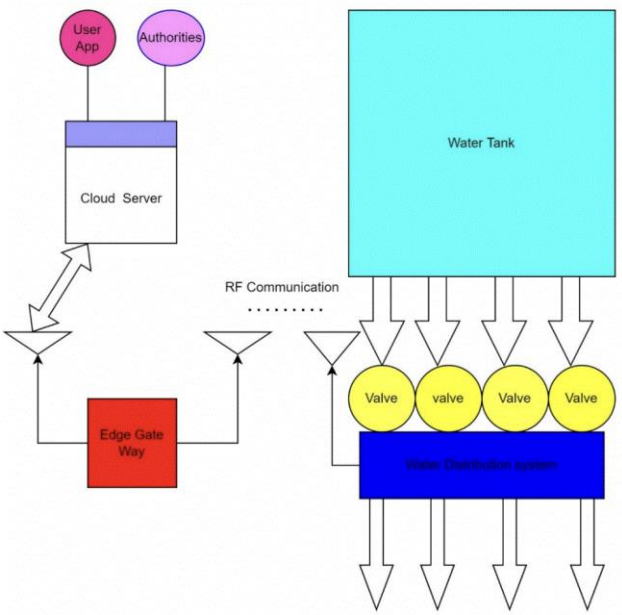


21: 2022/08127. 22: 2022/07/21. 43: 2022/11/02
51: A61K
71: UTTARANCHAL UNIVERSITY
72: DEVENDRA SINGH, RAJESH SINGH, PARIDHI JOSHI, ANITA GEHLOT, DHARAM BUDDHI, VINEET KISHORE SRIVASTAVA, SANJEEV KUMAR SHAH, DR. RAJESH BAHUGUNA
33: IN 31: 202211012195 32: 2022-03-07

54: A SYSTEM OF WATER SECURITY PLAN FOR REMOTE VILLAGES IN UTTARAKHAND HILLS

00: -

This summary is provided to introduce a selection of concepts, in a simplified format, that are further described in the detailed description of the invention. This summary is neither intended to identify key or essential inventive concepts of the invention and nor is it intended for determining the scope of the invention. To further clarify advantages and features of the present invention, a more particular description of the invention will be rendered by reference to specific embodiments thereof, which is illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail with the accompanying drawings.



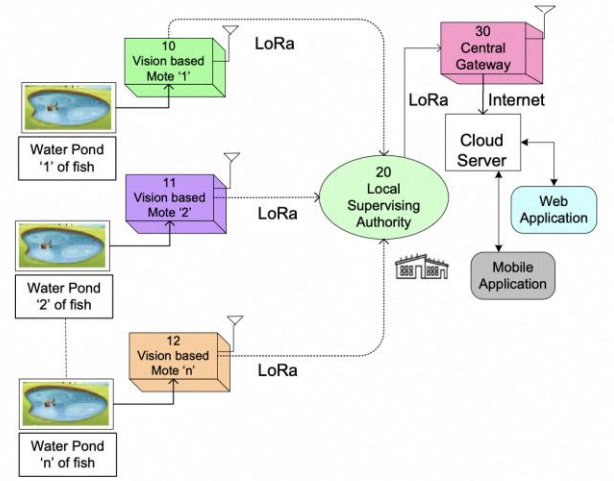
21: 2022/08128. 22: 2022/07/21. 43: 2022/11/02
51: A61H; G01D; H04L; H04N
71: UTTARANCHAL UNIVERSITY
72: DR. SANJEEV KMIOTHI, PROF. (DR). DHARAM BUDDHI, PROF. (DR). RAJESH SINGH, PROF. (DR). ANITA GEHLOT, SHAIK. VASEEM AKRAM, ABHISHEK JOSHI
33: IN 31: 202111061807 32: 2021-12-30

54: A VISION AND EDGE ENABLED SYSTEM FOR SEDIMENTATION LEVEL DETECTION IN FISH PONDS

00: -

Discloses a Vision and Edge Enabled System for Sedimentation Level Detection in Fish Ponds comprises vision-based mote (10, 11, 12), local supervising authority (20) and central gateway (30), ML based computing unit (50), LoRa module (51), display unit (52), power supply (53), HD camera module (54), LoRa module (81, 92), Alarm module (94), and ESP 8266 Wi-Fi module (82). The obtained results from the vision-based mote (10, 11, 12) are transmitted to the cloud server through local supervising authority (20) and central gateway (30). A local supervising authority (20) is placed in the

proposed architecture for supervising the data receiving from the different vision-based mote (10, 11, 12). The local supervising authority identifies the identity of the specific vision-based mote through the identification number that is allotted to it during programming.

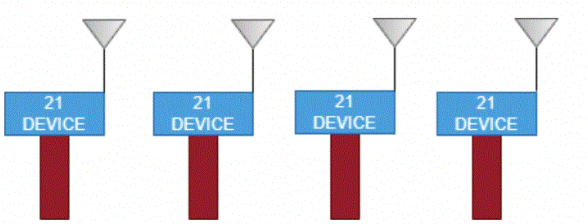


21: 2022/08129. 22: 2022/07/21. 43: 2022/11/07
51: A01K; A01M; G06F; G06K; G10L
71: UTTARANCHAL UNIVERSITY
72: MR. AJAY PRASAD NAUTIYAL, PROF. (DR.) SAJNEEV KUMAR SHAH, MR. YASHWANT SINGH BISHT, MR. KAPIL RAJPUT, MR. MUKESH PANDEY, MR. RISHI DEV NAUTIYAL, MRS. SAPNA BISHT, RAJESH SINGH, ANITA GEHLOT, ANKITA JOSHI
33: IN 31: 202211012192 32: 2022-03-07

54: FARM EYE - AI SOUND BASED MONITORING AND ALERT SYSTEM OR DEVICE TO PROTECT CROPS FROM DAMAGE CAUSED BY ANIMALS AND BIRDS IN HILLY AREAS

00: -

Crops monitoring and protecting from animals and birds is a major problem in hilly areas to protect and monitor major seasonal crops like as Apple, Tomato's, Grain and Rice etc. There is a need to deploy intelligent system or device to monitor and protect the major seasonal crops in hilly areas from animals and birds. The system or device should be responding as per object activity detection and voice detection and produce the different sounds according objects. Also, there should be an mobile or web application to manage and handle that smart device to change or update the sound and also to operate the speaker automatically and manually.

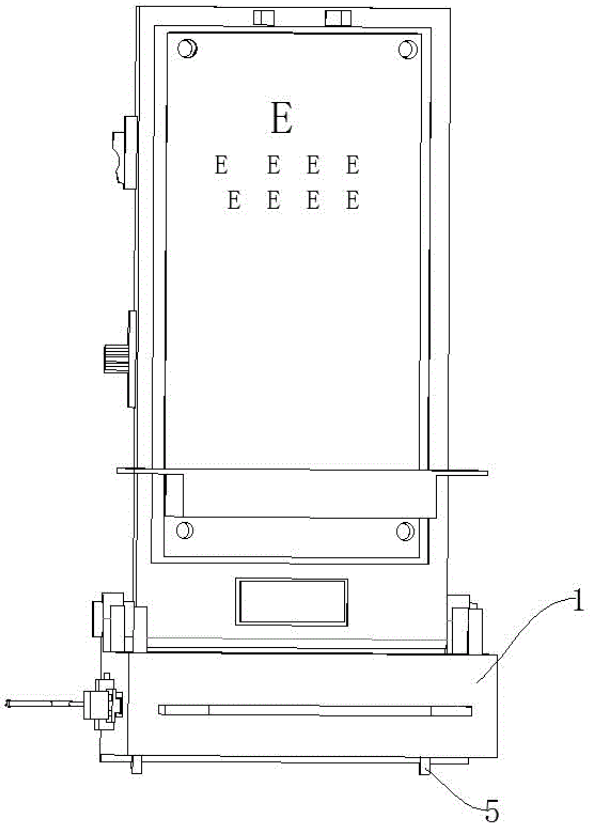


21: 2022/08130. 22: 2022/07/21. 43: 2022/11/07
51: A61B
71: Zhengzhou Railway Vocational And Technical College
72: Lutan ZHOU, Tianbin LV, Bingxin ZHAO, Xiuhong LI, Xiaojing WANG, Yingying LI, Jun WEN, Yuanpu QI

54: PORTABLE RECHARGEABLE INSERTING OPTOMETRY DEVICE

00: -

The disclosure relates to the field of optometry equipment, and more particularly, relates to a portable rechargeable inserting optometry device, comprising a lower box body and an upper box body, an opening limit support plate is installed at a rear end of the lower box body, a limit hinge is supported in the opening limit support plate, an eye chart board is provided at the front surface of the upper box body, and a replaceable rechargeable battery is provided at one side of the lower box body. The volume of the disclosure is small; a placement slot for storing various auxiliary tools is arranged in the box body, so that the auxiliary tools can be carried together, and it enables ophthalmology workers to work in different occasions; the letters on the eye chart are light-transmitting sheets, which can also work in the case of insufficient light after the LED light of the box is turned on; a replaceable rechargeable battery is installed on the device, so the device can be used normally without power supply; and a travel pulley is installed at the bottom of the lower box body, and a lifting rod is installed at the upper part of the lower box body, so that the device is easy to handle and carry, causing that the error of the detection result is reduced to ensure the accuracy of the detection result.

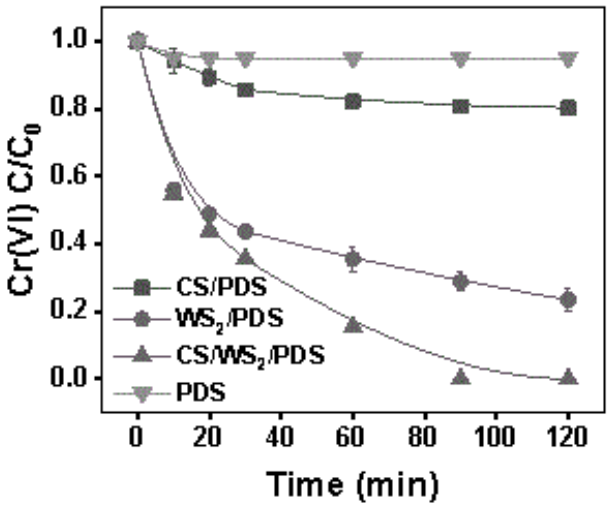


21: 2022/08141. 22: 2022/07/21. 43: 2022/11/11
51: B09B; B09C
71: China University of Geosciences, Beijing
72: YAO Jun, MA Bo, LIU Bang, ZHAO Chenchen, ZHU Xiaozhe, CAO Ying, PANG Wancheng, LI Miaomiao, LIU Houquan, JIANG Shun, LI Hao, SUN Yuanyuan, LIU Boren, ZHU Junjie, LIU Jianli, HUANG Peng, LIU Xingyu

54: METHOD FOR SIMULTANEOUS REMOVE OF HEAVY METALS AND ORGANIC POLLUTANTS IN MINES BY USING IRON-CONTAINING SOLID WASTES

00: -

The application discloses a method for simultaneous remove of heavy metals and organic pollutants in mines by using iron-containing solid wastes, which belongs to the technical field of environmental science and engineering, and takes copper slag as Fenton-like reaction catalyst and metal sulfide as reducing agent and cocatalyst to remove heavy metals and organic pollutants in mines in wastewater through co-catalytic effect; the oxidant in the Fenton-like reaction is sodium persulfate; According to the application, based on the idea of treating waste by waste, the copper slag is used as a catalyst of a fenton-like reaction and a reducing agent of heavy metal Cr(VI), so that synchronous removal of organic pollutants and Cr(VI) is synchronously realized. It is of great significance for the restoration of the surrounding ecological environment to realize the composite pollution restoration of non-ferrous metal mines with extremely low cost.

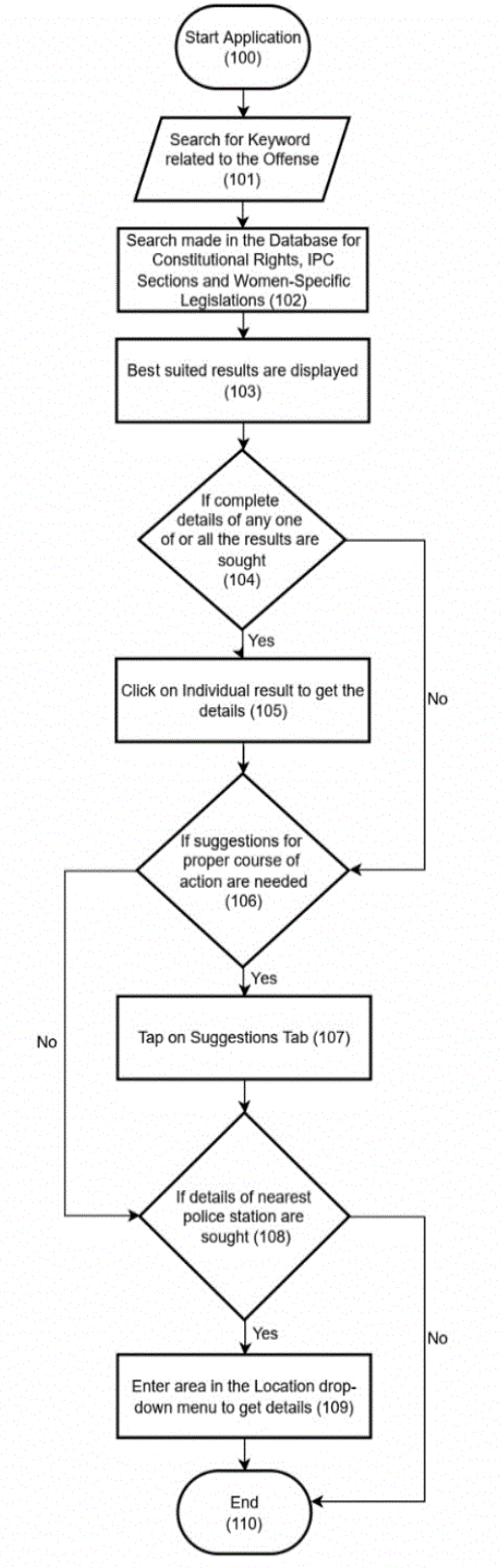


21: 2022/08151. 22: 2022/07/21. 43: 2022/11/02
51: B01J; G08B; G08G; H04M; G06Q
71: UTTARANCHAL UNIVERSITY
72: MR. GAURAV THAKUR, MR. VINOD BALMIKI, ANITA GEHLOT, DR. REETA RAUTELA, MR. SOMIL KUMAR GUPTA, MS. MADHU KIROLA, MS. ARTI RANA, DR. KAPIL JOSHI, RAJESH SINGH
33: IN 31: 202211013521 32: 2022-03-11

54: A SYSTEM OF "PARAMARSH" APP: AN AID FOR WOMEN ASSISTANCE AND GUIDANCE

00: -

In the present invention, violence and crimes against women all over the world is on the rise. This violence and crimes against women is commonly refer to as "Offenses against Women" and demand a higher global crusade. These "Offenses against Women" include domestic violence, various kinds of abuse, harassment, trafficking etc. Many methods and systems have come up to monitor the safety and security of women against these kinds of offenses. However, because of lack of awareness of the rights, legislations and legal provisions, most of these offenses go unreported which further fuels the current situation of offenses against women.



21: 2022/08152. 22: 2022/07/21. 43: 2022/11/02

51: A24B; C12N; G06N
71: UTTARANCHAL UNIVERSITY
72: BHUPENDRA SINGH RAWAT, MR SOMIL KUMAR GUPTA, MR ANURAJ MALAV, POONAM NEGI, ANITA GEHLOT, RAJESH SINGH, PRAMOD SINGH, AJAY SINGH, BHARTI RAMOLA, NAVEEN CHANDRA JOSHI, MR HARENDRA PRATAP SINGH, YASHWANT BISHT, KAPIL RAJPUT, SANJEEV KUMAR SHAH, SANJEEV KIMOTHI
33: IN 31: 202211013523 32: 2022-03-11

54: SMART HYBRID DRYING SYSTEM FOR MEDICINAL PLANTS PRODUCTS USING MACHINE LEARNING

00: -

This invention relates to Smart hybrid drying system for medicinal plants products using machine learning. A smart hybrid drying system for medicinal plants products using machine learning system comprises dryer (100) made of wooden frame with its components further consists of a quadrilateral-shaped cabinet tray of wooden frame with wire mesh (111) to contain the dryer product; wherein a single-layered transparent movable glass at the top is provided to collect solar radiation. In the bottom part of the system an arrangement of a rectangular shaped open space with movable cap (107) is provided as per requirement of solar radiation.

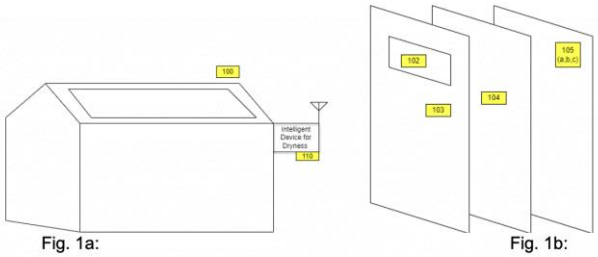


Fig. 1a:

Fig. 1b:

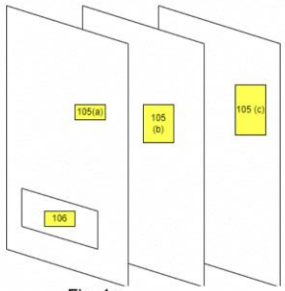


Fig. 1c:

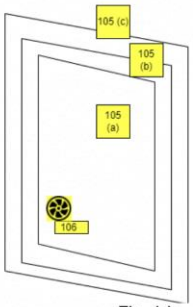


Fig. 1d:

21: 2022/08153. 22: 2022/07/21. 43: 2022/11/11
51: A61M; B25J; G06F; G10L; H04N
71: UTTARANCHAL UNIVERSITY
72: SANJEEV KUMAR SHAH, DEVENDRA SINGH, SHIV DAYAL PANDEY, AJAY PRASAD NAUTIYAL,

RAJESH SINGH, ANITA GEHLOT, KAPIL RAJPUT, GAURAV THAKUR, VINEET KISHORE SRIVASTAVA, NEETI MISRA
33: IN 31: 202211013294 32: 2022-03-11

54: A SYSTEM OF ARTIFICIAL INTELLIGENCE ASSISTED HARDWARE DEVICE FOR RESEARCHER TO KNOW MFP (MINOR FOREST PRODUCE) ON AND AROUND COMMUNITY IN HILLY AREAS OF UTTARAKHAND

00: -

In Present invention, disclosed an artificial intelligence assisted hardware device with which we can talk about MFP of any community in hilly areas of Uttarakhand as shown in fig.1. The device is capable of listening human voice can also reply the queries of the researchers. This device can be placed anywhere as per the convenience in drying applications of the researchers.

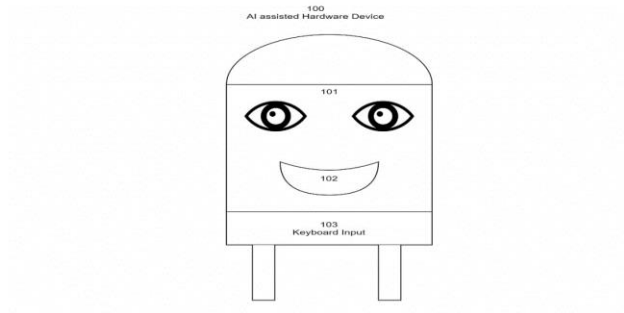


Fig.1: Artificial Intelligence assisted hardware device for researcher to know MFP

21: 2022/08154. 22: 2022/07/21. 43: 2022/11/02
51: G06K; G07C; G06Q
71: UTTARANCHAL UNIVERSITY
72: MR SOMIL KUMAR GUPTA, MR ANURAJ MALAV, MR PRASHANT CHAUDHARY, DR MUSHEER VAQUR, MR GAURAV THAKUR, MS MADHU KIROLA, MR. GAURAV NEGI, MS ARTI RANA, DR KAPIL JOSHI, DHARAM BUDDHI, RAJESH SINGH, ANITA GEHLOT, ABHISHEK JOSHI
33: IN 31: 202211012489 32: 2022-03-08

54: A SYSTEM OF EFFICIENT CLASSROOM ATTENDANCE MANAGEMENT THROUGH FACE DETECTION MECHANISM

00: -

There are many attendance management systems available that take attendance through face detection algorithms. Most of the time attendance of a student is taken by comparing his stored image from the database with the image captured by the camera installed in the classroom. Usually, this process happens once in a session. If a student is late in the classroom, even then he or she is awarded attendance for that session. This process causes redundancy. Additionally, most of the face detection is done by sending the video stream to a processing unit that is installed outside the classroom. This is another problem where input data is transferred to another location. Thereby, we propose an “Efficient Classroom attendance management through any face detection mechanism” in which an edge device, composed of a camera, processing unit etc. is installed in the classroom. This edge device regularly detects the faces of students through the live video stream, compares those with the images of students stored in the local database and sends only attendances of those students who remained present 80% of the time for a particular session.

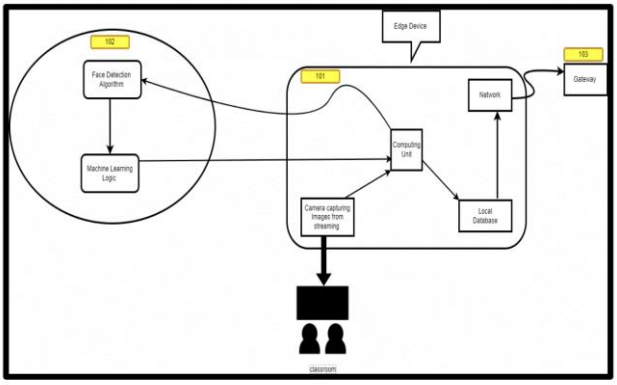


Fig. 1: Hardware Architecture of the system

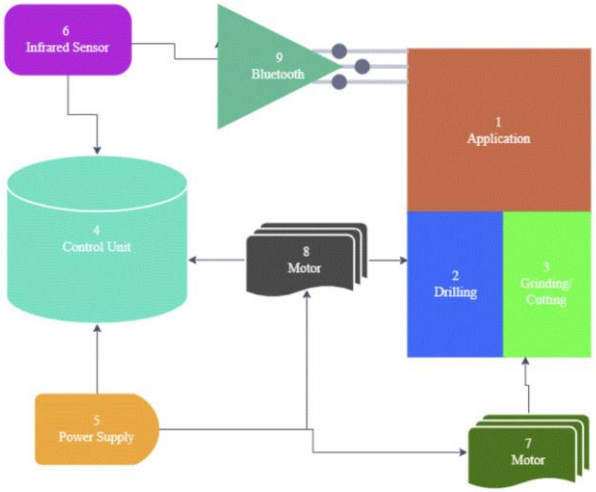
21: 2022/08155. 22: 2022/07/21. 43: 2022/11/07
51: A61N; B23B; B23P; B23Q
71: UTTARANCHAL UNIVERSITY
72: YASHWANT SINGH BISHT, PROF. (DR.) SANJEEV KUMAR SHAH, AJAY PRASAD NAUTIYAL, KAPIL RAJPUT, ANITA GEHLOT, RAJESH SINGH, ABHISHEK JOSHI
33: IN 31: 202211012490 32: 2022-03-08

54: A SYSTEM OF APP CONTROLLED MULTIFUCTIONAL INTELLEGENT PORTABLE CUTTING, GRINDING, DRILLING MACHINE IN A SINGLE PLANE

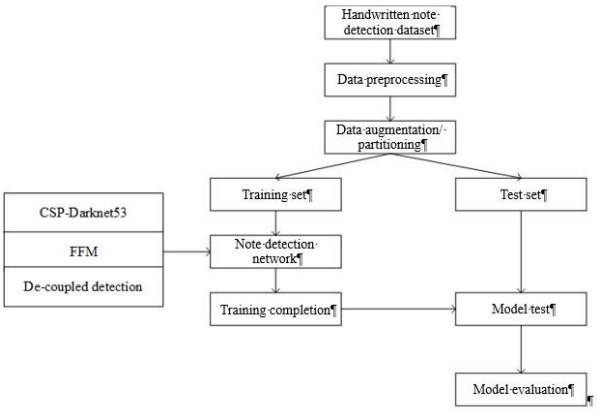
00: -

An App controlled multifunctional portable cutting, grinding, drilling device provided by the present invention, comprising, a control unit (4), a motor (7, 8), an infrared sensor (6), a Bluetooth sensor (9), a

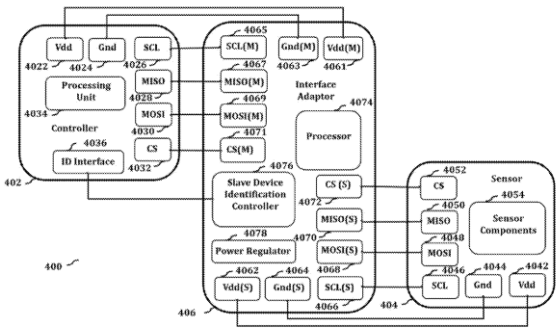
power supply (5), a drilling tool holder (2), a grinding and cutting tool holder (3). Wherein, the drilling and grinding tool holder are connected with separate motor and common power supply. The control unit operate both the motor which are connected to drilling and grinding tool holder. Bluetooth infrared sensor are for input of operation to command for motor, controlled by the control unit. The drilling and cutting & grinding tools can operate separately with high degree of accuracy and efficiency.



21: 2022/08251. 22: 2022/07/25. 43: 2022/11/04
51: G06K; G06N
71: Liaoning Technical University
72: JIN, Haibo, SHANG, Siyu, ZHANG, Yusen
54: NOTE RECOGNITION METHOD BASED ON DEEP LEARNING
00: -
The present disclosure discloses a note recognition method based on deep learning. The note recognition method comprises steps of partitioning a handwritten music note dataset; training a handwritten music note detection network by using a training set with data augmentation completed; setting a multi-scale feature fusion network for fusion of handwritten music note features at different scales in two directions of from top to bottom and from bottom to top, to enhance feature textures, which can detect small-scale targets in an image; designing a feature recalibration module, solving problem of conflict among note features at different scales, and detecting handwritten music notes by using two parallel and independent subnetworks; and multiplying a sample loss by a reciprocal of a corresponding gradient density of sample loss by calculating a gradient density of each note based on a note classification loss function of a gradient harmonized mechanism.



21: 2022/08425. 22: 2022/07/27. 43: 2022/10/13
51: G05B; G06F; H04L
71: INNOSAPIEN AGRO TECHNOLOGIES PRIVATE LIMITED
72: NERKAR, Sarang Dilip
33: IN 31: 202021003826 32: 2020-01-28
54: METHODS, DEVICES, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR SENSOR SYSTEMS
00: -
The invention relates to sensor system arrangements and configurations. In particular, the invention provides methods, devices, systems and computer program products for implementing master-slave based or controller-sensor based configurations, which enable sensor devices to be readily added, substituted, swapped or hot-swapped into or out of a controller-sensor device arrangement. In an embodiment, the sensor system of the present invention includes an interface adaptor configured to enable the above.

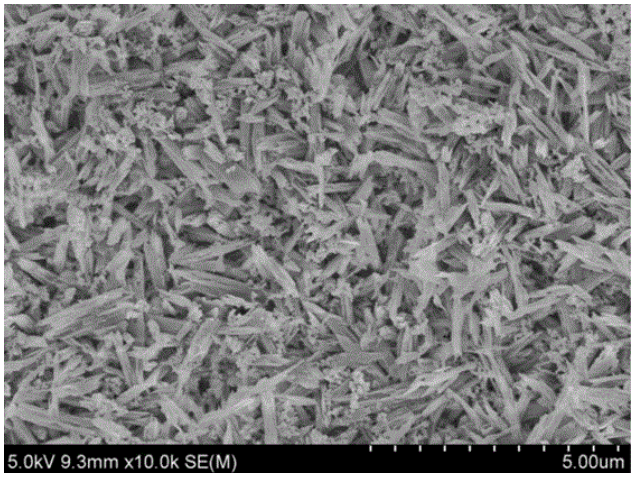


21: 2022/08624. 22: 2022/08/02. 43: 2022/11/09
51: A61K; C03B; C03C
71: Aidite (Qinhuangdao) Technology Co., Ltd.
72: ZHANG, Jiaxin, NIE, Quanyi, ZHAO, Lijia, ZHOU, Shenggang, YU, Yong, WANG, Xiaojun
33: CN 31: 202110901288.X 32: 2021-08-06

54: LITHIUM DISILICATE GLASS-CERAMIC WITH HIGH STRENGTH AND HIGH TRANSPARENCY AND PREPARATION METHOD AND USE THEREOF

00: -

The present disclosure discloses a lithium disilicate glass-ceramic with high strength and high transparency and a preparation method and use thereof. A raw material composition of the lithium disilicate glass-ceramic comprises: 63-75 wt% of SiO2, 13-18 wt% of Li2O, 1-6 wt% of Al2O3, 1-10 wt% of K2O, 2-6 wt% of P2O5, 0-4 wt% of an additive and 0-10 wt% of a colorant; a main crystal phase of the lithium disilicate glass-ceramic is lithium disilicate crystals, and an impurity phase of the lithium disilicate glass-ceramic is any one or a combination of at least two selected from the group consisting of lithium metasilicate, lithium phosphate and quartz; the lithium disilicate crystal has a size larger than 700 nm and a length-diameter ratio not less than 3.



21: 2022/08630. 22: 2022/07/29. 43: 2022/09/21
51: A61K; A61P
71: SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD.
72: JIA, Zhenhua
33: CN 31: 202010079857.2 32: 2020-02-04
33: CN 31: 202010094502.0 32: 2020-02-16
33: CN 31: 202010105903.1 32: 2020-02-21
33: CN 31: 202010134508.6 32: 2020-03-02

54: USE OF PHARMACEUTICAL COMPOSITION FOR PREVENTING AND TREATING NOVEL CORONAVIRUS PNEUMONIA

00: -

Use of a pharmaceutical composition in the preparation of a medicament for preventing and treating novel coronavirus-infected pneumonia. The pharmaceutical composition is prepared from forsythia, honeysuckle, isatis root, Rheum officinale, Pogostemon cablin, Rhizoma Dryopteris Crassirhizomae, Rhodiola rosea, menthol, honey-fried Herba ephedra, fried Semen Armeniacae Amarae, Houttuynia cordate, liquorice and gypsum fibrosum. It is experimentally verified that the pharmaceutical composition has the effect of preventing and treating novel coronavirus-infected pneumonia.

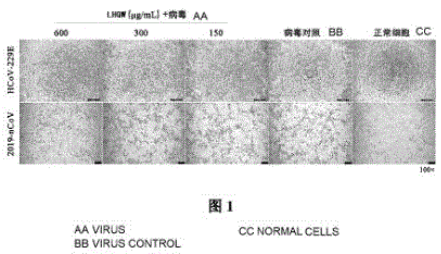


图 1

AA VIRUS
BB VIRUS CONTROL
CC NORMAL CELLS

21: 2022/08841. 22: 2022/08/08. 43: 2022/11/23

51: C40B
71: Shandong Jinlan Ecological Agriculture Technology R And D Co., Ltd., Shandong Jinlan Dairy Co., Ltd., Tai'an Jinlan Dairy Farming Co.,Ltd.
72: FA, Wenjing, ZHAO, Xiaoguo, WANG, Zhongkun, GAO, Shujuan, WANG, Hui, YI, Hui, WANG, Ning, ZHAO, Cui, MA, Chenglong, FA, Jia, FA, Yong

54: METHOD FOR ESTIMATING WHOLE-DAY MILK FAT YIELD BY ONE-TIME SAMPLING AND TESTING FOR MILK OF TWO-TIME MILKING IN ONE DAY

00: -

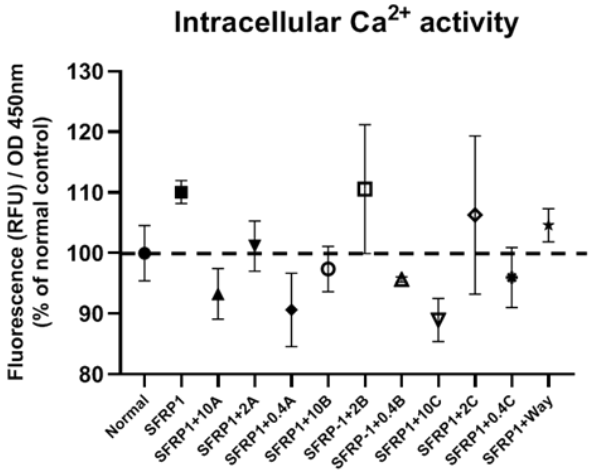
The present invention provides a method for estimating a whole-day milk fat yield by one-time sampling and testing for two-shift milking in one day. Through the above method, a whole-day milk fat yield can be accurately estimated by one-time sampling and testing, and thus a plenty of time and manpower are saved.

21: 2022/08842. 22: 2022/08/08. 43: 2022/11/23
51: A61K
71: ZHANG Yan, WANG Shuqing
72: ZHANG Yan, WANG Shuqing

54: A COMPOUND FOR PREVENTING AND TREATING MYOPIA

00: -

The invention discloses a compound for preventing and treating myopia, which belongs to the technical field of pharmaceutical preparations. The chemical formula of the compound is $C_{20}H_{18}FN_3O$, or $C_{21}H_{18}BrFN_2O$, or $C_{20}H_{19}BrFN_3O$. The compound provided by the invention can target SFRP-1 protein in non-canonical Wnt/Ca_{2+}/CaMI signaling pathway, and is a specific inhibitor of SFRP-1 with strong affinity to SFRP-1 protein, long half-life, obvious effect, and reduced side effect. Through targeted binding to the active site of SFRP-1 protein, it can effectively antagonize the increase in intracellular Ca_{2+} concentration caused by SFRP-1, thereby inhibiting non-canonical Wnt/Ca2+/CaMK signaling.

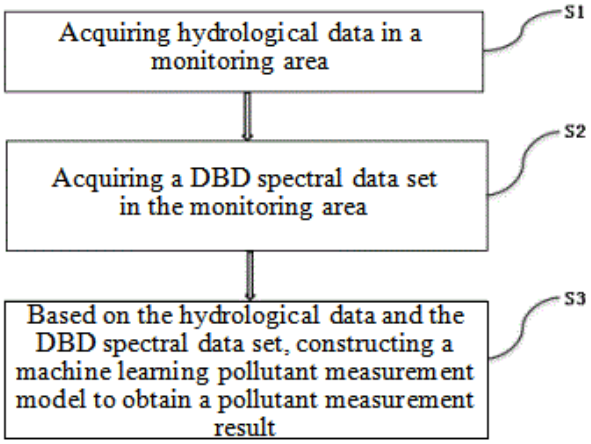


21: 2022/08844. 22: 2022/08/08. 43: 2022/11/23
51: G01J
71: Tianjin University, Tianjin University of Commerce
72: GUO Wei, CHEN Guanyi, TAO Junyu, YAN Beibei, HOU Donghao, CHENG Zhanjun, LI Jian, LI Ning, CUI Xiaoqiang, LIN Fawei

54: METHOD FOR DETERMINING POLLUTANTS BY COMBINING DBD SPECTROSCOPY WITH MACHINE LEARNING

00: -

The invention discloses a method for determining pollutants by combining DBD spectroscopy with machine learning, which comprises the following steps: acquiring hydrological data in a monitoring area; acquiring a DBD spectral data set in the monitoring area; based on the hydrological data and the DBD spectral data set, constructing a machine learning pollutant measurement model to obtain a pollutant measurement result. The combination of DBD spectrum and machine learning can effectively detect the components of pollutants in water bodies, and also determine the characteristics of unknown pollutants, so that the same pollutants can be detected in the future. It can accurately locate the source of pollution, track the continuously spreading polluted areas, and show the real-time situation of hydrological pollution, which can show the hydrological pollution situation in the monitoring area more comprehensively and accurately. The data cleaning ensures the accuracy of data sources, thus improving the accuracy of pollutant determination.

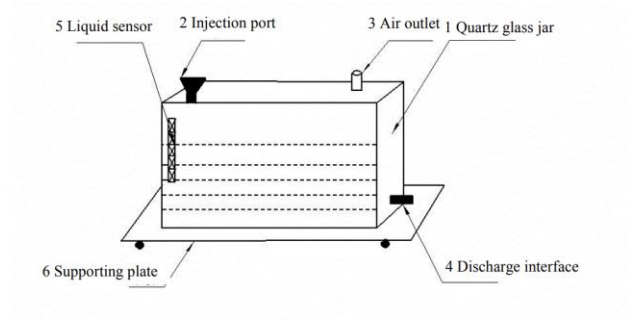


21: 2022/08845. 22: 2022/08/08. 43: 2022/11/23
51: C12H
71: Shenyang University of Technology
72: Liu Weiwei, Zou Mingyang, Fang Wei, Zhao Chentong, Qi Shuo, Zhang Yifan, Yan Siyu, Huang Xiaoyue

54: WINE AGING DEVICE AND AGING METHOD BASED ON TERAHERTZ TECHNOLOGY

00: -

The invention belongs to the technical field of wine brewing, in particular to wine aging device and aging method by terahertz wave, which are mainly used for accelerating the aging of new wine. It is characterized in that the top of quartz glass jar containing wine is provided with an injection port and an air outlet, the bottom of quartz glass jar is provided with a discharge interface, and the interior of quartz glass jar is provided with a liquid sensor; the whole quartz glass jar is arranged in a thermal container with an exhaust fan to communicate with the outside, and two terahertz plates are symmetrically arranged in thermal container just opposite to the quartz glass jar. For the method, conduct chromatographic analysis on the to-be-aged wine by using a three-phase chromatograph, determine the terahertz wave radiation band matching with the absorption peak band of the wine chromatogram to prepare the corresponding terahertz wave generating plates, and calculate the optimum aging time of wine. The invention aims to accurately determine and shorten the aging time, and improve the aging efficiency and quality.

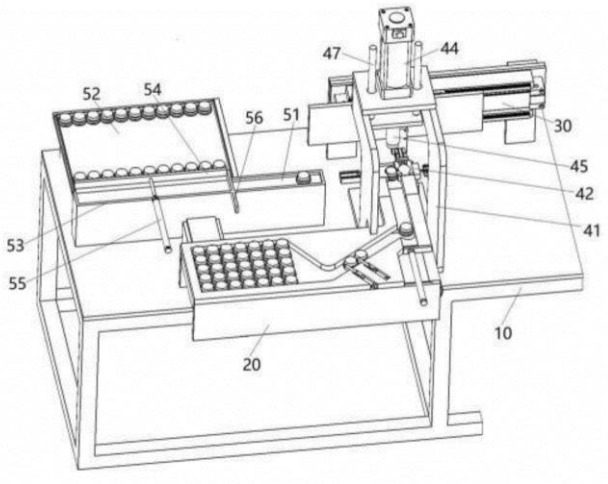


21: 2022/08846. 22: 2022/08/08. 43: 2022/11/23
51: B23Q
71: Jiashan APM Industrial Bushing Co., Ltd.
72: Li Jianqing, Li Yingjie

54: AUTOMATIC PROCESSING DEVICE FOR BEARING OUTER RING AND THE PROCESSING METHOD THEREOF

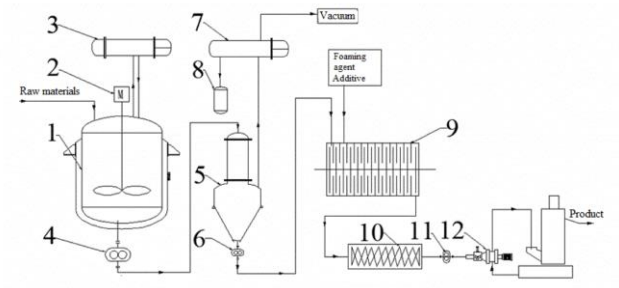
00: -

The invention discloses an automatic processing device for bearing outer ring. A feeding mechanism comprises a feeding conveyor belt, a feeding platform and a guide plate, wherein the guide plate is sequentially provided with the first through hole, the second through hole and the third through hole; two material blocking cylinders with material blocking strips are installed on the guide plate; the right end of the third through hole is communicated with a feeding channel, and a feeding pusher is arranged in the feeding channel; the positioning cylinder drives the positioning block to clamp and fix the bearing outer ring; the gripper cylinder clamps the bearing outer ring and is driven by the material moving cylinder and the translation cylinder to lift or translate; the material receiving mechanism comprises a material receiving platform and a material storage platform, and the material pushing plate is driven by the material pushing cylinder to orderly store the quantitative bearing outer rings on the material receiving platform onto the material storage platform. The invention is provided with compact structure, convenient in use, can automatically and orderly feed and unload the bearing outer ring, and can orderly store the finished bearing outer ring.

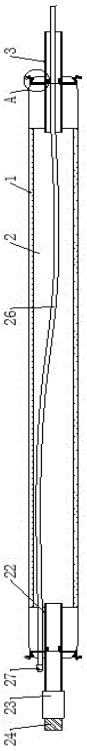


21: 2022/09022. 22: 2022/08/12. 43: 2022/10/19
51: C08F

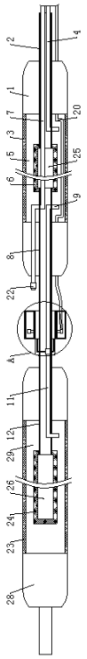
71: Guangdong University of Petrochemical Technology
72: Guiyin Li, Zhide Zhou, Zhongmin Su, Xinchun Zhou, Huizhi Liu
33: CN 31: 202210767027.8 32: 2022-06-30
54: DEVICE FOR PRODUCING GRAPHITE-TYPE EXPANDABLE POLYSTYRENE BY BULK POLYMERIZATION
00: -
A device for producing graphite-type expandable polystyrene (EPS) by bulk polymerization includes a polymerization reaction unit, wherein the polymerization reaction unit is connected with a heating devolatilizer via a discharging pump; a condenser and a vacuum collecting tank are connected at the upper end of the heating devolatilizer; a mixer, a melt heat exchanger, a pump and a high-pressure underwater pelletizing system are connected successively with the heating devolatilizer at the bottom via a pump, a connector for adding a foaming agent and a molten graphite masterbatch is arranged at the front end of the mixer. The materials for producing graphite-type EPS by the device are based on the following ratio: 80-95 kg of styrene, 2-10 kg of solvent, 0.5-8 kg of additive and 2-18 kg of graphite masterbatch. The EPS has a particle diameter of 0.8-1.1 mm; less monomer residues and waste water are produced in the production process.



21: 2022/09028. 22: 2022/08/12. 43: 2022/11/09
51: E21B
71: NORTH CHINA INSTITUTE OF SCIENCE & TECHNOLOGY, XI'AN RESEARCH INSTITUTE CO. LTD., CHINA COAL TECHNOLOGY AND ENGINEERING GROUP CORP, CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, CCTEG CHINA COAL RESEARCH INSTITUTE
72: XU Bin, DONG Shuning, YIN Shangxian, LIAN Huiqing, YI Sihai, LI Shuxia, MA Hewen, XIA Xiangxue, WANG Hao, WEI Yuan
54: DOUBLE-END WATER SHUTOFF DEVICE AND METHOD FOR PREVENTING BOREHOLE PLUGGING
00: -
The invention discloses a double-end water shutoff device for preventing borehole plugging, which comprises a first rubber water shutoff, a second rubber water shutoff, a first water injection assembly, a second water injection assembly and a rotating support assembly, wherein the first rubber water shutoff is detachably connected with the second rubber water shutoff, and the first water injection assembly is arranged in the first rubber water shutoff and the second rubber water shutoff. According to the invention, the rotating support assembly is arranged, and the universal wheel directly contacts with the hole wall, so that people can push the first rubber water shutoff and the second rubber water shutoff into the hole more quickly; the universal wheel can reduce the friction between the first rubber water shutoff and the second rubber water shutoff and the inner wall of the hole, prevent the rubber capsules on the outer surfaces of the first rubber water shutoff and the second rubber water shutoff from being scratched due to excessive friction, reduce the abrasion of the first rubber water shutoff and the second rubber water shutoff, and prolong the service life of the first rubber water shutoff and the second rubber water shutoff.

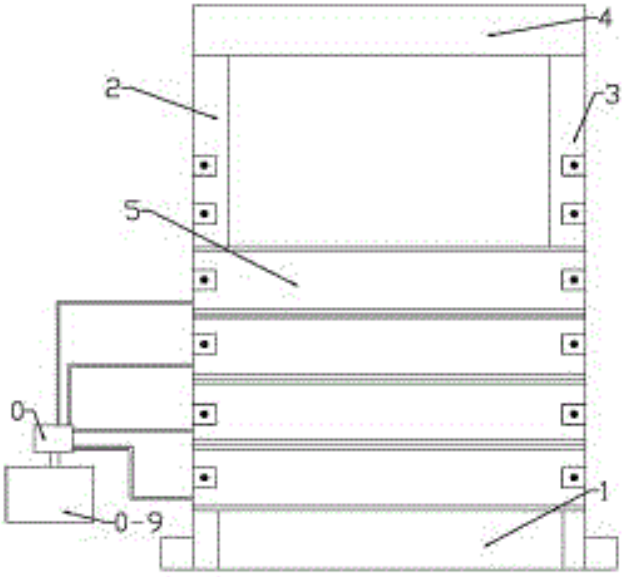


21: 2022/09029. 22: 2022/08/12. 43: 2022/11/09
51: E21B
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, NORTH CHINA INSTITUTE OF SCIENCE & TECHNOLOGY, XI'AN RESEARCH INSTITUTE CO. LTD., CHINA COAL TECHNOLOGY AND ENGINEERING GROUP CORP, JILIN UNIVERSITY
72: LI Shuxia, XU Bin, DONG Shuning, YIN Shangxian, DAI Zhenxue, LIAN Huiqing, YI Sihai, HUANG Hao
54: DOUBLE-END WATER SHUTOFF DEVICE AND METHOD WITH INTEGRATED DRILLING PEEP FUNCTION
00: -
The invention discloses a double-end water shutoff device with integrated drilling peep function, which comprises a first shell, a second shell, a water injection component, an inflation component, a peeping component and a plugging component, wherein the first shell and the second shell are movably connected, the water injection component is arranged in the first shell and the second shell, the inflation component is arranged in the first shell and the second shell, and the plugging component is arranged on the surfaces of the first shell and the second shell, and the peeping component is located between the first shell and the second shell. By arranging the peeping component, the peeper probe is located between the two capsules of the double-end water shutoff device, so that all-round observation of the borehole wall can be realized, and the display screen of the peeper probe is connected, and the peeper probe can help people to view the real situation in the borehole, and can also photograph and record the situation in the borehole for people, and facilitate people to record and analyze the borehole situation.



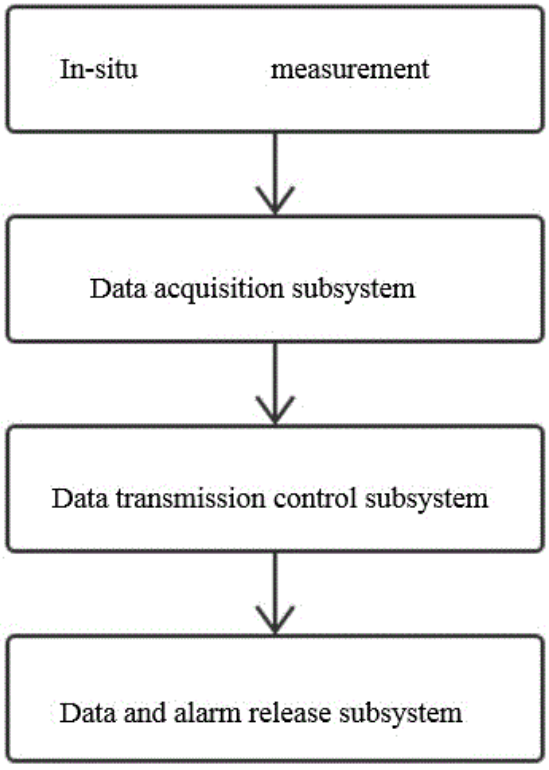
21: 2022/09031. 22: 2022/08/12. 43: 2022/11/09
51: G01M
71: NORTH CHINA INSTITUTE OF SCIENCE & TECHNOLOGY
72: YI Sihai, XU Bin, WU Jinsui, YIN Shangxian, WANG Yun, WANG Yue, ZHONG Rui, GAO Pengcheng, CHEN Zheng
54: EXPERIMENTAL METHOD FOR FLUID-SOLID COUPLING PHYSICAL SIMULATION IN CONFINED AQUIFER
00: -
The invention disclose an experimental method of fluid-solid coupling physical simulation in confined aquifer, which adopts similar materials such as sandstone, gypsum, calcium carbonate, Vaseline, paraffin and that like to simulate rock layers, and makes a confined aquifer in a similar simulate overburden layer, so that the confined aquifer is located at a test set position in the similar simulated

overburden layer; the confined aquifer comprises an inner water storage belt, an outer sealing belt and a water injection pipe, wherein the outer sealing belt completely covers the inner water storage belt, and the mechanical strength of the inner water storage belt and the outer sealing belt is the same or similar; the water outlet end of the water injection pipe is located in the inner water storage belt, and the water supply end of the water injection pipe passes through the outer sealing belt and is led out of a similar simulation test device. This method plays a very good role in sealing the inner water storage zone. Because the mechanical strength of the inner water storage zone and the outer sealing zone are the same or similar, the method does not affect the mechanical strength of the whole rock stratum or the mechanical movement of the rock stratum after excavation, and it can well simulate the movement law of the pressure-bearing aquifer in actual mining.



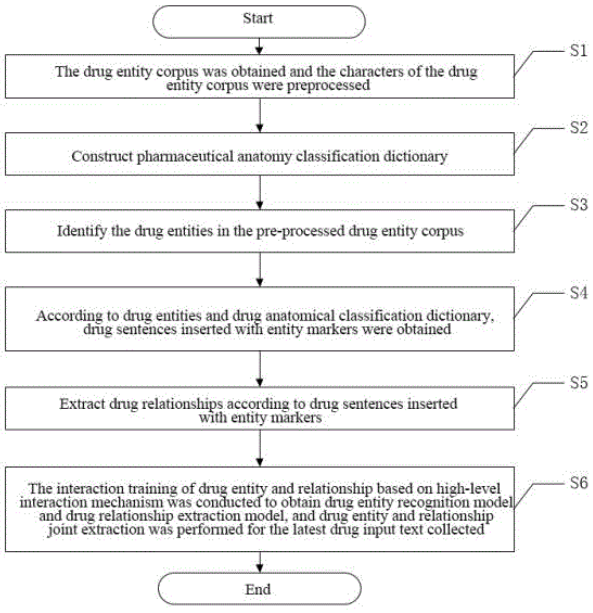
21: 2022/09032. 22: 2022/08/12. 43: 2022/11/09
51: E21F
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, NORTH CHINA INSTITUTE OF SCIENCE & TECHNOLOGY, INSTITUTE OF DISASTER PREVENTION
72: YIN Huichao, XU Bin, LIAN Huiqing, YIN Shangxian, XIA Xiangxue, LIU Demin, ZHANG Gaizhuo
54: MINE WATER INRUSH DISASTER MONITORING AND EARLY WARNING SYSTEM AND CONTROL METHOD THEREOF
00: -

The invention discloses a mine water inrush disaster monitoring and early warning system and a control method thereof, wherein the early warning system comprises an in-situ measurement subsystem, a data acquisition subsystem, a data transmission control subsystem and a data and alarm release subsystem; the control method comprises the following steps: measuring early warning index data in real time; setting test parameters, downloading and transmitting the test parameters; collecting data in early warning index data based on test parameters to obtain test data; display the test data in a timely curve and number, and import it into the early warning mode, and analyze whether there is danger based on big data, cloud computing and machine learning technology; in case of danger, give an alarm by means of sound, image, text and mobile communication; repeat the above process until the end of monitoring and warning. Through big data, cloud computing and machine learning technologies, the invention realizes intelligent data processing and accurate prediction of mine disasters.



21: 2022/09086. 22: 2022/08/15. 43: 2022/11/25
51: G06F

71: University of Electronic Science and Technology of China
72: Jiajing Zhu, Haohan Deng, Yongguo Liu, Yun Zhang, Qiaoqin Li
33: CN 31: 202210425479.8 32: 2022-04-21
54: A JOINT EXTRACTION METHOD OF DRUG ENTITIES AND RELATIONSHIPS BASED ON HIGH-LEVEL INTERACTION MECHANISM
00: -
The invention discloses a joint extraction method of drug entity and relationship based on high-level interaction mechanism, including the following steps: S1: Obtain drug entity corpus, and preprocess the characters of drug entity corpus; S2: Construct pharmaceutical anatomy classification dictionary; S3: Identify drug entities in the pre-processed drug entity corpus; S4: Get drug sentences inserted with entity markers; S5: Extract drug relationships; S6: Conduct interaction training of drug entity and relationship based on high-level interaction mechanism, and use drug entity recognition model and drug relationship extraction model to conduct joint extraction of drug entity and relationship for the latest drug input text collected. The invention solves the error propagation problem of joint extraction, and introduces the text annotation mechanism based on ATC coding after completing the drug entity recognition task to improve the accuracy of drug relationship extraction.



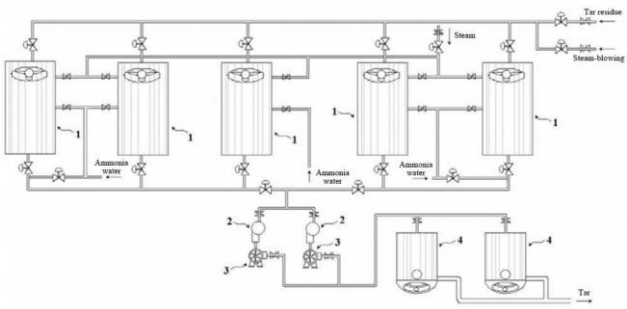
21: 2022/09087. 22: 2022/08/15. 43: 2022/11/25
51: C22C
71: Institute of Applied Physics, Jiangxi Academy of Sciences
72: Wei Guo

54: A HIGHLY CONDUCTIVE CU-AG ALLOY AND ITS POWDERY PREPARING METHOD
00: -
The invention discloses a Cu-Ag alloy and its powdery preparation method that adopting the powder, it belonging to the technical field of copper alloy. The alloy composition and weight percentage is: Ag: 0.1-10.0%, Mg: 0.2-1%, Ni: 0.1-0.5%, the remaining part is Cu and inevitable impurities. The alloy preparation method includes the following steps: (1) Adding Cu powder to silver sulfate solution to obtain Ag surface-replaced Cu powder; (2) Put the Cu powder that replaced with the Ag on the surface, pure Cu powder, Cu-Mg intermediate alloy powder, and Cu-Ni intermediate alloy powder into the steel mold, using hydraulic press at room temperature to make billet; (3) The billet and mold are heated in a vacuum and pressed further; (4) The bar is obtained by pressing the billet for equal channel angle extrusion; (5) The bar is drawn multiple times at room temperature to get the wire. (6) The wire is annealed in vacuum. The whole preparation process of the invention is carried out in the solid phase temperature range, the raw material has no melting and burning loss, and the solid solution of Ag, Mg and Ni in Cu is effectively avoided. The alloy composition is accurate and has high conductivity performance, and the application range is wide.

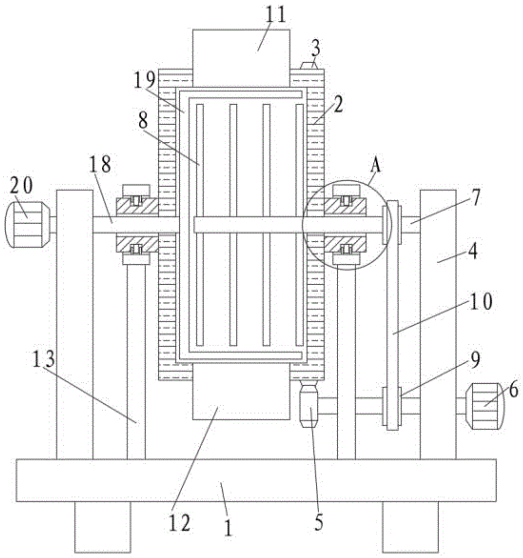
21: 2022/09088. 22: 2022/08/15. 43: 2022/11/25
51: C22C
71: Institute of Applied Physics, Jiangxi Academy of Sciences
72: Wei Guo
54: A CU-AL ALLOY AND PLASTIC FORMING METHOD
00: -
The invention relates to a conductive Cu-Al alloy and its plastic forming method, it belonging to the field of copper alloy. The composition and weight percentage of the material are as follows: Al: 0.5-20.0%, Ti: 0.1-0.5%, Zn: 0.1-0.3%, Fe: 0.1-0.2%, La: 0.05-0.2%, Ce: 0.05-0.3%, Nd: 0.05-0.2%, the remaining part is Cu and unavoidable impurities. The alloy plastic forming process of the invention is as follows: Firstly, the master alloy of pure Cu, pure Al,

Al-Ti, Al-Zn, Al-Fe, Al-La, Al-Ce, Al-Nd is processed into chips and mixed, and then put into the steel mold. Hydraulic press is used for cold pressing and hot pressing, and then the billet ingot is extruded into bar, and then the bar is drawn from coarse to fine at room temperature by drawing machine. Finally, the wire is annealed in vacuum to obtain highly conductive Cu-Al alloy. The alloy prepared by the invention does not need melting process, and can greatly reduce the solid solution amount of Al and other elements in Cu, so as to significantly improve the conductive property of the alloy, and broaden the application range of the alloy.

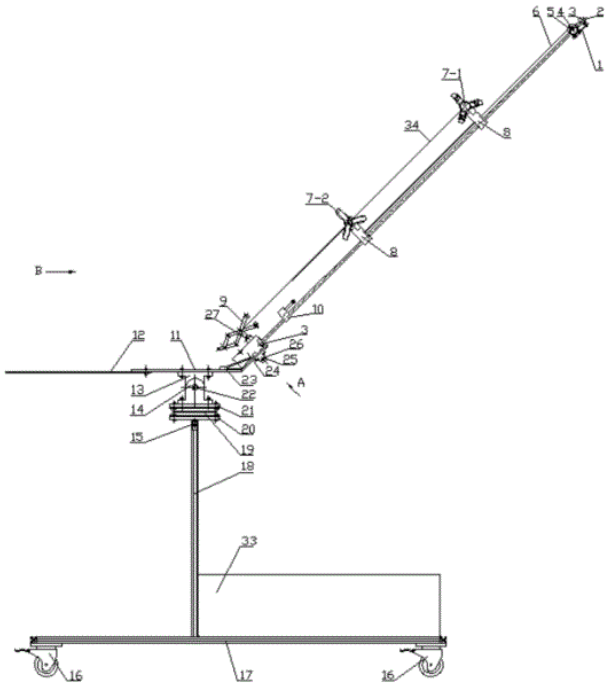
21: 2022/09089. 22: 2022/08/15. 43: 2022/11/25
51: C10G
71: Anhui Firstt Smarttech Co., Ltd.
72: SUN, Zhanglian, XIA, Chonggui, JIN, Yufeng
54: FULL-AUTOMATIC TAR RESIDUE HARMLESS TREATMENT METHOD
00: -
The present invention discloses a full-automatic tar residue harmless treatment method, and belongs to the technical field of tar residue treatment. In the present invention, a tar residue is firstly disintegrated by a liquefaction tank, heated and stirred, and conveyed to a centrifuge with a pump after being grinded, the tar residue is separated into tar and residue powder, and while disintegrated in the liquefaction tank, ammonia water and steam are fed into an external ammonia water jacket of the liquefaction tank to control the temperature in the liquefaction tank, and the temperature is controlled at 65°C±3°C, which may reduce the viscosity of the tar residue, and a pipeline and a device for conveying the tar residue are pre-heated and washed before the tar residue is conveyed, the smooth flow of the tar residue is effectively guaranteed.



21: 2022/09090. 22: 2022/08/15. 43: 2022/11/25
51: B01F
71: Jilin Jianzhu University
72: Shuai Zhang, Yabing Liu
54: A RAW MATERIAL NANO-COMMINUTION MIXING DEVICE AND ITS METHOD
00: -
The invention relates to the technical field of nanomaterial processing, in particular to a raw material nano-comminution mixing device and its method. It comprises a base, the top of the base is provided with a limiting component, and the base is connected with a tank body through a limiting component in rotatory way, the tank body is provided with a stirring mechanism, and the tank body is provided with a scraping component. Stirring mechanism includes straight gear ring, fixed frame, spur gear, the first motor, mixing components; The top of the base is fixedly arranged on both sides of the tank, and the outer side of the tank is fixedly arranged with a spur gear ring. The first motor of the invention drives the straight gear ring to rotate, and the straight gear ring drives the tank to rotate through the straight gear ring. The first motor drives the first fixed shaft to rotate through the synchronous wheel and the synchronous belt, and the first fixed shaft rotates to drive the stirring blade to rotate the stirring material, because the tank and straight gear ring rotate in the opposite direction. The stirring blade and straight gear ring rotate in the same direction, so that the stirring blade and the tank rotate in the staggered direction, to improve the mixing effect of materials.

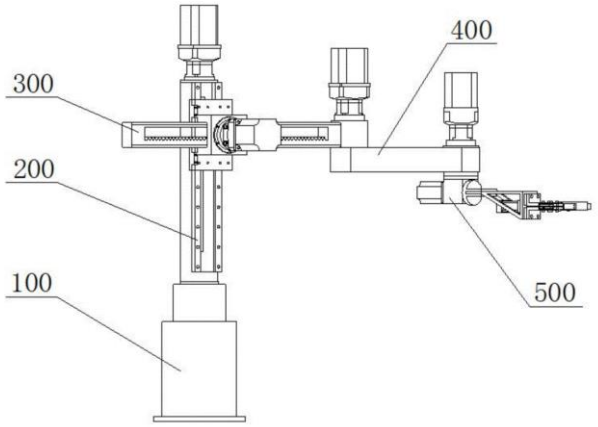


21: 2022/09092. 22: 2022/08/15. 43: 2022/11/25
51: A01D
71: Shenyang University of Technology
72: WANG Heying, QU Xinghua
54: A DOUBLE TRACK LINKAGE FRUIT PICKING DEVICE
00: -
The invention relates to a double track linkage fruit picking device, which comprises a frame part, a control mechanism and a picking mechanism. The frame part comprises a base, a moving wheel, a support rod and a collection box. The collection box is fixed in front of the base, and four moving wheels are installed at the bottom of the base. The lower end of the support rod is fixed in the middle of the base, and the upper end of the support rod is connected with the control mechanism; The control mechanism includes a control platform and a rotating shaft. The picking mechanism is connected with the control platform and is located above the front of the control platform. The picking mechanism is a double rail linkage mechanism. The picking mechanism includes a slide rail slider mechanism, a pulley mechanism and a gripper. The gripper is fixed on the control platform. When the fruit picking device is picking fruit, the picking action of two picking hands is linked, which greatly improves the picking efficiency. The design of the control mechanism can realize the rotation and elevation of the picking mechanism, increase the picking range, reduce the movement of the picking device, and realize the fruit picking at any position on the fruit tree.



21: 2022/09093. 22: 2022/08/15. 43: 2022/11/25
51: F16P
71: Shenyang University of Technology
72: GUO Zhongfeng, LIN Shaokun
54: A HANDLING MANIPULATOR
00: -
The present invention belongs to the field of manipulator, and relates to a metal blank transport manipulator, in particular to a transport manipulator capable of automatically clamping, turning and holding. The manipulator includes a spindle rotation module, a longitudinal movement module, a lateral movement module, a swing module and a gripper module, which are characterized in that the spindle rotation module mainly supports the whole system and realizes the rotation movement of the whole composed of the longitudinal movement module, the lateral movement module, the swing module and the gripper module around the driving shaft of the column. The longitudinal movement module is to realize the horizontal movement module, the swing module The gripper module is composed of a whole body moving in the vertical direction, the lateral movement module is to realize the lateral movement of the whole body composed of the lateral movement module, the swing module and the gripper module, and the swing module and the gripper module are to realize the swing and rotation

functions of the gripper. The invention overcomes the disadvantage of using manpower to realize the clamping, turning and shifting process of bearing ring blank in the forging process of bearing ring, not only improves the product accuracy, production efficiency and automation level, but also reduces the cost for enterprises.

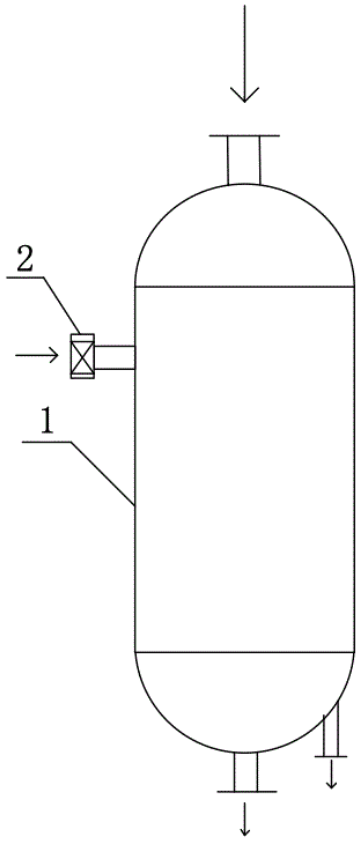


21: 2022/09095. 22: 2022/08/15. 43: 2022/11/25
51: C07C
71: NANJING YANCHANG REACTION TECHNOLOGY RESEARCH INSTITUTE CO. LTD
72: ZHANG, Zhibing, ZHOU, Zheng, ZHANG, Feng, LI, Lei, MENG, Weimin, WANG, Baorong, YANG, Gaodong, LUO, Huaxun, YANG, Guoqiang, TIAN, Hongzhou

54: MICRO-INTERFACIAL STRENGTHENING REACTION SYSTEM

00: -

The invention discloses a micro-interfacial strengthening reaction system, including: a reactor main body, used as a reaction chamber for gas-liquid, liquid-liquid, liquid-solid, gas-liquid-liquid, gas-liquid-solid and liquid-liquid-solid multiphase reaction medium to ensure the multiphase reaction medium is fully reacted; and a micro-interfacial generator, connected to the reactor main body, used for breaking a gas phase and/or a liquid phase in the multiphase reaction medium into micro-bubbles and/or micro-droplets with a diameter of a micron-order in a predetermined action mode by mechanical microstructures and/or turbulent microstructures in the micro-interfacial generator before the multiphase reaction medium enters the reactor main body, in order to increase a mass transfer area of a phase boundary between the gas phase and/or the liquid phase and a phase boundary between the liquid phase and/or the solid phase, and to improve a mass transfer efficiency between the phases, such that a multiphase reaction is enhanced at a lower predetermined pressure range. The invention effectively solves the problems that the mass transfer rate is affected due to small contact area of the phase boundary of the reaction phase during the use of existing reaction strengthening system.



21: 2022/09102. 22: 2022/08/15. 43: 2022/11/25
51: A23C
71: Ningbo University
72: Daodong Pan, Zhen Wu, Xiaoqun Zeng

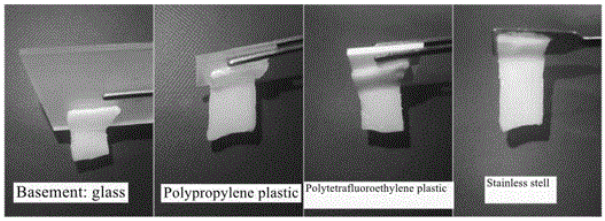
54: A PROCESSING METHOD OF YOGHOURT RICH IN RESVERATROL AND GAMMA-AMINOBUTYRIC ACID

00: -

The invention discloses a processing method of yoghourt rich in resveratrol and gamma-aminobutyric acid. The processing method is characterized by comprising the following steps of activating bacterial strains, and preparing a fermenting agent; preparing a glossy Ganoderma strain culture solution;

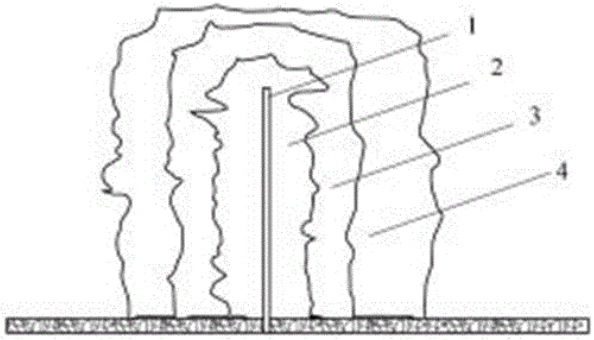
preparing a resveratrol extraction solution; preparing peanut sprouts and red bean sprouts; mixing the peanut sprouts with the red bean sprouts, performing grinding to obtain pulp, performing blending, performing inoculation, performing fermentation, and performing ripening; and finally preparing the yoghourt rich in resveratrol and gamma-aminobutyric acid. Compared with yoghourt made by fermentation of single lactic acid bacteria, the yoghourt made by this processing method has the advantages that the content of amino acids and polypeptide in the yoghourt is increased by 30-35%, the antioxidant activity is improved by 70-90%, the content of the resveratrol reaches to 20.0-35.0 ug/mL, the content of the gamma-aminobutyric acid reaches to 0.52-0.85 mg/mL, and the flavour and the nutrient value of the yoghourt are increased.

21: 2022/09103. 22: 2022/08/15. 43: 2022/11/25
51: C08J
71: Taiyuan University of Technology, SHANXI-ZHEDA INSTITUTE OF ADVANCED MATERIALS AND CHEMICAL ENGINEERING
72: Lan Jia, Qiang Zheng, Jiahao Shen, Jingxin Zhu, Hongwei He, Zhiyi Zhang
33: CN 31: 202210089764.7 32: 2022-01-25
54: ACRYLATE MODIFIED POLYURETHANE ADHESIVE HYDROGEL MATERIAL AND ITS PREPARATION METHOD
00: -
The invention belongs to the field of hydrogel materials and their preparation methods. The specific technical scheme is: acrylate modified polyurethane adhesive hydrogel materials and their preparation methods, including the following parts by weight of raw materials: acrylate modified polyurethane lotion 5-90 parts, water-soluble initiator 0.4 parts, gel monomer 8-15 parts, water 0-80 parts. The invention modifies polyurethane through acrylate end capping, The polyurethane lotion particles can directly participate in the free radical polymerization reaction. Due to the difference in hydrophilicity, the polyurethane lotion is used as a stable phase and crosslinks the polyacrylamide chain. The polyurethane lotion enables gel to have outstanding adhesion performance under the premise of high crosslinking degree. The adhesion target covers all kinds of organic and inorganic materials including polytetrafluoroethylene, and the water resistance is also improved. This adhesive hydrogel material can be used as the matrix of wearable flexible sensors, and has a wide range of application characteristics.

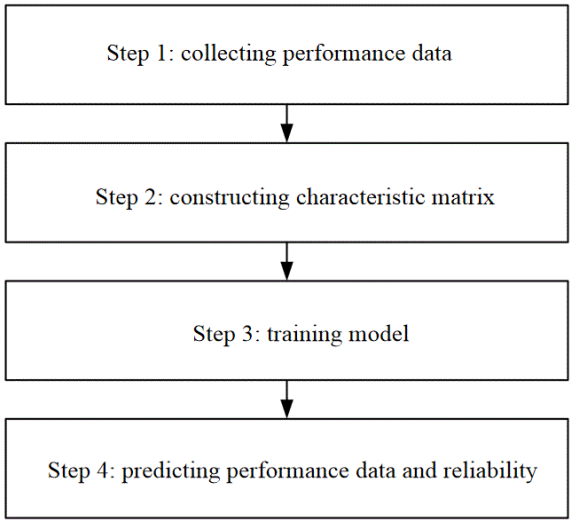


21: 2022/09148. 22: 2022/08/16. 43: 2022/11/25
51: E21B
71: Shaanxi mining branch of Huaneng Coal Industry Co., Ltd., Anhui University of Science and Technology, Anhui chen'an Mine Support Technology Co., Ltd., Huaneng Coal Technology Research Co., Ltd., Xichuan coal mine branch of Huaneng Tongchuan Zhaojin Coal Power Co., Ltd.
72: ZHOU Xiang, WANG Yilong, LU Xingyi, ZHANG Duxue, LI Hanhan, LIU Chengbo, LI Yongyuan, ZHANG Lei, JING Laiwang, JING Wei, XUE Weipei, HAO Pengwei, CAO Feifei
33: CN 31: 202111088550X 32: 2021-09-16
54: GROUTING METHOD FOR REINFORCING SURROUNDING ROCK OF THREE-SOFT MINING ROADWAY
00: -
Disclosed is a grouting method for reinforcing surrounding rock of a three-soft mining roadway, which belongs to the field of mine support. The grouting method for reinforcing the surrounding rock of a three-soft mining roadway comprises the following construction steps: (1) firstly, drilling a grouting hole in an area needing grouting by a drilling machine; (2) carrying out low-pressure grouting on the broken coal rock mass through the grouting hole; (3) stopping grouting after the completion of the low-pressure grouting stage; (4) then, carrying out medium-pressure grouting on the broken coal rock mass through the grouting hole; (5) stopping grouting after the completion of the medium-pressure grouting stage; and (6) finally, carrying out high-pressure grouting on the broken coal rock mass through the grouting hole. According to the invention, the grouting range is gradually expanded and the grouting density is increased by means of staged pressurization, so that the grouting quality is ensured, the leakage of the grouting liquid

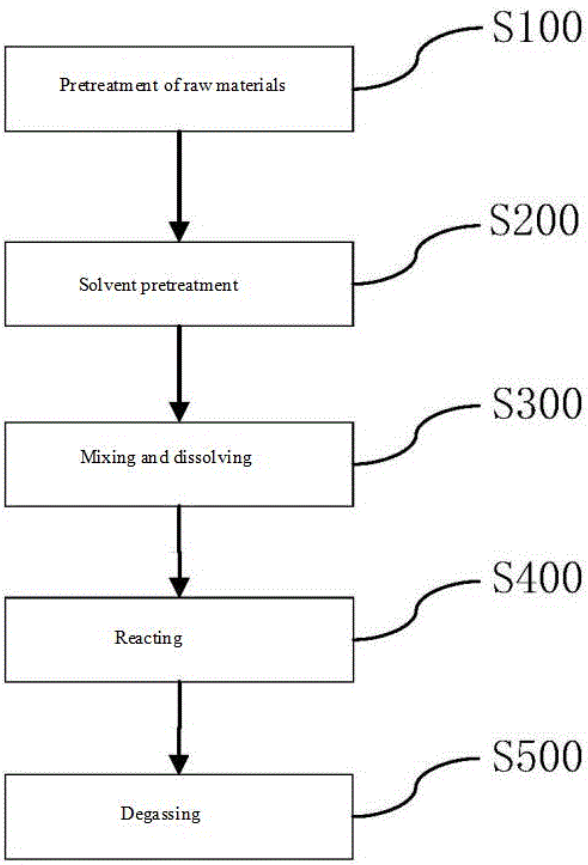
is greatly reduced, and the surrounding rock of the roadway is effectively reinforced.



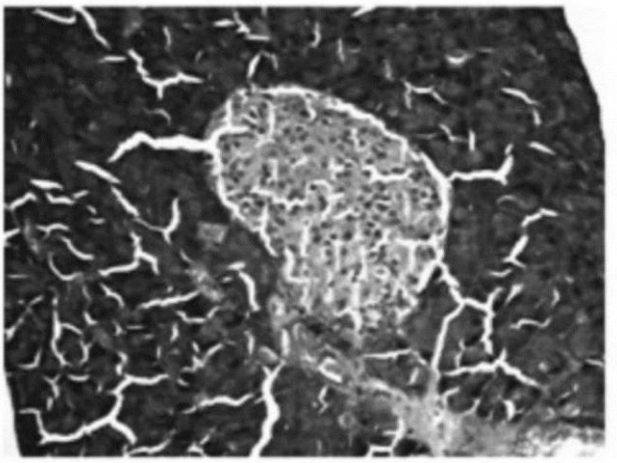
21: 2022/09149. 22: 2022/08/16. 43: 2022/11/28
51: G06N
71: BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTURE
72: WANG Jinhai, LIN Yunlei, YANG Jianwei, YAO Dechen
33: CN 31: 2022109554055 32: 2022-08-10
54: PERFORMANCE PREDICTION METHOD OF ELECTROMECHANICAL EQUIPMENT BASED ON PROBABILISTIC DEEP NEURAL NETWORK MODEL
00: -
This invention discloses a performance prediction method of electromechanical equipment based on probabilistic deep neural network model, which includes: constructing a prediction model of probabilistic deep neural network; acquiring a performance parameter vector of electromechanical equipment, and training the prediction model through the performance parameter vector; and predicting the performance data and reliability of electromechanical equipment based on the trained prediction model. The invention predicts the evolution trend of performance and reliability of electromechanical equipment at the same time, makes up the shortcomings of traditional methods in reliability prediction and risk control, and realizes accurate and rapid prediction of the health state of electromechanical equipment.



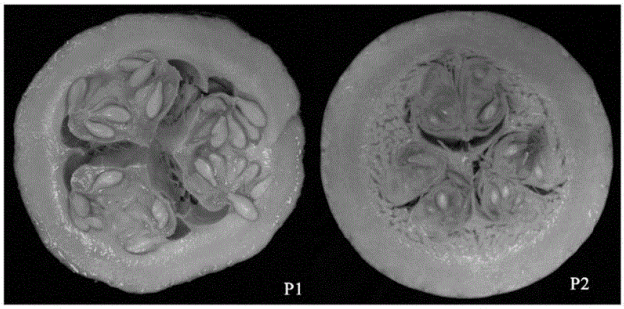
21: 2022/09150. 22: 2022/08/16. 43: 2022/11/25
51: C08L
71: Zhejiang Huangma Technology Co., Ltd., Zhejiang Huangma Shangyi New Material Co., Ltd., Zhejiang Huangma Special Surfactant Research Institute Co., Ltd., Zhejiang Lvkean Chemistry Co., Ltd
72: WANG Weisong, JIN Yifeng, WANG Ma Jishi, ZHANG Yu, KOU Ran
54: DIHYDROXYETHYL BISPHENOL A ETHER AND PREPARATION METHOD THEREOF
00: -
The invention relates to a dihydroxyethyl bisphenol A ether and a preparation method thereof. The dihydroxyethyl bisphenol A ether is prepared from bisphenol A, zinc-magnesium oxide catalyst, dihydroxyethyl bisphenol A ether, phosphoric acid assistant and ethylene oxide. By using bisphenol A as a raw material, zinc-magnesium oxide as a catalyst, phosphoric acid as an assistant, raw material dihydroxyethyl bisphenol A ether as a solvent, and then ethylene oxide as a chain extender, the solvent using dihydroxyethyl bisphenol A ether as a reaction material has lower cost and does not need to be removed compared with other solvents mentioned in the existing patent, thus thoroughly solving the complicated production procedures and environmental problems caused by solvents. Meanwhile, the reaction temperature is greatly reduced, by-products are also avoided, the product performance is stable, and there is no catalyst residue in the reaction product, which greatly saves the product purification cost.



21: 2022/09153. 22: 2022/08/16. 43: 2022/11/25
51: A61K
71: Zhejiang Academy of Agricultural Sciences
72: Zuofa ZHANG, Guoying LV, Jianfei CHEN, Shizhu LIU, Aizhen HE, Yuntao LI, Jinrong CHEN
54: HYPOGLYCEMIC COMPOSITION MAINLY COMPOSED OF SPARASSIS LATIFOLIA, PREPARATION METHOD AND APPLICATION THEREOF
00: -
This invention discloses a hypoglycemic composition mainly composed of Sparassis latifolia, preparation method and application thereof. The hypoglycemic composition consists of the following components in parts by weight: The preparation method adopts the gradual temperature rise and pressure rise method for supercritical CO2 extraction. The hypoglycemic composition is used in the preparation of hypoglycemic food or health products. The invention has outstanding hypoglycemic effect.



21: 2022/09155. 22: 2022/08/16. 43: 2022/11/25
51: C12N; C12Q
71: Vegetable Research Institute, Guangdong Academy of Agricultural Sciences
72: ZHONG Yujuan, HUANG Hexun, XUE Shudan, DU Hu, XIE Dasen, LU Sen, LIN Yue, YAO Chunpeng
54: KASP MOLECULAR MARKERS ASSOCIATED WITH THE MAJOR QTL FOR INOSITOL CONTENT IN PUMPKIN AND THEIR APPLICATIONS
00: -
The invention discloses KASP molecular markers associated with the major QTL for inositol content in pumpkin and their applications. In the present invention, the SNP molecular markers are at least one of (1) to (2), where (1) is located at the 2459706th base on chromosome 15 of Cucurbita moschata, and its base is G or A; (2) is the 2715672nd base on chromosome 15 of Cucurbita moschata, and its base is T or C. The KASP primer pair developed for these two molecular markers can quickly and accurately identify pumpkin varieties with high inositol content, which contributes to the improvement of pumpkin molecular breeding. Compared with traditional breeding and screening, its detectable sample size is large, which greatly saves cost and time.

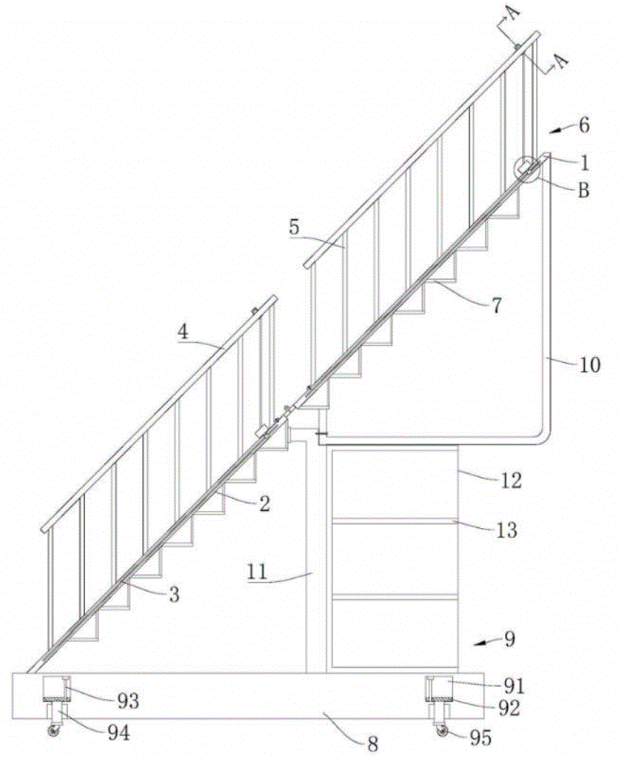


21: 2022/09160. 22: 2022/08/16. 43: 2022/11/25
51: A47L; E04F; F21Y
71: Henan University of Urban Construction
72: ZHU, Xiaofei, XIN, Yicheng, LIU, Huapei, SHEN, Hongtian, CHEN, Zhuo, GAN, Taoran, CHEN, Ruoxi

54: ARCHITECTURAL INDOOR STAIR CAPABLE OF BEING DISASSEMBLED AND ASSEMBLED

00: -

The present disclosure relates to the technical field of architecture, in particular to an architectural indoor stair capable of being disassembled and assembled, comprising a first main frame and a second main frame. Ends of the first main frame and the second main frame are hinged, pedals are evenly and fixedly mounted inside the first main frame and the second main frame, supporting rods are hinged to two sides of the first main frame and two sides of the second main frame correspondingly, handrails are hinged to upper ends of the supporting rods, sliding grooves are formed in the two sides of the first main frame and the two sides of the second main frame correspondingly, cleaning mechanisms are fixedly mounted inside the sliding grooves, and a reinforcing frame is fixedly mounted on the lower surface of the first main frame.



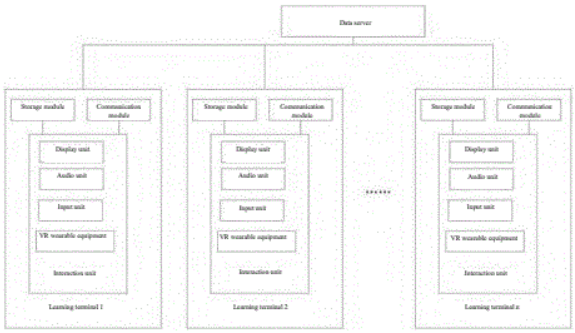
21: 2022/09161. 22: 2022/08/16. 43: 2022/11/25
51: G06F; G06T; G09B
71: Henan University of Urban Construction
72: ZHU, Xiaofei, XING, Yan, SHEN, Yuzhe, REN, Shengnan, WANG, Tong, LI, Yuwei, CHEN, Ruoxi

54: ARCHITECTURAL TEACHING SYSTEM ACHIEVING VIRTUALITY AND REALITY COMBINATION

00: -

The present disclosure relates to an architectural teaching system achieving virtuality and reality combination, comprising a data server and learning terminals; the data server is configured to store project data information; each learning terminal comprises an interaction module, a storage module and a communication module, the storage modules and the communication modules are both connected with the interaction modules, and the learning terminals communicate with the data server through the communication modules; each interaction module comprises a display unit, an audio unit and an input unit, corresponding project learning is selected through the input units, the storage modules of the learning terminals are accessed, project models, technological flows, equipment materials and tools of learned projects are displayed to learning terminal users through the display units,

and meanwhile voice expository teaching is performed in real time through the audio units.

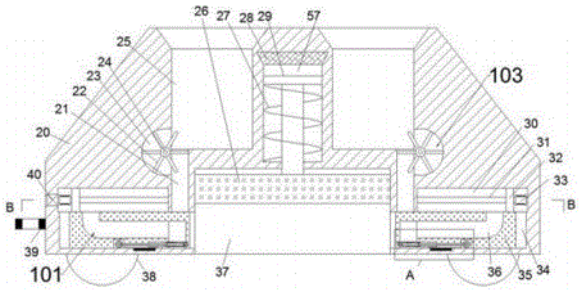


21: 2022/09162. 22: 2022/08/16. 43: 2022/11/25
51: B25B; B41J; H01L
71: Henan University of Urban Construction
72: LV, Dawei, YANG, Mingfei, XU, Jingsheng, WANG, Xibin, JI, Xiang

54: NON-CONTACT MAINTENANCE DEVICE FOR BROKEN ROAD

00: -

The present disclosure discloses a non-contact maintenance device for a broken road. The non-contact maintenance device comprises a device body, and an open cavity is formed in the device body; sliding cavities are formed in right and left side walls of the open cavity symmetrically, and a sliding block is slidably connected to each sliding cavity in a left-right direction; a conveying cavity for conveying maintenance raw materials is formed in each sliding block, and a top wall cavity is formed in a top wall of each sliding cavity; mesh wheels rotate to drive rotating shafts to rotate, and thus bevel gear sets are driven to rotate for driving bevel gear shafts to rotate; and closing plates are retracted into corresponding contraction cavities. In the disclosure, workers do not need to directly operate the maintenance raw materials, and therefore the related harm is avoided effectively.

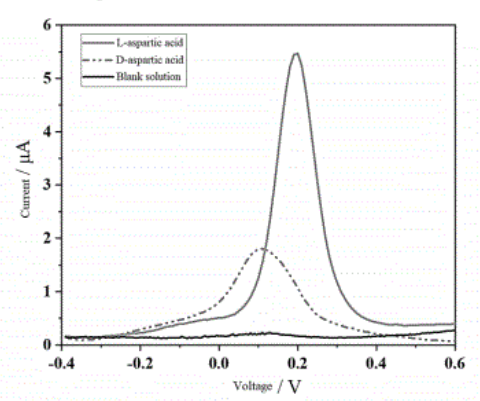


21: 2022/09163. 22: 2022/08/16. 43: 2022/11/25
51: G01N
71: Changzhou Institute of Technology
72: CHEN, Xiaohui, SHANG, Jiajing, CHEN, Yiyi, KONG, Xianqiang

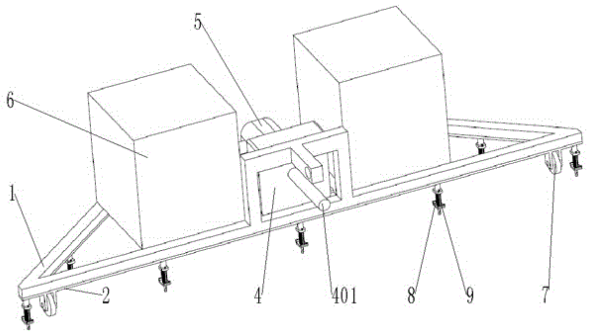
54: METHOD FOR ELECTROCHEMICAL RECOGNITION AND DETECTION OF ASPARTIC ACID ENANTIOMER AND APPLICATION THEREOF

00: -

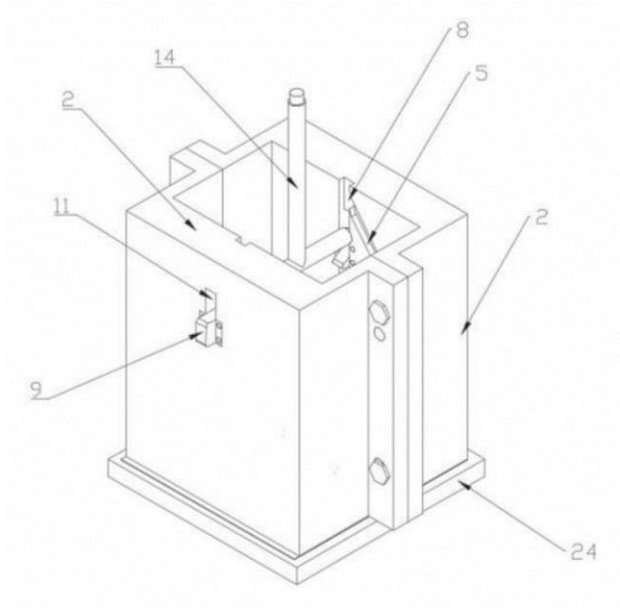
The present invention discloses a method for electrochemical recognition and detection of an aspartic acid enantiomer, including the following steps: placing in a to-be-tested solution a three-electrode system composed of a polyaniline-sulfonic salicylic acid membrane modified electrode as a working electrode, a saturated calomel electrode as a reference electrode and a platinum electrode as an auxiliary electrode; leaving the solution standing for a period of time; recording a differential pulse voltage-current curve; and realizing selective recognition of the aspartic acid enantiomer by comparing a peak current value with the standard curve. The polyaniline-sulfonic salicylic acid membrane modified glassy carbon electrode is obtained by one-step polymerization; the preparation is simple, the conditions are mild, and the cost is relatively low. The copolymer membrane modified electrode has a high recognition efficiency on the aspartic acid enantiomer.



21: 2022/09164. 22: 2022/08/16. 43: 2022/11/25
51: B26D
71: INNER MONGOLIA UNIVERSITY OF TECHNOLOGY
72: CEN Haitang, WEI Huijun, QIN Jianguo, CHEN Yuhong, LIU Jianlan
33: CN 31: 202210835202.2 32: 2022-07-15
54: MECHANICAL-WATER JET COMBINED ROOT CUTTER FOR GRASSLAND IMPROVEMENT
00: -
The invention discloses a mechanical-water jet combined root cutter for grassland improvement, which comprises a frame, wherein a steel pipe is embedded in the frame; the water supply mechanism is arranged on the top surface of the frame and comprises a gear speed-increasing box, a water flow booster pump and a water tank, one end of the gear speed-increasing box is in transmission connection with an external traction device, the other end of the gear speed-increasing box is in transmission connection with the water flow booster pump, one end of the water flow booster pump is communicated with the water tank, and the other end of the water flow booster pump is communicated with a steel pipe; the cutting mechanism is arranged on the bottom surface of the frame, and comprises a plurality of depth-limiting wheels and a plurality of retractable cutting components, and the cutting components are communicated with steel pipes. The invention can avoid splashing of ground soil and is beneficial to underground root cutting and loosening, which not only meets the agronomic requirements of root cutting, but also improves the energy utilization rate.



21: 2022/09165. 22: 2022/08/16. 43: 2022/11/25
51: B66C
71: Taian Qingsong Meter Co.,Ltd, Chang'an University
72: Huang Yan, Yin Guangqin, Yu Yang, Zhai Hengtao, Peng Tingting, Hu Xiaofeng, Sun Jian, Gao Jin
54: A FULL-MECHANICAL LIFTING CLUTCH DEVICE AND THE HOISTING METHOD THEREOF
00: -
The invention provides a full-mechanical lifting clutch device and the hoisting method thereof, and its structure comprises a clutch box body and a lifting boom, and two opposite side walls of the clutch box body are symmetrically provided with vertical linear grooves and inclined linear grooves which are in a parallelogram structure. And the vertical linear grooves and the inclined linear grooves are alternately connected and closed in turn to form the chutes. And a load-bearing eccentric cam is arranged in the vertical linear groove on the same line as the open groove, and a guiding eccentric cam is arranged in the inclined linear groove below. And the lifting boom comprises the main boom vertically arranged and a lifting lug rod vertically arranged and fixedly connected with the main boom, and two ends of the lifting lug rod can freely slide in the chute. The bottom of the clutch box body is provided with a strip groove, a connecting block is clamped in the strip groove, the connecting block and the clutch box body can slide face each other along the strip groove. According to the invention, the vertical linear motion of the mechanical structure can be adopted to complete the connection and separation of the lifted object and the boom, and the invention has the advantages of high reliability and low failure rate.

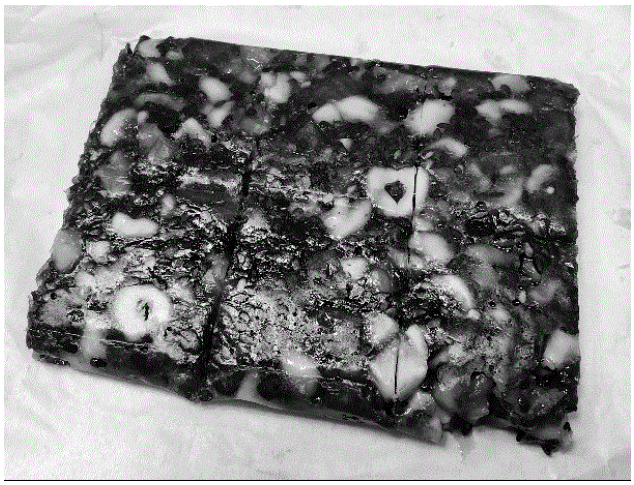


21: 2022/09166. 22: 2022/08/16. 43: 2022/11/25
51: A23L
71: Hainan Tropical Ocean University, Sanya Yazhou Bay South China Sea Deep Water Research Institute Co., Ltd
72: Hu Yaqin, Hu Zhiheng, Lu Zijing, Yang Xin, Xu Yuanzhe

54: POMFRET BONE EJIAO AND THE PREPARATION METHOD THEREOF

00: -

The invention discloses a pomfret bone ejiao and the preparation method thereof, and relates to the technical field of fishbone processing. The invention uses fishbone gelatin, red date, black sesame, walnut kernel and purified water as raw materials to prepare fishbone ejiao. Pomfret is used as the raw material for preparing the fishbone gelatin used in the invention, after pretreatment, the pomfret fishbones are obtained; the pomfret fishbones are subject to degreasing, enzymolyzing and fishy smell removal, and finally are subject to extracting in water bath, filtering and freeze-drying to obtain the pomfret bone ejiao. The invention makes full use of fishbone resources, improves the utilization value of fishbones and obtains ejiao products with high nutritional value.

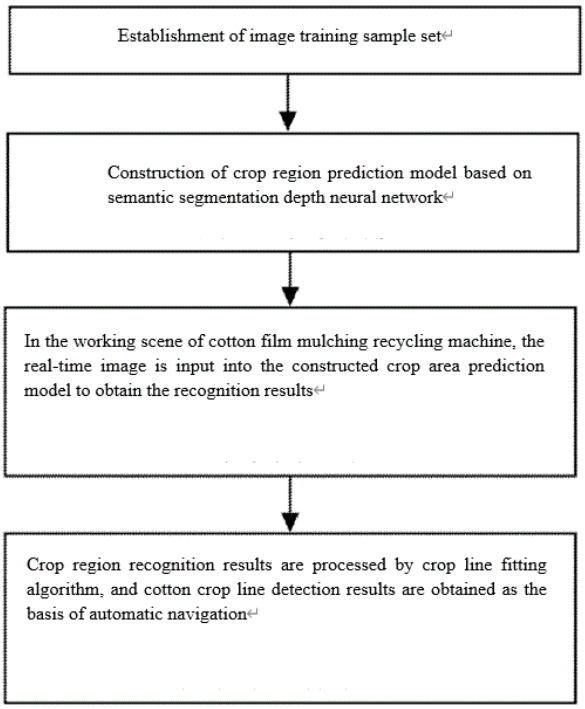


21: 2022/09189. 22: 2022/08/16. 43: 2022/11/25
51: G06K; G06T
71: ANHUI ZHONGKE INTELLIGENT PERCEPTION TECHNOLOGY CO., LTD.
72: WU, Xiaowei

54: COTTON CROP ROW DETECTION METHOD AND APPARATUS BASED ON COMPUTER VISION, AND STORAGE MEDIUM

00: -

A cotton crop row detection method and apparatus based on computer vision, and a storage medium. The method comprises the following steps: step 1: establishing an image training sample set; step 2: constructing a crop area prediction model based on a semantic segmentation deep neural network; step 3: in a working scenario of a cotton film mulching recovery machine, inputting a real-time image into the constructed crop area prediction model, so as to acquire a recognition result; and step 4: processing the recognition result of a crop area by means of a crop row fitting algorithm, so as to obtain a cotton crop row detection result and take same as the basis for automatic navigation. By means of the solution, an accurate classification result of cotton canopies is obtained, and a plurality of cotton crop rows are accurately detected, such that the basis for automatic navigation of towing machines is provided, and the obtained result has a high accuracy and a good robustness.



21: 2022/09268. 22: 2022/08/18. 43: 2022/10/19
51: B01D; B01J
71: TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING, M.O.T
72: Shipei Dong, Boqun Liu, Mingyu Guo, Shaoping Cui, Yingjie Zhao, Junjie Zhao, Wei Ye, Shina Li, Fang Chang, Huiting Li
54: OFF-ROAD DENITRATION CATALYST COATING MATERIAL AND ITS APPLICATION
00: -
Disclosed is an off-road denitration catalyst coating material. The coating material comprises the following components in percentage by mass: 40% to 85% of silicon dioxide, 10% to 50% of titanium dioxide, 0 to 20% of aluminum oxide and 0.5% to 20% of a metal oxide for providing acidic sites. Further disclosed is a method for preparing an off-road field modified denitration catalyst by using the coating material. The method comprises the following steps: 1) ball-milling precursors of the components of the coating material and purified water to obtain a slurry with a solid content of the coating material being 20% to 45%; 2) applying a layer of slurry to the surface of the denitration catalyst; 3) drying; and 4) calcining. According to the present invention, an existing denitration catalyst is improved, both the physical blocking on the toxic substances and a chemical effect between toxic substances and the coating film are taken into consideration, the inactivation process of the catalyst at the bottom is effectively delayed, and the cost efficiency of the catalyst application can be improved.

21: 2022/09307. 22: 2016/04/28. 43: 2022/10/20
51: H04J H04L
71: APPLE INC.
72: HUANG, Lei, SIM, Hong Cheng Michael, SAKAMOTO, Takenori
33: JP 31: 2015-113063 32: 2015-06-03
54: TECHNOLOGIES FOR TRANSMITTING OR RECEIVING AN AGGREGATE PHYSICAL LAYER PROTOCOL DATA UNIT
00: -
This transmission device comprises: a transmission signal generator that generates a transmission signal having an aggregate physical layer protocol data unit (aggregate PPDU) including a legacy preamble, a legacy header, a non-legacy preamble, a plurality of non-legacy headers, and a plurality of data fields; and a transmitter that transmits the generated transmission signal, wherein the legacy preamble, the legacy header, and the plurality of non-legacy headers are transmitted using a standard bandwidth, while the non-legacy preamble and the plurality of data fields are transmitted using a variable bandwidth greater than or equal to the standard bandwidth, and a plurality of sets of the non-legacy headers and the data fields corresponding thereto are sequentially transmitted in a time domain.

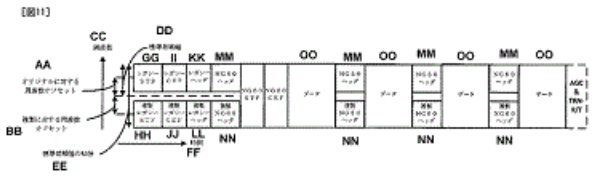


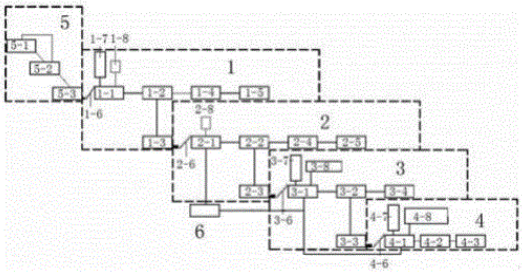
FIG. 11:
AA Frequency offset for original
BB Frequency offset for duplicate
CC Frequency
DD Standard bandwidth
EE M times greater than standard bandwidth
FF Time
GG Legacy STF
HH Duplicated legacy STF
II Legacy CEF
JJ Duplicated legacy CEF
KK Legacy header
LL Duplicated legacy header
MM NG60 header
NN Duplicated NG60 header
OO Data

21: 2022/09365. 22: 2022/08/22. 43: 2022/11/25
51: C02F
71: Guizhou Minzu University
72: YANG, Cheng, PAN, Guiying, PENG, Yan, WANG, Zhikang, YUAN, Ju, JIANG, Xiuya, ZENG, Guangneng

54: DEWATERING-FREE COMPREHENSIVE RESOURCE UTILIZATION SYSTEM FOR EXCESS SLUDGE OF DOMESTIC SEWAGE TREATMENT PLANT

00: -

Provided is a dewatering-free comprehensive resource utilization system for excess sludge of a domestic sewage treatment plant, including a sludge concentrating unit and 4 extracting units, wherein the sludge concentrating unit and the 4 extracting units are connected level by level in order. Excess sludge is pumped into a concentration tank, the sludge is naturally concentrated by its own gravity, and the concentrated sludge at the bottom layer is directly sucked to be developed and utilized; then the sludge residues are developed and utilized level by level to realize the comprehensive resource utilization of sludge; and the extracted sludge residues are reacted with any basic amino acid hydrolysate to prepare an amino acid slow-release calcium silicate fertilizer, the extracted supernatant is used as a flocculant or corrosion inhibitor, and the high-value-added utilization of sludge is realized. The present invention has simple structure, easy operation, low cost and good using effect.

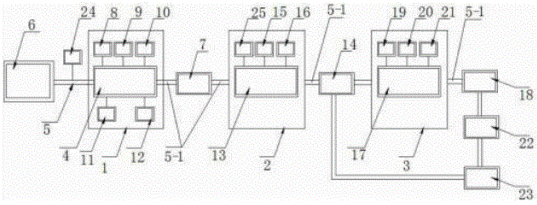


21: 2022/09366. 22: 2022/08/22. 43: 2022/11/25
51: C02F; C05B; C05C; C05F; C07K
71: Guizhou Minzu University
72: YANG, Cheng, PAN, Guiying, PENG, Yan, YUAN, Ju, JIANG, Xiuya, WANG, Zhikang, ZENG, Guangneng, FAN, Bailing

54: SYSTEM AND METHOD FOR RECOVERING PROTEIN AND PHOSPHORUS FROM EXCESS SLUDGE OF SEWAGE TREATMENT PLANT

00: -

The present invention discloses a system and a method for recovering protein and phosphorus from excess sludge of a sewage treatment plant. The system includes a sludge hydrolysis system, a protein recovery system and a phosphorus recovery system, wherein the sludge hydrolysis system includes a sludge hydrolysis reaction tank, wherein a feed port of the sludge hydrolysis reaction tank is connected with a discharge port of a sludge storage pool through a conveying belt; a discharge port of the sludge hydrolysis reaction tank is connected with a feed port of a first centrifuge through a conveying pipe; and a heating device, an ultrasonic device, a first stirring device, a thermometer and a first reagent storage tank are sequentially arranged on the sludge hydrolysis reaction tank. The system can simultaneously recover protein and phosphorus from sludge. The system is highly practical and easy to popularize and use.

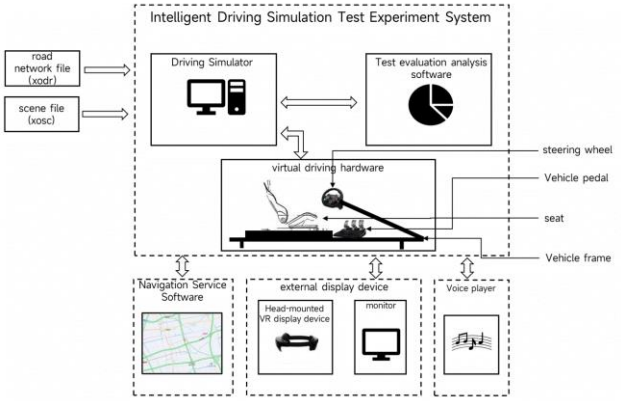


21: 2022/09367. 22: 2022/08/22. 43: 2022/11/25
51: G09B
71: Shanghai Polytechnic University
72: LI Wenchen, GU Wenjun, QIN Qin, TU Zimei, LV Qinyuan, CAO Long, ZHANG Yahui

54: INTELLIGENT DRIVING SIMULATION TEST SYSTEM BASED ON VIRTUAL REALITY TECHNOLOGY

00: -

The invention relates to a simulation test experiment system for intelligent driving cars and a method for generating traffic flow based on real road conditions. The invention builds an intelligent driving simulation test experimental system by combining virtual and real situations, generates a road network of simulation test scenes according to actual map data, builds simulation scenes, generates traffic flow configuration files based on real road conditions provided by commercial navigation systems, and generates traffic flows in virtual test scenes. Combined with virtual reality technology, testers test the intelligent driving car model algorithm under realistic road conditions. Compared with the prior art, the invention provides more realistic driving scenes and driving experiences, effectively improves the adaptability of virtual scenes and real scenes of intelligent driving algorithms, and improves the effectiveness of results. A more realistic driving experience comes from the application of virtual reality technology, and a more realistic driving scene comes from the method of making a road network of simulation test scenes through real maps, so it also effectively improves the adaptability of virtual scenes and real scenes of intelligent driving algorithms, and further improves the effectiveness of simulation results. According to the invention, the state of the test vehicle and the execution state of the test task are broadcast to the testers by voice, so that the testers are reminded to pay attention, and the efficiency of the test work is further improved.



21: 2022/09368. 22: 2022/08/22. 43: 2022/11/25

51: G08G

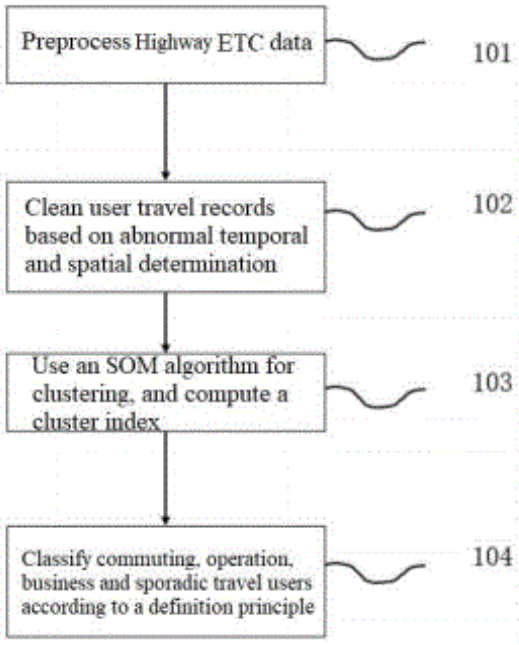
71: Shandong Jianzhu University

72: JIA, Jianmin, ZHANG, Hui, SHI, Baiying

54: METHOD FOR ANALYZING SPATIAL-TEMPORAL MOBILITY CHARACTERISTICS OF HIGHWAY BASED ON LARGE-SCALE TOLL COLLECTION DATA

00: -

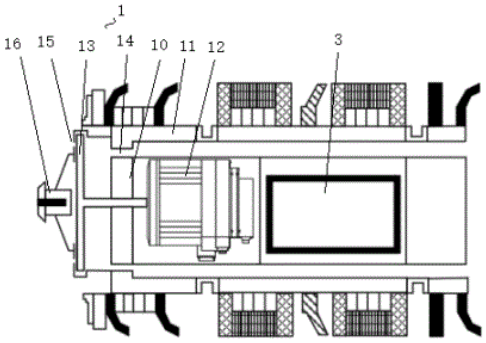
The present invention relates to a method for analyzing spatial-temporal mobility characteristics of a highway based on large-scale toll collection data, and particularly relates to a highway toll collection data-based method for extracting and classifying traveler travel characteristics. The present invention provides a traveler subdivision method based on highway electronic toll collection (ETC) data, which can quickly and accurately identify and classify highway travelers. A self-organizing mapping (SOM) classification method used in the present invention is flexible and easy to use, has significant advantages for processing large-scale ETC data, and can quickly obtain a classification result, and the highway traveler classification result can accurately reflect a difference of the highway travelers in travel spatial-temporal distribution, so as to provide support for highway operation and congestion management decisions.



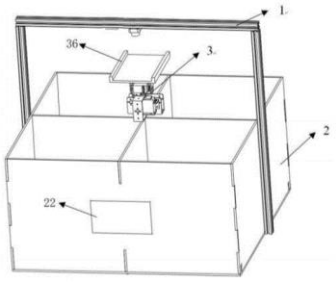
21: 2022/09373. 22: 2022/08/22. 43: 2022/11/25

51: F02D; G01J; H02P

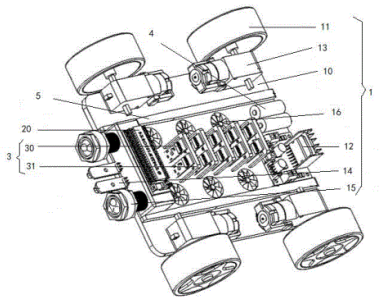
71: Shenyang University of Technology
72: GE, Qian, LIU, Bin, HE, Luyao, YANG, Lijian, REN, Jian, MA, Xue, ZHANG, Linqi, MA, Haoning, ZHANG, Song, LIANG, Zheng
54: SPEED CONTROL SYSTEM BASED ON WEAK MAGNETIC STRESS DETECTOR AND CONTROL METHOD THEREOF
00: -
The present disclosure provides a speed control system based on a weak magnetic stress detector and control method thereof. The detector speed control system is adopted for detecting a to-be-detected member, and includes a control structure and a control module. The control structure is in signal connection with the control module. The control structure includes an inner shell, an outer shell, a drive motor, a blade, first orifices, second orifices and a speed measurement sensor. The inner shell is arranged in the outer shell, the first orifices are formed between the inner shell and the outer shell, the drive motor is arranged in the inner shell, an output end of the drive motor is connected with a rotary rod, and the rotary rod movably penetrates through one end of a side wall of the inner shell to be connected with the blade.



21: 2022/09374. 22: 2022/08/22. 43: 2022/11/25
51: H02G
71: Shenyang University of Technology
72: LIAN, Zheng, LIU, Bin, ZHANG, Linqi, MA, Haoning, HAN, Chongpeng, REN, Jian, ZHANG, Song, NIAN, Fuqiang, YU, Hui, ZHOU, Yinggang, YANG, Haibo
54: AUTOMATIC IDENTIFICATION AND DEFECT DETECTION DEVICE BASED ON MOBILENETV2
00: -
The present invention relates to the field of wire harness manufacturing and processing, in particular to an automatic identification and defect detection device based on MobileNetV2, including a bracket for supporting, a sorting box for storing sorted terminals, and a sorting executing mechanism for executing sorting. The bracket is installed on two opposite side walls of the sorting box; a camera that identify the types of terminals and detect defects and a control unit that controls the device to be operated are installed on the bracket; a wire harness part tray that holds a wire harness part is installed on the sorting executing mechanism; the sorting executing mechanism is installed on a top portion of the sorting box; and a display for displaying the sorting and defect states is installed on a front side surface of the sorting box.

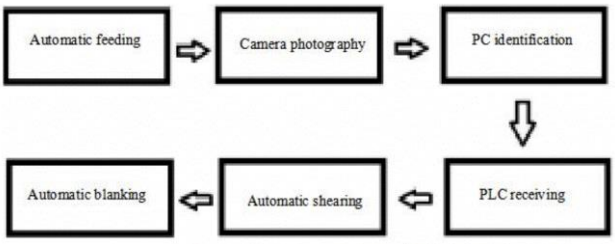


21: 2022/09375. 22: 2022/08/22. 43: 2022/11/28
51: G01N
71: Shenyang University of Technology
72: WANG, Fuchuan, LIU, Bin, HE, Luyao, LIU, Liren, YANG, Lijian, REN, Jian, MA, Xue, MA, Haoning, ZHANG, Song, LIANG, Zheng, ZHANG, Linqi
54: WEAK MAGNETIC DETECTING SYSTEM AND METHOD FOR WELD DAMAGES
00: -
The present invention provides a weak magnetic detecting system and method for weld damages. The system includes a robot body, a control unit, a stress detecting unit, and a power supply device. The stress detecting unit is disposed on the robot body. The robot body and the stress detecting unit are both connected to the control unit. The robot body includes a traveling unit, a tracking unit, a wall climbing unit, and an obstacle avoidance unit. The traveling unit includes a vehicle body floor, a plurality of universal wheels and a motor. The robot is provided with a plurality of weak magnetic sensors parallel to a detected component and tracks forward using a weld as a tracking trajectory, thereby obtaining an accurate weak magnetic signal of the weld of the detected component.

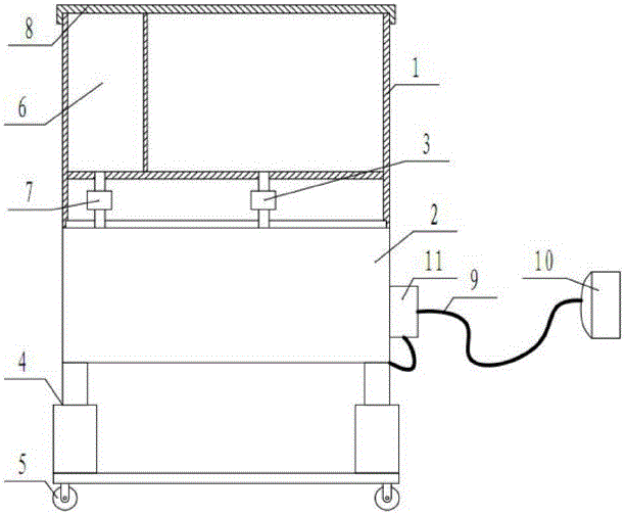


21: 2022/09376. 22: 2022/08/22. 43: 2022/11/28
51: A61K; A61P
71: XU, Xiuxin
72: XU, Xiuxin
54: MEDICAMENT HAVING ANTIPRURITIC EFFECTS AND PREPARATION METHOD THEREOF
00: -
A medicament having antipruritic effects and a preparation method thereof are provided. The medicament having antipruritic effects includes the following raw materials in parts by weight: 400-600 parts by weight of Alangium chinense, 400-600 parts by weight of Broussonetia papyrifera leaves, 200-400 parts by weight of Sophora flavescens, 400-600 parts by weight of Salix babylonica leaves, and 100-200 parts by weight of common salt. The present invention has the following beneficial effects: the medicament having antipruritic effects of the present invention has better effects of dispelling wind and eliminating dampness, relieving itching and relieving pain, and promoting granulation and corrosion prevention. The medicament is used for treating various stubborn dermatitis, eczema, diabetic foot, decubitus ulcer, senile pruritus, and the like, capable of significantly relieving skin pruritus symptoms with quick effect.

21: 2022/09377. 22: 2022/08/22. 43: 2022/11/25
51: G06T
71: SHANXI INSTITUTE OF ENERGY
72: ZHANG Liying
54: METHOD AND SYSTEM FOR FAST VISUAL DETECTION OF POWER-ON OF LED FILAMENT
00: -
The invention belongs to the technical field of LED detection, and particularly relates to a fast visual detection method and system for LED filament power-on, which comprises the following steps: S1, collecting the power-on image of the LED filament; S2, cutting the power-on image of the LED filament and carrying out threshold processing by a binary method; S3, gridding and partitioning the processed image according to the number of LED filaments and the number of luminous points of each LED filament; S4, setting a qualified threshold, calculating the luminous areas of luminous points in each grid, and judging the luminous points with the luminous areas in the qualified threshold interval as qualified, and judging others as unqualified. The method is simple and fast in image processing, greatly improves the power-on detection efficiency of the LED filament, and can be widely applied to the field of LED detection.



21: 2022/09378. 22: 2022/08/22. 43: 2022/11/25
51: B05C
71: GUIZHOU UNIVERSITY
72: LIN Li
54: SIMPLE AND EASY-TO-USE PAINT MACHINE
00: -
The invention discloses a simple and easy-to-use paint machine, which comprises a paint storage barrel and a centrifugal stirrer, wherein that bottom of the paint storage barrel is provided with the centrifugal stirrer; the paint storage barrel is communicated with the centrifugal stirrer through a paint pipeline; an electromagnetic flow valve I is installed on the paint pipeline; and the centrifugal stirrer is connected with a paint brush through a liquid outlet pipe. According to the invention, before painting, centrifugal sealing and stirring can be adopted to ensure the uniformity of paint to the greatest extent, improve the painting quality, avoid splashing and reduce waste, and paint color matching can be carried out according to different comparative examples to meet different requirements.

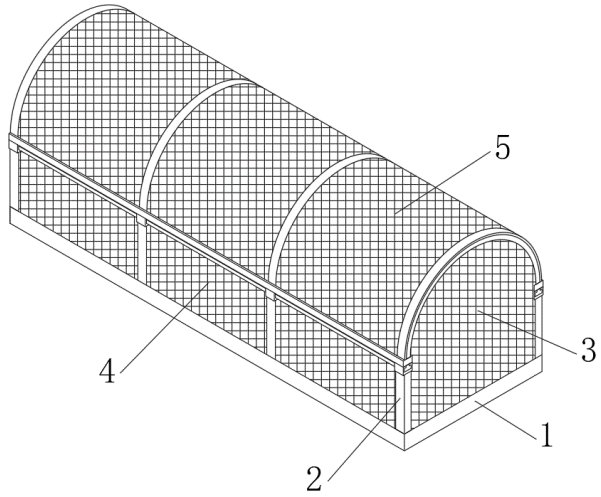


21: 2022/09379. 22: 2022/08/22. 43: 2022/11/28
51: A01G
71: Nantong Huanghai Pharmaceutical Machinery Co., Ltd
72: Cui Chunmei, Xie Luguan, Chen Aishan, Xie Wei, Cai Guangzhou

54: STRAWBERRY PLANT DISEASE AND INSECT PEST INTEGRATED PREVENTION AND CONTROL CULTIVATION DEVICE

00: -

The invention relates to the technical field of strawberry cultivation, and discloses an integrated prevention and control cultivation device for strawberry diseases and insect pests, which comprises a soil base, wherein the upper end of the soil base is fixedly connected with a fixed shed frame, the end parts of both ends of the fixed shed frame are fixedly connected with end protective nets, both sides of the fixed shed frame are fixedly connected with a plurality of side protective nets, And that top of the fix shed frame is fixedly connecte with a plurality of top protective nets. According to the invention, the insect-proof net is arranged on the outer wall of the cultivation box at the lower end of the soil base, and the lower end of the cultivation box is isolated from soil through the bottom partition plate, so that insect pests can be effectively prevented from entering a water-absorbing soil layer inside the cultivation box, and the purpose of insect prevention in the soil is achieved; and a net-shaped insect-proof net structure has air permeability, so that sufficient oxygen is available inside the cultivation box, And after watering, redundant water can also seep out from the meshes of the insect-proof net, so that the structure is more reasonable, and good insect-proof and anti-damage effects are achieved.

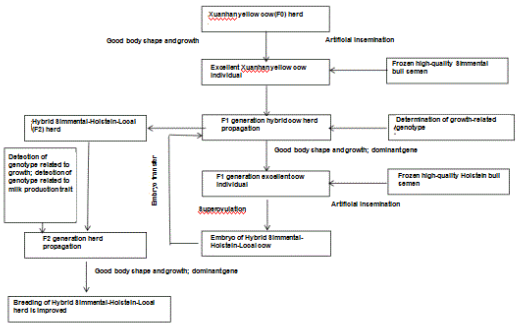


21: 2022/09380. 22: 2022/08/22. 43: 2022/11/28
51: A01K
71: Sichuan Animal Science Academy
72: Wang Wei, Yi Jun, Fang DongHui, Gan Jia, Shi Yi, He Fang, Fu MaoZhong, Deng XiaoDong, AGuo YueDa, Zhan Suqiong

54: BREEDING METHOD OF HYBRID SIMMENTAL-HOLSTEIN-LOCAL DUAL-PURPOSE COW

00: -

The invention discloses a breeding method of hybrid Simmental-Holstein-Local dual-purpose cow, comprising the following steps: selecting Xuanhan cow as a female parent; selecting Simmental bull semen for natural mating and artificial insemination; detecting genotype of one gene related to growth traits of hybrid first-generation cow; selecting F1 generation cow as female parent; performing superovulation for F1 generation female parent; selecting Holstein bull semen for artificial insemination; collecting embryos of F1 generation cow; selecting the hybrid first-generation cow for embryo transfer; detecting the genotype of one gene related to growth traits and one gene related to diary traits of the hybrid second-generation individual; selecting Simmental-Holstein-Local cattle with good body shape, fast growth speed and dominant genotype to propagate by artificial insemination, superovulation and embryo transfer. The invention can reduce the workload of scientific and technical personnel and shorten the breeding time.

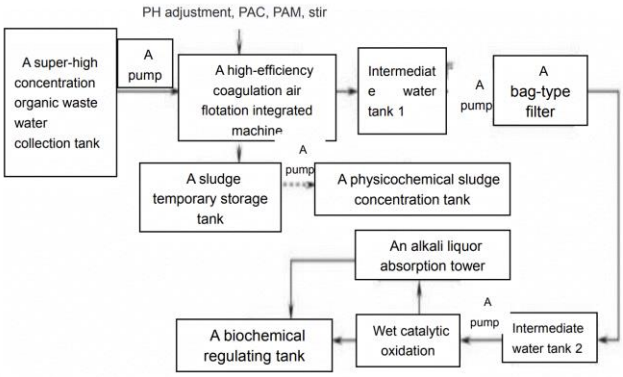


21: 2022/09381. 22: 2022/08/22. 43: 2022/11/25
51: C02F
71: Suzhou Qinghe Environmental Technology Co., Ltd
72: Yang Xiaomei, Zhi Songka, Li Hongling, Peng Hui

54: ZERO-DISCHARGE PROCESS FOR TREATING HIGH-SALT AND HIGH-ORGANIC WASTE WATER BASED ON WET CATALYTIC OXIDATION TECHNOLOGY

00: -

The invention discloses a zero-discharge process for treating high-salt and high-organic waste water based on wet catalytic oxidation technology, which comprises the following steps: S1, a high-efficiency coagulation air flotation integrated machine, firstly, in which the waste water in a super-high concentration organic waste water collection tank is pumped into the high-efficiency coagulation air flotation integrated machine by a water pump for treatment, and the treated waste water is stored in an intermediate water tank 1, then the generated sludge is stored in a sludge temporary storage tank, and finally pumped into a physicochemical sludge concentration tank for treatment; S2, a bag-type filter, in which the waste water in the intermediate water tank 1 is pumped into the bag-type filter for filtration, and the filtered waste water is pumped into the intermediate water tank 2 for storage; S3, wet catalytic oxidation, in which the waste water in the intermediate water tank 2 is carried out the wet catalytic oxidation. The invention has a good purification effect, and the RO concentration system can crystallize and evaporate waste water, thus realizing the effect of nitrate separation, thus realizing the zero discharge effect through the evaporation treatment process, and it has obvious progress.



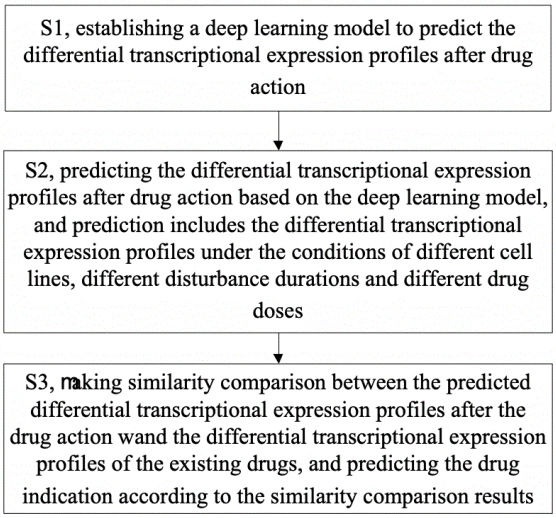
21: 2022/09382. 22: 2022/08/22. 43: 2022/11/28
51: C12Q
71: Precision Scientific Biomedicine (Suzhou) Co.,Ltd., Precision Scientific Co.,Ltd., Precision Scientific (Beijing) Co.,Ltd.
72: Xuwo Ji, Xinxin Peng, Danyang Yu
33: CN 31: 202210257005.7 32: 2022-03-16

54: METHOD FOR PREDICTING DIFFERENTIAL TRANSCRIPTIONAL EXPRESSION PROFILE AND DRUG INDICATIONS AFTER DRUG ACTION

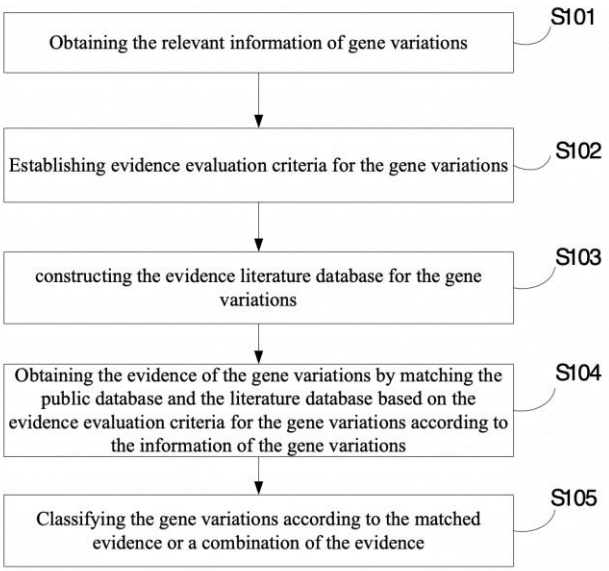
00: -

A method for predicting differential transcriptional expression profiles and drug indications after drug action includes: establishing a deep learning model for predicting differential transcriptional expression profiles after drug action; predicting the differential transcriptional expression profiles after drug action based on the deep learning model, and prediction includes the differential transcriptional expression profiles under the conditions of different cell lines, different disturbance durations and different drug doses; and making similarity comparison between the predicted differential transcriptional expression profiles after the drug action wand the differential transcriptional expression profiles of the existing drugs, and predicting the drug indication according to the similarity comparison results. Corresponding systems, electronic devices and readable storage media are also provided, which can directly predict the differential transcriptional expression profiles of drugs after different cell lines, different doses and different treatment durations through the molecular information of drugs, thus reducing the capital and time investment in preclinical development to a certain extent, calculating the similarities with the expression profiles of drugs with known indications, selecting potential indications and reducing

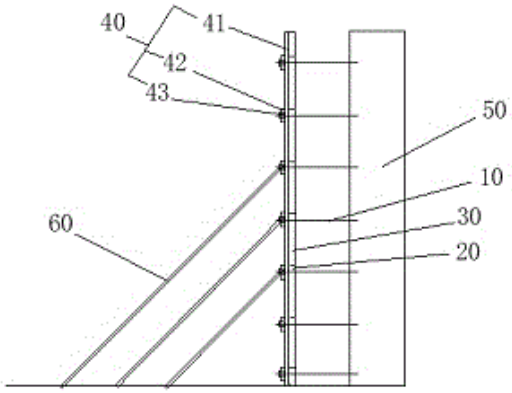
unnecessary clinical trials, and improving the success rate of clinical trials.



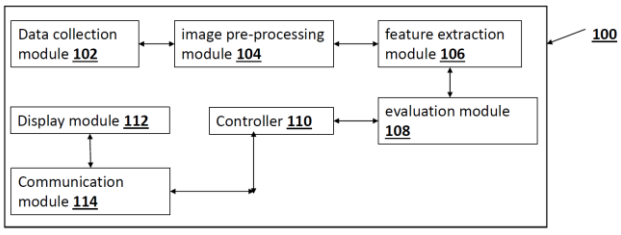
21: 2022/09383. 22: 2022/08/22. 43: 2022/11/25
51: C12Q
71: Precision Scientific Biomedicine (Suzhou) Co.,Ltd., Precision Scientific Co.,Ltd., Precision Scientific (Beijing) Co.,Ltd.
72: Xuwo Ji, Xinyun Xu, Yu Dong, Zhongyu Guo, Chao Xue
33: CN 31: 202210339513.X 32: 2022-04-01
54: AUTOMATIC CLASSIFICATION METHOD, DEVICE AND ELECTRONIC DEVICE FOR GENE VARIATIONS
00: -
The invention discloses an automatic classification method, device and electronic device for gene variations. The method comprises obtaining the relevant information of gene variations; establishing evidence evaluation criteria for the gene variations; constructing the evidence literature database for the gene variations; obtaining the evidence of the gene variations by matching the public database and the literature database based on the evidence evaluation criteria for the gene variations according to the information of the gene variations; and classifying the gene variations according to the matched evidence or a combination of the evidence. By utilizing the method provided by the invention, the automatic interpretation, classification and batch processing of variations can be realized, and the operation time is saved; At the same time, it reduces the proportion of unclear clinical significance and improves the accuracy. Therefore, the method of the invention can be widely used in the process of precise diagnosis and treatment of patients.



21: 2022/09384. 22: 2022/08/22. 43: 2022/10/13
51: E04B
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU SHENZHEN CONSTRUCTION INVESTMENT DEVELOPMENT CO., LTD., CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: ZHOU, ZHOU, ZHANG, LING, MENG, JINLONG, REN, YUBO, KONG , WEIJIE, ZHONG , BO, CHEN , PENG
33: CN 31: 202210487935.1 32: 2022-05-06
54: UNILATERAL FORM ERECTING DEVICE AND CONSTRUCTION METHOD THEREOF
00: -
The present disclosure relates to a unilateral form erecting device and construction method thereof, and relates to the field of wall pouring. By trepanning the first formworks, the first formworks are arranged on the reinforcement units, the entire wall is covered by the first formwork and the second formwork by the connection of the second formwork and the first formwork, thereby fixing the first formwork and the second formwork by the fastening means.



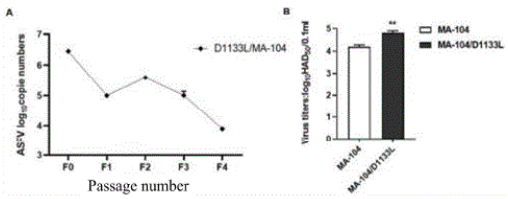
21: 2022/09386. 22: 2022/08/22. 43: 2022/11/24
51: G06T
71: MOHINI NIRAJ SHETH, PROF. SANJAY LAXMIKANT NALBALWAR
72: MOHINI NIRAJ SHETH, PROF. SANJAY LAXMIKANT NALBALWAR
54: A SYSTEM TO IDENTIFY A SNAKE AND A METHOD THEREOF
00: -
A system (100) and a method (200) for identifying a snake, comprises of: a data collection module (102) for collecting atleast an image of a snake; an image pre-processing module (104) associated with the data collection module (102) for enhancing image quality; a feature extraction module (106) associated with the image pre-processing module (104) for simplifying the image to obtain a centralized data, wherein a plurality of feature vectors containing eigen value of training images are stored for finding minimum distance with feature vector of test image; and an evaluation module (108) associated with the feature extraction module (106) for evaluating similarities between feature vector of training and test image, wherein the image having less distance sends an information to a controller (110) for displaying details of a snake.



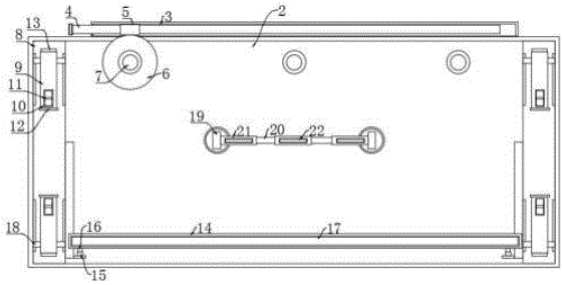
21: 2022/09420. 22: 2022/08/23. 43: 2022/11/28
51: C01B
71: Hezhou University
72: WANG Yong, GAN Binhong, QIU Pengfei, MA lin, WANG Tengdong, LYU Haibo
54: PREPARATION METHOD OF ARTIFICIAL RED CLAY
00: -
The invention discloses a preparation method of artificial red clay, and relates to the technical field of building materials. The preparation method comprises the following steps: (1) preparing an ferric salt solution, dropwise adding a sodium hydroxide solution, stirring while dripping, and stopping adding the sodium hydroxide solution until the pH value of the solution rises to 11.5 - 12.5, so as to obtain ferric hydroxide gel; (2) adding kaolin into the ferric hydroxide gel, uniformly stirring and crystallizing to obtain a red clay intermediate product; (3) curing the red clay intermediate product to prepare artificial red clay. Using kaolin and ferric hydroxide gel as raw materials, the artificial preparation of red clay is realized, and the transportation problem in the scarce areas of red clay is solved. The artificial red clay prepared by the invention has high strength, which is equivalent to that of natural red clay, and the artificial red clay prepared by the invention can be used in practice instead of natural red clay.

21: 2022/09460. 22: 2022/08/24. 43: 2022/11/28
51: C12N; C12R
71: Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
72: ZHENG, Haixue, ZHANG, Keshan, ZHANG, Ting, YANG, Bo, SHEN, Chaochao, TIAN, Hong, RU, Yi, YANG, Fan, ZHU, Zixiang, FENG, Tao, GUO, Jianhong, LIU, Xiangtao
33: CN 31: 202210029737.0 32: 2022-01-12
54: METHOD FOR INCREASING INFECTIOUS TITER OF NON-TARGET CELL MA-104 OF AFRICAN SWINE FEVER VIRUS
00: -
The present disclosure relates to the technical field of African swine fever virus (ASFV), and particularly relates to a method for increasing an infectious titer of a non-target cell MA-104 of an ASFV. A D1133L gene fragment of the ASFV is inserted into a lentiviral vector to obtain a recombinant lentiviral vector, the recombinant lentiviral vector is transformed into the MA104 cell line to obtain an MA-104 cell line MA-104/D1133L stably expressing the D1133L gene, and the cell line is inoculated into

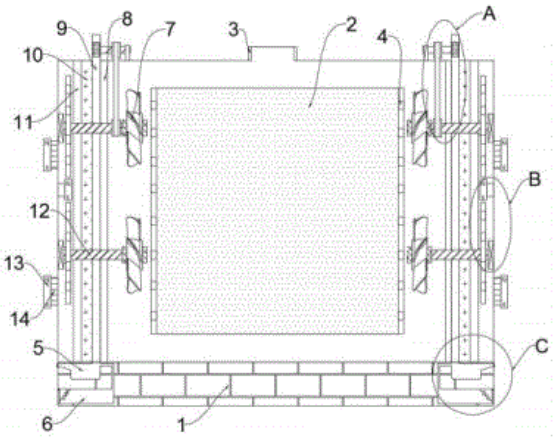
the ASFV, substantially increasing a titer of the ASFV. ASFV-infected MA-104/D1133L can realize multiple viral harvests. Comparing the MA-104/D1133L cell line obtained by the present disclosure with wild-type MA-104, the titer of the ASFV is increased significantly.



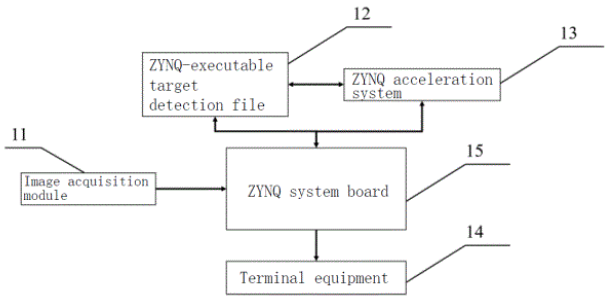
21: 2022/09461. 22: 2022/08/24. 43: 2022/11/28
51: G06N; H04W
71: Liupanshui Normal University
72: WANG, Liwei, ZHU, Kun, YANG, Wentao
54: TERMINAL SYSTEM FOR ARTIFICIAL INTELLIGENCE-BASED DATA PROCESSING
00: -
Disclosed is a terminal system for artificial intelligence-based data processing, including an electronic display screen and a positioning plate body. Two sides of the positioning plate body are respectively provided with a second limiting cavity, the inside of each second limiting cavity is connected with two supporting blocks in a sliding manner through sliding grooves, the supporting blocks are rotatably connected with the second limiting cavities through third rotating rods, the top of each supporting block is provided with a limiting groove, the inside of each limiting groove is rotatably connected with a second rotating rod, the positioning plate body is fixedly connected with two limiting blocks, a fixing rod is fixedly connected between the two limiting blocks, a plurality of limiting sleeves rotatably sleeve the fixing rod, and the side face of the positioning plate body is fixedly connected with a first limiting cavity.



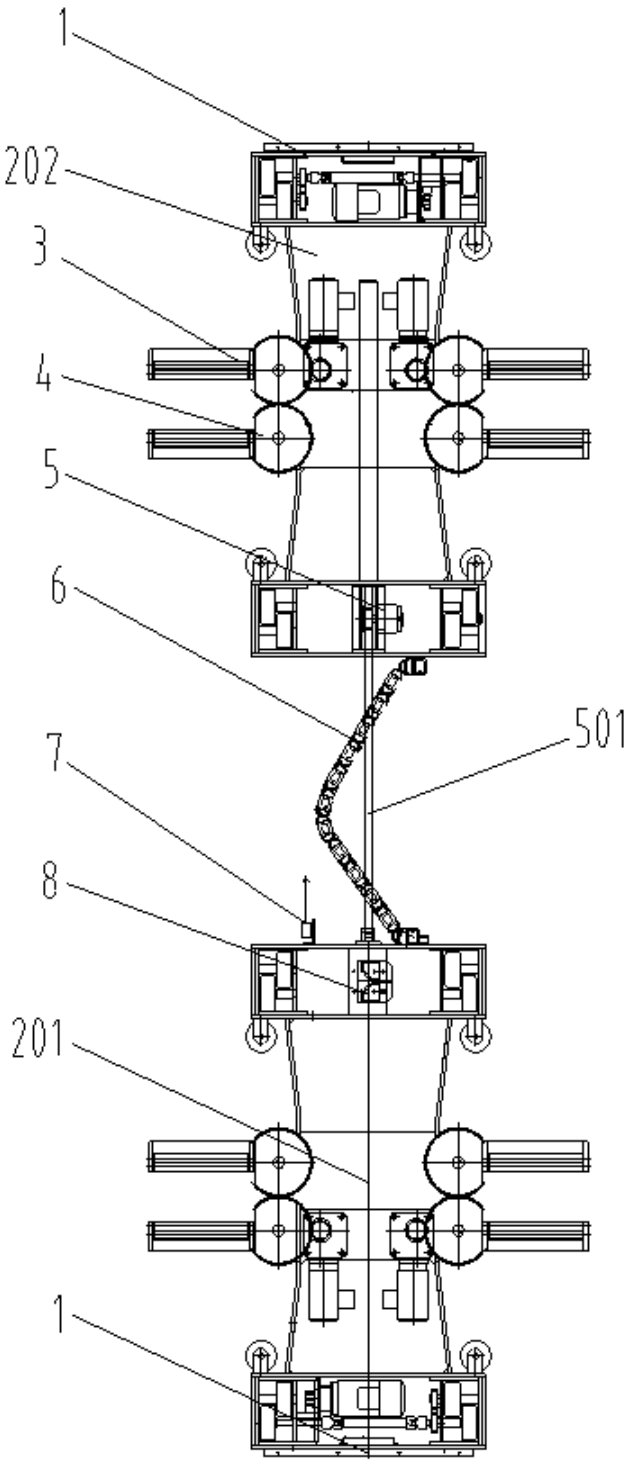
21: 2022/09462. 22: 2022/08/24. 43: 2022/11/28
51: G06N
71: Liupanshui Normal University
72: WANG, Liwei, ZHU, Kun, YANG, Wentao, YAO, Weiping
54: ANALYSIS DEVICE FOR ARTIFICIAL INTELLIGENCE-BASED DATA PROCESSING
00: -
The present disclosure discloses an analysis device for artificial intelligence-based data processing. The analysis device includes an analysis outer frame, and the analysis outer frame internally includes a control center, a cloud platform and a data sending module; heat production bins, balance bins, first thermal insulating layers, heating layers, heat transfer metal layers and metal power generation layers are arranged in the analysis outer frame, and the cloud platform internally includes a data acquisition module, a data operation module, a data conversion module, a data grouping module, a data retrieval module and a data sorting module. Through cooperation effects among the control center, the cloud platform and the data sending module, artificial intelligence is upgraded in the rate of data analysis, so that information fed back by users and information authenticity can be identified in time.



21: 2022/09463. 22: 2022/08/24. 43: 2022/11/28
51: G05B
71: Guangxi University, Pingxiang 3nod Digital Technology Co., Ltd.
72: ZHANG, Xuejun, SU, Wenjun, XU, Huibin, LI, Bin, LIU, Kai
33: CN 31: 202210847819.6 32: 2022-07-19
54: ZYNQ-BASED INTELLIGENT MANAGEMENT AND MONITORING SYSTEM FOR PRODUCTION WORKSHOPS
00: -
The present invention relates to a ZYNQ-based intelligent management and monitoring system for production workshops, and belongs to the field of artificial intelligence and embedded technology. The system comprises an image acquisition module, a ZYNQ system board and terminal equipment which are sequentially connected with one another; the image acquisition module is used for acquiring images of a production workshop in real time; the ZYNQ system board is used for obtaining a ZYNQ-executable target detection file, detecting the images of the production workshop with the ZYNQ-executable target detection file, and outputting detection results; the detection results are whether workers in the production workshop wear dust-proof hoods, masks and working uniforms, and whether flame arises in the production workshop; and the terminal equipment is used for displaying the detection results and giving out an alarm according to the detection results.



21: 2022/09464. 22: 2022/08/24. 43: 2022/11/28
51: E04H
71: Hangzhou Dazhong boao Technology Co., Ltd.
72: Yanzheng WU, Qingling FANG, Jiahong WANG, Shuilong ZHENG
33: CN 31: 202111113886.7 32: 2021-09-18
54: TRANSPORT ROBOT
00: -
A transport robot is provided in this disclosure, which includes a first transport assembly and a second transport assembly. The first transport assembly and the second transport assembly are adjustably connected with each other by a connecting mechanism. The first transport assembly is provided with rotating gears meshed with each other, and the second transport assembly is provided with rotating gears meshed with each other; and clamping arms are arranged on both of the rotating gears. The disclosure has following beneficial effects, the clamping arms on both the first transport assembly and the second transport assembly are engaged and installed on the rotating gears, and an angle between two adjacent clamping arms can be adjusted by rotation of the gears, which provides better clamping effect on automobile wheels in clamping and fixing the automobile wheels and no ease of slipping of the automobile wheels after clamping.

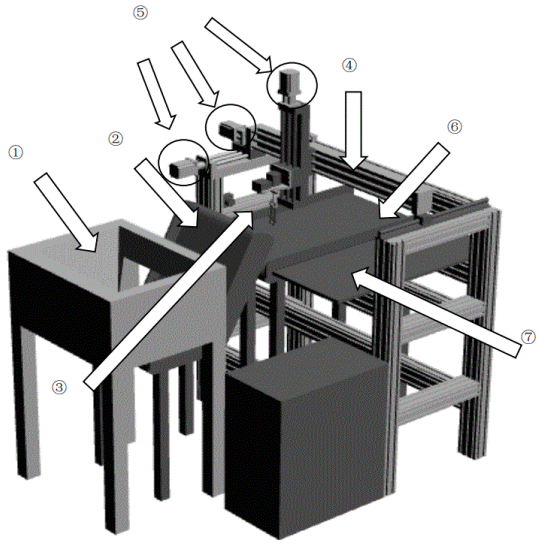


21: 2022/09465. 22: 2022/08/24. 43: 2022/11/28
51: A47B; B62D; G07F
71: Nanjing Rongxin Intelligent Technology Co., Ltd.
72: CHEN, Chen, HE, Xin, YANG, Cheng, DING, Wei, MENG, Qincheng, LI, Jian

54: INTELLIGENT BOXED DRUG STORAGE AND SORTING DEVICE

00: -

The present disclosure discloses an intelligent boxed drug storage and sorting device, including a drug storage case, a conveyor belt, a vacuum adsorption pump, guide rails, servo motors, an operating platform and a subsequent conveyor belt. A drug box outlet is formed in the drug storage case, one end of the conveyor belt is arranged at the drug box outlet, and the other end of the conveyor belt is connected with the operating platform; bar code scanners are arranged on two sides of the operating platform; the operating platform is arranged on a fixing frame; the subsequent conveyor belt is arranged on the side of the operating platform; the guide rails include an X-axis guide rail, a Y-axis guide rail and a Z-axis guide rail; both the X-axis guide rail and the Z-axis guide rail are arranged on the fixing frame, and slide relatively.



21: 2022/09466. 22: 2022/08/24. 43: 2022/11/25
51: C12Q
71: Precision Scientific (Beijing) Co.,Ltd., Precision Scientific Biomedicine (Suzhou) Co.,Ltd., Precision Scientific Co.,Ltd.
72: Xuwo Ji, Xinyun Xu, Yu Dong, Baoye Wei
33: CN 31: 202210339492.1 32: 2022-04-01

54: A GENE PANEL, KITS AND APPLICATIONS FOR DETECTING MULTIPLE TUMORS

00: -

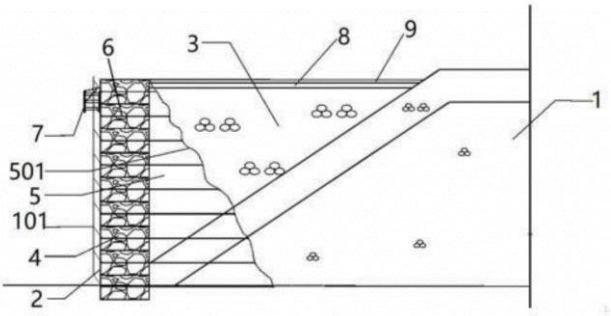
The present invention discloses a gene Panel, kits and uses for the detection of multiple tumors. The gene Panel includes hereditary breast-ovarian

cancer syndrome BRCA related genes, Lynch syndrome related genes, other genes related to the said various tumors and homologous recombination repair pathway key genes. Detection the germline level or combined tumor tissue level can be performed for hereditary breast and ovarian cancer syndrome BRCA related genes, Lynch syndrome-related genes, other genes related with the said plurality of tumors, and homologous recombination repair pathway key genes, and accurately assessing the genetic risk of these genes related with gynecological tumors, breast cancer, prostate cancer, and tumors of the digestive tract based on the test results, and guiding patients with tumors for the use of platinum-based chemotherapeutic agents and PARP inhibitors. Full guidance for precise treatment of multiple tumors such as gynecological tumors, breast cancer, prostate cancer, and digestive tract tumors is achieved by one test.

Germline Variants					
Gene	Nucleotide Variants	Amino acid Variants	Isozygoty/ Heterozygosis	Variant Interpretation	Disease Phenotype
BRCA1(NM_007294.3)	c.5470_5477del	p.(Ile1824Aspfs Ter3)	Heterozygosis	pathogenic	Hereditary breast-ovarian cancer syndrome (AD)
Variant Description: Alignment analysis between the patient's peripheral blood leukocyte DNA sample and the reference sequence found a frameshift mutation on the 23rd exon of the BRCA1 gene as a causative variant. HGVS is identified as NM_007294.3(BRCA1): c.5470_5477del (p.Ile1824 Aspfs Ter3),located on chromosome Chrl7: 41197810-41197817 (Assembly GRCh37/hg19), SNP number is rs80357973, the interpretation of this variant is as follows: The variations occur at base positions 5470 to 5477 in the coding region of the BRCA1 gene, base "ATTGGGCA" is deleted, resulting in a change of isoleucine to aspartic acid, disrupting the normal coding of amino acids downstream of the gene, and a termination codon occurs at the 3rd amino acid downstream of the mutation, premature termination of protein coding, which in turn affects the normal function of the protein, possibly by way of truncation of the protein or a nonsense mutation mediating mRNA degradation, while loss-of-function of the BRCA1 gene is considered pathogenic (PMID: 20104584);this variation lacks data in the general and East Asian databases (gnomAD); reported in the literature that the variant was detected in multiple breast and ovarian cancer individuals (PMID: 25366075 15117986 25863477, 26824983, 16455195, 26848529, 2685515, 27257965);The variant was recorded in CinVar (Variation ID: 55591) and conformably evaluated as a pathogenic variant. For the above reasons, this variant is considered as a pathogenic variant.					

21: 2022/09467. 22: 2022/08/24. 43: 2022/11/28
51: E02B
71: TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING,M.O.T.
72: PENG Cheng, ZHANG Huaqing, CHEN Hanbao, CHEN Songgui, ZHU Yingtao, WANG Yina, HU Chuanqi, SHEN Wenjun, ZHANG Yajing, YU Bin
54: EFFICIENT TEMPORARY WHARF COMBINING GABION NETS AND UNDERWATER SELF-PROTECTING CONCRETE
00: -

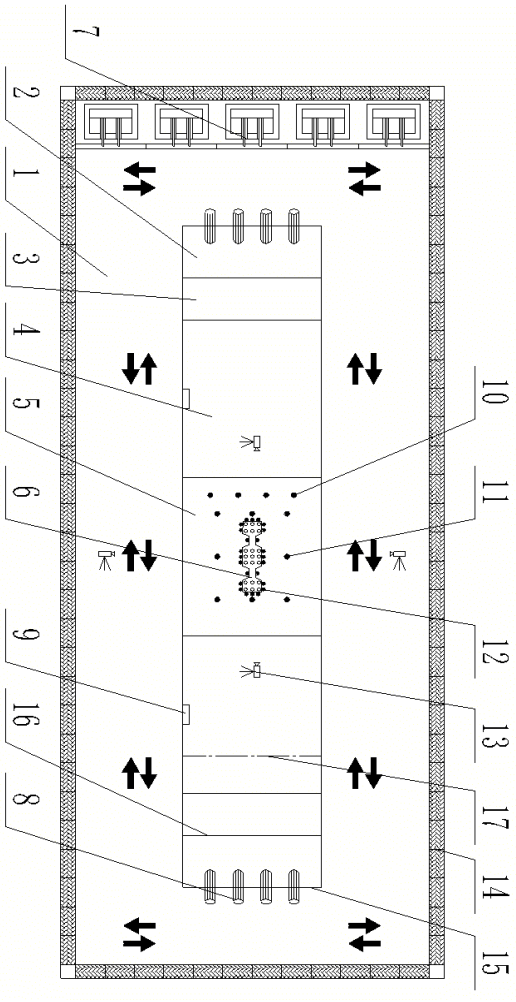
An efficient temporary wharf combining gabion nets and underwater self-protecting concrete comprises a breakwater and gabion net components; the gabion net assembly is arranged at one side of the breakwater far from the coast; the gabion net assembly includes the gabion nets; a plurality of gabion nets is provided and are vertically stacked on the seabed, and the gabion nets close to the seabed are deeply buried in the seabed; block stones are filled between the gabion net assembly and the breakwater. The efficient temporary wharf combining the gabion nets and the underwater self-protecting concrete keeps the high fluidity, super filling performance, underwater high dispersion resistance and high dispersion resistance of the underwater self-protecting concrete in the gabion net. The invention has the advantages of simple construction technology and working procedure, rapid construction speed, rapid formation, economical and reasonable cost, strong stability of the whole structure, convenient disassembly after use, environmental protection, no pollution and friendly ecological environment.



21: 2022/09468. 22: 2022/08/24. 43: 2022/11/28
51: G01D
71: TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING,M.O.T.
72: PENG Cheng, ZHANG Huaqing, CHEN Hanbao, HU Chuanqi, WANG Hao, OUYANG Xiyu, ZHAO Peng, WANG Yina, HU Ke, MA Jun
54: SIMULATION DEVICE AND MEASUREMENT METHOD FOR LOCAL SCOUR DEPTH OF PIER WITH COMPLEX STRUCTURE
00: -

The invention discloses a simulation device for local scour depth of piers with complex structures, which includes a pool body with a water body; a plurality of wave generating devices are arranged, and the wave generating devices are arranged at one side of

the pool body at equal intervals; the test pool is arranged in the middle of the pool body, including a fence, a moving bed test area is arranged in the middle of the fence, a bridge pier model is arranged in the center of the top surface of the moving bed test area, and a fixed bed test area, a sand settling area and a pre-energy-dissipation pool area are respectively arranged on both sides of the moving bed test area in sequence; two flow generating devices are arranged, and the two flow generating devices are respectively arranged at the bottom of both sides of the fence; the test device is set in the moving bed test area, the fixed bed test area and the pool body for data collection. The invention improves the integrity of the local scour physical model test of the pier, and intuitively and accurately displays the results of the local scour test of the pier.



21: 2022/09469. 22: 2022/08/24. 43: 2022/11/25
51: A61K
71: Xiuying Ju
72: Xiuying Ju

54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING HEPATITIS B

00: -

The invention discloses a traditional Chinese medicine composition for treating hepatitis B, which is composed of the following components: thyme, elsholtzia bodinieri, corn flower, Indian damnacanthus herb, Polygonum cuspidatum, Artemisia stelleriana, dandelion, and folium isatidis. The invention is prepared by pure natural and low-cost pure plant Chinese herbal medicine, which is not only natural without toxic side effects and adverse reactions, but also has a simple and easy use method, and can greatly reduce the treatment cost and pressure of patients. The medicines of the invention have reasonable proportions, can synergize with each other, and can address symptoms and root causes at the same time, so as to achieve the functions of nourishing yin and soothing liver, reducing swelling and dispersing knots, clearing heat and dampness, sterilizing and detoxifying, which can effectively improve liver function, inhibit or kill hepatitis B virus, so as to achieve the effect of treating hepatitis B. In addition, the invention has the advantages of convenient medication, high patient compliance, and short treatment course, which can further reduce the treatment cost and reduce the burden on patients.

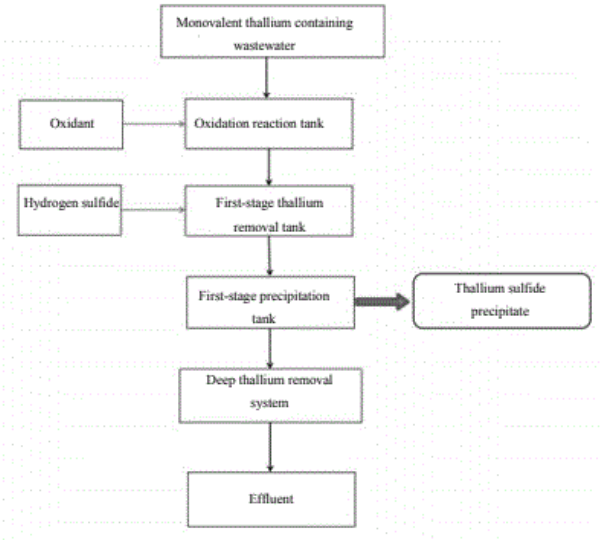
21: 2022/09470. 22: 2022/08/24. 43: 2022/11/28
51: C02F
71: Kunming University of Science and Technology, BGRIMM Technology Group
72: CHEN, Guoqiang, TIAN, Senlin, YANG, Xiaosong, SHAO, Linan

54: ADSORBENT, PREPARATION METHOD AND APPLICATION THEREOF, AND METHOD FOR REMOVING THALLIUM IN WASTEWATER

00: -

The present disclosure provides an adsorbent, a preparation method and an application thereof, and a method for removing thallium in wastewater, belonging to the technical field of wastewater treatment. The adsorbent provided in the present disclosure comprises a molecular sieve and manganese oxide supported on the molecular sieve. The molecular sieve is an inorganic non-metallic porous crystal material. In the present disclosure,

the molecular sieve is used as a carrier, which improves the oxidation resistance of the adsorbent, effectively prolongs the lifetime of the adsorbent, and realizes the long-term efficient and stable operation.

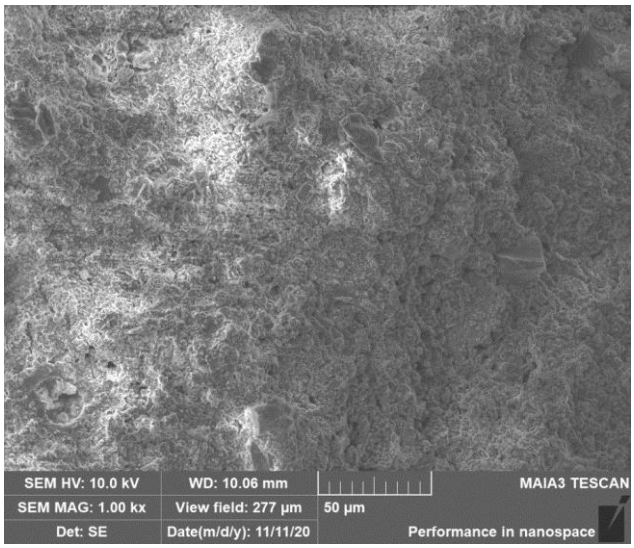


21: 2022/09471. 22: 2022/08/24. 43: 2022/11/25
51: C04B
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY
72: WU Jiangyu, YIN Qian, MA Dan, JING Hongwen, PU Hai, WANG Yiming, BIAN Zhengfu, GAO Yuan, CHEN Weiqiang, MENG Qingbin, YU Liyuan, ZHANG Qiang, YANG Shuo, ZHANG Haixiang

54: LIGNIN NANOCELLULOSE MODIFIED CEMENTITIOUS FILLING MATERIAL FOR FILLING DEEP STRUCTURES AND PREPARATION METHOD THEREOF

00: -

The invention provides a lignin nanocellulose modified cementitious filling material for filling deep structures and preparation method thereof, belonging to the technical field of mine filling materials. The lignin nanocellulose modified cementitious filling material for filling deep structures comprises the following raw materials in parts by mass: 300-450 parts of cement, 100-150 parts of fly ash, 500-550 parts of fine aggregate, 1000-1200 parts of coal gangue, 0.3-0.6 part of modified lignin nanocellulose and 400-500 parts of water; and the modified lignin nanocellulose is cationic styrene-acrylic emulsion modified lignin nanocellulose. According to the invention, by optimizing the formula and preparation process of the mine filling material, a high-strength wood nano-cellulose modified cementitious filling material which can be used for filling deep structures is prepared, and a foundation is provided for the idea of reusing the underground space formed by mined-out areas.

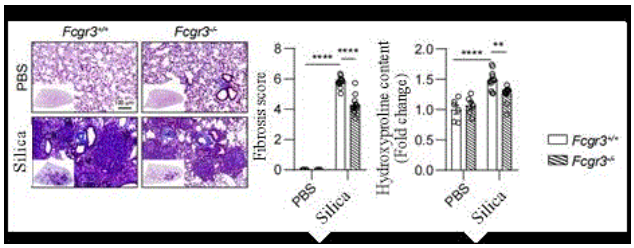


21: 2022/09473. 22: 2022/08/24. 43: 2022/11/25
51: A61K; A61P
71: Institute of Basic Medical Sciences of Chinese Academy of Medical Sciences
72: WANG, Jing, ZHANG, Tiantian, QI, Xianmei, LI, Xiaona
33: CN 31: 202210696605.3 32: 2022-06-20

54: USE OF FCGAMMARIII INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING PULMONARY FIBROSIS

00: -

The present disclosure provides use of an FcyRIII inhibitor in preparation of a medicament for treating pulmonary fibrosis, and belongs to the technical field of biomedicine. Results indicate that FcyRIII mediates macrophage phagocytosis of silica particles, FcyRIII knockout can effectively relieve pulmonary inflammatory response and fibrotic lesions in mice with silicosis, and further intratracheal administration of an anti-FcyRIII antibody significantly delays disease progression of mice at fibrosis phase. Therefore, the present disclosure first sets forth that the FcyRIII is used in preparation of the medicament for treating pulmonary fibrosis, which is of importance to the screening of new drugs and provides a new idea for treatment of pulmonary fibrosis.



21: 2022/09597. 22: 2022/08/29. 43: 2022/10/20
51: H04N
71: Hangzhou Hikvision Digital Technology Co., Ltd.
72: CHEN, Fangdong
33: CN 31: 201910182197.8 32: 2019-03-11
54: ENCODING AND DECODING METHOD AND DEVICE, ENCODER SIDE APPARATUS AND DECODER SIDE APPARATUS
00: -
The application relates to an encoding and decoding method and apparatus, an encoding-side device, and a decoding-side device. The method includes: if characteristic information of a current block meets a specific condition, determining a first reference block corresponding to the current block according to a first original motion vector of the current block, and determining a second reference block corresponding to the current block according to a second original motion vector of the current block; adjusting the first and second original motion vectors according to a first pixel value of the first reference block and a second pixel value of the second reference block to obtain a first target motion vector corresponding to the first original motion vector and a second target motion vector corresponding to the second original motion vector; encoding or decoding the current block according to the first and second target motion vectors.

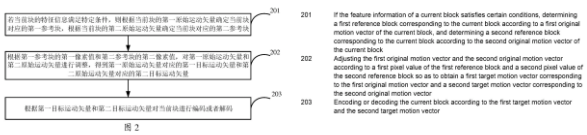


图 2

21: 2022/09630. 22: 2022/08/29. 43: 2022/10/18
51: C09D
71: XIAMEN SUNRUI SHIP COATING CO., LTD.
72: LI, Chunguang, LIU, Yilong, CHEN, Shanshan, YANG, Mingliang
54: IONIC SILICA GEL ANTIFOULING COATING AND PREPARATION METHOD THEREOF
00: -
The present disclosure relates to the technical field of chemical materials, and in particular, to an ionic silica gel antifouling coating and a preparation method thereof. The ionic silica gel antifouling coating includes component A and component B, where component A includes double polyethylene glycol-terminated polydimethylsiloxane (BPEG-PDMS), hydroxyl-terminated polydimethylsiloxane (PDMS), a pigment, and a solvent; and component B includes bis[3-(triethoxysilyl)propyl]amine (BTSA), a zwitterionic acrylic monomer, and a solvent. The ionic silica gel antifouling coating provided by the present disclosure integrates the repulsion characteristic of zwitterionic charges, the fouling release characteristic of PDMS, and the anti-protein characteristic of PEG into an antifouling coating system and can form a surface coating layer with a bionic structure, which can effectively prevent the adhesion of marine organisms in a highly polluted stationary marine environment.

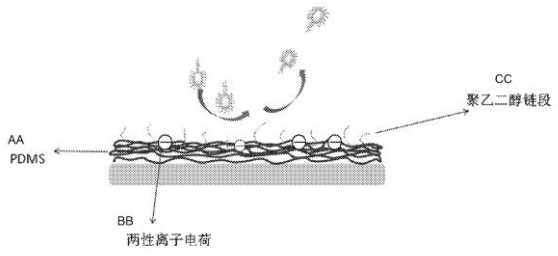
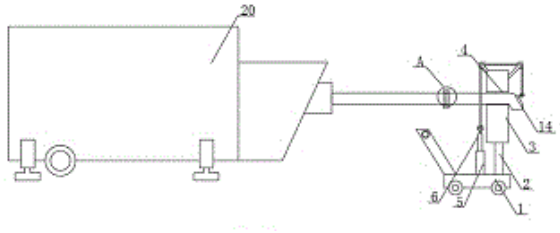


图 1
AA PDMS
BB Zwitterionic charge
CC Polyethylene glycol segment

21: 2022/09631. 22: 2022/08/29. 43: 2022/10/18
51: C09D
71: XIAMEN SUNRUI SHIP COATING CO., LTD.
72: WANG, Shenglong, WEN, Zhengming, YANG, Mingliang, WU, Peifa
54: WATER-BASED EPOXY ANTI-CORROSION COATING AND PREPARATION METHOD THEREOF
00: -
The present disclosure relates to the technical field of chemical materials, and in particular, to a water-based epoxy anti-corrosion coating and a preparation method thereof. The water-based epoxy anti-corrosion coating includes component A and component B. Component A includes self-emulsified waterborne epoxy resins A and B, a pigment, a filler, a dispersing agent, a wetting agent, a defoaming

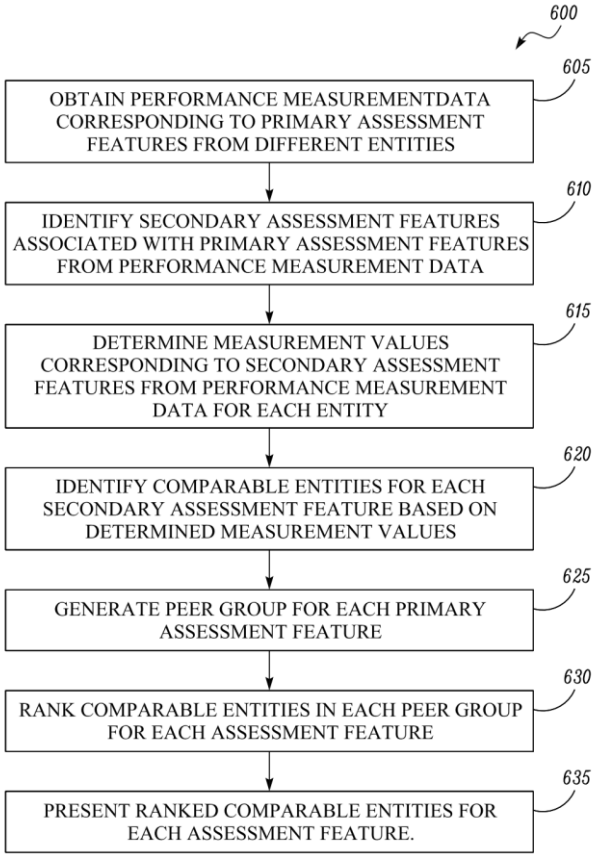
agent, and deionized water. Component B includes a curing agent and deionized water. The base resins can be subjected to high-speed dispersion or sand-milling with the pigment and the filler for a long time without demulsification, and there is no need to additionally prepare a pigment and filler solution, which reduces the production links and production costs. The prepared coating can be easily transported and stored for a long time without being separated into layers. The combination can avoid the addition of a cosolvent, and the film can be spontaneously formed during the drying process of the coating without excessive volatile organic compound (VOC) emission, which is energy-saving and environmentally friendly. The coating of the present disclosure has excellent performance, can be widely used in the anti-corrosion of steel structures for workshops, bridges, and petrochemicals, and has high practical and economic value.

21: 2022/09662. 22: 2022/08/30. 43: 2022/10/14
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: ZHANG, GUOWEN, XU, YUNPENG, ZHENG, JINSONG, HE, GUANJUN, LI, JING
33: CN 31: 202220150265.X 32: 2022-01-20
54: SELF-COMPACTING CONCRETE POURING DEVICE FOR CONCRETE FILLED STEEL TUBE COLUMN
00: -
The present disclosure discloses a self-compacting concrete pouring device for a concrete filled steel tube column, comprising a support plate, a support column, a connecting plate, a connecting hole, a first diversion hose, wherein the support column is fixedly connected with one side of the top of the support plate, the connecting plate is fixedly provided on one side of the top of the support column, the connecting plate is provided with a connecting hole, the first diversion hose inserts and connects with the inner wall of the connecting hole. Moreover, by providing an electric cylinder, a traction rope, a first guiding wheel and a second guiding wheel, time and effort can be saved when the staff filling concrete piles. After the concrete reaches the first diversion hose through the second diversion hose, the first diversion hose is fixed by the supporting of the connecting plate, while the staff starts the electric cylinder to drive the piston rod to move upwards and downwards. The traction rope exerts a pulling force on the second connecting ring, so that the first diversion hose can be adjusted upwards and downwards, which is convenient to adjust the angle at the port of the first diversion hose according to the size of the filling port of the concrete pile, avoiding the manual operation of the casting of the concrete column by the staff.



21: 2022/09664. 22: 2022/08/30. 43: 2022/10/17
51: G06F; G06Q
71: TATA CHEMICALS LIMITED
72: LOBO, Richard Anthony, BHADURI, Anirban
33: IN 31: 202121039642 32: 2021-09-01
54: SYSTEM AND METHOD FOR PERFORMANCE ASSESSMENT OF ENTITIES
00: -
A system and method for performance assessment of multiple entities is disclosed. The system comprises a processor configured to obtain performance measurement data corresponding to primary assessment features associated with the multiple entities. The processor is also configured to identify secondary assessment features associated with the primary assessment features from the performance measurement data. Further, the processor is configured to determine measurement values corresponding to the secondary assessment features. In addition, the processor is configured to identify comparable entities for each secondary assessment feature based on the determined measurement values. The processor is also configured to generate a peer group for each primary assessment feature. The peer group comprises the comparable entities identified. Further, the processor is configured to rank the

comparable entities in each peer group for each primary assessment feature. Furthermore, the processor is configured to present the ranked comparable entities for each primary assessment feature.

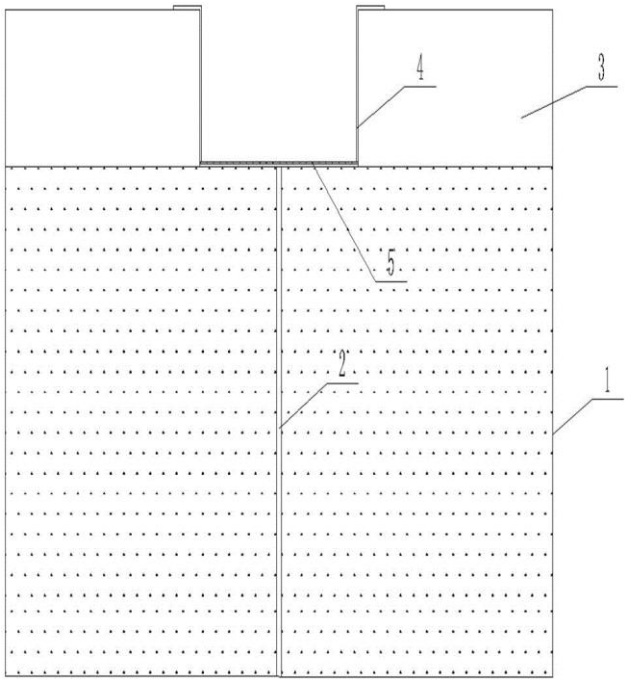


21: 2022/09676. 22: 2022/08/30. 43: 2022/10/18
51: C09D; G01N
71: XIAMEN SUNRUI SHIP COATING CO., LTD.
72: LIU, Yilong, HUANG, Jie, LI, Chunguang, WANG, Shenglong
54: METHOD FOR RAPIDLY EVALUATING EXUDATION RATE OF ANTIFOULING AGENT IN ANTIFOULING COATING
00: -
The present disclosure relates to the technical field of chemical materials, and in particular, to a method for rapidly evaluating an exudation rate of an antifouling agent in an antifouling coating. In the method for rapidly evaluating an exudation rate of an antifouling agent in an antifouling coating provided by the present disclosure, the antifouling coating is immersed in an immersion solution, and cuprous oxide in the antifouling coating releases copper ions at an increased speed in the immersion solution, such that a copper ion exudation rate of the coating can be quickly obtained. The method of the present disclosure is suitable for the rapid screening of coating formulas in the laboratory. With the present disclosure, before a coating is subjected to a shallow submergence experiment, coating formulas with poor copper ion exudation rates are excluded, which reduces the cost of the antifouling coating evaluation experiment and has important practical application value.

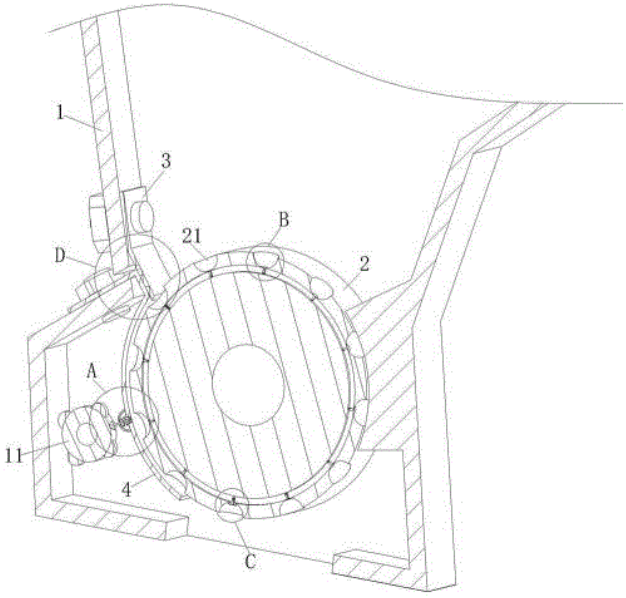
21: 2022/09788. 22: 2022/09/01. 43: 2022/10/14
51: A01N
71: ORO AGRI EUROPE S.A.
72: MONTEIRO, SARA ALEXANDRA VALADAS SILVA, PULLEN, CAROL
33: GB 31: 1917213.9 32: 2019-11-26
54: AN AGRICULTURAL ADJUVANT
00: -
This disclosure relates to an agricultural adjuvant comprising at least one polyphenol containing natural or synthetic oil composition where this oil includes blackcurrant (Ribes nigrum) seed oil. The agricultural adjuvant further includes at least one anionic surfactant, at least one nonionic surfactant, and at least one pH adjuster. The agricultural adjuvant mayfurther include water and/or additives. The agricultural adjuvant may be provided as a stable concentrate form and a stable diluted form being an emulsion. The disclosure extends to methods of manufacturing the agricultural adjuvant and/or uses thereof. The disclosure extends to agricultural compositions.

21: 2022/09809. 22: 2022/09/02. 43: 2022/11/25
51: C02F
71: Huzhou Vocational and Technical College (Huzhou Radio and Television University) (Huzhou Community University)
72: XU Xueyong, LI Jianhua, YANG Xiaonan
54: METHOD FOR ENVIRONMENTALLY-FRIENDLY TREATMENT OF RIVER SEDIMENT BY MAGNESIUM-BASED CEMENTING MATERIAL BASED ON INDUSTRIAL WASTE RESIDUE
00: -
The invention discloses a method for environmentally-friendly treatment of river bed mud by magnesium-based cementing material based on industrial waste residue, which belongs to the

technical field of waste mud reuse. In the method, a curing agent consisting of slag micropowder, steel slag micropowder, fly ash, desulfurized gypsum, magnesium chloride, light burned magnesium oxide, polyanionic cellulose, triisopropanolamine, water-absorbent resin and water is added into the river bottom mud, and the curing agent contains a large amount of solid waste, thus realizing the resource utilization of the waste residue and reducing the treatment cost of the river bottom mud. The method of the invention solves the problems of river sediment transportation, stacking and treatment, reduces land occupation and environmental pollution, has simple process and low cost, and can realize efficient and comprehensive utilization of resources.

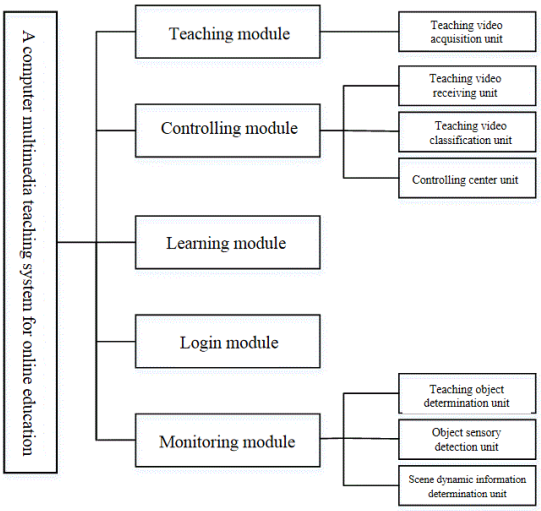


21: 2022/09810. 22: 2022/09/02. 43: 2022/11/03
51: A01C; A01G
71: Anhui Science and Technology University
72: LU Xiaomin, ZHAN Qiuwen, YAN Congsheng, YANG Dekun, YI Kechuan
33: CN 31: 202210657499.8 32: 2022-06-10
54: SEEDING DEVICE FOR PLANTING ECOLOGICAL VEGETABLES
00: -
The invention belongs to the technical field of vegetable planting, in particular to a seeding device for planting ecological vegetables, which comprises a vegetable seed metering device, wherein the vegetable seed metering device comprises a seed box, a seed metering wheel, a seed scraper, a guide piece and a dredging device, wherein the seed metering wheel is rotatably connected in the seed box, and a seed groove is formed on the surface of the seed metering wheel; by arranging the dredging rod, the dredging hole, the blocking piece and the rotating wheel, the clamping block squeezes one end of the dredging rod located outside the fixed cover, so that the dredging rod moves inside the fixed cover, so that one end of the dredging rod close to the blocking piece contacts with the vegetable seeds in the seed groove through the dredging hole, and the stress of the vegetable seeds in the seed groove shifts, thus reducing the blockage of the vegetable seeds in the seed groove, resulting in the phenomenon of missed sowing in the process of vegetable sowing.

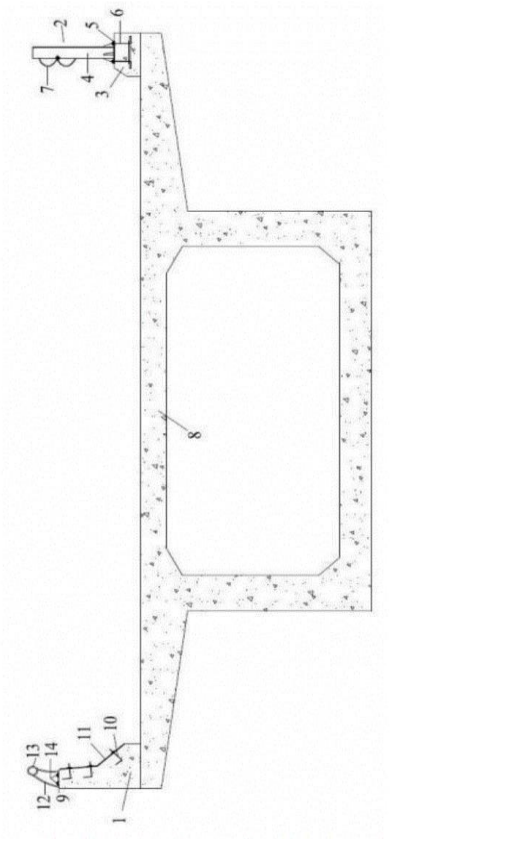


21: 2022/09811. 22: 2022/09/02. 43: 2022/11/03
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: CHENG Lanzhi, YANG Xiangge, QI Hui, WANG Lingyun, GAO Yixuan, CHEN Bin
33: CN 31: 202210984568.6 32: 2022-08-17
54: COMPUTER MULTIMEDIA TEACHING SYSTEM FOR ONLINE EDUCATION
00: -
This invention relates to a computer multimedia teaching system for online education, which includes: a teaching module: used for explaining and

recording the teaching content through the teaching terminal, and sending it to a controlling module; a controlling module: used for collecting the information sent by the teaching module, and transmitting the information to a learning module after it is processed; a learning module: used for retrieving the information in the control module to obtain the teaching content of teachers; and a monitoring module: used for monitoring the listening state of students; wherein the controlling module is connected with the teaching module and the learning module respectively, and the learning module is connected with the monitoring module. In this invention, educators and educatees may choose a learning mode more suitable for their own time in two modes, and users obtain more learning resources by adding a huge learning library, thus greatly improving the learning efficiency and enthusiasm.

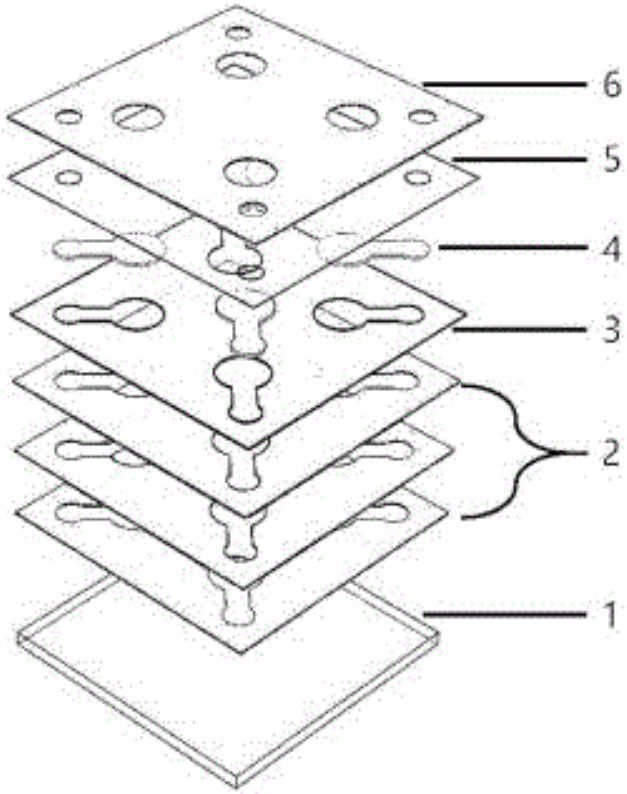


21: 2022/09812. 22: 2022/09/02. 43: 2022/11/03
51: E01D
71: Fuzhou University, China Railway 23rd Bureau Group No.1 Engineering Co., Ltd
72: Huang Xinyi, Rao Chengzhi, Sun Yin, Zhuo Weidong, Gu Yin, Sun Yaqi
54: A CONSTRUCTION METHOD FOR IMPROVING ANTI-OVERTURNING BEARING CAPACITY OF CONCRETE CURVED BEAM BRIDGE
00: -
The invention releates a construction method for improving the anti-overturning bearing capacity of concrete curved beam bridge, and a construction method is as follows: (1) dismantle the concrete anti-collision guardrail outside the curve of the concrete curved beam bridge when rebuilding the existing bridge, and retain the vertical steel bars reserved at the flange plate inside the concrete anti-collision guardrai; (2) clean part of the vertical steel bars inside the concrete anti-collision guardrail, bind the steel bars of the concrete base of the steel guardrail, and position and install the embedded steel plate and high-strength bolt of the base of the steel guardrail column; (3) pou concrete to form a concrete base and cure to meet the design strength; (4) install steel guardrail column and corrugated steel plate on the concrete base.



21: 2022/09813. 22: 2022/09/02. 43: 2022/11/03
51: C12Q
71: Fuzhou University
72: SUN Hao, LI Haichao, DONG Hui, JIA Yuan, MO Jin, XIE Wantao
54: PAPER-BASED MICROFLUIDIC CHIP FOR QPCR AND MANUFACTURING METHOD THEREOF
00: -

The invention provides a paper-based microfluidic chip for qPCR and a manufacturing method thereof. It can be applied to the technical field of nucleic acid detection under abnormal or variable temperature conditions, such as PCR, LAMP and the like. The chip structure includes a quartz glass substrate, a positioning hydrophobic retainer, a strength positioning retainer, a paper-based reaction unit, a sealing film and an injection-detection grid, etc. All the above components except the substrate can be processed by a laser engraving machine at one time. Where, the positioning hydrophobic retainer and the injection-detection grid can be obtained by laser-treated PVC waterproof adhesive; the processing shape of the strength positioning retainer is the same as that of the positioning hydrophobic retainer, and the main material can be high transparent PET double-sided adhesive tape; the paper-based reaction unit can use cellulose qualitative filter paper to provide reaction system; sealing film is 3c (0.03 mm) plastic film to package the whole chip. This method realizes a closed area of evaporation, condensation and the detection based on this system without any surface treatment modification of the initial material.



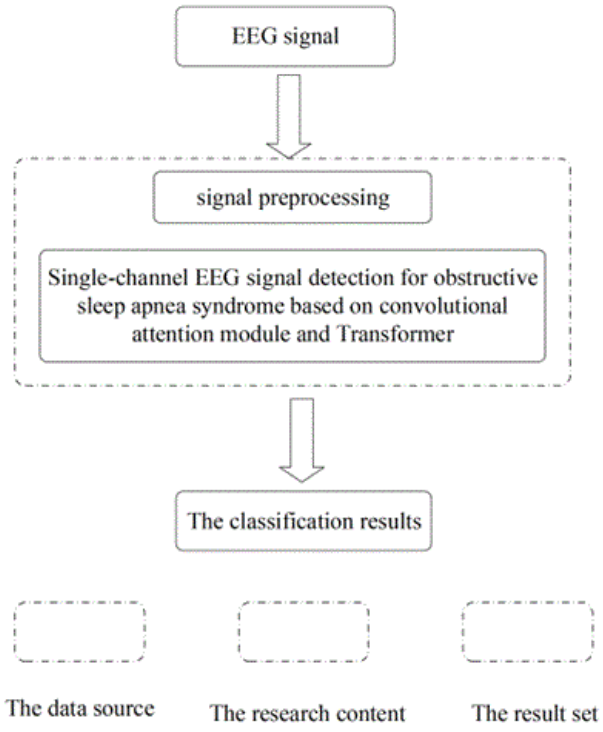
21: 2022/09814. 22: 2022/09/02. 43: 2022/11/03
51: C12N
71: Xi'an University of Technology
72: Zhenghao Shi, Zhijun Zhang, Liang Zhou, Chengjian Li, Xiaoyong Ren, Xinhong Hei, Yitong Zhang, Haiqin Liu, Jing Luo, Zhenzhen You, Jingguo Chen

54: FFC-OSA: AN INTEGRATION OF CONVOLUTIONAL BLOCK ATTENTION MODULE AND TRANSFORMERS FOR OBSTRUCTIVE SLEEP APNEA DETECTION USING SINGLE-CHANNEL EEG

00: -

The present invention relates to an Integration of Convolutional Block Attention Module and Transformers for Obstructive Sleep Apnea Detection Using Single-Channel EEG. The method includes: a preprocessing, feature extraction and classification network is constructed; preprocessing for source signal extraction of EEG signals using FastICA algorithm; The feature extraction module consists of a two-way convolutional neural network, the feature extraction module of the Convolutional Attention Module (CBAM) and the Transformer. The two-way convolutional neural network extracts from different frequency bands corresponding to low and high frequencies, the convolutional attention module

implements adaptive feature optimization to enhance feature learning, and the Transformer implements capturing contextual dependencies between features; subsequently, the present invention also improves the category-aware loss function to effectively solve the category imbalance problem without additional computation. Finally, the classifier composed of MLP and Softmax is completed for OSA detection in the patient's whole night record. The present invention can improve the accuracy of OSA detection.



21: 2022/09821. 22: 2022/09/02. 43: 2022/12/01
51: A62D
71: NANJING GAO SHENG FIRE EXTINGUISHING AGENT CO., LTD.
72: JIANG, Cuiping, JIANG, Jinkang, JIANG, Zhonghu

54: ABC DRY POWDER FIRE EXTINGUISHANT AND PREPARATION METHOD THEREFOR

00: -

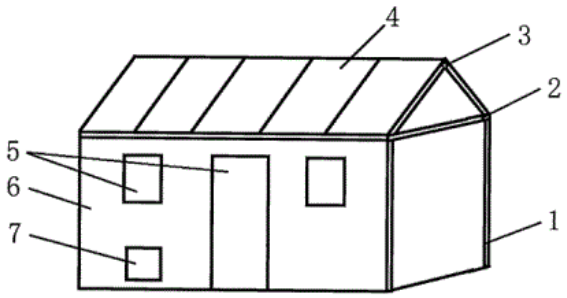
Disclosed are an ABC dry powder fire extinguishant and a preparation method therefor. The method comprises: comminuting various ingredients, first siliconizing ammonium sulfate, ammonium dihydrogen phosphate and a filler, and subsequently adding a promoter upon drying. The prepared dry powder fire extinguishant is able to achieve a fire extinguishing effect, and has the advantages of being low in cost and not prone to caking from moisture.

21: 2022/09837. 22: 2022/09/02. 43: 2022/11/03
51: E04B; E04D; F25B
71: ZHANG, Quankang
72: ZHANG, Quankang, ZHANG, Jin
33: CN 31: 202010984508.5 32: 2020-09-18

54: KAPOK PASSIVE HOUSE

00: -

A kapok passive house, comprising columns (1), beams (2), purlins (3), kapok photovoltaic tiles (4), door and window (5), kapok thermal insulation plates (6) and a solar heat exchange device (7); the kapok thermal insulation plates (6) are located around the house and are inserted into the columns (1), beams (2) and purlins (3) by means of mortises and tenons, the kapok photovoltaic tiles (4) are fixed on the top of the house, the door and window (5) are provided at one side of the house, and the solar heat exchange device (7) is provided at the lower part of one side of the house; the columns (1), beams (2) and purlins (3) are all formed by solidification and curing by using kapok as a main material and cold gelling materials as a binder, and the door and window (5) use a three-layer and two-space structure and are filled with an inert gas; and electric energy generated by the kapok photovoltaic tiles (4) is used for illumination and is used by the solar heat exchange device (7). The kapok passive house changes the attributes of traditional houses, saves resources, improves the environment, and reduces costs.



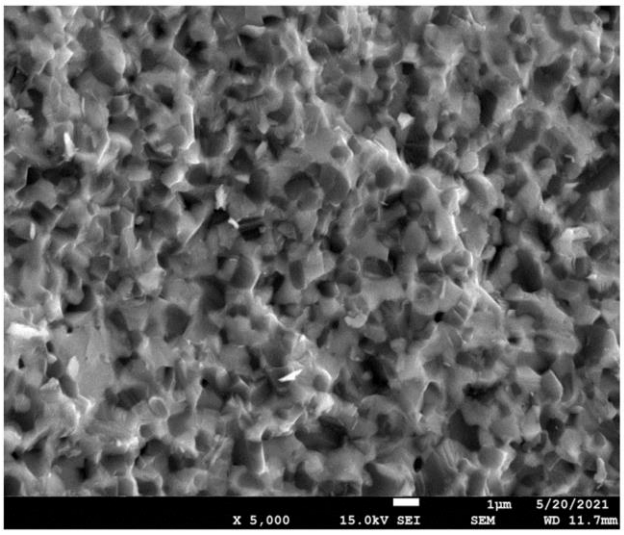
21: 2022/09859. 22: 2022/09/05. 43: 2022/11/21
51: C04B
71: Zhengzhou University of Aeronautics

72: Zhang, Mengwen, Wang, Shuxia, He, Junlin, Li, Zhaosheng, Fan, Lei, Yang, Shoulei, An, Li'nan, Guo, Xiaoqin

54: PREPARATION METHOD OF Y2O3-MGO INFRARED TRANSPARENT CERAMIC MATERIAL

00: -

The present disclosure discloses a preparation method of an Y2O3-MgO infrared transparent ceramic material, belonging to the technical field of transparent ceramic materials, which including the following steps: weighing Y2O3 nanopowder and MgO nanopowder by volume, and performing ball milling, drying and sieving respectively, and well mixing the nanopowders to obtain a nanocomposite powder; pre-burning and debinding the nanocomposite powder into a muffle furnace to remove organic matter from the powder; putting the nanocomposite powder debound in a graphite mold for hot-pressing sintering, thus obtaining a multiphase ceramic green body; connecting the multiphase ceramic green body obtained to circuit and applying an electric field; after flash burning occurs in the multiphase ceramic green body, and then cooling, thus obtaining a high-density Y2O3-MgO ceramic material. In the present invention, where a large number of oxygen vacancies are introduced into a multiphase ceramic green body by hot-pressing sintering in a graphite mold, so that flash burning can occur in an environment with a low temperature field and a low electric field, and finally the grain growth can be suppressed while achieving high density, which is conducive to the improvement of mechanical properties and stabilization of transmittance, the ceramic material can be used as an infrared window material.



21: 2022/09865. 22: 2022/09/05. 43: 2022/10/27

51: A63B

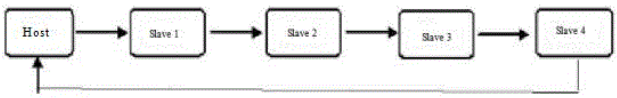
71: Shenyang University of Technology

72: GUO Hui, ZHAO Meng, LIU Yunting, MA Yaning, LIU Bo, LIU Shimeng, CHEN Ziqiang, ZHANG Haiming, CHEN Ruoyu, REN Huadong

54: TURN-BACK RUNNING TEST SYSTEM AND TESTING METHOD

00: -

Turn-back running test system, which includes a host and a plurality of slaves; Multiple slaves are connected in series, the first slave is connected to the host, and the last slave is reconnected to the host. This equipment has made breakthroughs and great advantages in timing accuracy, visual reminders, sound prompts, etc. With the increasingly popular application trend of turn-back running, intelligent turn-back running test instrument A will play its due positive role in promoting the popularization of this physical test item, and even play a necessary guiding role in the formulation of relevant standards. Now, under the great environment that our country strongly calls for national fitness, our products will have a broad market prospect.



21: 2022/09866. 22: 2022/09/05. 43: 2022/10/27

51: G01N

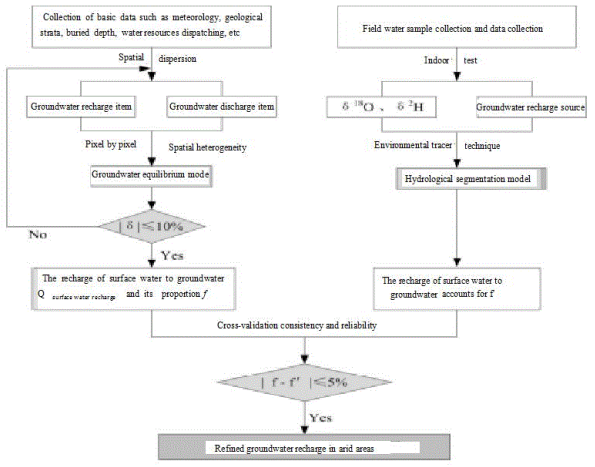
71: XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY CHINESE ACADEMY OF SCIENCES, Xinjiang University

72: WANG Weihua, CHEN Yaning, WANG Wanrui, YANG Yuhai

54: MEASUREMENT TECHNOLOGY OF GROUNDWATER RECHARGE IN ARID AREA COMBINING VARIOUS TECHNOLOGIES

00: -

The invention relates to a technique for measuring and calculating groundwater recharge in arid areas, in particular to a technique for measuring and calculating groundwater recharge by combining water balance model with environmental tracer technology. Based on the water balance model, ArcGIS software and spatial interpolation method are used, and the pixel-by-pixel calculation method is adopted to realize the refined groundwater recharge calculation. Calculate the recharge of surface water to groundwater and its percentage in the total recharge of groundwater; Using environmental tracing technology and hydrological segmentation model, the proportion of surface water supply to groundwater is estimated. By comparing the proportion of surface water recharge to groundwater calculated by water balance model and environmental tracing technology, the consistency and reliability of groundwater recharge calculation results are cross-verified. Using pixel-by-pixel calculation method, the groundwater recharge term is described more finely, and the calculation accuracy is improved. The consistency of the calculation results is cross-verified by two methods, which improves the reliability of the calculation results of groundwater recharge.



21: 2022/09872. 22: 2022/09/05. 43: 2022/10/27
51: C12Q; G01N

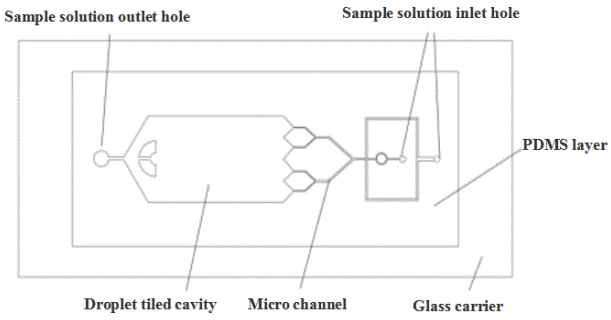
71: Fuzhou University

72: SUN Hao, LI Haichao, DONG Hui, JIA Yuan, MO Jin, XIE Wantao

54: DROPLET DIGITAL PCR FLUORESCENCE ACQUISITION SYSTEM BASED ON MECHANICAL MOTION

00: -

The invention discloses a droplet digital PCR fluorescence collection system based on mechanical movement, which collects the effective droplet number in the droplet digital PCR chip through an image photographing module, collects the effective fluorescent droplet number in the droplet digital PCR through a fluorescence imaging module, and then calculates the total number of effective droplets and the total number of effective fluorescent droplets by combining the pictures sent by the image photographing module and the fluorescence imaging module through a control module, so as to calculate the initial concentration of a target gene. The invention can realize faster and more accurate detection of the droplets, thereby calculating and realizing the determination of the concentration of the target gene.



21: 2022/09909. 22: 2022/09/06. 43: 2022/11/21
51: G01N

71: GUANGXI TRANSPORTATION SCIENCE AND TECHNOLOGY GROUP CO., LTD, CHANGSHA UNIVERSITY OF SCIENCE AND TECHNOLOGY, GUANGXI RONGWU EXPRESSWAY CO., LTD.

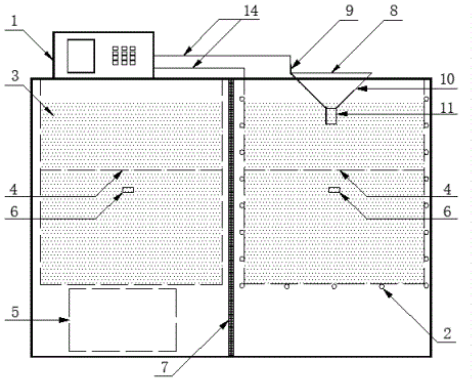
72: XIONG, Jianping, ZHANG, Honggang, YI, Keliang, WANG, Dawei, PENG, Wenju, LI, Ping, ZHANG, Yangpeng, ZHOU, Yuming, WANG, Zihan, HUANGFU, Youhui, LIU, Shende

54: ASPHALT FLOATABILITY TEST DEVICE AND TEST METHOD THEREOF

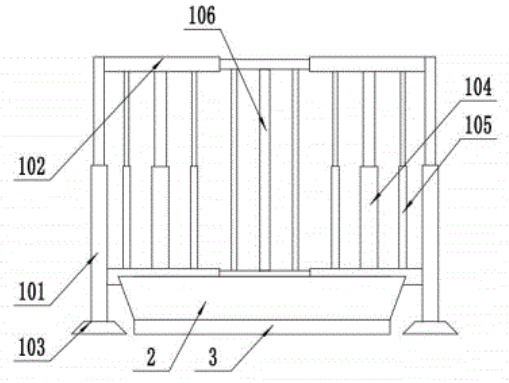
00: -

The invention discloses an asphalt floatability test device and a test method thereof, wherein the

asphalt floatability test device consists of a control part, a test part, a pre-cooling part and a floating part, the control part consists of a controller and a wire, and can control water temperature and record time; the test part of the asphalt floatability test device consists of a water tank, a heating wire, a perforated metal separator and a temperature sensor; the pre-cooling part of the asphalt floatability test device consists of a water tank, a refrigerator, a perforated metal separator, a temperature sensor and a temperature insulation layer; the floating part consists of an aluminum floating dish, a wire joint, a counterweight wire, an insulated wire, a contact point, and a copper sleeve. The device can improve test efficiency and test accuracy.

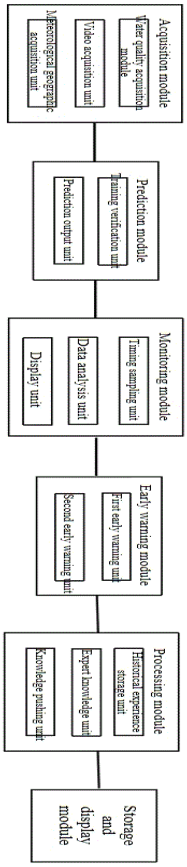


21: 2022/09910. 22: 2022/09/06. 43: 2022/11/21
51: A01K; B08B
71: Tianjin Agricultural University, Beijing Eastern Bell Technology Group
72: TIAN, Yujia, WANG, Yuxin, DONG, Yinxi, LIU, Weidong, ZHANG, Xuewei
33: CN 31: 202220498350.5 32: 2022-03-09
54: SUPPLEMENTARY FEEDING FENCE DEVICE FOR POSTPARTUM COW
00: -
The present disclosure discloses a supplementary feeding fence device for postpartum cows and relates to the technical field of supplementary feeding of postpartum cows. The device may include a fence assembly. A plurality of fence assemblies are provided to form a closed fence. A feeding trough is provided under an inner side of one of the fence assemblies. A material box is provided on an outside of the fence assembly where the feeding trough is located. The material box is communicated with the feeding trough through a feeding pipe. A first material level sensor is installed on the feeding trough. The first material level sensor is connected to a controller. A control valve is installed on the feeding pipe. The control valve is connected to the controller. The present disclosure can make feeding conveniently, and can control the feeding amount to reduce waste.



21: 2022/09911. 22: 2022/09/06. 43: 2022/11/29
51: G06Q
71: Qinghai 906 Engineering Survey and Design Institute Co., Ltd., Bureau of Qinghai Environmental Geological Prospecting, Qinghai Institute of Geological and Environmental Survey, Qinghai Geological Survey
72: WANG Shengbin, QI Zexue, CHAI Xiaoran, WANG Wanping, ZHANG Guoqiang, CHEN Long, LI Shangwei, YANG Zhanmei, A Huijuan, YANG Shaokang, KOU Haicong, WU Ping
54: DYNAMIC MONITORING AND EARLY WARNING SYSTEM FOR DRINKING WATER SOURCES AREA
00: -
The invention provides a dynamic monitoring and early warning system for drinking water sources area, which includes an acquisition module, a prediction module, a monitoring module, an early warning module, a processing module and a storage and display module; the acquisition module is used for acquiring water quality data of drinking water sources area; the prediction module is used for predicting the development trend of the water quality data; the monitoring module is used for monitoring the water quality data collected in real time and the predicted data; the early warning module is used for sending out early warning information according to the real-time monitoring situation and the development trend situation; the processing module is used for performing corresponding processing

according to the early warning information; and the storage and display module is used for storing the water quality data and displaying the water source dynamics. This invention realizes advanced monitoring and management of drinking water through real-time monitoring of water quality and prediction of development trend; it realizes that an accurate treatment mode is found in time after the early warning occurs, so as to avoid the aggravation of changes by setting early warning and corresponding treatment mechanism.

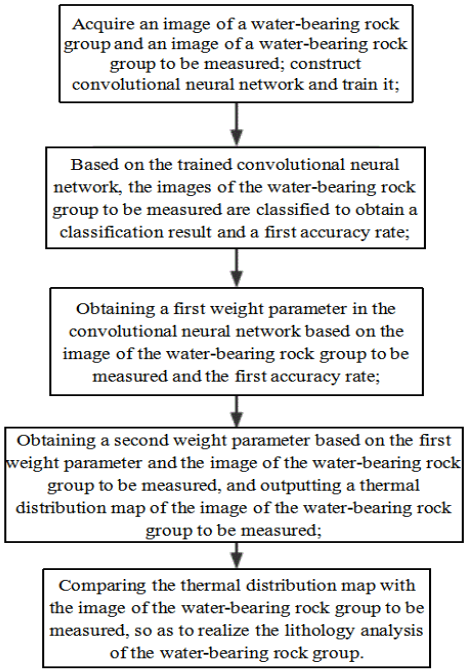


21: 2022/09912. 22: 2022/09/06. 43: 2022/11/21
51: G01N
71: Qinghai 906 Engineering Survey and Design Institute Co., Ltd., Bureau of Qinghai Environmental Geological Prospecting, Qinghai Institute of Geological and Environmental Survey, Qinghai Geological Survey
72: QI Zexue, WANG Shengbin, WANG Fenglin, DAI Shiwei, WANG Wanping, CHEN Long, CHEN Xiaolin, DONG Gaofeng, LIU Yi, ZHAO Shengjun, XIE Zhenxing, WANG Mengyun

54: LITHOLOGY ANALYSIS METHOD FOR MINERAL WATER-BEARING ROCK GROUP

00: -

The invention discloses a lithology analysis method for mineral water-bearing rock groups, which belongs to the field of water-bearing rock group image analysis, and comprises the following steps: obtaining water-bearing rock group images and water-bearing rock group images to be measured; a convolutional neural network is constructed and trained based on the image of water-bearing rock group; based on the trained convolutional neural network, the images of the water-bearing rock group to be measured are classified to obtain the classification result and the first accuracy rate; based on the image of the water-bearing rock group to be measured and the first accuracy rate, the first weight parameter in the convolutional neural network is obtained; obtaining a second weight parameter based on the first weight parameter and the image of the water-bearing rock group to be measured, and outputting a thermal distribution map of the image of the water-bearing rock group to be measured; compare the thermal distribution map with the image of the water-bearing rock group to be measured, so as to realize the lithology analysis of the water-bearing rock group. The method can solve the problems of large manual workload and high processing cost existing in the prior art, and can realize lithology analysis of water-bearing rock groups by identifying image features through convolutional neural networks.

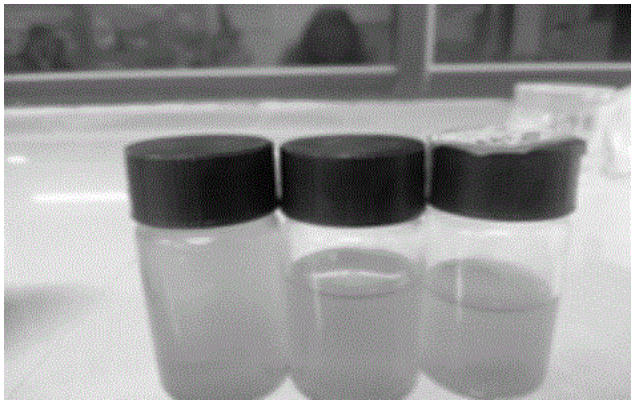


21: 2022/09913. 22: 2022/09/06. 43: 2022/11/21
51: C12N
71: Guizhou Gu Nonghui Technology Service Co., Ltd, Institute of Crop Germplasm Resources, Guizhou Academy of Agricultural Sciences
72: Gong GuangLu, Yang TongJing, Wang Qin, Hu TengWen, Yang Shan, Zhang Li, Peng Bin
54: DIRECT SEEDING CULTIVATION METHOD OF MORCHELLA ESCULENTA LIQUID STRAIN
00: -
The invention relate to that technical field of Morchella cultivation, and discloses a direct seeding cultivation method of Morchella esculenta liquid strain, which comprises the following steps: S1, obtaining pure Morchella esculenta stain by a multi-spore separation method; S2, manufacturing liquid strain: first obtaining a first-class liquid strain by using a liquid culture medium, and then transferring the liquid strain to a fermentation tank to obtain Morchella esculenta liquid strain for sowing; S3: the liquid strain seeding method: with the seeding amount of 1L/m2, directly seeding the liquid strain of Morchella esculent in the soil under the forest or in the greenhouse, or directly seeding the substrate material on the industrialized fungus bed. The method has solved the problem of inconsistent Morchella esculenta cell age, shortened the strain preparation time, has the characteristics of fluidity, easy dispersion, rapid germination, shortened cell age and the like; moreover, the method can shorten the production cycle, save a lot of manpower and material resources; meanwhile, it can realize mechanized factory annual production, increase the yield and enrich the cultivation mode of Morchella esculenta.

21: 2022/09915. 22: 2022/09/06. 43: 2022/11/21
51: A23K
71: Institute of Plant Protection, Guizhou Academy of Agricultural Sciences
72: CHENG, Ying, ZHOU, Yuhang, LI, Fengliang, JIN, Jianxue, LI, Hongbo, LI, Wenhong
54: METHOD FOR FEEDING COCCINELLA SEPTEMPUNCTATA L ADULTS WITH KINOPRENE ARTIFICIAL FEED
00: -
The present disclosure provides a modified adult feed for C.septempunctata L, belonging to the field of artificial feeding. The feed provided by the present disclosure comprises a basal feed and a hormone, wherein the hormone is kinoprene. In the present disclosure, kinoprene is used as a juvenile hormone analog. The juvenile hormone analog has the same effect as juvenile hormone, and has the effect of promoting the development of female reproductive system and regulating the synthesis of vitellogenin for many insects. The experimental results show that the modified feed for C.septempunctata L provided in the present disclosure improves the oviposition amount and hatching rate of adults.

21: 2022/09916. 22: 2022/09/06. 43: 2022/11/21
51: C12G
71: Moutai Institute
72: YU Shirui, CHEN Juan, MA Lina, ZHANG Guoqiang, SU Hongliang, LIU Hong, LIU Lan, SUI Kunyu
54: PREPARATION METHOD OF GIANT SALAMANDER WINE
00: -
The invention discloses a preparation method of giant salamander wine, and relates to the technical field of aquatic product development and wine making. The method includes the following steps: 1. grinding giant salamander meat and giant salamander skin to obtain giant salamander minced meat and giant salamander skin pulp, adding water respectively, adding compound enzyme for enzymolysis, centrifuging to obtain filtrate, and mixing to obtain giant salamander enzymatic

hydrolysate; 2. mixing the giant salamander enzymatic hydrolysate with wine to obtain the giant salamander wine; the compound enzyme added into the giant salamander minced meat consists of papain protease and flavor protease with an enzyme activity unit ratio of 2-3:1-2; and the compound enzyme added into the giant salamander fish skin pulp consists of alkaline protease and yeast with an enzyme activity unit ratio of 2-4:1. The present invention uses compound enzyme preparation A and compound enzyme preparation B to directionally and controllably decompose proteins in giant salamander meat and giant salamander skin into small molecule active peptides, and that improves the active efficacy of enzymatic hydrolysis products, and further enhances the antioxidant function of giant salamander wine, laying a technical foundation for the deep processing of giant salamander raw materials.



21: 2022/09917. 22: 2022/09/06. 43: 2022/11/21
51: C05G
71: Jinggangshan Red Soil Research Institute (Jinggangshan branch of Jiangxi Academy of Agricultural Sciences), Soil and Fertilizer & Resources and Environmental Jiangxi Academy of Agricultural Sciences
72: Jin Chen, XiHuan Liang, XingZhao Dai, ChunRui Peng, XianMao Chen, XianJiao Guan, Jiang Xie, GuoQiang Deng, CaiFei Qiu, JianHua Ji, YinFei Qian

54: SPECIAL BASE FERTILIZER, SPECIAL FRUIT-STRENGTHENING FERTILIZER AND FERTILIZATION METHODS FOR JINGGANG HONEY POMELO

00: -

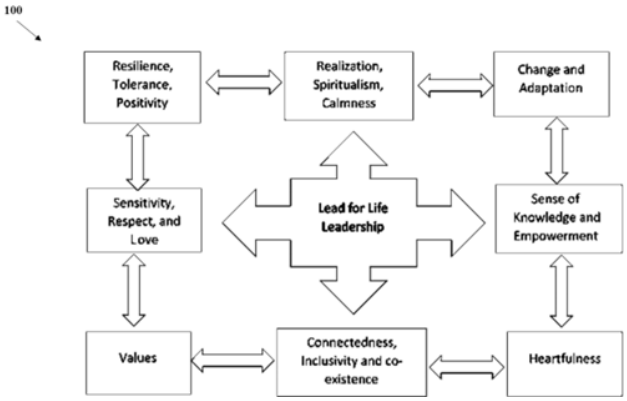
The invention belongs to the technical field of honey pomelo fertilization, and particularly relates to a special base fertilizer, a special fruit-strengthening fertilizer and fertilization methods for Jinggang honey pomelo. The invention provides a special base fertilizer for Jinggang honey pomelo, which according to the percentage of the total mass of the special base fertilizer, comprising: 15-17 percent of nitrogen; 11-13 percent of phosphorus pentoxide; 11-13 percent of potassium oxide; 5.5-6.5 percent of calcium oxide; 1.0-1.6 percent of magnesium oxide; 0.3-0.4 percent of zinc; 0.06-0.10 percent of boron; 3.5-4.0 percent of sulfur; 8.0-9.0 percent of synergist. Based on the target yield, soil fertility and nutrient absorption and utilization law, the invention constructs an precise fertilization model. In addition, the special base fertilizer, special fruit-strengthening fertilizer and fertilization methods for Jinggang honey pomelo provided by the invention can better meet the fertilizer requirement law of high-yield and high-quality cultivation of Jinggang honey pomelo, save labor and cost, have simple operation, and improve the utilization rate of fertilizer.

21: 2022/09918. 22: 2022/09/06. 43: 2022/11/21
51: G06Q
71: Kalinga Institute of Industrial Technology (KIIT), Prof. Sasmita Rani Samanta
72: Prof. Sasmita Rani Samanta

54: A METHOD FOR ANALYSIS LEADERSHIP APPROACH

00: -

The present invention relates to a method (100) method for analysis leadership approach. The method (100) comprises of a leadership approach, design thinking, heartfulness, imagination to ideation, an ideation to conceptualization and a conceptualization to execution. The present invention provide a method (100) that improve human survival and sustained development with peace, harmony, and contentment. The method (100) also focuses on contemporary issues in the present world. The method (100) illustrates the integrative approach of particular leadership dimensions.

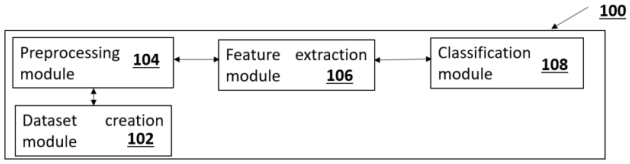


21: 2022/09921. 22: 2022/09/06. 43: 2022/11/21
51: A61B
71: Rewant Chauhan, Dr. Nimma Vijayalaxmi, Dr. Easwaran Ramaswami, Dr. Prajwalit Kende, Dr. Amit Bhawalkar, Dr. Vilas Takate, Dr. Dimple Padawe
72: Rewant Chauhan, Dr. Nimma Vijayalaxmi, Dr. Easwaran Ramaswami, Dr. Prajwalit Kende, Dr. Amit Bhawalkar, Dr. Vilas Takate, Dr. Dimple Padawe

54: A SYSTEM FOR DETERMINING GROWTH OF MID PHALANX [MP3] STAGING IN A PATIENT AND A METHOD THEREOF

00: -

A system (100) and a method (200) for determining growth of mid phalanx (MP3) staging in a patient, comprises of: a dataset creation module (102) for creating a dataset based on an input data; a pre-processing module (104) associated with the dataset creation module (102) for removing metadata from the input data; a feature extraction module (106) associated with the preprocessing module (104) for extracting a plurality of features for identifying growth of the mid phalanx stages based on at least a deformation; and a classification module (108) associated with the feature extraction module (106) for classification of the plurality of features into a plurality of stages for identifying the stage of growth of mid phalanx.

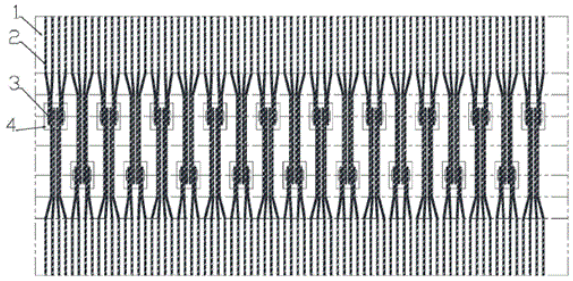


21: 2022/09923. 22: 2022/09/06. 43: 2022/11/21
51: E04G
71: China Institute of Water Resources and Hydropower Research
72: Tiesheng Dou, Lijun Zhao

54: EXTERNAL PRESTRESS STRENGTHENING SYSTEM OF PRESTRESSED CONCRETE CYLINDER PIPE AND CONSTRUCTION METHOD THEREOF

00: -

The invention discloses an external prestress strengthening system of a prestressed concrete cylinder pipe and a construction method thereof. The external prestress strengthening system comprises a plurality of prestress steel wires which are arranged on the outer wall of a prestressed concrete cylinder pipe body, the head and tail ends of the multiple prestress steel wires are fixed to anchoring plates through anchorage devices; and each prestress steel wire is fixed to one anchoring plate through one anchorage device, and the prestress steel wires are wound on the outer wall of the prestressed concrete cylinder pipe in a double-circle mode. Not only can the external prestress strengthening system of the prestressed concrete cylinder pipe and the construction method thereof give full play to the characteristic of high strength of extension of the prestress steel wires, but also a whole pipeline reduces pressure without stopping water, the external prestress strengthening system acts on the surface of a prestressed concrete cylinder pipe structure, the integrity of an original pipe body structure of a prestressed concrete cylinder pipe is not damaged, and the strengthening effect is good.

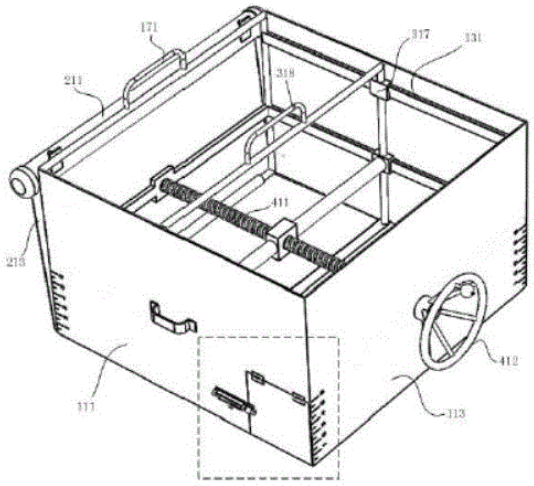


21: 2022/09956. 22: 2022/09/07. 43: 2022/11/29
51: G01N
71: Shandong Marine Resources and Environment Research Institute
72: SUN, Wei, XU, Yandong, LIU, Ning, ZHU, Jinlong, WEI, Xiao, SUN, Guiqin, MA, Yuanqing, CHEN, Lizhu, HU, Shunxin, NIE, Chaohui, WANG, Han

54: RAPID COLLECTION DEVICE FOR SMALL-SIZED MARINE LITTER AND MICROPLASTIC SAMPLES FROM COASTAL TIDAL FLAT

00: -

A device for rapidly collecting small-sized marine litter and microplastic samples from a coastal tidal flat is provided, including a frame, an automatic winding drum, a movable planer and a driving mechanism. Compared with the prior art, the present invention can be directly placed on the surface of a coastal tidal flat, and the device is pressed to the sampling depth, and then the hand wheel of the driving mechanism is rotated to achieve sample collection, and then the whole device is taken out and the sample is transferred to a sample bottle. The operation process is simple, accurate and rapid.



21: 2022/09997. 22: 2022/09/08. 43: 2022/11/28

51: A23B

71: WUGANG CITY QINFENGYUAN FORESTRY PROFESSIONAL COOPERATIVE, WUGANG MUNICIPAL BUREAU OF AGRICULTURE AND RURAL AFFAIRS

72: ZHANG, Huage, CHEN, Li, LIU, Kaihua, WANG, Yumin, WANG, Junhui, SUN, Sisheng, YANG, Xu, SONG, Dapeng, LIU, Guoju, LI, Xinna, LI, Fengru, CAO, Nan, YANG, Yongliang, WANG, Liying, ZHANG, Yafei, HU, Shaoying

54: STORAGE METHOD AND STORAGE AGENT OF 'SHINE MUSCAT' GRAPES

00: -

A storage method and agent of 'Shine Muscat' grapes. The storage method comprises: soaking the grapes with aqueous solution containing 10% weight parts of ginger extracts and 2% weight parts of calcium chloride for 4-6 min; taking out the soaked grapes, naturally draining water on the surfaces of the grapes, and then, packaging the grapes with Polyethylene freshness keeping bags. The aqueous solution of ginger extracts and calcium chloride is adopted as the storage agent and has better inhibition effect on the shattering rate and the rotting rate of fruits of the grapes, so as to prolong the storage life thereof. The storage agent can effectively delay the descending of the titratable acid content, the total soluble solid content and the Vc content of the fruits of the grapes after picking and can keep good taste quality and sensory quality of the fruits of the grapes after picking.

21: 2022/10005. 22: 2022/09/08. 43: 2022/11/29

51: H02G

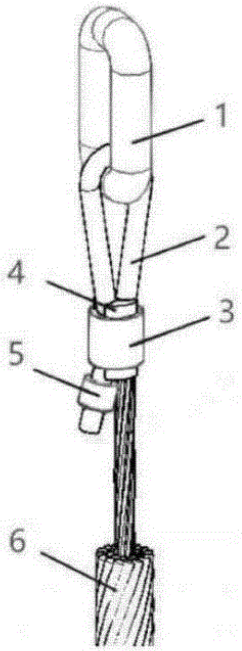
71: Chengdu University of Technology

72: CHEN, Tianxiang, ZHANG, Yu, WANG, Rongquan, WANG, Anqi

54: AN ANTI-SLIP MEMORY ALLOY POWER LINE PIPE JOINT

00: -

The invention discloses an anti-slip memory alloy power line pipe joint, comprising an annular steel handle, a steel core, a first heat-shrinkable one-way memory alloy pipe, a second heat-shrinkable one-way memory alloy pipe and an "X"-shaped steel wedge; the "X"-shaped steel wedge is arranged in the first heat-shrinkable one-way memory alloy pipe and forms two steel core clamping holes therewith, whose hole diameter is closely adapted to the steel core; after passing through the first steel core clamping hole, and then passing around the annular steel handle, the end portion of the steel core passes through the second steel core clamping hole; by adopting the above-mentioned solution, the connection mode of the memory alloy pipe of the invention brings about more secure connection line with longer service life.

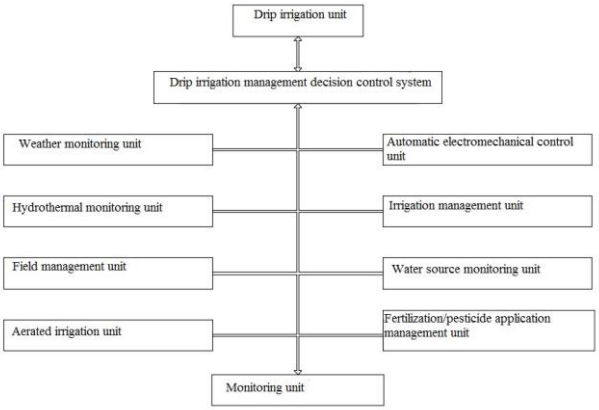


21: 2022/10042. 22: 2022/09/09. 43: 2022/11/23
51: A01G
71: INSTITUTE OF WATER RESOURCES FOR PASTORAL AREA, MWR
72: ZHENG, Hexiang, CAO, Xuesong, CHANG, Limao, TIAN, Xiaoqiang, MIAO, Ping, WU, Jiabin, BAI, Xingang, HAN, Zaihui, FU, Hua, LIU, Jin, FENG, Rui, WU, Tongjing, BIAN, Nan, CHEN, Bing, LI, Yong
33: CN 31: 202211072012.6 32: 2022-09-02

54: AUTOMATIC IRRIGATION MANAGEMENT DECISION CONTROL SYSTEM FOR DRIP IRRIGATION OF PERENNIAL FORAGE GRASSES

00: -

The present invention provides an automatic irrigation management decision control system for drip irrigation of perennial forage grasses, which includes: a weather monitoring unit, an automatic electromechanical control unit, a hydrothermal monitoring unit, an irrigation management unit, a field management unit, a water source monitoring unit, an aerated irrigation unit, a fertilization/pesticide application management unit and a monitoring unit. In the present invention, a complete drip irrigation control network is formed by interactive cooperation of the units and data transfer through a cloud database, and the drip irrigation decision control system is formed into a closed loop; and based on a BP learning algorithm, in an irrigation control process, the drip irrigation decision control system can control the drip irrigation process automatically, and optimize the drip irrigation logic automatically according to autonomous learning.

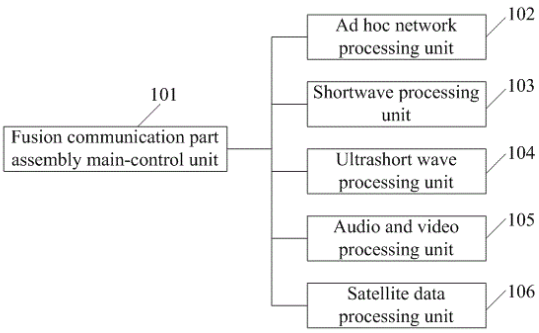


21: 2022/10043. 22: 2022/09/09. 43: 2022/12/01
51: H04L
71: Army Academy of Armored forces of PLA
72: SUN, Yan, CUI, Peizhi, LEI, Zhen, ZHENG, Xianzhu, WU, Xixi, ZHAI, Xiaoning, WANG, Hongqiang, CHENG, Jie

54: MULTI-WAVEFORM COMMUNICATION SYSTEM

00: -

Provided is a multi-waveform communication system, including: a fusion communication part assembly main-control unit, an ad hoc network processing unit, a shortwave processing unit, an ultrashort wave processing unit, an audio and video processing unit, and a satellite data processing unit ; the ad hoc network processing unit is configured to receive and process an ad hoc network signal; the shortwave processing unit is configured to receive and process a shortwave signal; the ultrashort wave processing unit is configured to receive and process an ultrashort wave signal; the audio and video processing unit is configured to receive and process an audio/video signal; the satellite data processing unit is configured to receive and process a satellite signal; and the fusion communication part assembly main-control unit is configured to fuse the processed ad hoc network signal, shortwave signal, ultrashort wave signal, audio/video signal and satellite signal. The system improves fusion efficiency.

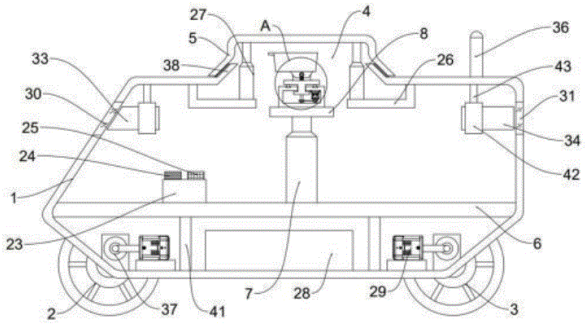


21: 2022/10044. 22: 2022/09/09. 43: 2022/12/07
51: B60R; G01C
71: QINGDAO JIELIDA GEOGRAPHIC INFORMATION GROUP CO., LTD.
72: QU, Weirong, LI, Kesen, ZHANG, Yongsheng
33: CN 31: 202210265697.X 32: 2022-03-17

54: FEEDBACK PRINCIPLE BASED TROLLEY FOR SURVEYING GROUND INFORMATION

00: -

Disclosed is a feedback principle based trolley for surveying ground information. The trolley includes a housing having two front wheels, two rear wheels and a skylight, a rain cover is arranged at a top of the skylight, a mounting plate is arranged inside the housing and provided with a first electric push rod, a transverse plate, a fixing box, a mounting frame, a first electric motor, a fixing shaft, and a driven pulley are further provided, an output end of the first electric motor is connected to a driving pulley, and a belt, vertical plates, a main camera, lug plates, a transverse bar, and a second electric motor are further provided. The present invention has a reasonable design and a compact structure, can survey the ground information in all directions, and moreover, prolongs service life of cameras.

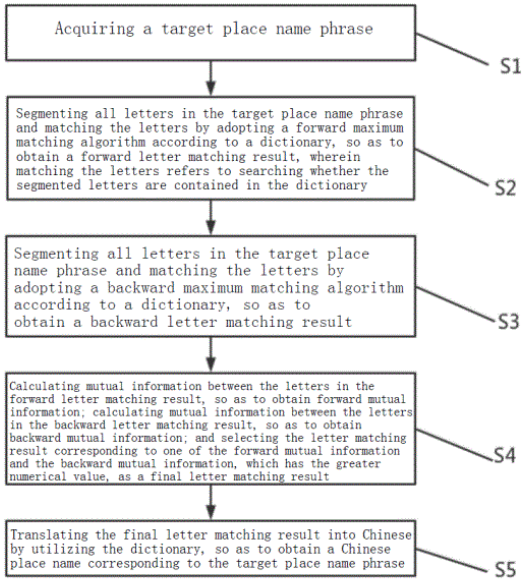


21: 2022/10045. 22: 2022/09/09. 43: 2022/12/01
51: G06F
71: Chinese Academy of Surveying and Mapping
72: MAO, Xi, MA, Weijun, WANG, Jizhou, GAO, Wujun, LU, Wenjuan, CHENG, Yao

54: MACHINE TRANSLATION METHOD AND SYSTEM OF SWAHILI PLACE NAME

00: -

The present invention relates to a machine translation method and system of a Swahili place name, and belongs to the technical field of language translation, comprising: acquiring a target place name phrase; segmenting all letters in the target place name phrase and matching the letters by adopting a forward maximum matching algorithm and a backward maximum matching algorithm respectively according to a dictionary; calculating mutual information between the letters in a forward letter matching result; calculating mutual information between the letters in the backward letter matching result; selecting the letter matching result corresponding to one of the two pieces of mutual information, which has the greater numerical value, as a final letter matching result; and translating the final letter matching result into Chinese by utilizing the dictionary, so as to obtain a Chinese place name corresponding to the target place name phrase.

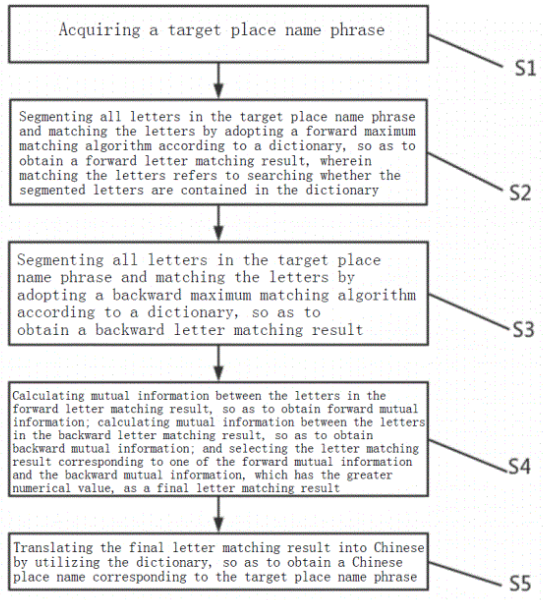


21: 2022/10046. 22: 2022/09/09. 43: 2022/12/01
51: G06F
71: Chinese Academy of Surveying and Mapping
72: GAO, Wujun, MAO, Xi, MA, Weijun, WANG, Jizhou, LU, Wenjuan, CHENG, Yao

54: MACHINE TRANSLATION METHOD AND SYSTEM OF HAUSA PLACE NAME

00: -

The present invention relates to a machine translation method and system of a Hausa place name, comprising: acquiring a target place name phrase; segmenting all letters in the target place name phrase and matching the letters by adopting a forward maximum matching algorithm and a backward maximum matching algorithm respectively according to a dictionary; calculating mutual information between the letters in a forward letter matching result; calculating mutual information between the letters in the backward letter matching result; selecting the letter matching result corresponding to one of the two pieces of mutual information, which has the greater numerical value, as a final letter matching result; and translating the final letter matching result into Chinese by utilizing the dictionary, so as to obtain a Chinese place name corresponding to the target place name phrase.

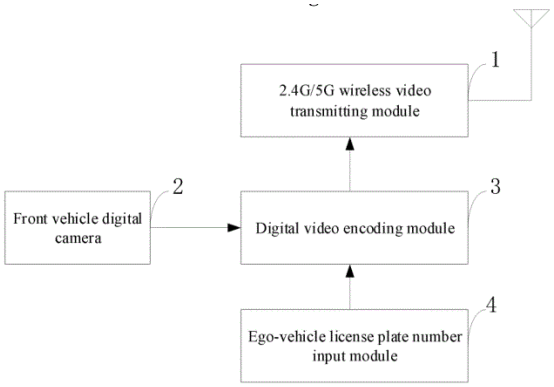


21: 2022/10047. 22: 2022/09/09. 43: 2022/12/01
51: H04W
71: Zhejiang International Maritime College
72: ZHOU, Jianmin
33: CN 31: 202210765579.5 32: 2022-07-01

54: INTELLIGENT ROAD VIDEO SHARING TERMINAL, CONTROL METHOD AND APPLICATION THEREOF

00: -

The invention provides an intelligent road video sharing terminal, a control method and an application thereof. The intelligent road video sharing terminal is provided with a front vehicle terminal and a rear vehicle terminal. After the video sharing terminal is optionally installed on various vehicles, a video captured by a video camera of a front vehicle is transmitted through a specific civil channel after being encoded with a license plate number; after the terminal of a rear vehicle receives a signal, when a camera recognizes a license plate of the front vehicle, the terminal attempts to identify a signal sent by the front vehicle from many shared videos of all vehicles on the road, and only decodes the video of the front vehicle; and after the video of the front vehicle is decoded, the rear vehicle terminal acquires road condition information ahead shot by the front vehicle.



21: 2022/10048. 22: 2022/09/09. 43: 2022/12/01
51: A23K
71: Institute of Plant Protection, Guizhou Academy of Agricultural Sciences
72: CHENG, Ying, ZHOU, Yuhang, LI, Fengliang, JIN, Jianxue, LI, Hongbo, LI, Wenhong

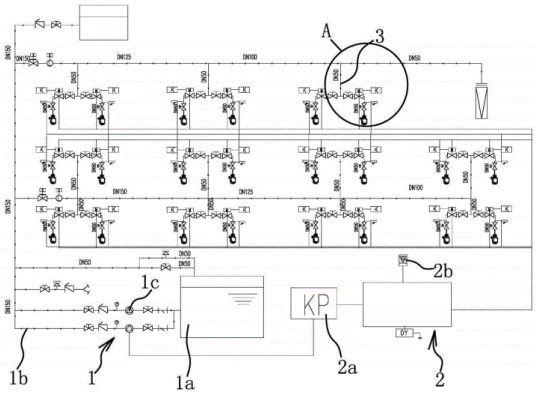
54: MODIFIED ARTIFICIAL FEED FOR COCCINELLA SEPTEMPUNCTATA L

00: -

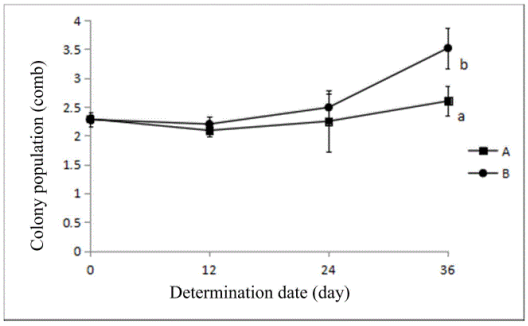
The present disclosure provides a modified feed for C. septempunctata L, belonging to the field of artificial feeding. The feed provided by the present disclosure comprises basal feed and ecdysone. In the present disclosure, 20-hydroxyedysone is used as ecdysone; ecdysone initiates and regulates molting and metamorphosis in the larval stage; and in the adult stage, ecdysone promotes the maturation of the gonad, and the function of the ecdysone is to regulate and control the reproduction.

In the larval stage, the pupation rate and emergence rate are increased, which are 63.64% and 60.71%, respectively; and in the adult stage, the oviposition amount and hatching rate are increased, which are 210.6 eggs and 65.55%, respectively.

21: 2022/10049. 22: 2022/09/09. 43: 2022/12/01
51: A62C
71: Zhejiang Zhonghu Network Technology Co., Ltd.
72: LI, Chunsheng
54: MULTI-FUNCTIONAL INTELLIGENT AUTOMATIC FIRE EXTINGUISHING SYSTEM
00: -
The present disclosure provides a multi-functional intelligent automatic fire extinguishing system, which belongs to the field of fire-fighting articles. The present disclosure comprises a water supply system and a plurality of fire extinguishing devices, the fire extinguishing devices being in communication with the water supply system via an auxiliary water distribution pipe, the fire extinguishing devices comprising a housing, a water inlet pipe arranged in the housing and a spray head arranged outside the housing, an upper end of the water inlet pipe extending out of the housing and being in communication with the auxiliary water distribution pipe via an electromagnetic valve, the housing being fixedly provided with an electric motor and a water guide pipe having a water inlet and a water outlet, a lower end of the water inlet pipe being inserted into the water inlet.

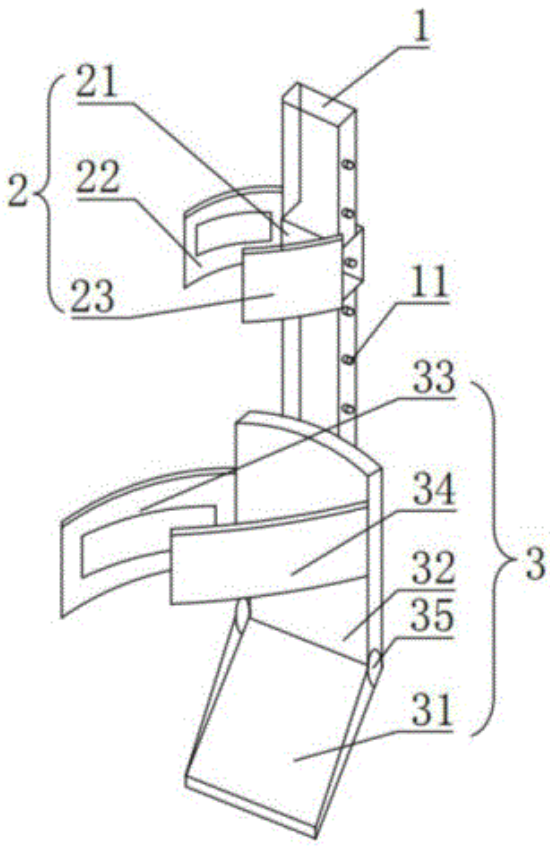


21: 2022/10050. 22: 2022/09/09. 43: 2022/12/01
51: A23K
71: ChongQing Academy of Animal Sciences, TANG, Fengjiao, DENG, Juan
72: GAO, Lijiao, LUO, Wenhua, YANG, Jinlong, LIU, Jialin, CHEN, Heng, JIANG, Yu
54: FEED FORMULATION FOR IMPROVING HONEYBEE IMMUNITY
00: -
The present disclosure provides a feed formulation for improving honeybee immunity, and belongs to the technical field of feeds for insect farming. The formulation includes the following raw materials: 3-5 parts by weight of lactic acid bacteria (LAB), 3-5 parts by weight of bacillus, 5-8 parts by weight of yeast, 25-35 parts by weight of pollen, 28-35 parts by weight of sucrose, 0.5-1.5 parts by weight of vitamins, 1-3 parts by weight of Forsythiae Fructus, 3-6 parts by weight of Isatidis Radix, 1-3 parts by weight of Puerariae Lobatae Radix, and 3-6 parts by weight of hawthorn powder. The feed formulation is scientific, with balanced nutrition and excellent palatability. Composite probiotics with pharmacological activity of traditional Chinese medicine (TCM) in the feed formulation provided by the present disclosure can promote the growth and reproduction of honeybees and improve honeybee immunity.



21: 2022/10051. 22: 2022/09/09. 43: 2022/12/01
51: A61B; A61H
71: Shandong Vocational College of Science and Technology
72: QIN, Jian, WEI, Chunguang, LI, Xiaoming, LIU, Mingyuan, ZHANG, Zhe, ZHOU, Shuqing, YU, Yanjiang
54: PORTABLE POST-HEALING REHABILITATION AID FOR LOWER EXTREMITY FRACTURE
00: -
Provided is a portable post-healing rehabilitation aid for lower extremity fracture, which is suitable for the technical field of medical apparatuses. The rehabilitation aid include a low extremity fixing device that consists of a fixing brace, a heel fixing

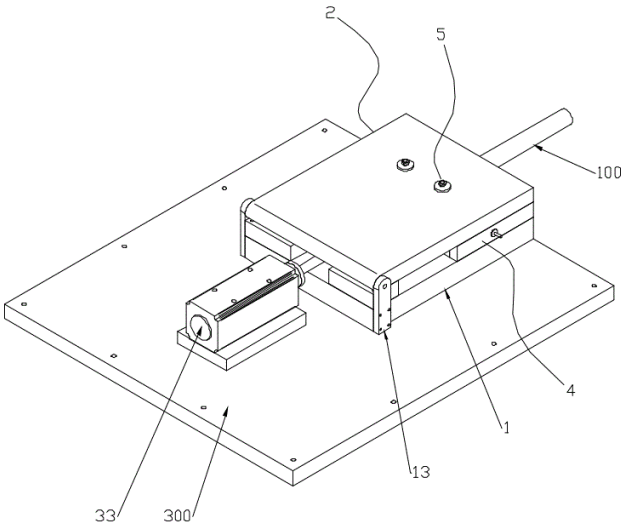
component and a plurality of lower extremity fixing components; a lower extremity pressure collection device includes a pressure-sensing insole and a pressure collection member, and the pressure collection member includes a first microprocessor and is connected with the fixing brace; the transmission module is inserted in the pressure-sensing insole; and a wrist receiving device includes a second microprocessor, an input module, an output display module and a second communication module, and the second microprocessor is connected with the first communication module in a signal manner. Therefore, the present invention may monitor the weight-bearing strength, and patients may adjust respective strengths according to their own conditions, accelerating the rehabilitation process.



21: 2022/10052. 22: 2022/09/09. 43: 2022/12/01
51: H01R
71: Wuhu Bokang Electromechanical Co., Ltd.
72: Fang Liang, Min Luoqi, Xu Bin, Li Guoying
33: CN 31: 202110928780.6 32: 2021-08-13

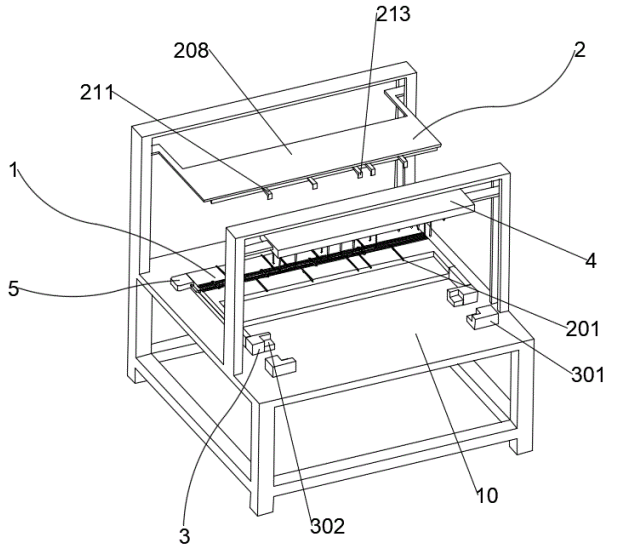
54: A SHAPING DEVICE FOR COPPER WIRE JOINTS OF AUTOMOBILE WIRING HARNESSES

00: -
The invention discloses a shaping device for an automobile wiring harness copper wire joint, which relates to the technical field of automobile wiring harness processing. In the process of turning over to the horizontal position, the stamping assembly is horizontally installed on the base and cooperates with the side mold assembly to realize the pressing of the two wire harness joints at the same time. The positive conductive plate in the stamping assembly can be connected to the The positive conductive component of the positive pole of the power supply is matched, and the negative conductive plate in the side mold component is connected to the negative pole of the power supply. During the pressing process, the welding process of the wire harness joint can be realized by means of the positive conductive plate and the negative conductive plate. Due to the pressing mechanism and the supporting side mold components, it can realize the pressing and square processing of the two-strand copper wire joint at one time, which significantly improves the processing efficiency compared with the traditional single pressing and the wire drawing process before pressing.



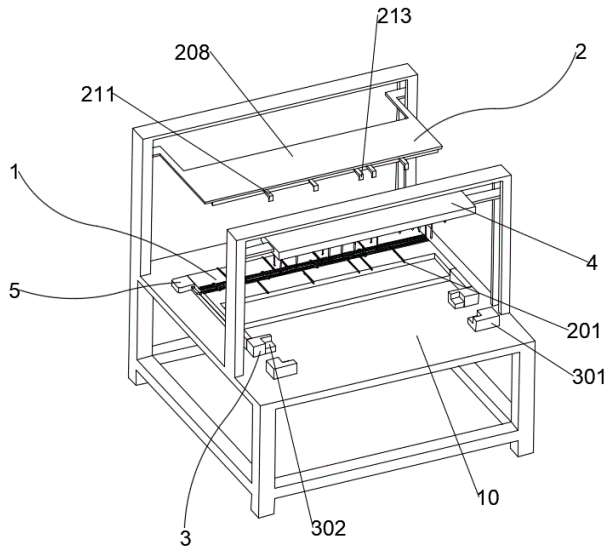
21: 2022/10053. 22: 2022/09/09. 43: 2022/12/01
51: H01R
71: Wuhu Bokang New Energy Vehicle Technology Co., Ltd.
72: Liu Changyong, Li Liang, Fang xiangMing, Lin Jun, Cheng Li

33: CN 31: 202210767901.8 32: 2022-06-30
54: A PROCESSING DEVICE AND A PROCESSING METHOD OF A CCS CELL CONNECTION ASSEMBLY
00: -
The invention discloses a processing device of a CCS electric core connection assembly, comprising a wire management mechanism, a wire hooking mechanism, a positioning mechanism, a welding glue mechanism and an exhaust mechanism. The side surface is provided with a number of parallel wire management grooves, the wire management grooves are arranged perpendicular to the wire management grooves, the positioning guide holes are arranged on the wire management grooves, and the secant knife is arranged on the wall of the wire management grooves; the wire hooking mechanism includes a passive force. The mechanism drives a wire hook rod that hooks out a corresponding wire nested in the wire management groove along the side of the wire arrangement groove; the positioning mechanism includes a limit component and a locking member; the welding glue mechanism includes a positioning guide hole along the positioning guide hole for The stripping section of the wire is welded on the first welding head of an aluminum plate positioned and installed on the corresponding cell board, and the glue dispensing head for dispensing glue on the welding part. Welding the wires and the corresponding aluminum plates, dispensing and curing, the present invention improves the processing efficiency of the electric core connection assembly.



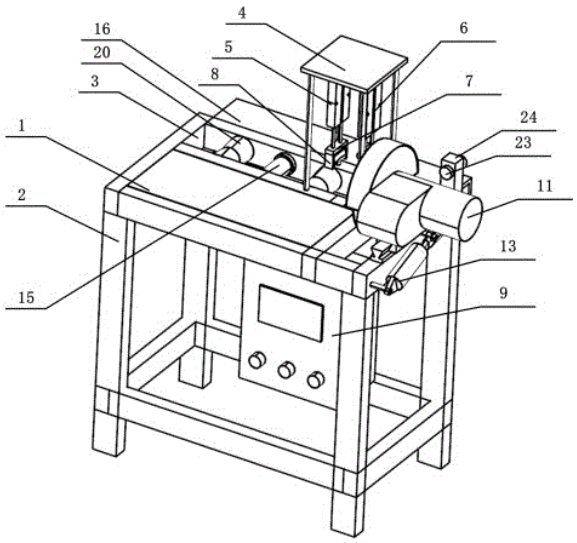
21: 2022/10054. 22: 2022/09/09. 43: 2022/12/07
51: H01R
71: Wuhu Bokang New Energy Vehicle Technology Co., Ltd.
72: Qiu Liangliang, Zhu Lei, Lin Jun, Jiang Wen, Cha Min
33: CN 31: 202210769134.4 32: 2022-06-30
54: A PROCESSING DEVICE FOR A NEW ENERGY BATTERY PACK WIRE HARNESS ASSEMBLY
00: -
The invention discloses a processing device for a new energy battery pack wire harness assembly, comprising a wire management mechanism, a wire hooking mechanism, a positioning mechanism, a welding glue mechanism and an exhaust mechanism. One side surface of the board is provided with a number of parallel wire management grooves, and a wire management groove is arranged perpendicular to the wire management groove. Driven by the power mechanism to hook out a hook rod corresponding to the wire nested in the cable management slot along the side of the cable slot, the end of the cable slot is connected with a pressure plate through the first spring, and the pressure plate passes the force The mechanism is connected with the secant knife; the positioning mechanism includes a limit component and a locking member; the welding mechanism includes a first wire along the positioning guide hole for welding the stripping section of the wire on an aluminum plate positioned and installed on the corresponding cell board. The welding head and the glue dispensing

head for dispensing glue on the welding part, the invention improves the processing efficiency of the battery pack wire harness assembly.



21: 2022/10055. 22: 2022/09/09. 43: 2022/12/01
51: A01H
71: Sorghum Research Institute, Shanxi Agricultural University
72: YANG Bin, ZHOU Fuping, ZHANG Haiyan, YAN Fengxia, ZHAO Weijun, WANG Rui, ZHANG Yizhong
54: METHOD FOR BREEDING SORGHUM VARIETIES THROUGH MUTATION BREEDING
00: -
The invention discloses a method for breeding sorghum varieties through mutation breeding, belonging to the field of mutation breeding. The method comprises the following steps: sorghum seeds are pre-treated until the seeds showing white, soaked in mutagen containing sodium azide and lithium chloride in an oscillating way, then alternately treated at high and low temperatures, the treated seeds are sown in the field, bagged and self-pollinated, plants with mutant traits are selected before harvest, F1 generation seeds are obtained, and continuous sowing and self-pollination are carried out until a new mutant variety with stable heredity is obtained. By combining chemical mutagenesis with alternating treatment of high and low temperature, the invention can obtain more mutation types, effectively promote the germination of seeds, and obtain a variety of mutant plants with stable heredity in a short time.

21: 2022/10056. 22: 2022/09/09. 43: 2022/12/01
51: B23D
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: LI Yang, WU Ningning, WANG Guangzheng, ZHANG Xuefeng, WANG Yongqi, LIANG Liping, YANG Fazhan, WANG Shaozhu
54: PROFILE FIXED-LENGTH CUTTING MACHINE
00: -
The invention discloses a profile fixed-length cutting machine, which comprises a material pressing unit, wherein the bottom surface of the material pressing unit is fixedly connected with a platform, the bottom surface of the platform is fixedly connected with a bracket, one side of the top surface of the platform is provided with an installation groove, and the installation groove and the material pressing unit are correspondingly arranged up and down; the material pressing unit is electrically connected with a controller; a material conveying unit, which comprises a driving component and material feeding rollers, wherein a plurality of material feeding rollers are arranged; two ends of the material feeding rollers are rotationally connected with two opposite side walls of the installation groove; one end of a central rotating shaft of the material feeding roller penetrates through the side walls of the installation groove and is in transmission connection with the driving component; the driving component is fixedly installed on the bottom surface of the platform; the driving component is electrically connected with the controller; the cutting unit is fixedly installed on the top surface of the platform, one end of the top surface of the platform is provided with a cutting groove, the cutting groove is communicated with the installation groove, and the cutting unit and the cutting groove are correspondingly arranged up and down; the cutting unit is electrically connected with the controller. The invention can automatically realize the fixed-length cutting of profiles, and has high efficiency and strong anti-interference ability.



21: 2022/10057. 22: 2022/09/09. 43: 2022/12/01
51: C04B
71: Huzhou Vocational and Technical College (Huzhou Radio and Television University) (Huzhou Community University)
72: YANG Xiaonan, LI Jianhua, XU Xueyong, LI Chao, LANG Jianlei

54: MACHINE-MADE SAND GEOPOLYMER MORTAR AND PREPARATION METHOD THEREOF

00: -

This invention discloses a machine-made sand geopolymer mortar and a preparation method thereof, and relates to the technical field of building mortar. The machine-made sand geopolymer mortar, including the following weight parts of raw materials: 450-480 parts of fly ash, 90-100 parts of slag, 15-20 parts of sodium hydroxide, 100-130 parts of sodium silicate, 600-700 parts of modified machine-made sand, 20-30 parts of polyethersulfone, 10-15 parts of ethyl cellulose, 5-8 parts of carboxymethyl cellulose, and 4-5 parts of water reducing agent. The machine-made sand geopolymer mortar prepared by the invention has a compressive strength of 47.97-48.26 MPa and a flexural strength of 6.82-6.87 MPa, so it has excellent mechanical properties.

21: 2022/10058. 22: 2022/09/09. 43: 2022/12/01
51: A01H
71: Sorghum Research Institute, Shanxi Agricultural University
72: ZHANG Yizhong, LIANG Du, ZHANG Xiaojuan, GUO Qi, FAN Xinqi, WANG Huiyan, LIU Qingshan

54: MUTATION BREEDING METHOD OF DISEASE-RESISTANT SORGHUM

00: -

The invention discloses a mutation breeding method of disease-resistant sorghum, belonging to the technical field of new agricultural variety breeding, comprising the following steps: (1) irradiating sorghum seeds with 60Co-Gamma; (2) sterilizing the irradiated sorghum seeds and treating them with gibberellin; and (3) screening out head smut resistant sorghum mutants. The materials treated by the method are sorghum seeds, and a large number of materials can be treated at one time, so that the breeding cycle is effectively shortened, and head smut resistant sorghum varieties can be quickly and accurately bred. According to the invention, 60Co-Gamma-ray radiation is adopted to mutagenize sorghum seeds, which can create abundant genetic variation and broaden the genetic basis of sorghum, provide a set of simple and efficient methods for breeding new sorghum varieties and broaden the genetic basis of sorghum germplasm resources.

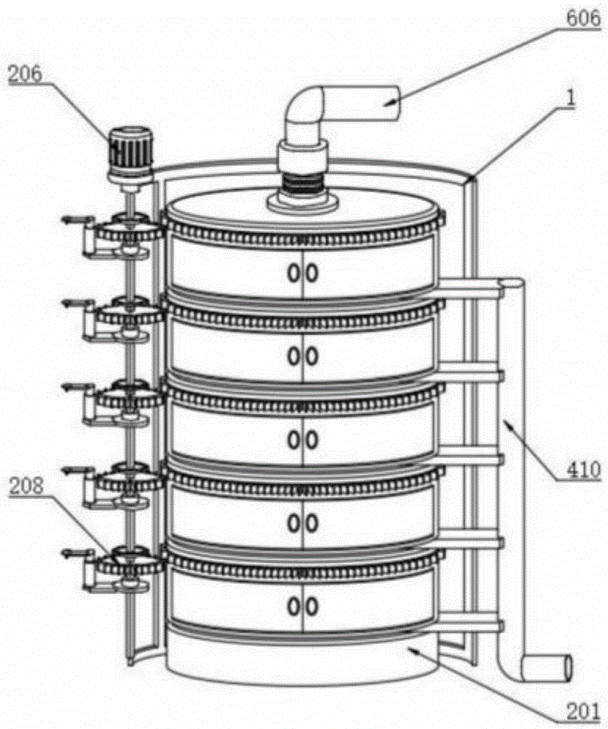
21: 2022/10059. 22: 2022/09/09. 43: 2022/12/01
51: F26B
71: Jiangxi Agricultural University
72: XIAO Zhifeng, HE Wenxiang, XU Huilong, HU Jie, LI Tao, CAI Yujun, LI Xiayang, CHEN Liang, WANG Jianhong, SU Jiahai

54: SUPERHEATED STEAM DRYING DEVICE BASED ON NEW ENERGY

00: -

The invention discloses a superheated steam drying device based on new energy, an adjusting drive assembly is installed in a mounting frame, a vent pipe is installed at the top of a base, a gear ring is sleeved at the top of a drying box, a gear is uniformly and movably sleeved at the middle of a square rod, a vent assembly is installed inside the drying box, the bottom end of an exhaust tank is connected with an exhaust branch pipe at the outside of the drying box, a bearing assembly is installed at the top of an air supply box inside the drying box, and a retaining edge is installed at the top edge and the bayonet of a bearing tray. The top of the vent pipe is provided with the air supply connecting assembly. According to the invention, the required number of drying boxes can be selected by setting the adjusting drive assembly, so as to prevent the waste caused by excessive drying

space; moreover, the vent assembly and the bearing assembly cooperate with the adjusting drive assembly to ensure the uniformity of steam, as well as the convenience of taking materials and drying efficiency when holding things to be dried; and the air supply connecting assembly is an auxiliary assembly for later maintenance and cleaning, which is convenient to disassemble for maintenance and cleaning.

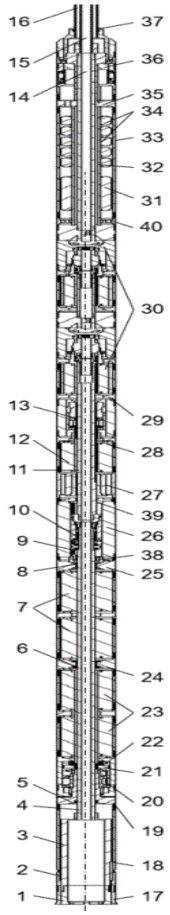


21: 2022/10061. 22: 2022/09/09. 43: 2022/12/01
51: E21B
71: Jilin university
72: Gao ke, Wen yumin, Zhao yan, Xie xiaobo, Piao jianyu, Qiu song, Peng yuzheng, Jin tianyu, Wang longbin

54: SELF-BALANCING ROCK-CRUSHING DRILLING SYSTEM COUPLING ROTATION AND VIBRATION WITHOUT DRILL RIG

00: -

The present invention is to propose a self-balancing rock-crushing drilling system coupling rotation and vibration without drill rig including the drive system of internal drill bit, the drive system of external drill bit and the WOB (weight on bit) distribution system, etc. The present invention solves the control problem of self-balancing torque through driving the internal and external bits by two groups of motors respectively to realize self-balancing unidirectional rotation and self-balancing opposite rotation of internal and external bits and improves the drilling efficiency of the drilling system by vibration assisted dual bit in the process of crushing rock. The output torque of the motor is amplified by the reducer to decrease the risk of sticking the reverse reaming group. The low transmission efficiency of strong and weak current is solved by canceling the conductive slip ring. Moreover, it has the following advantages: high drilling efficiency in a way of coupling vibration and rotation; Easy control of self-balancing torque when the internal and external bits are rotating at the same time; Large rotary torque of the reverse reaming group makes it hard to be stuck; High and stable transmission efficiency of strong and weak electricity in the drilling system.

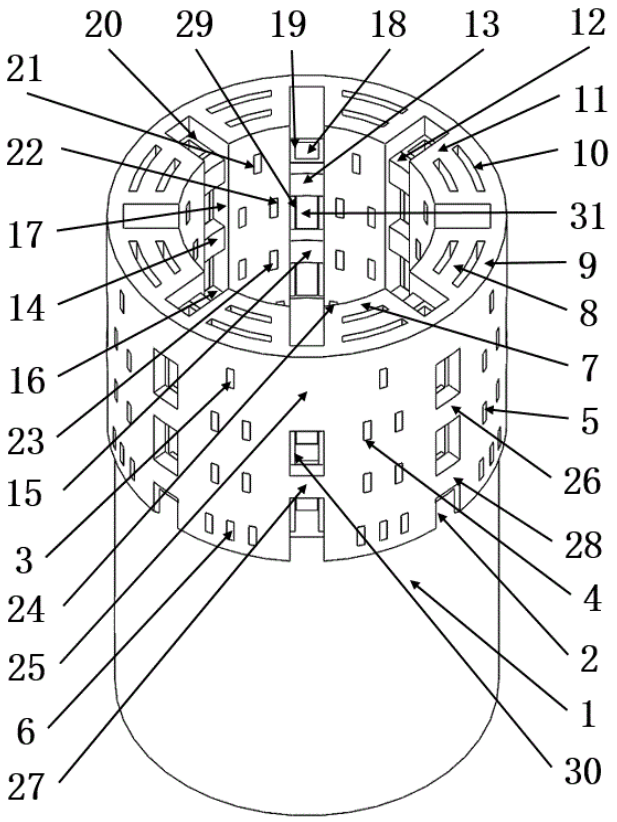


21: 2022/10062. 22: 2022/09/09. 43: 2022/12/01
51: E21B
71: Jilin university
72: Gao ke, Wang jinlong, Zhao yan, Xie xiaobo, Zhang zongzheng

54: SUPER HIGH WORKING LAYER GRADUALLY EXPOSED NOZZLE IMPREGNATED DIAMOND DRILL BIT AND PREPARATION METHOD

00: -

A super high working layer gradually exposed nozzle impregnated diamond drill bit and a preparation method. A plurality of the first mud-blocking structures and a plurality of the second mud-blocking structures are vertically and alternately distributed in the nozzle of the working part of the drill bit; The first mud-blocking structure and the second mud-blocking structure are respectively provided with a through U-shaped groove and a rectangular hole on the inner diameter side of the drill bit and the outer diameter side of the drill bit, and a water blocking sheet is arranged in the through U-shaped groove; The outer water channel and the inner water channel of the working part of the drill bit are communicated with the middle flow channel, and the drilling fluid can pass through smoothly whether it is a positive circulation or a reverse circulation; When the first layer of reinforcement between inner teeth or the second layer of reinforcement between inner teeth is just completely worn out, the U-shaped opening on the second mud-blocking structure or the first mud-blocking structure that penetrates through the U-shaped groove. The only connection points are worn out, the water blocking sheet automatically falls off, and is pushed out radially outwards along the drill bit under pump pressure to generate a new nozzle.



21: 2022/10066. 22: 2022/09/09. 43: 2022/11/24

51: A61B

71: Kalinga Institute of Industrial Technology (KIIT), Prof. Sasmita Rani Samanta, Dr. Pradeep Kumar Mallick, Prof. Arun Kumar Ray

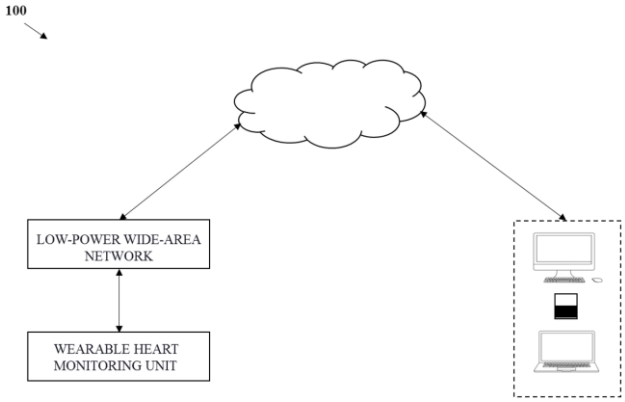
72: Prof. Sasmita Rani Samanta, Dr. Pradeep Kumar Mallick, Prof. Arun Kumar Ray

54: A SMART HRV MONITORING SYSTEM FOR RURAL AREAS USING CLOUD COMPUTING APPROACHES IN IOT

00: -

The present invention relates to a smart HRV monitoring system (100) for rural areas using cloud computing approaches in IoT. The system (100) comprises a wearable heart monitoring unit, a low-power wide-area network, a LoRa network server, an IoT cloud server, and a display unit. The wearable heart monitoring unit is configured to monitor a patient's health condition and heart status. The wearable heart monitoring unit comprises wearable sensor nodes and a electrocardiogram unit. The electrocardiogram unit is configured to detect the status of the heart by using electrical waves. The low-power wide-area network comprises a LoRa network server. The LoRa network server is configured to collect and transmit the detected

information data to a gateway. The IoT cloud server is configured to design and implemented for data storage and further functionalities. The display unit is configured to monitor a patient in a real-time fashion.

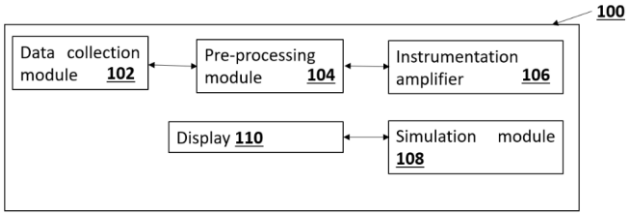


21: 2022/10067. 22: 2022/09/09. 43: 2022/11/24
51: G06T
71: Dr. Harikumar Rajaguru, Dr. Ganeshbabu Chidhambaram, Mrs. Kalaiyarasi Mani, Dr. Sannasichakravarthy Ramaraj
72: Dr. Harikumar Rajaguru, Dr. Ganeshbabu Chidhambaram, Mrs. Kalaiyarasi Mani, Dr. Sannasichakravarthy Ramaraj

54: A SYSTEM FOR ELECTROGASTROGRAM IN DETECTION OF GASTRIC DISORDERS AND A METHOD THEREOF

00: -

A system (100) and a method (200) for electrogastrogram (EGG) in detection of gastric disorders, comprises of: a data collection module (102) for capturing electrogastrogram (EGG) patterns using a plurality of electrodes, wherein the EGG pattern has a specific cycle and frequency; a pre-processing module (104) connected to the data collection module (102) for receiving raw EGG patterns and reduce amount of strain by minimizing impact of body movement by adaptive fuzzy median filter with non-inverting amplifier; an instrumentation amplifier (106) connected to the pre-processing module (104) for receiving the preprocessed signal to magnify voltage measured by the data collection module; and a simulation module (108) associated with the instrumentation amplifier (106) for measuring gastric disorder values based on the magnified voltage.

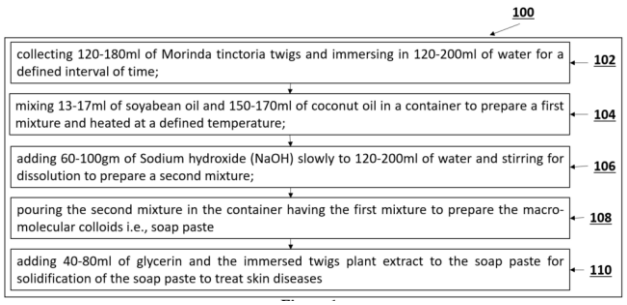


21: 2022/10068. 22: 2022/09/09. 43: 2022/11/24
51: A61K
71: PUGAZHENTHAN THANGARAJU, SAJITHA VENKATESAN, ESWARAN THANGARAJU, TAMILSELVAN THANGARAJU
72: PUGAZHENTHAN THANGARAJU, SAJITHA VENKATESAN, ESWARAN THANGARAJU, TAMILSELVAN THANGARAJU

54: A FORMULATION FOR PREPARING MACRO-MOLECULAR COLLOIDS TO TREAT SKIN DISEASES AND A METHOD THEREOF

00: -

A formulation and a method (100) for preparing macro-molecular colloids to treat skin diseases, comprises of: collecting 120-180ml of Morinda tinctoria twigs and immersing in 120-200ml of water for a defined interval of time; mixing 13-17ml of soyabean oil and 150-170ml of coconut oil in a container to prepare a first mixture and heated at a defined temperature; adding 60-100gm of Sodium hydroxide (NaOH) slowly to 120-200ml of water and stirring for dissolution to prepare a second mixture; pouring the second mixture in the container having the first mixture to prepare the macro-molecular colloids i.e., soap paste; and adding 40-80ml of glycerin and the immersed twigs plant extract to the soap paste for solidification of the soap paste to treat skin diseases.



21: 2022/10132. 22: 2022/09/13. 43: 2022/11/21
51: C12N
71: Yangzhou University
72: WANG, Ying, ZHANG, Chi, GUO, Zhenyu, YANG, Haiming

54: SEPARATION AND CULTURING METHOD FOR SMALL YELLOW FOLLICLE GRANULE CELLS OF MEAT PIGEONS

00: -

The present invention relates to a separation and culturing method for small yellow follicle granule cells of meat pigeons, including the following steps: selecting meat pigeons, killing the meat pigeons by bleeding necks, wiping and disinfecting abdomens with 75% alcohol, taking out ovaries, and collecting follicles with a diameter of 4-6 mm; stripping outer-layer blood vessels and connective tissues; fixing and ripping the follicles, separating granule cell layers, and washing yolks; digesting granule cells with type II collagenase, washing the granule cells with an M199 medium, centrifuging the granule cells, and discarding supernatant; adding a medium containing fetal bovine serum, resuspending the granule cells, and determining a cell density; inoculating the granule cells into a cell culture dish, placing the cell culture dish in an incubator, and culturing the granule cells. The granule cells obtained are high in purity, normal in cell morphology and good in activity.

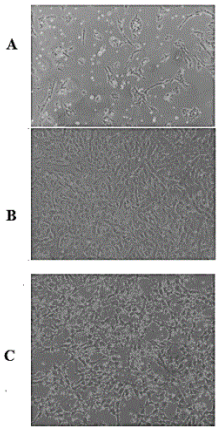


FIG. 1

21: 2022/10133. 22: 2022/09/13. 43: 2022/11/21

51: G01N

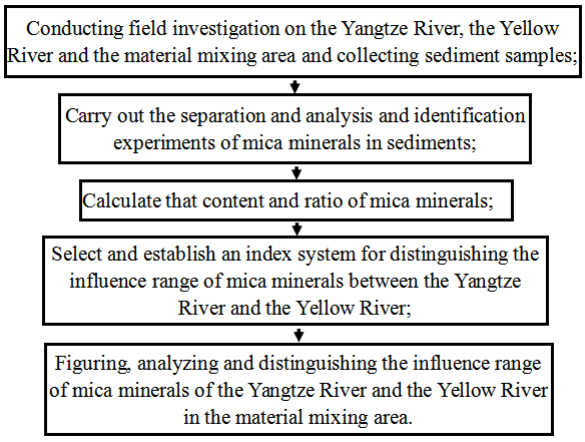
71: JIAYING UNIVERSITY

72: ZHANG Lina, DONG Zhicheng, JIN Bingfu

54: METHOD FOR DISTINGUISHING INFLUENCE RANGE OF MICA MINERALS IN YANGTZE RIVER AND YELLOW RIVER

00: -

The invention discloses a method for distinguishing influence range of mica minerals in the Yangtze River and the Yellow River, which is characterized by comprising the following steps: step 1, conducting field investigation and collecting sediment samples; step 2, carry out the experiment of separation, analysis and identification of mica minerals in sediments; step 3, calculate that content and ratio of mica minerals; step 4, screening and establishing an index system which can be used to distinguish the influence range of mica minerals in the Yangtze River and the Yellow River; step 5, figuring, analyzing and distinguishing the influence range of mica minerals of the Yangtze River and the Yellow River in the material mixing area; the method can not only provide new technologies and methods for the identification of end-member substances in different provenance areas, but also provide new ideas and new references for the identification of provenance in the coastal zone and shelf area of eastern China, and especially open up a new perspective for the study of source-sink effects of marginal sea sediments.



21: 2022/10134. 22: 2022/09/13. 43: 2022/11/21

51: G01N

71: JIAYING UNIVERSITY

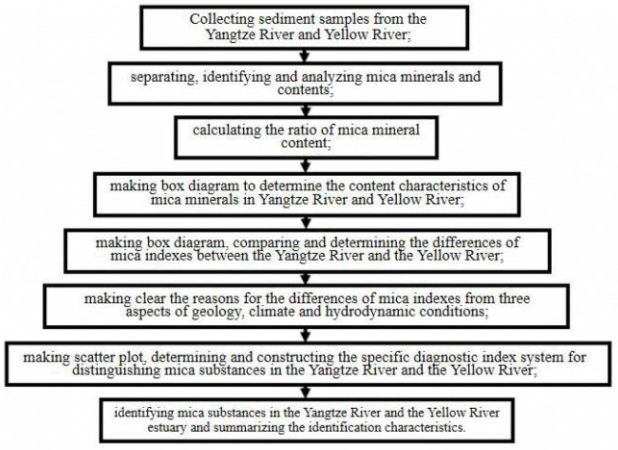
72: DONG Zhicheng, ZHANG Lina, JIN Bingfu

54: METHOD FOR DISTINGUISHING MICA SUBSTANCES IN YANGTZE RIVER AND YELLOW RIVER

00: -

This invention discloses a method for distinguishing mica substances in the Yangtze River and the Yellow River, characterized by including: investigating and collecting sediment samples from the Yangtze River and Yellow River in the field; separating, identifying and analyzing mica minerals and contents in each sediment sample; calculating

the ratio of mica mineral content; making diagram to analyze the content characteristics of mica minerals in Yangtze River and Yellow River; making diagram and comparing the differences of mica indexes between the Yangtze River and the Yellow River; analyzing the reasons for the differences of mica indexes; making scatter plot, determining and constructing the specific diagnostic index system for distinguishing mica substances in the Yangtze River and the Yellow River; and identifying mica substances in the Yangtze River and the Yellow River and summarizing the identification characteristics. The present invention not only provides new technologies and new methods for effectively distinguishing mica substances in the sediments of the Yangtze River and the Yellow River, but also provides new ideas and references for the identification of end element substances in different provenance areas, especially opens up a new perspective for the study of source sink effects of sediments in the eastern coastal zone and continental shelf sea area of China.



21: 2022/10135. 22: 2022/09/13. 43: 2022/11/21
51: A23F
71: HuangShan University, Huangshan Xin' an yuandongcha research institute co., ltd
72: YAO Ting, GAN Zhuoting, FANG Guoqiang, HUANG Yisheng, ZHANG Na

54: BLACK TEA AND PREPARATION METHOD THEREOF

00: -

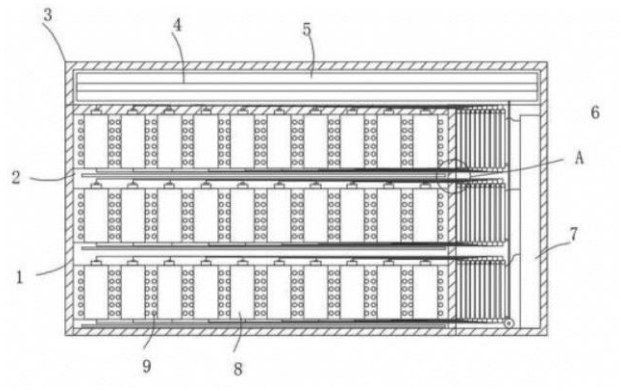
The invention relates to the technical field of tea preparation, in particular to a black tea and a preparation method thereof. The black tea comprises the following raw materials in parts by mass: 2-3 parts of licorice, 2-4 parts of tamarind gum, 1-3 parts of Rosa roxburghii leaves, 2-4 parts of sodium citrate, 2-5 parts of mulberry bark, 1-3 parts of ginkgo leaves, 4-6 parts of ginseng leaves, 4-6 parts of lophatherum gracile, 3-7 parts of Gynostemma pentaphyllum, 3-9 parts of anti-fatigue extract and 3-9 parts of anti-aging additive, wherein the anti-fatigue extract is prepared by mixing Schisandra chinensis, Dendrobium and raspberry polysaccharide as raw materials, and the anti-aging additive is prepared by mixing vitamin E and balsam pear extract as raw materials. The invention can not only improve the fatigue feeling of users, but also effectively improve the anti-aging ability of the tea for users.

21: 2022/10136. 22: 2022/09/13. 43: 2022/11/21
51: H01M; G06Q
71: ANQING NORMAL UNIVERISITY, Xiaoxian Xinhuiyuan Battery Co., Ltd., Anqing Branch of China Telecom Co., LTD
72: JIANG Jiansheng, WANG Yibin, WANG Yijun, GAO Guangbin, ZHU Yanping

54: CONTROL DEVICE FOR REMOTELY ACCESSING AND MANAGING BATTERY

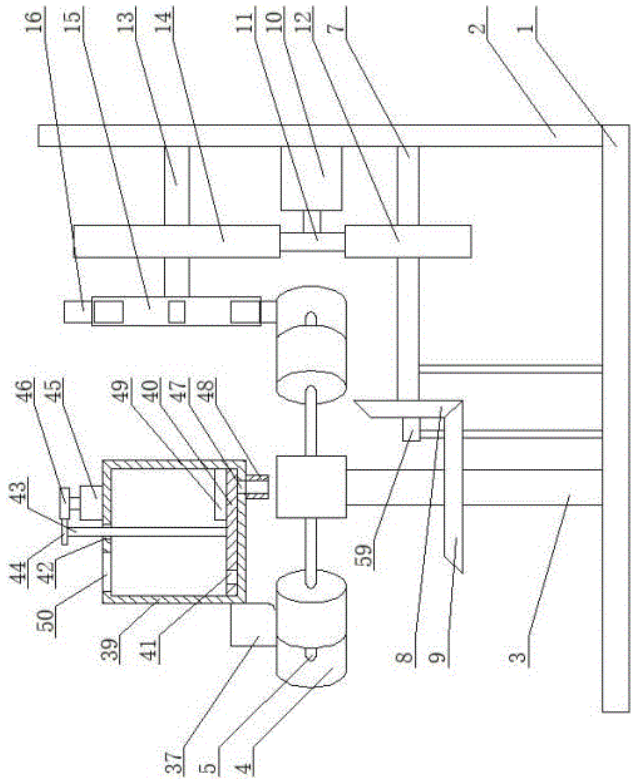
00: -

The invention discloses a control device for remotely accessing and managing batteries, which relates to the technical field of battery auxiliary control. Aiming at the existing problems with certain potential safety hazards, the following scheme is proposed, which comprises a battery box, the back of which is fixedly connected with a plurality of safety plates; the control box is slidably sleeved outside the battery box, and one side of the control box is provided with an installation door; a plurality of battery bodies, which are clamped on the safety plate, and two stages of the battery bodies are connected with cables; a plurality of control mechanisms are fixedly connected in the control box, and each control mechanism is electrically connected with two cables on the corresponding battery body, and the two cables are communicated through wires; the invention has simple structure and convenient use, and can realize on-off and safe operation of circuit, on-off of machinery, improve overall safety and stability, and make-off by itself, thus further ensuring the safety of overall control, reducing possible mistakes and realizing safe use.



21: 2022/10137. 22: 2022/09/13. 43: 2022/11/21
51: A23N
71: Tarim University
72: FAN Xiuwen, ZHANG Yongcheng, LI Guowei, ZHANG Hong, ZHANG Rui, LIU Shifan
54: SHELL-KERNEL SEPARATING DEVICE FOR AUTOMATIC WALNUT PROCESSING
00: -

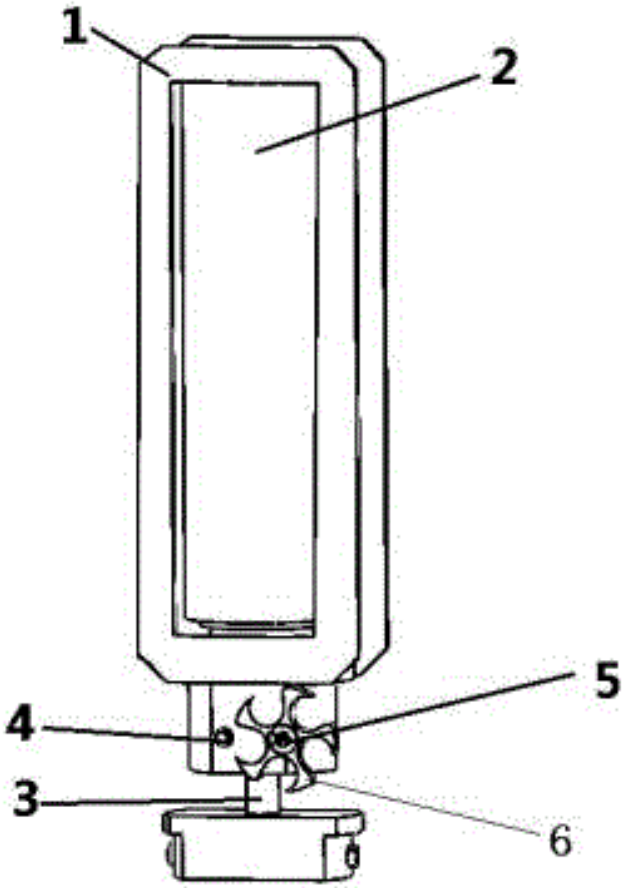
A shell-kernel separating device for automatic walnut processing comprises a base, a vertical plate is fixedly mounted on the base, a vertical first rotating shaft is rotatably mounted on the top surface of the base; a cylindrical box is arranged on the top of the first rotating shaft; the inner side of the arc rod is fixedly connected with the top side of the first rotating shaft through a connecting rod; the left side of the vertical plate is rotatably connected with the second rotating shaft in the left and right directions; the left end of the second rotating shaft is sleeved with a first bevel gear; the side of the first rotating shaft is sleeved with a second bevel gear; the first bevel gear and the second bevel gear are meshed with each other; the left side of the vertical plate is fixedly provided with a first motor; the output shaft of the first motor is sleeved with a first gear; and the second rotating shaft is sleeved with a second gear. The invention has a high degree of automation and high production efficiency. Walnuts of different sizes can be crushed by the movement of the transverse plate and the first baffle, so that the classification process is reduced, and the work efficiency is greatly improved. In addition, the extrusion rod is in a rolling state relative to the walnuts, so that the crushing effect on the walnuts is better, and it is easier to separate the shells and kernels.



21: 2022/10138. 22: 2022/09/13. 43: 2022/11/21
51: E21B
71: Northwest Institute of Eco-Environment and Resources, CAS
72: GUO Zhilong, SHANGGUAN Donghui, QI Lulu
54: WING PLATE TYPE ANTI-REVERSE STRUCTURE WITH SIDE CUTTER GROOVE
00: -

A wing plate type anti-reverse structure with side cutter groove comprises an anti-twist wing plate, a frequency conversion motor, a main transmission shaft, a driven transmission shaft I, a driven transmission shaft II, four side cutters and a reducer, wherein the anti-twist wing plate is fixed on a frequency conversion motor bracket; the frequency conversion motor is respectively connected with the main transmission shaft, the driven transmission shaft I and the driven transmission shaft II; the four side cutters are divided into two groups and are respectively arranged at the outer ends of the driven transmission shaft I and the driven transmission shaft II. According to the invention, two sides of a drilling tool are additionally provided with an anti-twist wing plate and four side cutters, the anti-twist wing plate is fixed on a drilling tool frame, the side cutters groove on the borehole wall by rotating, and the anti-twist wing plate subsequently occupies the

groove space; when the main transmission shaft drives the self-arching drill bit to rotate, the generated reverse force is transmitted to the anti-twist wing plate, which releases the reverse force to the borehole wall, thus preventing the drilling tool from reversing, effectively solving the problem of self-arching drill bit reversing and cable breaking caused by the reverse rotation of the drilling tool.

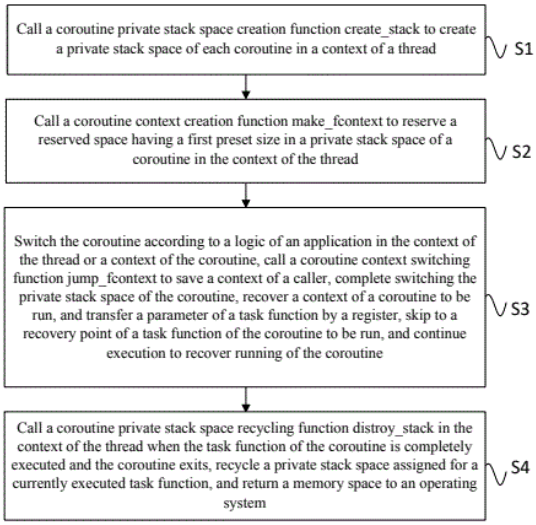


21: 2022/10142. 22: 2022/09/13. 43: 2022/11/21
51: G06F
71: Guangdong Open University(Guangdong Polytechnic Institute)
72: CAI, Bin, QIU, Bingcheng, YAO, Jian, LI, Meiman, XIAO, Xiaohong, XIE, Jiangang, YU, Qiang, LI, Ke, CHEN, Yazhi, CHENG, Yongchang

54: METHOD FOR IMPLEMENTING USER-MODE THREAD

00: -

Disclosed is a method for implementing a user-mode thread. The method includes: calling a user-mode thread private stack space creation function to create a private space of each user-mode thread in a context of a kernel thread; calling a user-mode thread context creation function to reserve a reserved space; switching a user-mode thread, transferring a parameter of a task function by a register, skipping to a recovery point of a task function of a user-mode thread to be run, and continuing execution to recover running of the user-mode thread; and calling a user-mode thread private stack space recycling function when the task function of the user-mode thread is completely executed and the user-mode thread exits. The present invention can efficiently call two bottom application programming interface (API) functions of the user-mode thread under an Alpha processor framework, and can effectively improve running capability of the user-mode thread.



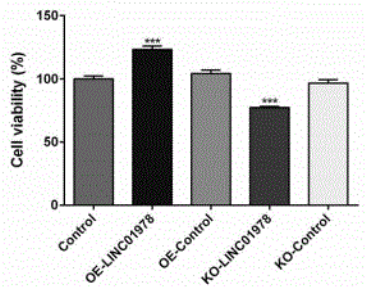
21: 2022/10143. 22: 2022/09/13. 43: 2022/11/21
51: A61K; A61P
71: Yancheng Teachers University
72: ZHAO, Yining, GAO, Xueren
33: CN 31: 202210941154.5 32: 2022-08-08

54: USE OF LINC01978 INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING COLORECTAL CANCER

00: -

The present disclosure provides use of a LINC01978 inhibitor in preparation of a medicament for treating colorectal cancer, and belongs to the technical field of biomedicine. Experimental results show that: LINC01978 knockdown can inhibit the proliferation, migration and invasion of colorectal cancer cells and promote apoptosis, while overexpression of LINC01978 can promote the proliferation, migration

and invasion of colorectal cancer cells and reduce apoptosis. Visibly, the LINC01978 inhibitor plays a role in inhibiting the pathogenesis and development of the colorectal cancer and has a potential therapeutic effect; the LINC01978 inhibitor can be used in the preparation of a medicament for treating colorectal cancer. The present disclosure first proposes and verifies use of the LINC01978 as a new target of gene therapy for colorectal cancer, which is of importance for screening new drugs for colorectal cancer and provides a new idea for the treatment of colorectal cancer.

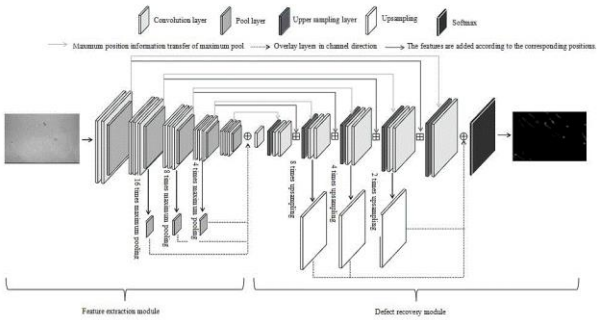


21: 2022/10144. 22: 2022/09/13. 43: 2022/11/21
51: G06N
71: Quanzhou Institute of Equipment Manufacturing
72: HAN Jun, HUANG Huiling

54: IMPROVED LEATHER DEFECT SEGMENTATION NETWORK ALGORITHM BASED ON SEGNET

00: -

The invention relates to the technical field of image data processing. According to the SegNet network, it is improved to adapt to raw leather with random texture and abundant defects. Based on the SegNet network, a feature fusion multi-decoding leather defect segmentation network is proposed. By fusing the features of different scales of leather defect images, the complete information of defects is obtained, and then decoded for many times, and finally the defect parts are segmented. After a lot of training, an improved leather defect segmentation network algorithm based on SegNet with ideal effect is obtained, which includes a feature extraction fusion module for processing leather images. The feature extraction and fusion module adds the fusion of shallow features and deep features on the basis of SegNet coding network, and retains richer details and more detailed context information in leather images; the defect recovery module expands the upsampling process of SegNet decoding network into four upsampling paths, and finally fuses them and expands them for pixel-level classification.

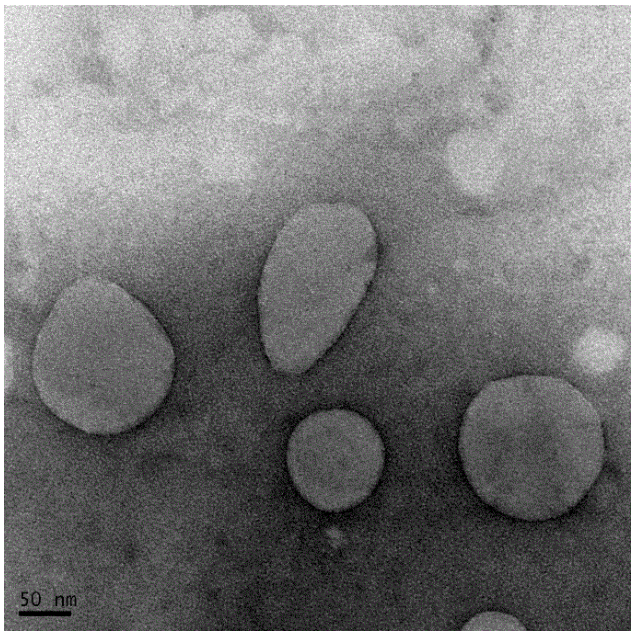


21: 2022/10145. 22: 2022/09/13. 43: 2022/11/21
51: A61K
71: The Affiliated Wuxi Maternity and Child Health Care Hospital of Nanjing Medical University
72: YANG Rui, MING Lan, CHEN Daozhen, LI Su, SU Chen, CHEN Yu, LU Mudan

54: PHOTOSENSITIVE NANOMATERIAL, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention provides a photosensitive nanomaterial, its preparation method and application. The photosensitive nanomaterial comprises photosensitizers, nanomicelles, hyaluronidases and PEG hydrophilic layer; the nanomicelles encapsulate the photosensitizers and are formed by pH-responsive amphiphilic polymer; the hyaluronidases are bonded on the surface of the nanomicelles, and PEG hydrophilic layer covers the surface of the nanomicelles and hyaluronidases, and is formed by hydrophilic polymer. The invention adopts nanoprecipitation method to prepare nanomicelles loading photosensitizers, and at the same time uses hyaluronidases and hydrophilic polymer to modify it. The photosensitive nanomaterial provided by the invention has good stability, high encapsulation efficiency and good water dispersibility, effectively solving the problem of low interstitial diffusion of nanodrugs in tumor tissues, and improving the curative effect and biological safety of PDT.



21: 2022/10146. 22: 2022/09/13. 43: 2022/11/21
51: A01K
71: GUIZHOU MEDICAL UNIVERSITY
72: ZHANG Hongling, HUANG Jiang, JIN Xiaoye, WANG Qiyan, REN Zheng, JI Jingyan, YANG Meiqing

54: WHOLE-STAINING AND CLEARING METHOD FOR FLYBLOW

00: -

Disclosed is a whole-staining and clearing method for flyblow, including: placing flyblows of different development stages in 2 percent potassium hydroxide solution at 100 degree Celsius for 10 seconds, then fully washing the flyblows, soaking the flyblows in absolute ethanol for 10 minutes, then staining the flyblows with hematoxylin staining solution of mass concentration of 20 milligrams per liter for 1 hour, then fully washing and decoloring the stained flyblows, followed by soaking treatment with ethanol aqueous solution, absolute ethanol, a mixture of methyl salicylate and absolute ethanol at a volume ratio of 1:1, and methyl salicylate in turn; then observing the flyblows with a SX-7 Olympus stereomicroscope and photographing the flyblows with a DP-26 imaging system. According to the present application, by adopting a transparent method of methyl salicylate to staining the flyblows of different development stages, whole egg embryos can be visually and clearly observed in terms of development status on a premise of ensuring the integrity of flyblows, and the gradual formation of the arthropod mouthparts, posterior spiracle and arthromeres can be observed as well.

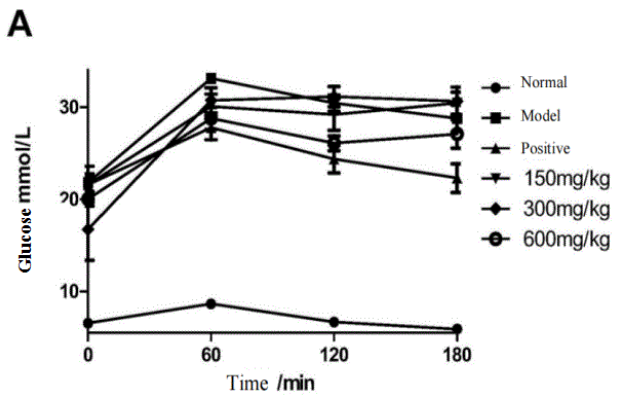


21: 2022/10147. 22: 2022/09/13. 43: 2022/11/21
51: A23L
71: Hangzhou Qiandao Lake Xingbao mushroom industry professional cooperative, Hangzhou Qiandao Xiugu Biotechnology Co.,Ltd.
72: Fugen WANG, Aizhen HE, Zuofa ZHANG, Shizhu LIU, Wei ZHANG, Peng WANG, Kaicheng YANG

54: SOLID BEVERAGE OF SPARASSIS CRISPA

00: -

The application discloses a solid beverage of Sparassis Crispa, consists of the following components and contents in parts by weight: 40-60 parts of Sparassis Crispa powder, 5-8 parts of Phellinus linteus powder and 5-10 parts of Hericium erinaceus powder; 20-30 parts of Tremella aurantialba powder, 3-5 parts of Cyclocarya paliurus leaf fine powder, 10-15 parts of Chinese yam powder and 0-16 parts of sweetening agent. The solid beverage of Sparassis Crispa has the effects of lowering blood sugar and cholesterol.

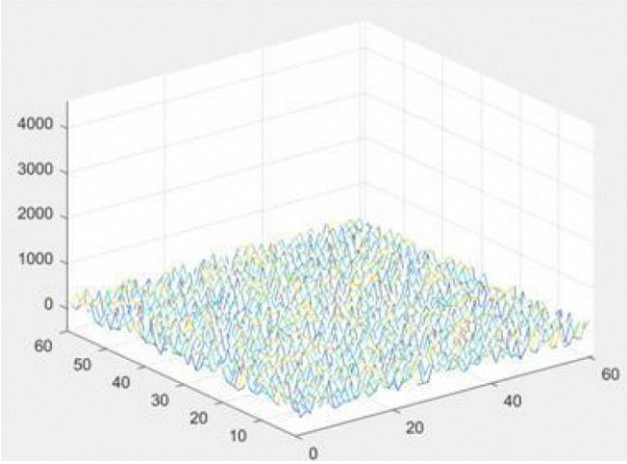


21: 2022/10149. 22: 2022/09/13. 43: 2022/11/21
51: G05D
71: Zhengzhou University of Aeronautics
72: Wang XiuHong, Han XinYu, Guo LeiLei, Fang Huan

54: A FLIGHT PATH PLANNING METHOD FOR MULTI-UAV COOPERATIVE WORK BASED ON IMPROVED ANT COLONY ALGORITHM IN MULTI-CONSTRAINED COMPLEX ENVIRONMENT

00: -

The invention relates to a flight path planning method for multi-UAV cooperative work based on improved ant colony algorithm in multi-constrained complex environment, which effectively solves the problems that the existing ant colony algorithm is prone to long iteration time, slow convergence speed or early falling into a local optimal solution or even algorithm stagnation, as well as the correlation and importance of factors in an objective function. The technical solution includes: on the basis of traditional ant colony algorithm, using the wolf pack distribution principle and roulette mechanism for reference, setting random pheromone concentration volatilization mechanism, random pheromone concentration importance parameter and heuristic factor importance parameter to reduce the number of trial and error in the optimization process, thus improving the performance of ant colony algorithm, reducing the operation time and avoiding falling into local optimal solution. Setting the correlation factor in the objective function solves the problem of correlation and importance among the costs, and finally realizes the real-time re-planning of the UAV under the dynamic environment for sudden threats, and improves the intelligence degree of the UAV.



21: 2022/10151. 22: 2022/09/13. 43: 2022/11/21
51: A61K
71: Fanyan Meng, Tao Gu
72: Fanyan Meng, Tao Gu

54: A TRADITIONAL CHINESE MEDICINE PREPARATION FOR THE TREATMENT OF "POSTPARTUM COLD"

00: -

A traditional Chinese medicine preparation for the treatment of "postpartum cold", the formula ratio is as follows: 20-40g of the root of kudzu vine, 10-20g of wormwood, 10-20g of sunflower flower disc, 10-20g of plantain, 10-20g of toona bark, 3-10g of cocklebur fruit, 3-10g of garlic stem, 3-10g of ginger, 3-10g of fresh fistular onion stalk, and 3-10g of fresh coriander, 3-10g carbon tobacco petiole. According to the quality ratio, chopping the raw materials into casserole in addition to the carbon tobacco petiole, add it into 800-1000ml water, fry and boil it for 30 minutes; Light the dry tobacco petiole, after the open fire extinguished, use a bowl or pot cover to suffocate it out to get charcoal smoke petiole. Put it into the above cooking liquid according to the quality ratio, and cook for 3-5 minutes, and remove the residue of the liquid medicine. The invention has the functions of carminative, strengthening body, dispersing sweat and cold, reducing inflammation and detoxification, promoting blood circulation, relieving pain, strengthening the spleen and stomach, promoting digestion, removing Yin turbidity, invigorating kidney and strengthening yang and consolidating essence. The formulations are all selected from easily obtained authentic medicinal materials, which are easy to prepare and low cost of medication. They have been passed down orally from generation to generation through a hundred

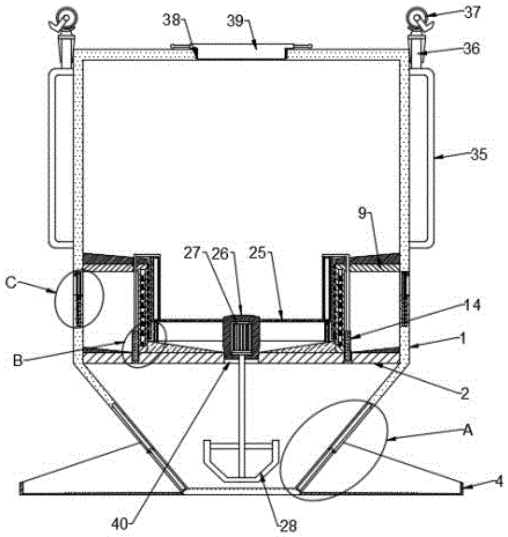
years of history. They have definite curative effect, few side effects and good prognosis.

21: 2022/10152. 22: 2022/09/13. 43: 2022/11/21
51: A01K
71: Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry
72: Yanbin Zhu, Guangming Sun, Ci-Dan-Yang-Ji, Luo-Sang-Dun-Zhu, Fengbo Sun, Haiyu Han, Jinhui Wang, Changhui Xu, Sensen Chai, Ba-Sang-Wang-Dui

54: A FEEDING EQUIPMENT AND BREEDING METHOD FOR PROMOTING TIBETAN PIG REPRODUCTION

00: -

The invention relates to the technical field of animal husbandry, in particular to a feeding equipment for promoting the reproduction of Tibetan pigs. It includes: a storage frame, the inner wall of the storage frame is provided with a partition, the surface of the storage frame is provided with a discharge port, the discharge port is provided with a feeding trough; The material storage rack is arranged inside the material storage rack, and the top surface of the material storage rack is inserted with a lifting handle. The bottom end of the lifting handle is provided with a sealing plate, and the sealing plate is inserted in a feeding port opened on the surface of the partition board. The outer wall of the material storage frame is provided with a finite bit bar; The beneficial effects are as follows: the feeding equipment and breeding method for promoting the propagation of Tibetan pigs proposed in the invention store the feed in the storage rack. Embryo development promoter and ovulation regulator are respectively stored in the two-component storage rack, when the feed inside the storage rack is put down. The embryo development promoter and ovulation regulator fall at the same time to realize the simultaneous delivery of the three materials, and the driving motor can be turned on to drive the stirring shaft to mix the above materials, reducing the labor of feeders.

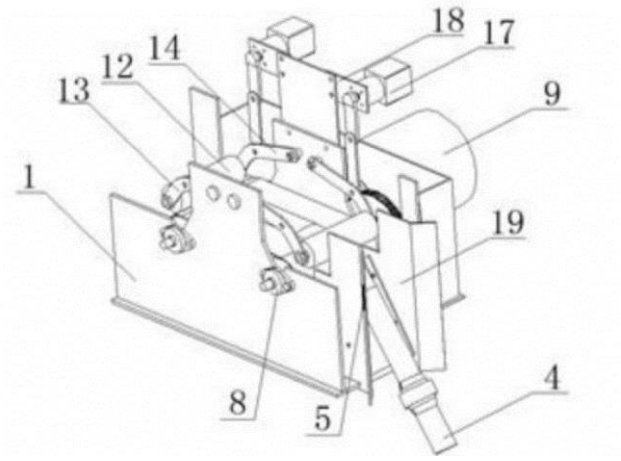


21: 2022/10180. 22: 2022/09/14. 43: 2022/11/21
51: B65H
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: WANG Yong, GE Xiaohan, KANG Ke'nan, KONG Qingdong

54: AUTOMATIC FIRE HOSE WINDING DEVICE

00: -

The invention relates to an automatic fire hose winding device, which comprises a shell, wherein a conveying mechanism is arranged in the shell, a liftable leveling mechanism is arranged above the conveying mechanism, a fire hose passes between the conveying mechanism and the leveling mechanism, and a sensor is also arranged at one side of the shell. According to the invention, the conveying mechanism and the liftable leveling mechanism are arranged; the conveying mechanism and the leveling mechanism realize the drainage and leveling of the fire hose through the cooperation of the fire hose, the upper roller and the lower roller, which is convenient for subsequent further rolling, reduces the workload of firefighters, saves time and improves the rolling efficiency; the leveling mechanism is liftable, and the sensor senses the metal joint. When the leveling mechanism rises, the metal joint passes through smoothly, so that the metal joint is not damaged, and the metal joint does not need to be disconnected, thus prolonging the winding length of the fire hose and reducing the winding workload.

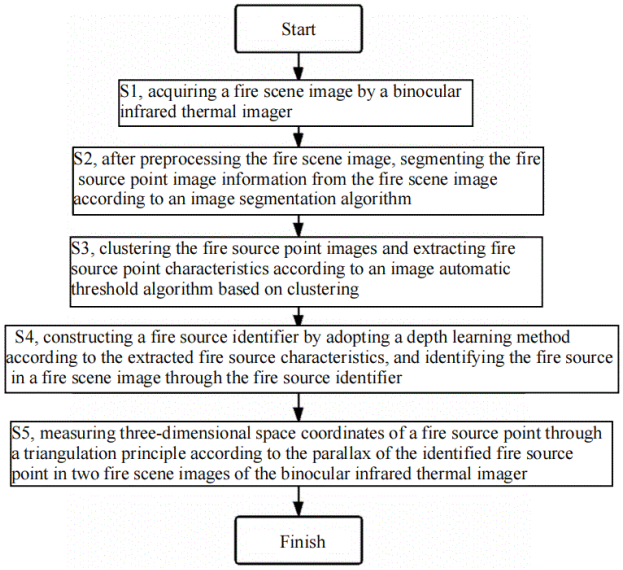


21: 2022/10181. 22: 2022/09/14. 43: 2022/11/21
51: G06K
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: WANG Yong, KANG Ke'nan, KONG Qingdong, GE Xiaohan

54: IDENTIFICATION METHOD AND DEVICE FOR AUTOMATICALLY TRACKING AND POSITIONING FIRE SOURCE POINTS BASED ON MACHINE VISION

00: -

The application relates to an identification method and device for automatically tracking and positioning fire source points based on machine vision. The application comprises the following steps: S1, acquiring a fire scene image by a binocular infrared thermal imager; S2, after preprocessing the fire scene image, segmenting the fire source point image information from the fire scene image according to an image segmentation algorithm; S3, clustering the fire source point images and extracting fire source point characteristics according to an image automatic threshold algorithm based on clustering; S4, constructing a fire source identifier by adopting a depth learning method according to the extracted fire source characteristics, and identifying the fire source in a fire scene image through the fire source identifier; S5, measuring three-dimensional space coordinates of a fire source point through a triangulation principle according to the parallax of the identified fire source point in two fire scene images of the binocular infrared thermal imager. Compared with the prior art, the application has the advantages of improving the accuracy of fire source point positioning, the actual combat application performance of the fire fighting robot and the like.



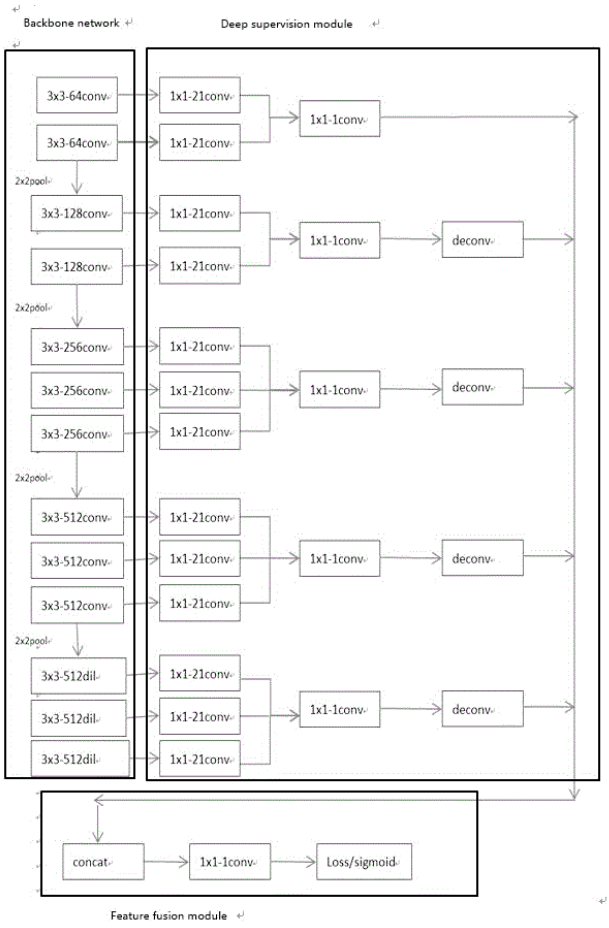
21: 2022/10182. 22: 2022/09/14. 43: 2022/11/21
51: G01B
71: North China University of Science and Technology
72: Wu Yafeng, Ning Xuebin, Suo Yina, Qin Zhihu, Yu Fuxing

54: AN IMAGE-BASED MEASUREMENT METHOD FOR CROSS-SECTION DIMENSIONS OF CONSTRUCTION STEEL PIPE

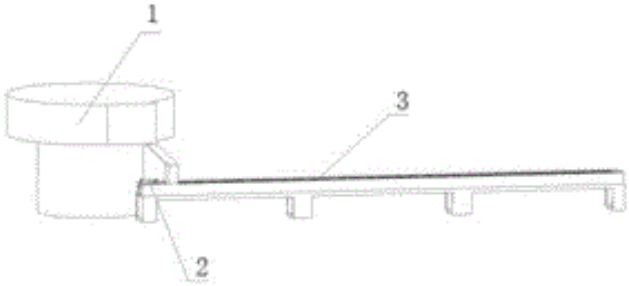
00: -

The invention discloses a method for measuring the cross section size of a building steel pipe, which comprises the following steps of: inputting an image of the building steel pipe into a trained edge detection model for edge detection, wherein the edge detection model comprises a backbone network, a deep supervision module and a feature fusion module; After the edge information of the image is obtained, the edge image is subjected to corrosion and connected domain processing, and finally the initial radius and the circle center of Hough circle detection are obtained for the processed edge image, eight neighborhoods of the initial circle center are taken, the distances from all points on the image to the eight circle centers are calculated, and the average value of the distances is taken as the radius; Make eight circles with the radius calculated from the center of the eight neighborhood, calculate the repetition degree of the eight circles and the circle obtained from the initial Hough circle detection and the circle in the image respectively, and

determine the diameter of the cross section of the steel pipe with the circle with the highest coincidence degree. According to the invention, the problems of high environmental requirements and poor universality of the method in practical application of building steel pipe detection are solved, and the use scene of the method is expanded.

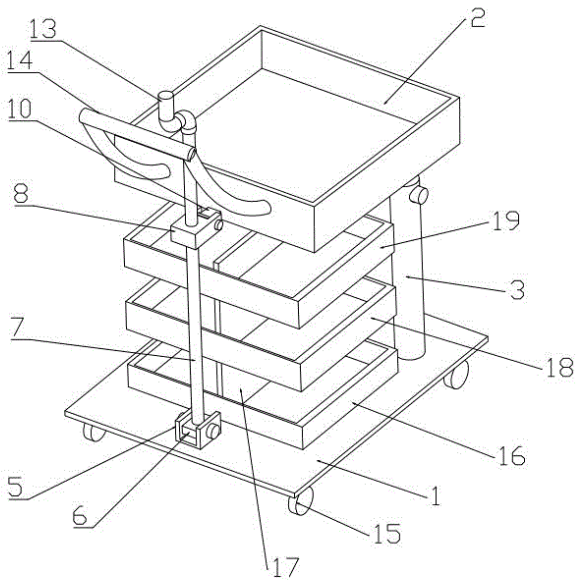


21: 2022/10183. 22: 2022/09/14. 43: 2022/11/21
51: H01M
71: Shanghai Polytechnic University
72: HUANG Qing, YUAN Wenyi, ZHANG Jinyu, XU Lijun, WU Yuxin
33: CN 31: 202210639629.5 32: 2022-06-07
54: DEVICE AND METHOD FOR NONDESTRUCTIVE AND SAFE DISCHARGE OF SPENT CYLINDRICAL POWER BATTERIES
00: -
The application relates to a device and a method for nondestructive and safe discharge of spent cylindrical power batteries, the device comprises a vibrating disc discharging device, an electric pushing device and a continuous discharging device; the vibrating disc discharging device orderly arranges the positive and negative ends of the cylindrical power batteries which are randomly put into the vibrating disc discharging device; the electric pushing device: the electric pushing device pushes the cylindrical power batteries arranged in the vibration disc discharging device into the continuous discharging device; the continuous discharging device: the continuous discharging device pushes the electric pushing device to the cylindrical power battery of the continuous discharging device to continuously discharge and collect. According to the application, after the positive and negative ends of the cylindrical power battery are orderly arranged, the cylindrical power battery is pushed into the continuous discharging device by the electric pushing device, and the cylindrical power battery will be continuously discharged in the continuous discharging device. The application avoids the waste water treatment problem caused by saline solution discharge, keeps the integrity of batteries, accelerates the discharge speed, and has the characteristics of safety, high efficiency, high automatic extent, environmental friendly and the like.



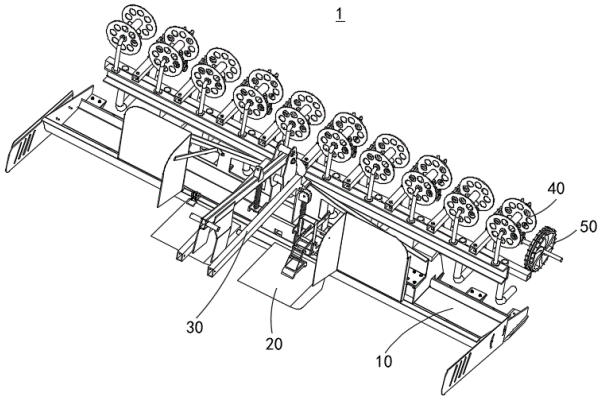
21: 2022/10184. 22: 2022/09/14. 43: 2022/11/21
51: B62B
71: Xuzhou College of Industrial Technology
72: Lei Shuiwang, Ning Junsheng
54: TRANSPORT VEHICLE FOR LIBRARY
00: -
The invention relates to the field of public facilities, in particular to a transport vehicle for library. The transport vehicle for library comprises a bottom plate and the first bookshelf, wherein the bottom plate is fixedly provided with the first supporting column, the second supporting column and a U-shaped part; the U-shaped part is provided with a rotating block, a screw is rotatably arranged on the rotating block, a threaded block is arranged on the screw, one end of the threaded block is provided with a groove, a

supporting rod is arranged between the symmetrical first supporting column and the second supporting column, one end of the first bookshelf is provided with a connecting block, the bottom of the other end of the first bookshelf is provided with a connecting rod, the other end of the connecting rod is provided with a rotating ring, the rotating ring is rotationally matched with the supporting rod, the top of the screw is provided with a operating crank, and one side of the first bookshelf close to the screw is provided with an armrest. The invention has a simple structure, and the user can adjust the angle of the first bookshelf by rotating the operating crank, thus this is convenient for placing books, and avoids the situation that books are scattered on the first bookshelf during transportation.



21: 2022/10185. 22: 2022/09/14. 43: 2022/11/21
51: A01C
71: Hainan University
72: Baolong Wang, Hongyan Liu, Tianyu Tan, Yi Na, Yihong Pan
33: CN 31: 202111160276.2 32: 2021-09-30
54: DIRECT SEEDING DEVICE AND CULTIVATOR
00: -

The invention relates to the field of agricultural tools, and discloses a direct seeding device and a cultivator. The direct seeding device comprises frame body; rope reel, which is rotatably arranged on the frame body and used for storing and dropping the seed ropes through the seed ditch; rope-pressing wheel, which is rotatably arranged on the frame body and used for pressing the seed rope into the seed ditch when the seed rope is rotated in the rope reel and dropped below the rope-pressing wheel; floating box, which is arranged at one side of the frame body; adjusting device, which is respectively connected with the frame body and the floating box and used for adjusting the frame body according to the fluctuation of the floating box on the paddy field ground. In this way, the application can simulate the fluctuation of the paddy field in real time, and then the adjusting device adjusts the lifting/lowering of the frame body according to the fluctuation of the floating box, so that the seed rope in the rope reel can be pressed at a proper height in the paddy field under the action of the rope-pressing wheel, thereby improving the sowing efficiency and the survival rate of seeds.



21: 2022/10187. 22: 2022/09/14. 43: 2022/11/21
51: A23L
71: Jilin Agricultural University
72: LIU Tingting, WANG Dawei, ZHANG Yanrong
54: QUALITY-PRESERVING AND DRYING METHOD OF CYPERUS ESCULENTUS L.
00: -

The invention discloses a quality-preserving and drying method of Cyperus esculentus L, and relates to the technical field of food processing. The method comprises the following steps: continuously drying Cyperus esculentus L. by high-frequency microwave until the water content in Cyperus esculentus L. is not higher than eight percent, thus obtaining the quality-preserved and dried Cyperus esculentus L.. The method of the invention takes less time, is simple to operate, prolongs the storage time,

improves the storage quality, does not damage Cyperus esculentus L. in the whole process, keeps the appearance intact, can better protect the effective ingredients in Cyperus esculentus L., and ensures the product quality to a certain extent. Microwave treatment is helpful to improve the oxidation stability of Cyperus esculentus L. and create greater economic and social benefits.

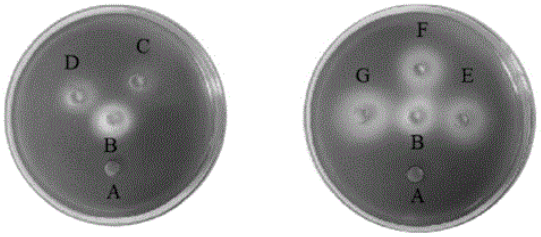


21: 2022/10191. 22: 2022/09/14. 43: 2022/11/21
51: A61K
71: Shihezi University
72: Cunxi Nie, Hailiang Wang, Wenju Zhang, Yanyan Wu, Cheng Chen, Junli Niu, Yuanyuan Li
33: CN 31: 202210373135.7 32: 2022-04-11

54: GRAPE SEED MEAL EXTRACT TARGETING QUORUM SENSING AND PREPARATION METHOD THEREOF

00: -

The invention belongs to the technical field of animal husbandry, and specifically discloses a preparation method of grape seed meal extract with quorum sensing as the target, which comprises the following steps: S1. Pretreatment: after removing impurities, drying and crushing the grape seed meal through a 40-50 mesh screen to obtain grape seed meal powder; S2. Extraction: add 70-85% methanol to 30-55g of grape seed meal powder at the ratio of 0.5-1:8-12 (M/V), shake and filter, and collect the paste obtained after drying the aqueous phase; S3. Resuspend the crude extract with methanol: resuspend the paste with methanol to obtain a resuspension, and obtain a grape seed meal extract. The invention also discloses a grape seed meal extract obtained by the above preparation method. The present invention is based on the feed grape seed meal extract in the animal husbandry industry and takes quorum sensing as the target to screen the crude extract with quorum sensing inhibition effect, which is an effective method for discovering the feed source substances with quorum sensing inhibition activity in plants.



21: 2022/10192. 22: 2022/09/14. 43: 2022/11/21
51: A23K
71: Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry
72: Yanbin Zhu, Ci-Dan-Yang-Ji, Guangming Sun, Luo-Sang-Dun-Zhu, Xin Li, Suo-Lang, Luo-Sang-Zha-Xi, Suo-Lang-Zha-Xi, Ci-Yang, Ba-Sang-Wang-Dui

54: YAK FEED WITH HIGH CONVERSION RATE AND PREPARATION METHOD

00: -

The invention relates to the technical field of animal husbandry feed, specifically to a yak feed with high conversion rate, which includes the following components: 25-66% main feed, 10-22% wheat bran, 10-20% briquette material, 5-8% powder material, 1-2% salt, 0.1% veno fattening cattle multidimensional, 0.1% veno mold clear ore, 0.1% veno compound probiotics; Its beneficial effects are: Feed of the present invention proposes high conversion rate of yak and preparation method of the feed to add to fish meal, bone meal, oyster shell powder, powder, hay meal, alfalfa meal, powder consisting of one or more of the powder, cooperate with corn and soybean meal and corn for one or more of the main ingredient and blood to bean briquette, cotton briquette, sesame briquette of one or more of the briquette, it can improve the nutrition utilization efficiency of yak after edible feed.

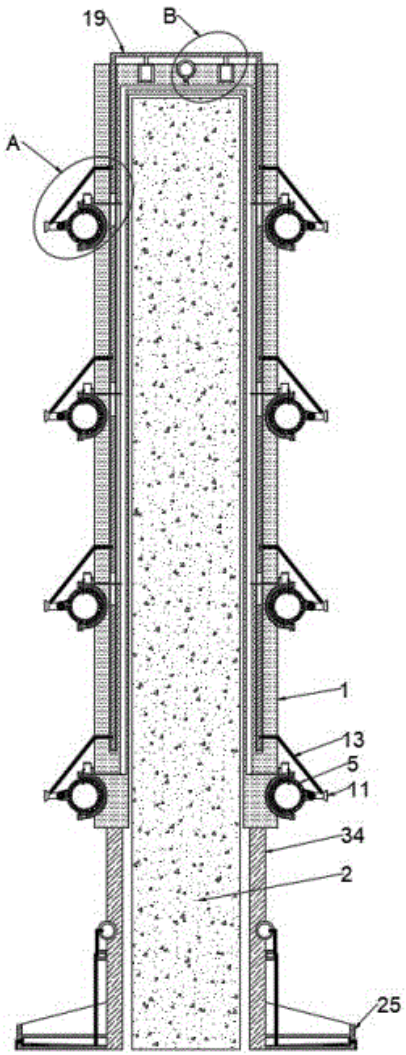
Parameter	Proportion(%)
Main ingredient	25-66
Wheat bran	10-22
Briquette	10-20
Powder	5-8
Salt	1-2
Vino fattening cattle multidimensional	1
Vinoluqing ore	1
Vino compound probiotics	1

21: 2022/10193. 22: 2022/09/14. 43: 2022/11/21
51: A01K
71: Institute of Animal Science and Veterinary, Tibet Academy of Agricultural and Animal Husbandry
72: Yanbin Zhu, Ci-Dan-Yang-Ji, Guangming Sun, Luo-Sang-Dun-Zhu, Fengbo Sun, Haiyu Han, Jinhui Wang, Changhui Xu, Sensen Chai, Ba-Sang-Wang-Dui

54: A TIBETAN PIG BREEDING EQUIPMENT AND METHOD BASED ON CIRCULATION COOLING TECHNOLOGY

00: -

The invention relates to the technical field of breeding industry, in particular to a Tibetan pig breeding equipment based on circulation cooling technology. It comprises a mounting frame, the mounting frame buckle is arranged above the piggery separation wall, the side plate of the mounting frame is provided with a plurality of water collecting pipes, and the surface of the water collecting pipe is connected with a sprinkler head; The water collection bin is arranged in the interior of the installation frame. The water collection bin and the water collection pipe are connected through the pump body, and the nozzle and the water collection pipe are connected through the hose; The beneficial effect is as follows: the Tibetan pig breeding equipment and method based on the circulation cooling technology proposed in the invention can drive the traction rope to pull the corresponding sprinkler head to rotate by lifting the pulling frame. This can realize the adjustment of the direction of the sprinkler head, so as to realize the regulation of the spraying direction of the sprinkler head and the parabola of the spraying water body, and realize the regulation of the spraying range of the sprinkler head.



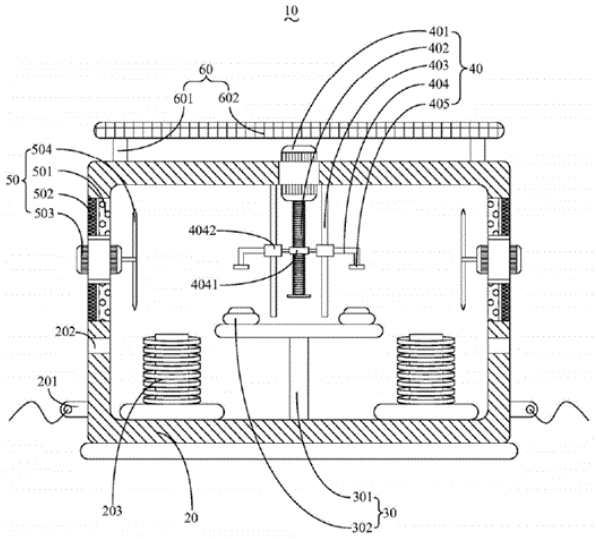
21: 2022/10195. 22: 2022/09/14. 43: 2022/11/21
51: H02B
71: Yinchuan Electric Power Supply Company of State Grid Ningxia Electric Power Co., Ltd.
72: Zhe Jing, Haomiao Zhang

54: ISOLATING SWITCH CONTROL CABINET FOR POWER TRANSFORMATION OPERATION

00: -

An isolating switch control cabinet for power transformation operation provided by the invention comprises a control box, a wiring terminal and a lifting switch. The two sides of the upper end of the wiring terminal are each connected with a wire. The lifting switch comprises a first driving motor, a lead screw, two limiting rods, a pressing rod and a

pressing block. The pressing block and a wiring block are connected or disconnected by making the first driving motor work, and therefore, the wires on the two sides of the wiring terminal are powered on or powered off, and the switching function is completed. Operators only need to control the start and stop of the first driving motor in the whole process. Contact with an isolating switch is not needed, so that the operation is safer. The switch of the first driving motor can be arranged at a position convenient for personnel to operate, so that the working efficiency of operators can be improved.

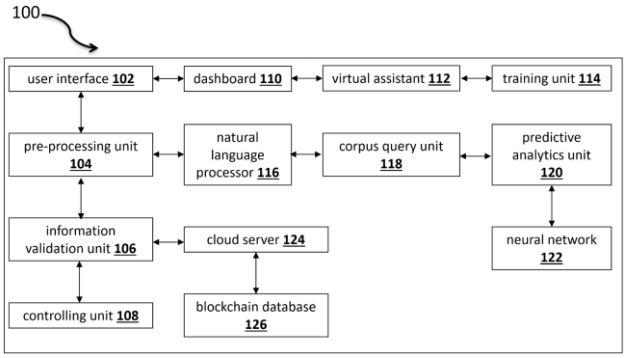


21: 2022/10196. 22: 2022/09/14. 43: 2022/11/21
51: G16H
71: Dr. Gerard Deepak, Jayachitra Sekar, Dr.Baranitharan Kannan, Hariprasath Subbarao, Dr. Idimadakala Nagaraju, Dr. Pulugu Dileep, Dr. Shaik Mohammad Rafi, Dr. Kalarani Senthilkumar
72: Dr. Gerard Deepak, Jayachitra Sekar, Dr.Baranitharan Kannan, Hariprasath Subbarao, Dr. Idimadakala Nagaraju, Dr. Pulugu Dileep, Dr. Shaik Mohammad Rafi, Dr. Kalarani Senthilkumar

54: AN ARTIFICIAL INTELLIGENCE ENABLED SECURE BLOCKCHAIN SYSTEM FOR HEALTHCARE APPLICATION

00: -

The artificial intelligence enabled secure blockchain system for healthcare application comprises a user interface to receive medical procedures/information for a patient upon validating credentials of the medical professionals and receiving health-related information from a patient after authenticating credentials of the patient, and resulting clinical recommendation(s) to the authenticated medical professional and patient; a pre-processing unit to process information between the medical professional and patient, wherein processed data is securely stored in a blockchain database; an information validation unit to interface with a real time processor to one of verifying compliance of unstructured patient information and conforming non-compliant unstructured patient information; and a controlling unit to interface with the real time processor and one of the patient's biometric sensor and electronic health records to transmit information from the one of the patient's biometric sensor and electronic health records to the real time processor when triggered by notification of availability of updates.



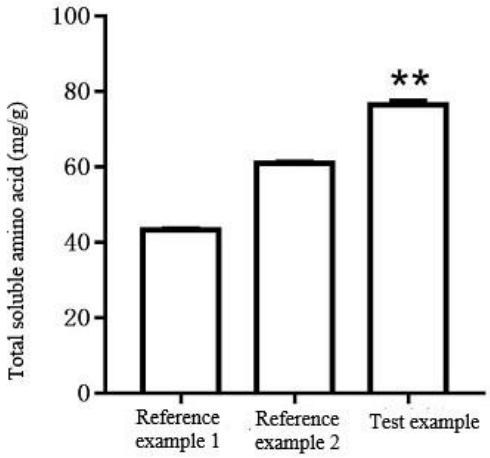
21: 2022/10221. 22: 2022/09/14. 43: 2022/11/21
51: C12Q
71: YANG, Manjun
72: YANG, Manjun
33: CN 31: 202111399046.1 32: 2021-11-19

54: DNA BARCODE FOR SCREENING TOTAL SOLUBLE AMINO ACID CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS

00: -

The present invention discloses a DNA barcode, a primer group and application for screening a total soluble amino acid content index of Floccularia luteovirens, belonging to the technical field of screening of edible fungi germplasm resources. Compared with a traditional breeding method and other existing DNA barcode technologies, the present invention has the advantages of time saving, labor saving, money saving, accuracy and high efficiency, plays a positive role in original place identification and genetic breeding of high-quality Floccularia luteovirens, and also provides an

effective method for identification and protection of germplasm resources.

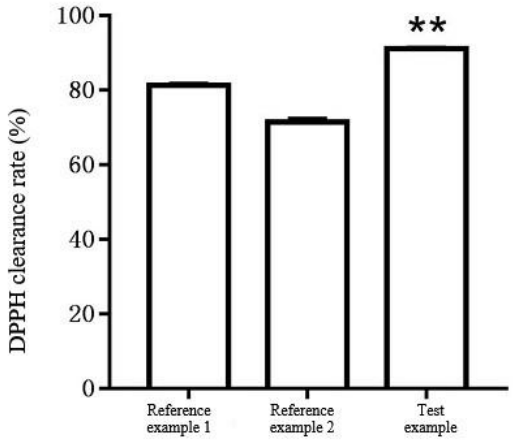


21: 2022/10222. 22: 2022/09/14. 43: 2022/11/21
51: C12Q
71: YANG, Manjun
72: YANG, Manjun
33: CN 31: 202111401645.2 32: 2021-11-19

54: DNA BARCODE FOR SCREENING FLOCCULARIA LUTEOVIRENS WITH HIGH ANTIOXIDANT ACTIVITY

00: -

The present invention discloses a DNA barcode for screening Floccularia luteovirens with high antioxidant activity, belonging to the technical field of screening of edible fungi germplasm resources. Compared with a traditional breeding method and other existing DNA barcode technologies, the present invention has the advantages of time saving, labor saving, money saving, accuracy and high efficiency, plays a positive role in genetic breeding of high-quality Floccularia luteovirens, and also provides an effective method for identification and protection of germplasm resources.

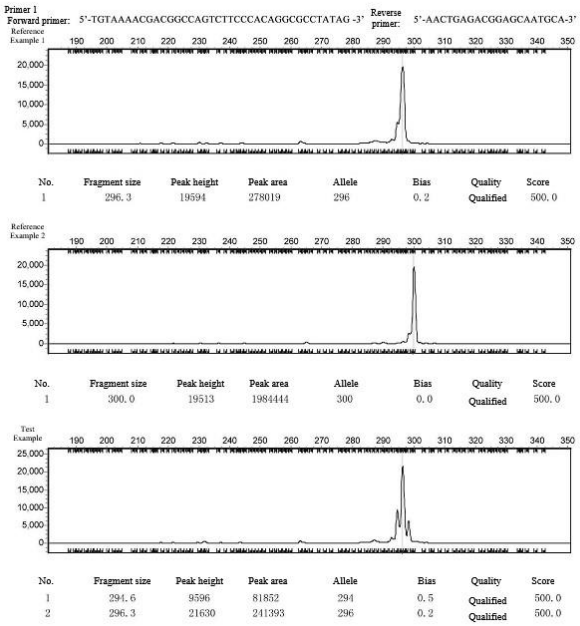


21: 2022/10223. 22: 2022/09/14. 43: 2022/11/21
51: C12Q
71: YANG, Manjun
72: YANG, Manjun
33: CN 31: 202111401642.9 32: 2021-11-19

54: DNA BARCODE FOR RECOGNIZING ORIGINAL PLACE OF FLOCCULARIA LUTEOVIRENS

00: -

The present invention discloses a DNA barcode, a primer group and application for recognizing an original place of Floccularia luteovirens, belonging to the technical field of screening of edible fungi germplasm resources. Compared with a traditional breeding method and other existing DNA barcode technologies, the present invention has the advantages of time saving, labor saving, money saving, accuracy and high efficiency, plays a positive role in original place identification and genetic breeding of high-quality Floccularia luteovirens, and also provides an effective method for identification and protection of germplasm resources.

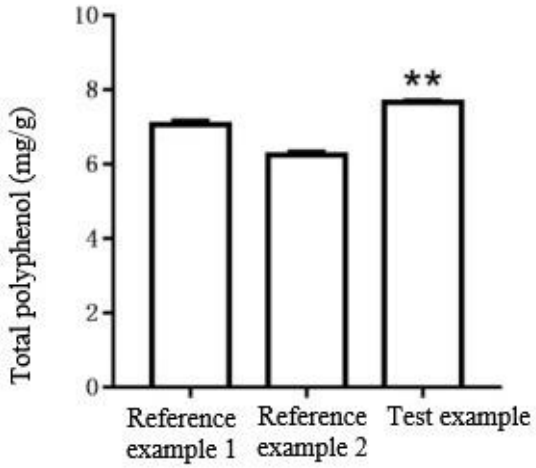


21: 2022/10225. 22: 2022/09/14. 43: 2022/11/21
51: C12Q
71: YANG, Manjun
72: YANG, Manjun
33: CN 31: 202111399047.6 32: 2021-11-19

54: DNA BARCODE FOR SCREENING TOTAL POLYPHENOL CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS

00: -

The present invention discloses a DNA barcode, a primer group and application for screening a total polyphenol content index of Floccularia luteovirens, belonging to the technical field of screening of edible fungi germplasm resources. Compared with a traditional breeding method and other existing DNA barcode technologies, the present invention has the advantages of time saving, labor saving, money saving, accuracy and high efficiency, plays a positive role in original place identification and genetic breeding of high-quality Floccularia luteovirens, and also provides an effective method for identification and protection of germplasm resources.

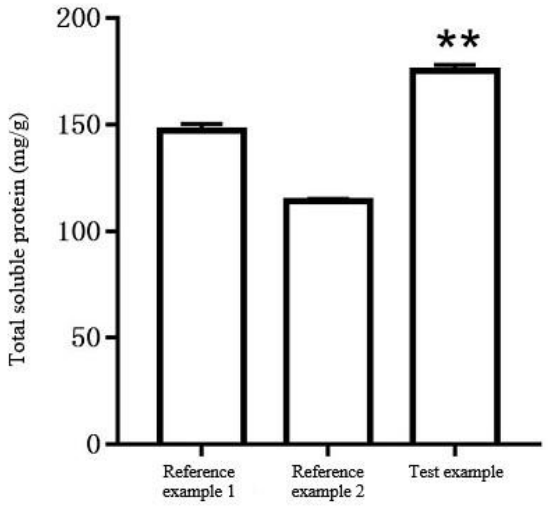


21: 2022/10226. 22: 2022/09/14. 43: 2022/11/23
51: C12Q
71: YANG, Manjun
72: YANG, Manjun
33: CN 31: 202111399048.0 32: 2021-11-19

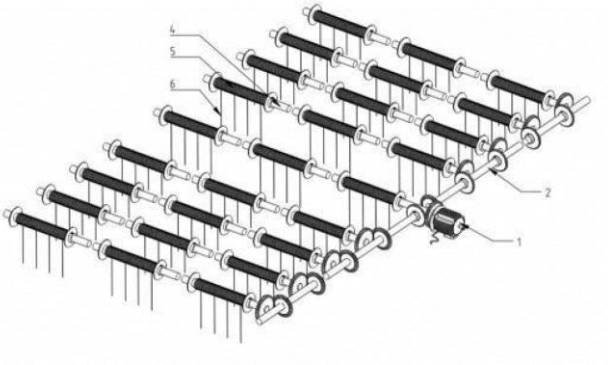
54: DNA BARCODE FOR SCREENING TOTAL SOLUBLE PROTEIN CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS

00: -

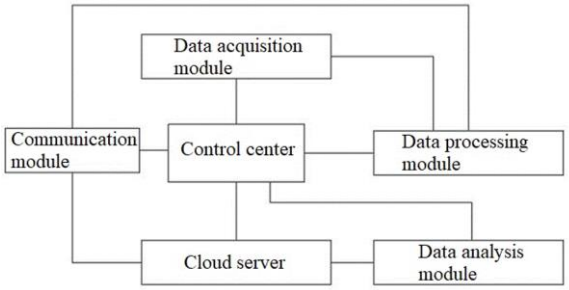
The present invention discloses a DNA barcode, a primer group and application for screening a total soluble protein content index of Floccularia luteovirens, belonging to the technical field of screening of edible fungi germplasm resources. Compared with a traditional breeding method and other existing DNA barcode technologies, the present invention has the advantages of time saving, labor saving, money saving, accuracy and high efficiency, plays a positive role in original place identification and genetic breeding of high-quality Floccularia luteovirens, and also provides an effective method for identification and protection of germplasm resources.



21: 2022/10243. 22: 2022/09/15. 43: 2022/12/08
51: A01G
71: Hainan University
72: Jian Liu, Xuyong Wu, Baolong Wang, Guopeng Zhu, Yanli Chen
33: CN 31: 202111172414.9 32: 2021-10-08
54: GREENHOUSE ROOF LIFTING DEVICE BASED ON PARALLEL BEVEL GEARS DRIVING IN DIFFERENT DIRECTIONS
00: -
The invention discloses a greenhouse roof lifting device based on parallel bevel gears driving in different directions, it relates to the technical field of greenhouses, and comprises a decelerating motor, driving shafts, driven shafts, a greenhouse roof and greenhouse upright posts, wherein the power output shaft of the decelerating motor is fixedly provided with two driving bevel gears, two driving shafts are symmetrically arranged on both sides of the decelerating motor, and one end of the driving shaft close to the driving bevel gear is fixedly provided with a driven bevel gear I, the driven bevel gear I is meshed with the driving bevel gear, the driving shaft is provided with a plurality of driven bevel gears II at an equal interval, and the quantity of the driven shaft is equal to that of driven bevel gear II and the both correspond to one by one; in the invention, the whole greenhouse roof can be driven to lift/fall by a decelerating motor, this is more time-saving and labor-saving, and the greenhouse upright post which plays a main supporting role is kept fixed, so that the greenhouse upright post can be prevented from moving up and down to avoid damaging the overall stability of the greenhouse.



21: 2022/10330. 22: 2022/09/19. 43: 2022/12/08
51: G08B; G06Q
71: Zhongda Intelligent Technology Co., Ltd.
72: Ye Luo, Qiwu Guo, Bin Lei, Xuexian Peng, Zechao Hu, Lian Yu, Dekuang Wang
33: CN 31: 202111501207.3 32: 2021-12-09
54: GEOLOGICAL DISASTER SYSTEM BASED ON NATIONAL COMMERCIAL CRYPTOGRAPHIC ALGORITHMS
00: -
The present invention discloses a geological disaster system based on national commercial cryptographic algorithms, and relates to the technical field of data processing. A data processing module backs up initial data, and encrypts geological parameter data, a data transmission instruction is sent to a control center after encryption of the geological parameter data is completed, encrypted geological parameter data is sent to a cloud server by a communication module so as to be stored, the cloud server decrypts sent geological parameter data by means of a decryption key, and a third encrypted ciphertext is verified by means of a third decrypted ciphertext in the decryption key. In this way, whether the initial data is lost or tampered is determined, it can be ensured that geological parameter data obtained by a data acquisition module can be protected to the greatest extent in a transmission process and prevented from being lost and tampered, thereby making the geological parameter data more real and effective.



21: 2022/10331. 22: 2022/09/19. 43: 2022/12/08
51: C01B; C04B
71: Sanming University
72: SHI, Kailin, CUI, Xiuqin, LV, Shige, CUI, Jinna, ZHANG, Mengyang, WEI, Shumin, SU, Qiangwei, TU, Mengjie, WEI, Sicheng, YANG, Baochang

54: METHOD FOR PREPARING SODIUM SILICATE FOR ALKALI MINERAL CEMENT

00: -

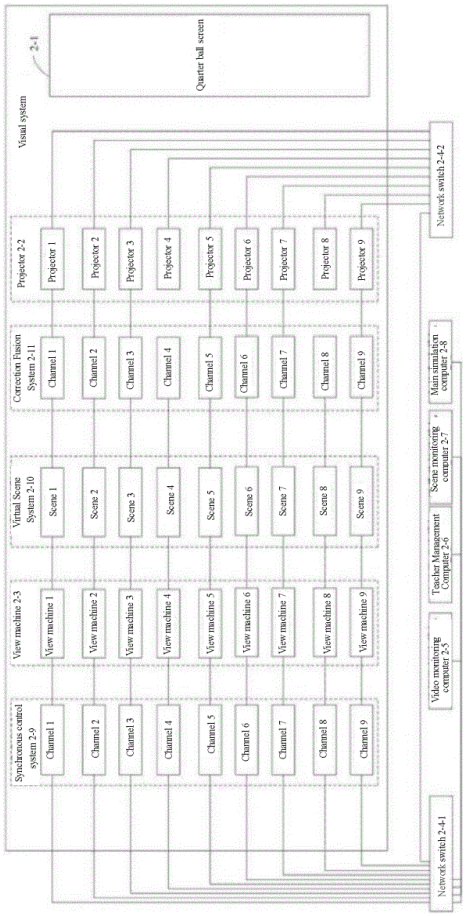
The present disclosure belongs to the technical field of water glass preparation, and in particular relates to a method for preparing sodium silicate for alkali mineral cement. According to the method for preparing sodium silicate of the present disclosure, the silica-rich sand or waste glass and waste alkali powder are fired in a tunnel kiln to obtain solid sodium silicate, and then the solid sodium silicate is dissolved in water to obtain the sodium silicate for alkali mineral cement. The preparation method of the present disclosure has the following advantages: firstly, wastes are utilized, and secondly, independent firing is avoided. Compared with the prior art that the sodium silicate is prepared from finished alkali and prepared by firing in an electric melting furnace, the cost of the sodium silicate prepared through the method provided by the present disclosure is reduced by 50%.

21: 2022/10332. 22: 2022/09/19. 43: 2022/12/08
51: G06T; G09B
71: SHANGHAI MARITIME UNIVERSITY
72: LU Houjun, GUAN Xin

54: VISUAL SYSTEM OF PORT CRANE SIMULATOR AND IMAGE PROCESSING METHOD AND SYSTEM THEREOF

00: -

The invention discloses a visual system of a port crane simulator, and an image processing method and system thereof. The system comprises a network switch which comprises a first network switch and a second network switch; one end of the first network switch is connected with one end of the view machine through a synchronous control system; the other end of the first network switch is connected with the second network switch, the video monitoring computer, the teacher management computer, the scene monitoring computer and the main simulation computer in sequence; the view machine comprises a plurality of view machines; the view machine is in one-to-one correspondence with the projectors; the visual camera is connected with the projector through a virtual scene system and a correction fusion system; the projector is arranged above the ball screen, and the horizontal layout of the projector is symmetrical about the center line of the ball screen. The visual system and the image processing method and system provided by the invention can comprehensively project the working condition of the port crane, and improve the fidelity and reliability of the projected image.



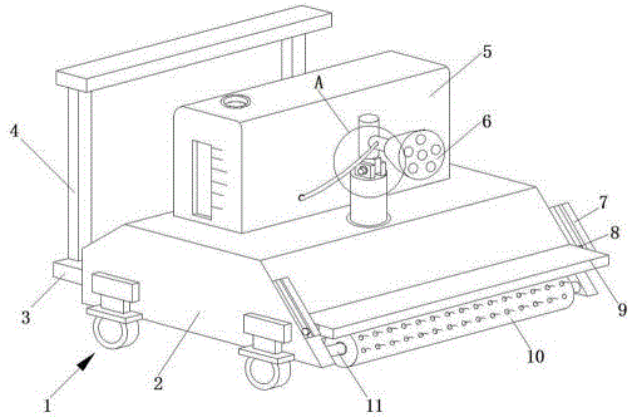
21: 2022/10333. 22: 2022/09/19. 43: 2022/12/08
51: A01K

71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, ANCHEE(SHANDONG) ACADEMY OF ANIMAL NUTRITION Co.LTD
72: GUO Jianfeng, DU Yushi, TAO Zhiyong, ZHAO Xueyan, WANG Huaizhong

54: DEVICE FOR CLEANING PIG BREEDING EXCREMENT

00: -

The invention disclose a device for cleaning pig breeding excrement, including a moving mechanism, a bottom plate, a water storage tank, handrails and cleaning wheels, wherein a front end face of the bottom plate is obliquely arranged, and a driving motor is arranged in the front end face of the bottom plate; fixed blocks are obliquely arranged along the front end face of the bottom plate, and two groups of fixed blocks are symmetrically distributed; fenders are slidably arranged between the two groups of fixed blocks; two ends of each fender are convexly provided with sliding blocks; each sliding block extends into a sliding groove formed in the fixed block, the sliding groove is formed along the length direction of the fixed block, and second bolts are arranged inside the fixed blocks; the second bolts longitudinally slide along the sliding grooves, and one end of each second bolt passes through the sliding grooves and extends into the sliding blocks, and is screwed with the sliding blocks; and the fenders slide along the length direction of the fixed blocks. The device for cleaning pig breeding feces has reasonable structure, is, and is operated and used conveniently, so it may be widely promoted.

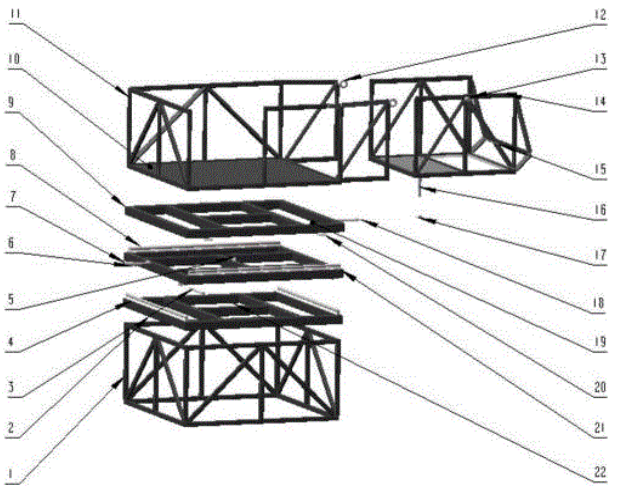


21: 2022/10334. 22: 2022/09/19. 43: 2022/12/08
51: G09B
71: SHANGHAI MARITIME UNIVERSITY
72: LU Houjun, ZHANG Minghui

54: SOMATOSENSORY SIMULATION METHOD AND DEVICE OF CRANE SIMULATOR

00: -

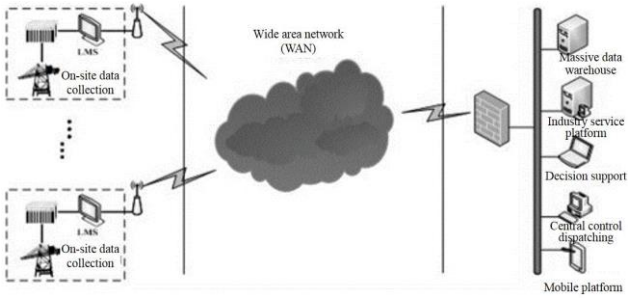
The invention discloses a somatosensory simulation method and device of crane simulator. The method comprises a closed-loop simulation step, a physical quantity input and output step, and a fuzzy PID control step, and is used for simulating the motion sensation generated by traveling mechanisms such as carts and trolleys during crane operation in a limited stroke and working space, specifically, it can simulate the motion sensation such as instantaneous acceleration and sustained acceleration which are consistent with real cranes. The device is a three-degree-of-freedom parallel structure, including the transverse motion of the cart, the longitudinal motion of the trolley and the tilt compensation rotation motion of the trolley. Based on the theory of human motion sensation, through the processing of input signals, the problems of acceleration, deceleration, and recovery of body sensation simulation in the process of crane simulation can be effectively solved. The invention is beneficial to increase the fidelity of the crane simulator, can meet the requirements of simulating motion sensation in limited travel and working space, and has important application value for improving the quality and level of the simulator.



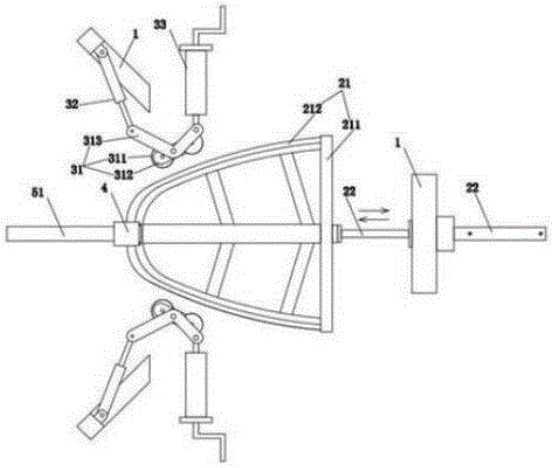
21: 2022/10335. 22: 2022/09/19. 43: 2022/12/08
51: G09F
71: SHANGHAI MARITIME UNIVERSITY
72: LU Houjun, ZHANG Songbo

54: METHOD AND SYSTEM FOR REMOTE COLLECTION OF LARGE AMOUNT OF DATA IN UNSTABLE NETWORK

00: -
The invention discloses a method and a system for remote collection of large amount of data in an unstable network, wherein the method includes: industrial field data collection; remote transmission of the unstable network data; and sending, receiving, processing and storing of structured data in batches. The industrial field data collection configures variables according to different business needs; a data remote transmission adopts the first-in-first-out queue mode, and structured data is imported to the remote server in batches by calling the remote service; remote service receives structured data into the queue according to the first-in-first-out principle. After processing, the data is imported into the server database in batches to complete the collection of large amounts of data in unstable networks. The method and system disclosed in the present invention adopt the multi-thread mechanism in all the above links, so as to meet the application needs of different industrial sites, especially in the unstable network environment, and simultaneously meet the data completeness and the real-time nature of remote monitoring, having important promotion value for industrial Internet field applications.

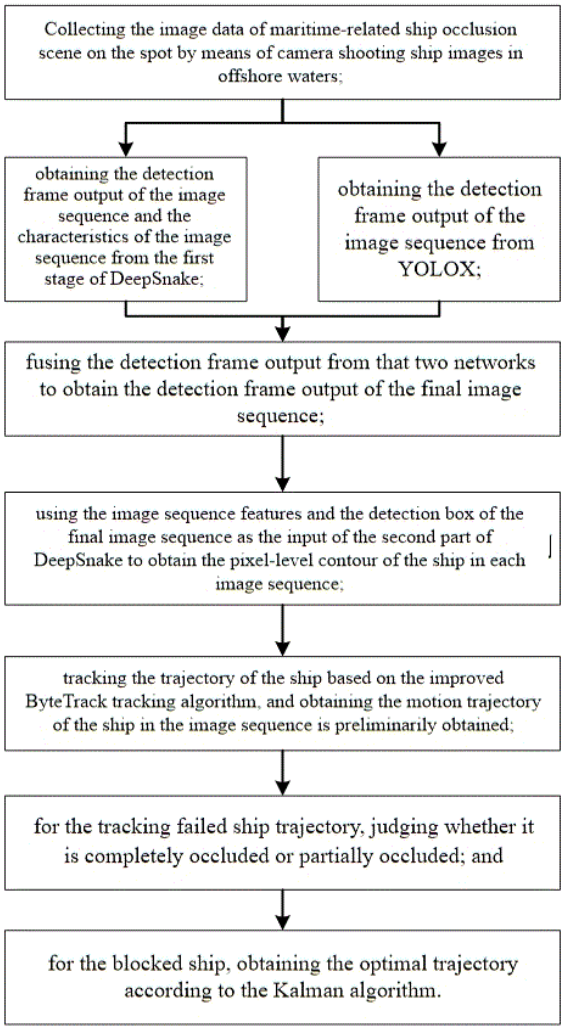


21: 2022/10336. 22: 2022/09/19. 43: 2022/12/08
51: B21D
71: Dezhou Lihuan Environmental Protection Equipment Co., Ltd.
72: XUE, Yuliang, XUE, Rui, XUE, Long
54: SPLAYED PIPE BENDING AUTOMATIC FORMING MACHINE
00: -
The invention belongs to the technical field of pipe bending forming, and particularly relates to a splayed pipe bending automatic forming machine. The machine comprises a rack, a forming mechanism and pressing mechanisms. The forming mechanism comprises a forming die and a first driving element for pushing the forming die to reciprocate; and the pressing mechanisms are symmetrically arranged at the two sides of the forming die, the pressing mechanisms press and fold a splayed pipe raw material into the forming die so that the splayed pipe raw material can be formed through the forming die, and each pressing mechanism comprises a pressing assembly and a second driving element for driving the pressing assembly to conduct pressing.



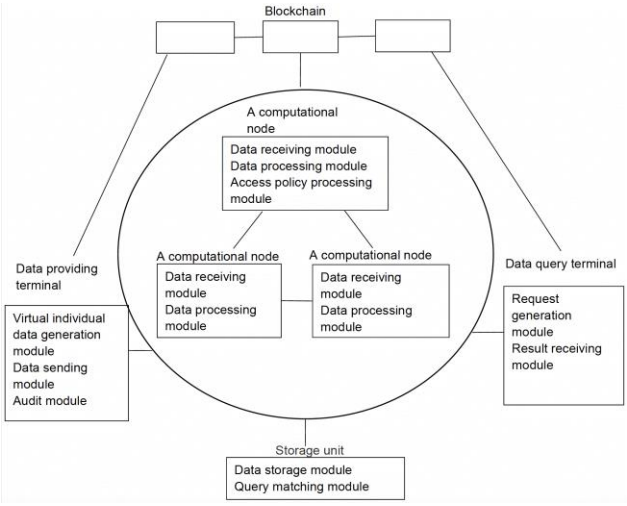
21: 2022/10337. 22: 2022/09/19. 43: 2022/12/08
51: G06T
71: Shanghai Maritime University, Wuhan University of Technology
72: CHEN Xinqiang, CHEN Weiping, YANG Yongsheng, WU Bing, LI Chaofeng, WU Huafeng, XIAN Jiangfeng
33: CN 31: 202211000946.9 32: 2022-08-19
54: SHIP IMAGING TRAJECTORY EXTRACTION UNDER DISCONTINUOUS VISUAL INTERFERENCES
00: -
The present invention provides a ship imaging trajectory extraction under discontinuous visual interferences, which includes: acquiring ship images, wherein the ship images include a scene image of ship being occluded and a scene image of ship not being occluded; detecting the ship image according to the DeepSnake model and the YOLOX model, and acquiring the ship position in the image sequence; inputting the detection results of the ship position and the DeepSnake model into the DeepSnake model to obtain an outer contour of the ship; and tracking the trajectory of the ship based on

the outer contour and the position of the ship, and acquiring the motion trajectory of the ship in the image sequence. This invention introduces the judgment of the occluded state, and further uses the Kalman algorithm to obtain a more accurate ship track; that not only improves the accuracy of extracting the navigation track of the ship from the ship-borne surveillance video data, but also improves the robustness in complex sea conditions.



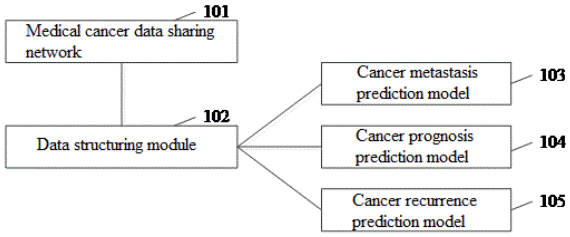
21: 2022/10338. 22: 2022/09/19. 43: 2022/12/08
51: G06F
71: Zhejiang Wanli University
72: Song Xinxia, Chen Zhigang
54: A GENE DATA SHARING METHOD AND A DEVICE FOR PROTECTING PRIVACY AND SECURITY
00: -

The invention integrates and complements various technologies including homomorphic encryption, encryption-based access control of data owners and blockchain technology, and realizes controllable, transparent and safe genome data sharing. The invention discloses a gene data sharing method and a device for protecting privacy and security, which can control that who can access and use their data. The method applied to the data providing terminal includes: generating a group of virtual individual gene data to maximally prevent attackers from associating encrypted data with plaintext data by observing them; generating a key for a data provider to encrypt the original file to obtain a symmetric encrypted file; assigning an identifier to each virtual individual and data provider to eliminate the influence of the virtual individual on the data analysis statistics of later data inquirers; encrypting the original file, the virtual individual gene data, the key, and the identifier by using the collective public key, and sending them to the computational node; setting access policy and receiving and answering data access notifications. The invention integrates and complements various technologies including homomorphic encryption, encryption-based access control of data owners and blockchain technology, and realizes controllable, transparent and safe genome data sharing.



21: 2022/10340. 22: 2022/09/19. 43: 2022/12/08
51: G06F; G06N
71: Zhejiang University City College
72: ZENG, Yingchun, CHENG, Andy S.K., WANG, Boran, JIANG, Jingchi, WEI, Xijun

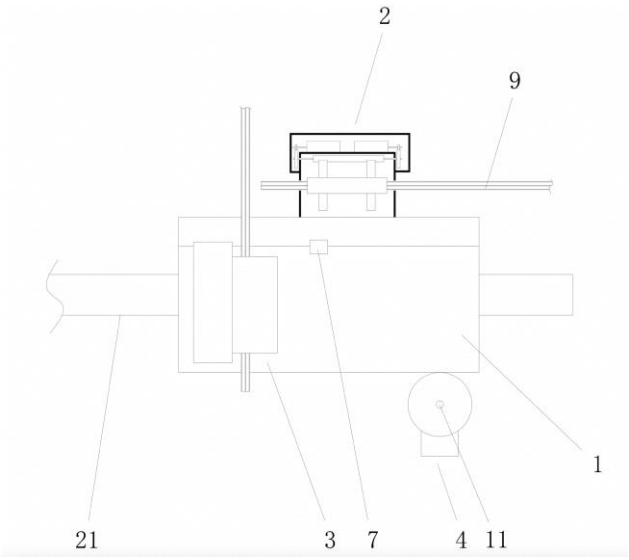
33: CN 31: 202210201968.5 32: 2022-03-03
54: CANCER DATA MANAGEMENT PLATFORM BASED ON BLOCKCHAIN TECHNOLOGY
00: -
Disclosed is a cancer data management platform based on blockchain technology, including: a medical cancer data sharing network, wherein the medical cancer data sharing network is a peer-to-peer (P2P) computer network, and each client in the P2P computer network is a node; each of the nodes is configured to request a cancer data transaction, receive cancer data sent by users, and upload the cancer data to blockchain for storage. According to the present invention, the secure sharing of cancer data is realized by the characteristics of blockchain data storage, which cannot be tampered with or forged, and the security of data sharing is improved, so as to improve the reliability of cancer data application.



21: 2022/10341. 22: 2022/09/19. 43: 2022/12/08
51: C05G
71: Zhengzhou Shengrun Biomass Energy Chemical Research Institute
72: MA, Meijing, LIU, Peiming, GUO, Lanju, LI, Guanjun, WANG, Hongzhou, WANG, Sen

54: SOIL OXYGEN-BAR FERTILIZER CAPABLE OF ALLEVIATING SOIL COMPACTION AND ENHANCING VENTILATION IN SOIL
00: -
The present invention relates to a soil oxygen-bar fertilizer capable of alleviating soil compaction and enhancing ventilation in soil, which can effectively solve the problems that excessive application of chemical fertilizer causes soil compaction and harms the human bodies. The fertilizer is prepared from the following raw materials based on percentages by weight: 11%-30% of organic acid, 13%-30% of compound amino acid, 10%-25% of attapulgite, 30%-49% of plant straw, 3%-10% of glucose, 1%-4% of propylene oxide, 3%-15% of propylene glycol and 1%-4% of ferrous sulfate. The preparation method is simple, the raw materials are abundant, the fertilizer is prepared by production, the application is convenient, the effect is good, the soil can be fertilized and improved, the soil compaction can be alleviated, the ventilation in soil is enhanced, and the microecological balance in soil is optimized. Thus, the fertilizer is a novel product in agriculture.

21: 2022/10342. 22: 2022/09/19. 43: 2022/12/08
51: B23K
71: Hebei University of Architecture
72: ZHAO Fang, ZHOU Jianyu, WEN Wanli, WANG Shuo, HUANG Jianguo, WANG Guobin, LIU Haijing, HUANG Xiaoyun, CHAI Xiaoli, YAO Hai, XIAO Xiangyu, WANG Xiaodong, NIU Yuanyuan, LI Bomin, DING Yong, WEI Wenbo
54: BUTT JOINT DEVICE FOR WELDING CONSTRUCTION STEEL PIPES
00: -
The invention discloses a butt joint device for welding construction steel pipes. Comprises a clamping cylinder and an X-axis alignment mechanism, a Y-axis alignment mechanism and a Z-axis alignment mechanism connected to the side wall of the clamping cylinder; the clamping cylinder is provided with a through hole which extends along the central axis and is used for clamping steel pipes, and the through hole runs through both ends of the clamping cylinder; the X-axis alignment mechanism includes X screw rod, Y-axis alignment mechanism includes Y screw rod and Z-axis alignment mechanism includes Z screw rod; X-axis alignment mechanism, Y-axis alignment mechanism and Z-axis alignment mechanism are distributed along the circumferential direction of the clamping cylinder, and the X screw rod is parallel to the central axis of the clamping cylinder, the Y screw rod is perpendicular to the X screw rod, and the Z screw rod is perpendicular to the X screw rod and the Y screw rod respectively; a motor for driving the X screw rod to move along the X-axis direction is arranged in the X-axis alignment mechanism. The invention reduces the difficulty of steel pipe welding and improves the success rate of butt welding of steel pipes.

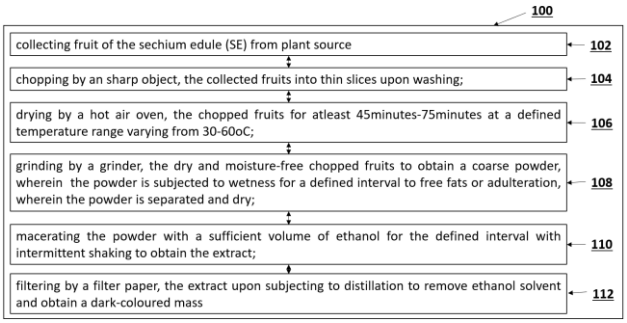


21: 2022/10343. 22: 2022/09/19. 43: 2022/11/24
51: B01D
71: Prof. (Dr.) Sayeed Mohammed Firdous, Sourav Ghosh, Varnita Karmakar, Aisha Alhaddad, Waad Samman, Abdelaziz Abdelfattah Abdelaziz Elsayed, Ahmed Abdelfattah Hafez Abdellatif, Raghad Mahmoud Abdalla Hafiz, Mahmoud Abdalla Hafiz Mostafa
72: Prof. (Dr.) Sayeed Mohammed Firdous, Sourav Ghosh, Varnita Karmakar, Aisha Alhaddad, Waad Samman, Abdelaziz Abdelfattah Abdelaziz Elsayed, Ahmed Abdelfattah Hafez Abdellatif, Raghad Mahmoud Abdalla Hafiz, Mahmoud Abdalla Hafiz Mostafa

54: A METHOD FOR PREPARING SECHIUM EDULE EXTRACT FOR REVERSING NEUROTOXICITY OF LEAD

00: -

A method (100) for preparing sechium edule extract to reverse neurotoxicity of lead, collecting fruit of the sechium edule (SE) from plant source; chopping by an sharp object, the collected fruits into thin slices upon washing; drying by a hot air oven, the chopped fruits for atleast 45minutes-75minutes at a defined temperature range varying from 30-60oC; grinding by a grinder, the dry and moisture-free chopped fruits to obtain a coarse powder, wherein the powder is subjected to wetness for a defined interval to free fats or adulteration, wherein the powder is separated and dry; macerating the powder with a sufficient volume of ethanol for the defined interval with intermittent shaking to obtain the extract; and filtering by a filter paper, the extract upon subjecting to distillation to remove ethanol solvent and obtain a dark-coloured mass, wherein an animal is exposed to the extract for analyzing neurotoxicity.

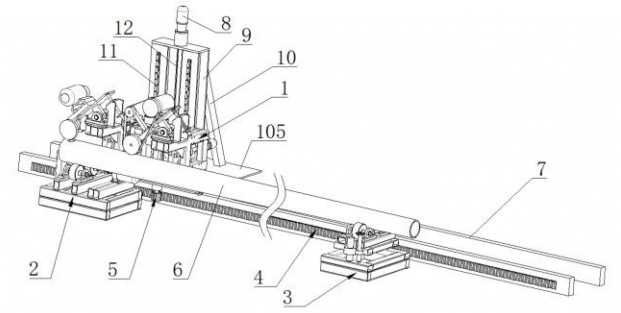


21: 2022/10344. 22: 2022/09/19. 43: 2022/12/08
51: B24B
71: China Railway Electrical Industry Baoding Products Co., Ltd., China Railway Electric Industries Co., Ltd., China Railway Electrification Bureau Group Co., Ltd.
72: HU, Huiliang, XU, Weichao, FANG, He, SHANG, Shunchao, NIU, Jianghui, WANG, Tao, LIU, Xuying, ZHOU, Yongqiang, CAI, Yunfei, WANG, Peng, LIANG, Yan, CAO, Suxing, LI, Xiaodong, DUAN, Yubo, LIU, Tao, ZHANG, Fan, CUI, Hao, GUAN, Yijun, LI, Jiandong, GAO, Yaozong, TIAN, Hongfan, GUO, Jinchuan, LANG, Weibo, WANG, Meng, XU, Deqiang
33: CN 31: 202111211608.5 32: 2021-10-18

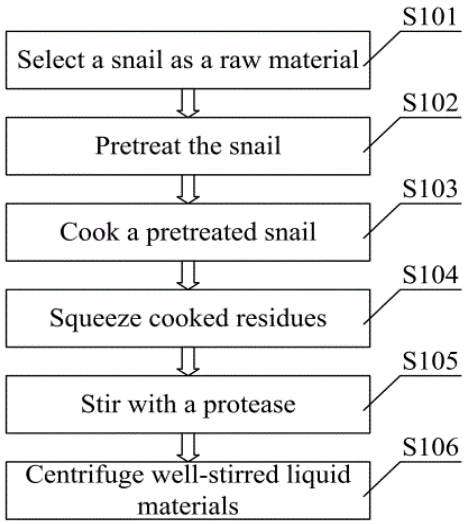
54: APPARATUS FOR GRINDING WELD JOINT OF ANNULAR STEEL TUBE POLE FOR OVERHEAD LINES

00: -

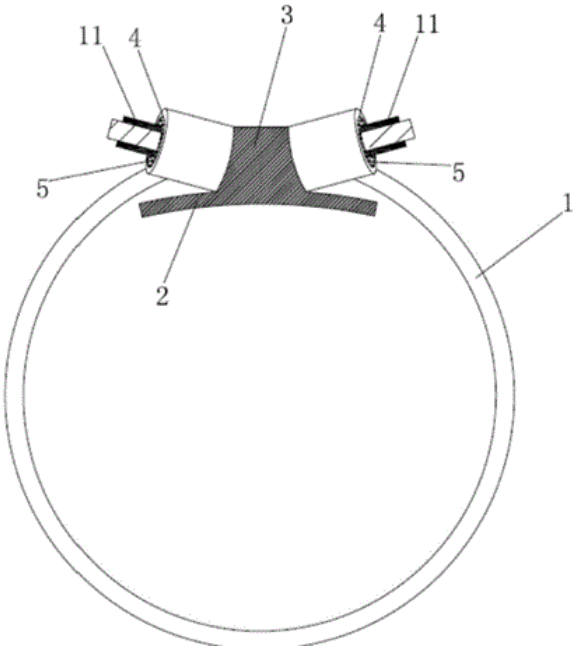
The invention discloses an apparatus for grinding a weld joint of an annular steel tube pole for overhead lines, comprising two rails, a main machine linkage mechanism and a steel tube pole supporting mechanism comprising a large-end carrier roller mechanism and a small-end carrier roller mechanism capable of maintaining the weld joint of the steel tube pole in a horizontal position. The main machine linkage mechanism comprises a base, a left-right walking mechanism, a perpendicular frame, two vertical linear guide rails I, a slider I, a power mechanism driving the slider I to move up and down along the vertical linear guide rails I, a chassis III fixed to a side face of the slider I, a grinding mechanism, and a polishing mechanism. The grinding mechanism and the polishing mechanism is mounted to the chassis III in an up-down fine adjustable and back-forth fine adjustable mode.



21: 2022/10345. 22: 2022/09/19. 43: 2022/12/08
51: A61K; A61Q
71: CHEN, Heping
72: CHEN, Heping
54: EXTRACTION METHOD OF SNAIL ALBUMIN PEPTIDE
00: -
The present disclosure provides an extraction method of a snail albumin peptide, and belongs to the field of albumin peptide extraction. The extraction method of a snail albumin peptide includes the following specific steps: selecting a snail as a raw material, pretreating the snail, cooking a pretreated snail, squeezing cooked residues, stirring with a protease, and centrifuging well-stirred liquid materials. The extraction method can improve utilization of raw materials and avoid wasting the raw materials.



21: 2022/10348. 22: 2022/09/19. 43: 2022/12/08
51: E04G
71: China Institute of Water Resources and Hydropower Research, China Three Gorges Construction Engineering Corporation
72: Lijun Zhao, Tiesheng Dou, Weihua Huang, Hongtao Shi, Hailong Huang
54: PRESTRESSED TENDON ANNULAR ANCHORING DEVICE
00: -
The utility model discloses a prestressed tendon annular anchoring device. The device comprises a prestressing tendon and a wiring harness locking device, the wire harness locking device comprises a wire clamping seat, a wire clamping channel arranged on the wire clamping seat, and an insertion block unit matched with the wire clamping channel. Wherein one end of the wire clamping channel is a wire harness inserting end, the other end of the wire clamping channel is an inserting block inserting end, the inserting block unit is formed by arranging a plurality of inserting blocks in a central symmetry mode, a wire clamping groove is formed among the inserting blocks, the inserting block unit is inserted into the wire clamping channel, and the wire clamping groove clamps the prestressed tendon. Compared with the prior art, the prestressed tendon annular anchoring device has the advantages that the wire harness locking device is simple in structure, convenient to assemble and reliable in locking relation with the prestressed tendons, and the prestressed tendons cannot be loosened or broken; and the design of the protective wear-resistant layer is beneficial to improving the locking strength of the pre-stressed tendon and the wire clamping groove, so that the pre-stressed tendon is not easy to slip off from the wire clamping groove or generate shear failure.

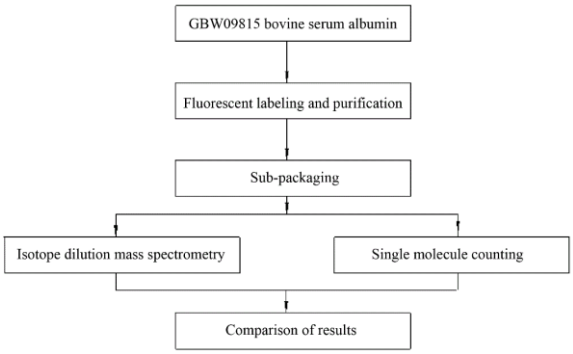


21: 2022/10350. 22: 2022/09/19. 43: 2022/12/08
51: G01N
71: NATIONAL INSTITUTE OF METROLOGY, CHINA
72: WU, Li Qing, YANG, Bin, GAO, Yun Hua, WANG, Di, LIU, Ya Hui, JIN, You Xun, WANG, Jing
33: CN 31: 202010170831.9 32: 2020-03-12

54: BENCHMARK METHOD FOR PROTEIN CONTENT MEASUREMENT BASED ON FLUORESCENTLY LABELED FLOW SINGLE MOLECULE COUNTING

00: -

The method for absolute measurement of protein content based on fluorescently labeled flow single molecule counting in the present invention comprises: preparing or stepwise diluting pure protein to be measured to 0.1 mg/g-1 mg/g with diluent and recording a dilution multiple as D1; fluorescently labeling the diluted protein molecules, such that fluorescent dye binds with each protein molecule; separating the labeled fluorescently labeled protein in the solution from excessive fluorescent dye; continuously diluting the purified fluorescently labeled protein to a concentration of 100-1000 molecule/microL with diluent with a dilution multiple of D2, measuring the mass velocity f of the solution, directly performing flow counting on the fluorescently labeled protein solution with a single molecule analyzer, to obtain a single molecule counting result w; calculating a detection probability p according to geometric sizes of laser spots and capillaries irradiated by the single molecule analyzer; and calculating the mass concentration of the protein solution according to the single molecule counting result w, the mass velocity f, the dilution multiple D and the detection probability p.

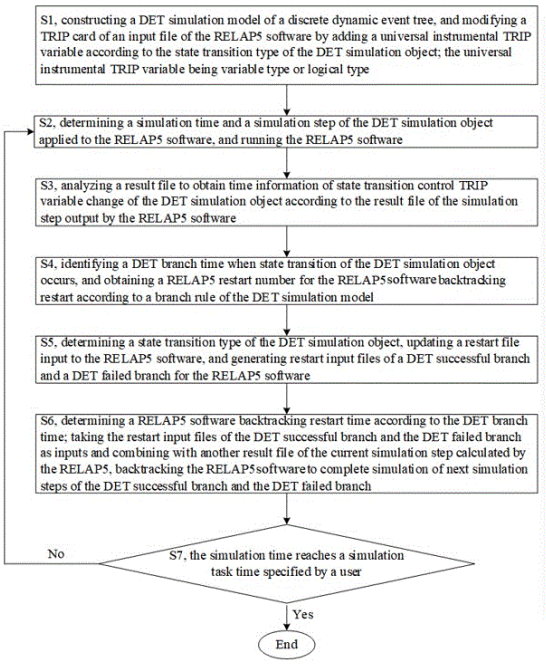


21: 2022/10351. 22: 2022/09/19. 43: 2022/12/08
51: G06F
71: Harbin Engineering University
72: WANG He, WANG Liangjun, SUN Dabin, CHEN Haoyin, XIA Genglei, LI Lei
33: CN 31: 202110270621.1 32: 2021-03-12

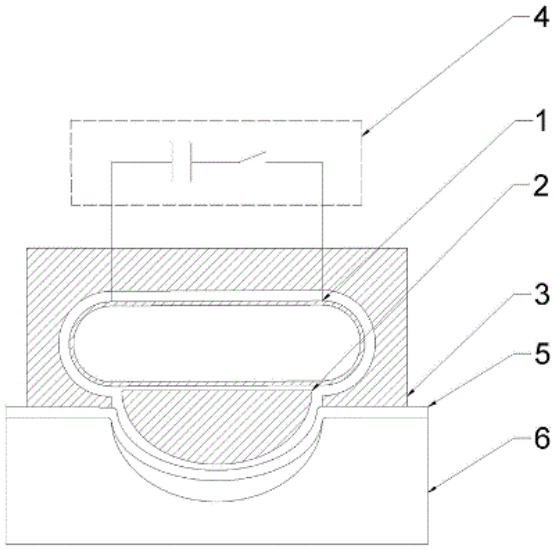
54: DYNAMIC CHARACTERISTIC ANALYSIS METHOD OF DET AND RELAP5 COUPLING BASED ON UNIVERSAL INSTRUMENTAL VARIABLE METHOD

00: -

A dynamic characteristic analysis method of DET and RELAP5 coupling based on a universal instrumental variable method includes steps of: constructing a DET simulation model of a discrete dynamic event tree and modifying TRIP cards of an input file by adding universal instrumental TRIP variables according to state transition types of DET simulation objects, the universal instrumental TRIP variable being variable type or logical type; setting a simulation time of the RELAP5, controlling a simulation step, and analyzing an output result file of each simulation step of the RELAP5; backtracking the RELAP5 according to state transition types of DET simulation objects. The dynamic characteristic analysis method has advantages of simplifying TRIP setting process and method of DET state transition objects in an input file of the RELAP5 required for the coupling of DET and RELAP5, reducing a modeling complexity and improving a modeling efficiency.

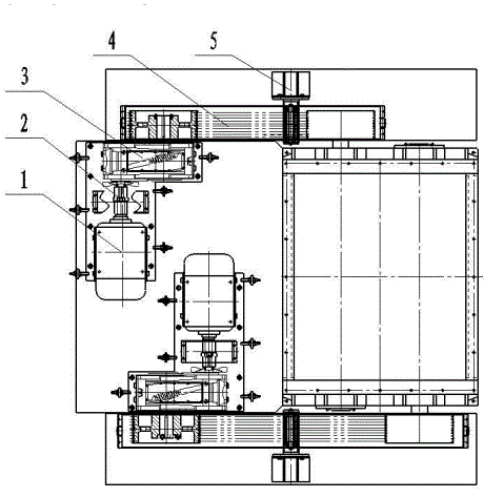


21: 2022/10357. 22: 2022/09/19. 43: 2022/12/08
51: B21D
71: HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: LI, Liang, ZHANG, Zixuan, LAI, Zhipeng, ZHENG, Yu, LI, Changxing, HAN, Xiaotao, CAO, Quanliang
33: CN 31: 202010910854.9 32: 2020-09-02
54: ELECTROMAGNETIC SHAPE RIGHTING DEVICE AND SHAPE RIGHTING METHOD
00: -
The present invention discloses an electromagnetic shape righting device and a shape righting method, and belongs to the technical field of metal forming and manufacturing. The electromagnetic shape righting device includes a uniform pressure driving coil, a magnetic field shaper, a conductive channel and a mold; the uniform pressure driving coil is arranged in the conductive channel; the conductive channel and a to-be-shaped workpiece form a conductive loop; the magnetic field shaper is arranged between the uniform pressure driving coil and the to-be-shaped workpiece; the uniform pressure driving coil generates a pulsed magnetic field around the uniform pressure driving coil through pulse current discharge, and the pulsed magnetic field generates an induced eddy current on a surface of the magnetic field shaper; the magnetic field shaper is matched with the uniform pressure driving coil to generate an induced current in the conductive loop, and the induced current generates pulse electromagnetic force on a to-be-formed area of the to-be-shaped workpiece; and the to-be-formed area of the to-be-shaped workpiece deforms to the mold under the action of the pulse electromagnetic force. According to the electromagnetic shape righting device, the shape righting or multiple forming processes of a workpiece can be flexibly and accurately regulated and controlled through an optimal design of the magnetic field shaper, and the design difficulty and the manufacturing cost of a forming device are effectively reduced.



21: 2022/10381. 22: 2022/09/20. 43: 2022/12/08
51: B02C
71: Tangshan Tianhe Environmental Protection Technology Co., Ltd.
72: XIAO, Lichun, WANG, Jia, LIU, Manping, WENG, Zengyan, WEI, Hongwu, ZHANG, Jianwei, ZHOU, Shuai, YANG, Cuiling, XIANG, Caixia, LIU, Zhicun
54: RIGID-FLEXIBLE COUPLING TYPE HIGH-STRENGTH DOUBLE TOOTHED ROLLER CRUSHER FOR CRUSHING LIMESTONE
00: -
Disclosed is a rigid-flexible coupling type high-strength double toothed roller crusher for crushing limestone. The crusher can effectively eliminate instantaneous impact and vibration generated in a crushing process, such that a hydraulic coupling can be replaced by a high-speed end pin coupler, speed reduction is not needed again, belt slipping

accidents are avoided, and market demands are completely satisfied.

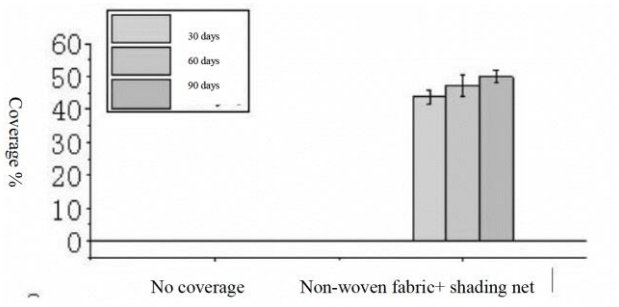


21: 2022/10382. 22: 2022/09/20. 43: 2022/12/08
51: C12N; C12R; E02D
71: Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences
72: ZHAO, Yang, LI, Xinrong, ZHANG, Zhishan, PAN, Yanxia

54: MECHANIZED CONSTRUCTION PROCESS FOR ARTIFICIAL CYANOBACTERIA CRUST CULTURE

00: -

The present disclosure discloses a mechanized construction process for artificial Cyanobacteria crust culture, comprising the steps of: a, sampling Cyanobacteria crust and culturing algae liquid; b. spraying the algae liquid at high pressure, namely filling the Cyanobacteria cultured for 7-10 d and the culture solution into a high-pressure sprayer, starting the high-pressure sprayer to spray to the sand surface, wherein the amount of the sprayed algae liquid is 2 L m-2, and the spraying thickness is 0.2-0.5 mm; c, covering a layer of green non-woven fabric and green shading net on the ground surface sprayed with the algae liquid; d, fixing the shading net by branches or stones and the like to prevent the shading net from being blown away by wind. The formation rate of biocrusts is obviously improved, cost are reduced; the efficiency of sand prevention and control work is further improved; and the soil carbon reserve is improved.

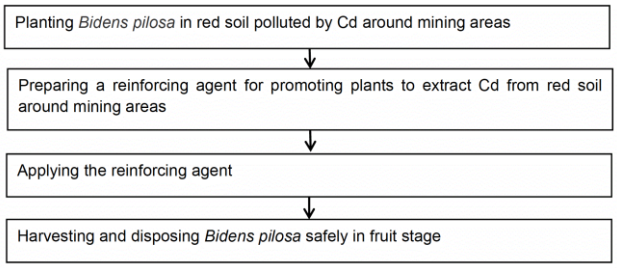


21: 2022/10383. 22: 2022/09/20. 43: 2022/12/08
51: B09C
71: Jiaying University
72: Dong Zhicheng, Zhang Lina, Li Yihong, Cui Fengyan, Wang Lin, Xu Chenhao, Feng Shanshan, Wu Jianheng, Liu Youcun, Chen Junhua
33: CN 31: 202211074889.9 32: 2022-09-02

54: A METHOD FOR PROMOTING PLANTS TO EXTRACT CD FROM RED SOIL AROUND MINING AREAS

00: -

The invention discloses a method for promoting plants to extract Cd from red soil around mining areas by using reinforcing agent. The method includes planting Bidens pilosa on red soil polluted by Cd around mining areas, preparing and uniformly injecting the reinforcing agent into the soil in vigorous growth period of Bidens pilosa, harvesting Bidens pilosa in fruit period and disposing it safely. The method of using seaweed extract-CaCl2 to promote Bidens pilosa to extract Cd from red soil around mining areas not only promotes the growth of Bidens pilosa, but also promotes its ability to absorb and enrich Cd from red soil around mining areas, especially improves its extraction efficiency of Cd from red soil around mining areas, and provides new reference, new ideas, new methods and new technologies for phytoremediation of heavy metal polluted soil.



21: 2022/10384. 22: 2022/09/20. 43: 2022/12/08
51: A01K

71: Shanghai Academy of Agricultural Sciences, Shanghai Ocean University
72: Wenzong ZHOU, Weiwei LV, Qinghua ZHANG, Quan YUAN, Xiaolin SUN, Weiwei HUANG, Mingyou LI, Dong LIU, Lang GUI

54: METHOD FOR CULTURING ASIAN SWAMP EEL, CRAYFISH, AND CHINESE SOFT-SHELLED TURTLES IN SAME POND BY UTILIZING S-SHAPED DITCH

00: -

The present disclosure discloses a method for culturing Asian swamp eel, crayfish, and Chinese soft-shelled turtles in the same pond by utilizing an S-shaped ditch. The method includes the following steps: (1) digging the S-shaped ditch; (2) hoisting a culture net cage; (3) carrying out seed stocking: stocking Asian swamp eel by the culture net cage and stocking the crayfish and the Chinese soft-shelled turtles outside the S-shaped ditch; and (4) carrying out feed feeding: salvaging food residues of the Asian swamp eel in the morning every day, and uniformly spreading the food residues on the water surface outside the culture net cage in the S-shaped ditch, so that the crayfish and the Chinese soft-shelled turtles freely ingest. According to the present disclosure, the culture space and time are sufficiently utilized by the S-shaped ditch, more mud ridges are arranged to improve the survival rate of the crayfish and the Chinese soft-shelled turtles, and a residual Asian swamp eel feed is sufficiently and reasonably utilized so as to reduce the feed cost, reduce pollution to the culture water, and increase the culture comprehensive benefits.

21: 2022/10385. 22: 2022/09/20. 43: 2022/12/08
51: A23L; C11D
71: Sichuan food fermentation industry research and Design Institute Co., Ltd
72: BAI, Hongmei, YOU, Jinggang, ZHOU, Zelin, CHEN, Yimeng, ZHANG, Li, YIN, Xiangdong, MAO, Pengyu, GAO, Lihong

54: CLEANING AGENT FOR REMOVING PESTICIDE RESIDUES AND PREPARATION METHOD THEREOF

00: -

The present invention discloses a cleaning agent for removing pesticide residues and a preparation method thereof. The method includes the following steps: pretreating mango peels and kernels as well as auxiliary materials, mixing these materials with brown sugar and water in proportion, leaving the mixture to stand for 24 h, inoculating a yeast activation solution into the mixture, placing the mixture in a constant-temperature and constant-humidity environment to obtain a fermentation product, inoculating probiotics for second-stage fermentation, filtering the second-stage fermentation solution to obtain a filtrate, i.e., the cleaning agent for removing pesticide residues, and conducting sterilization and filling on the cleaning agent for removing pesticide residues. Residual organic molecules of pesticides on surfaces of fruits and vegetables can be degraded by using the ferment produced through plant fermentation as a base and supplementing various natural ingredients, so that the cleaning agent is safe and harmless to human skin.

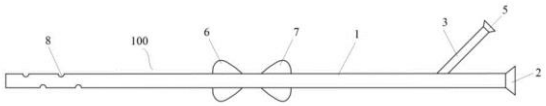
21: 2022/10386. 22: 2022/09/20. 43: 2022/11/23
51: A23K
71: AGRICULTURAL SCIENCE RESEARCH INSTITUTE OF JIANGSU COASTAL AREAS
72: DONG, Jing, XING, Jincheng, JIN, Chongfu, HONG, Lizhou, LIU, Chong, CHEN, Yingjiang, ZHU, Xiaomei, HE, Tingting, ZHAO, Xiaohui, CHEN, Huanyu, WANG, Kai, YU, Kai, SUN, Guoli, HE, Sunan
33: CN 31: 202210144724.8 32: 2022-02-10

54: LICK BLOCK PREPARED FROM PLANT SALT

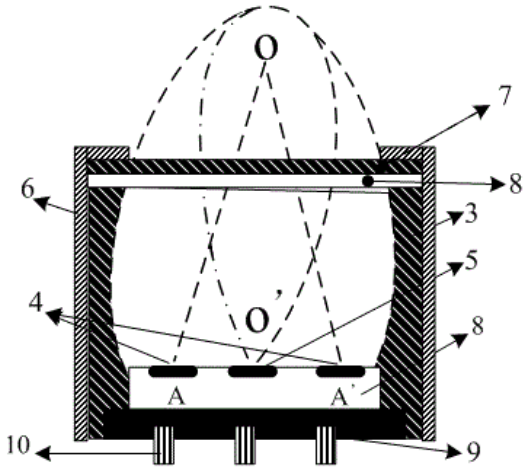
00: -

The present invention relates to the field of livestock, and specifically relates to a lick block prepared from plant salt. 20-25 parts of plant salt and 1-1.5 parts of molasses are uniformly mixed, and the mixture is pressed to obtain the lick block. A preparation method of the plant salt comprises the following steps: cutting fresh stems and leaves of Suaeda salsa and Spartina alterniflora that are planted in coastal shoals into pieces, processing the pieces with a colloid grinder after ultrasonic cleaning to obtain suspension; adding enzyme liquid and stirring; adding hydrochloric acid and performing microwave processing; adjusting the pH of the obtained liquid to be neutral with NaOH; and filtering to obtain filtrate, removing heavy metals and performing spray drying, to obtain the plant salt. The lick block can provide salt, and supplement polysaccharides, flavonoids and the like required by the livestock, to improve meat quality.

21: 2022/10438. 22: 2022/09/21. 43: 2022/11/21
51: A61M
71: ZHANG, Wei
72: ZHANG, Wei
54: ANTI-LEAKAGE DRAINAGE TUBE
00: -
Disclosed is an anti-leakage drainage tube. The anti-leakage drainage tube includes a tube body, a water injection tube, a first water bag and a second water bag, where the tube body is provided with a drainage port and side drainage holes, and the water injection tube is arranged on one side of the tube body and used for injecting water into the first water bag and the second water bag. Normal saline is injected into the first water bag and the second water bag by means of the water injection tube, thereby sealing a gap between the anti-leakage drainage tube and a thoracic wall or an abdominal wall to achieve an effect of preventing hydrothorax or ascites from leaking and an effect of fixing the tube body. The anti-leakage drainage tube can prevent hydrothorax or ascites from leaking, is convenient to fix and is less likely to fall off.

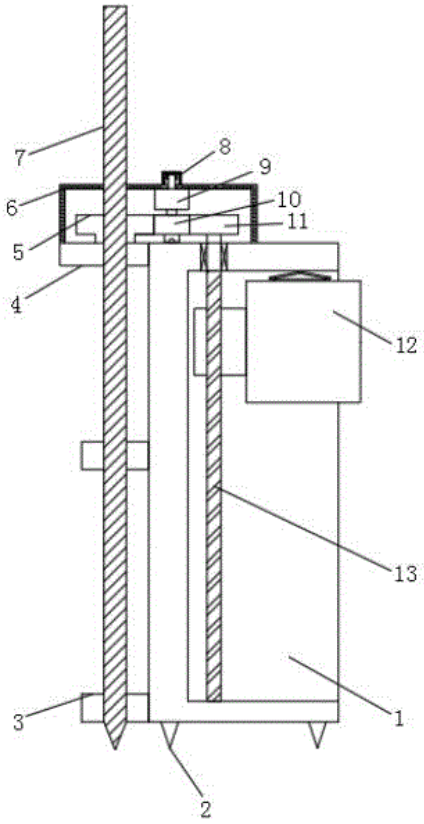


21: 2022/10439. 22: 2022/09/21. 43: 2022/11/21
51: G01N
71: North University of China
72: TAN, Qiulin, ZHANG, Lei, LIANG, Xiaorui, XIONG, Jijun, ZHANG, Wendong
54: INFRARED GAS SENSOR WITH GAS CHAMBER PACKAGED INTEGRALLY
00: -
Disclosed is an infrared gas sensor with a gas chamber packaged integrally. The infrared gas sensor includes the gas chamber, an infrared light source and sensitive elements; the gas chamber includes a top plane (2), a bottom plane and an elliptical inner wall; and two rotating ellipses (1) have a common focus O, a light source 5 is located at a point O' on the bottom plane, and the point O' and lower focuses A and A'' of the elliptical inner wall share one horizontal plane. The gas chamber with a packaging function is designed to be a reflection type; and a wafer-level alignment bonding technology is used. Moreover, the gas chamber uses a gold-plated ellipsoid design, and an infrared light beam is incident on the sensor in parallel, such that infrared reflectivity is improved, and a loss in a light conduction process is reduced.

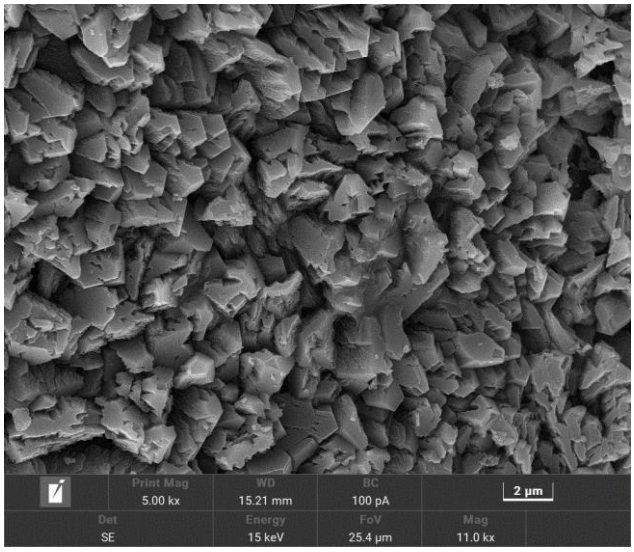


21: 2022/10440. 22: 2022/09/21. 43: 2022/11/21
51: G01N
71: Jilin Provincial Academy of Forestry sciences
72: Limin Zhang, Jun Ren, Guixiang Jin, Mengyan Lyu, Siyu Chen
54: A DISTRIBUTED COLLECTION DEVICE FOR FOREST CARBON SINK DETECTION AND ITS APPLICATION METHOD
00: -
The invention discloses a distributed collection device for forest carbon sink detection and its using method. In the field of forest carbon sink detection technology and its application method, including a frame body, the lower end of the frame body is fixedly connected with a limiting needle, and one side of the frame body is fixedly connected with a limiting plate. The internal thread of the limiting plate is perforated with a screw rod, and the upper end of the external position of the screw rod is provided with a driving mechanism; The driving mechanism comprises a motor, a protective frame, a supporting plate, a moving gear, a rotating gear sleeve, an adjusting gear and an adjusting screw rod, and the supporting plate is fixedly connected to the upper end of one side of the frame body. The protective enclosure is fixed to the upper end face of the support plate and the enclosure. The rotating gear sleeve is inserted in the inner of the support plate through the bearing, which can greatly improve the adjustment efficiency of the collection device, and can quickly adjust the function of the collection

device for different heights of data collection according to the use.



21: 2022/10441. 22: 2022/09/21. 43: 2022/11/21
51: C04B
71: Kunming University of Science and Technology
72: LI Wengang, MA Liping, HOU Peixin, QING Sancheng, YIN Xia, AO Ran, DAI Quxiu
33: CN 31: 202210513995.6 32: 2022-05-12
54: HIGH-STRENGTH PHOSPHOGYPSUM-BASED RECYCLED AGGREGATE AND PREPARATION METHOD THEREOF
00: -
This invention discloses a high-strength phosphogypsum-based recycled aggregate,and its components include phosphogypsum, slag powder, cement clinker, steel slag powder, fly ash, silica fume and pipe pile residual slurry. The preparation method is to add the mixed material formed by adding water after the material mixing treatment into the ring mold granulating machine, press the material with the ring mold and the pressure roller for molding, and then conduct carbonization curing and natural curing. The invention has the advantages that the preparation process of high-strength phosphogypsum-based recycled aggregate is simple and easy to implement; the particle size of the recycled aggregate prepared by the invention is 3-28 mm; when the phosphogypsum content is less than 85 percent, the crushing index of the recycled aggregate prepared meets the building crushed stone standard, and may be widely applied to the fields of sponge city permeable brick preparation, wall block preparation, road water stabilizing material preparation and the like; and the recycled aggregate prepared when the content of phosphogypsum is greater than or equal to 85 percent has good strength performance in the goaf backfilling field of various mining areas. It may replace natural crushed stones and is conducive to energy conservation and environmental protection.



21: 2022/10442. 22: 2022/09/21. 43: 2022/11/21
51: A23L
71: Suizhou Shengfa Ecological Agricultural Technology Co., Ltd.
72: Tianfeng Li
54: A DIETARY THERAPY PACKET SOUP FOR SPLEEN-FORTIFYING AND STOMACH-NOURISHING
00: -
The invention discloses a dietary therapy packet soup for spleen-fortifying and stomach-nourishing, consisting of the following components in parts by mass: 10-20 parts of lycium Chinense, 5-15 parts of dried orange peel, 40-50 parts of coix lacryma-jobi, 5-15 parts of Chinese jujube, 10-30 parts of wolfiporia extensa, 3-5 parts of ginseng, 20-30 parts of nutmeg, 20-30 parts of crataegus pinnatifida, 10-

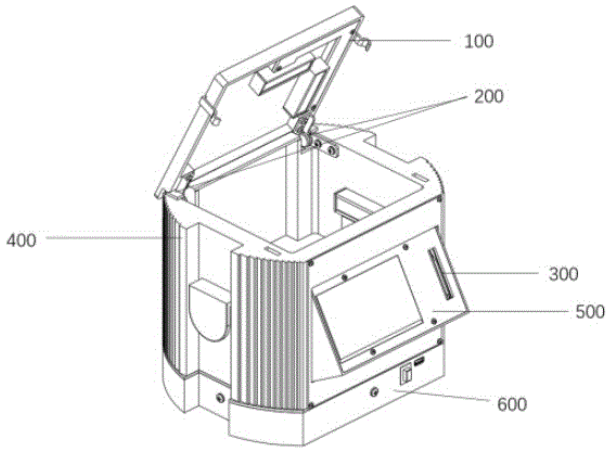
20 parts of astragalus propinquus, 10-20 parts of wurfbainia villosa, 40-50 parts of malt, 40-50 parts of chicken's gizzard-membrane, 3-8 parts of donkey-hide gelatin, 2-6 parts of roasted fructus aurantii immaturus, 5-25 parts of glycyrrhiza uralensis, 10-30 parts of atractylodes macrocephala, 30-40 parts of honey. The raw materials of the invention are selected from the Chinese medicine with the characters of homology of medicine and food, which are calm in nature and allow people to reduce sickness and pains in the process of enjoying delicious food; and the invention is of homology of medicine and food, which can effectively improve digestion, regulate the spleen and stomach, and have a health-care effect on symptoms such as syndrome of fluid injury due to stomach dryness and deficiency of stomach yin, with strong therapeutic effect.

21: 2022/10443. 22: 2022/09/21. 43: 2022/11/21
51: G06K
71: SHANGHAI OCEAN UNIVERSITY
72: LIU Bilin, GU Xinyu, WANG Bingyan, KONG Xianghong, LI Jianhua

54: AI DISCRIMINATION AND CLASSIFICATION DEVICE FOR CEPHALOPOD BEAKS

00: -

The invention discloses an AI discrimination and classification device for cephalopod beak, which comprises an image generating device, wherein the image generating device comprises a box body and a stage fixedly installed in the box body; a glass slide is placed on the stage; the top of the box body is rotatably provided with a cover body through a hinge assembly; the bottom of the box body is fixedly provided with an image processing device; the data display device is obliquely and fixedly installed on the outer side wall of the box body; the data display device is located away from the hinge assembly. The method is used for collecting morphological data of cephalopod beaks, extracting population characteristics, identifying species and estimating resource quantity, realizing the intellectualization of data acquisition of cephalopod beaks, and promoting the intelligent and automatic development of fishery.

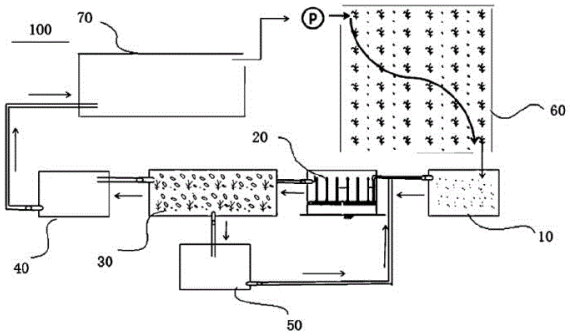


21: 2022/10446. 22: 2022/09/21. 43: 2022/11/21
51: C02F
71: China Institute of Water Resources and Hydropower Research
72: GAO, Bo, XU, Dongyu, PENG, Wenqi, WAN, Xiaohong, LI, Bao, LIU, Xiaoru, ZHANG, Weijie, WU, Shubao, GAO, Wanchao, NI, Jie

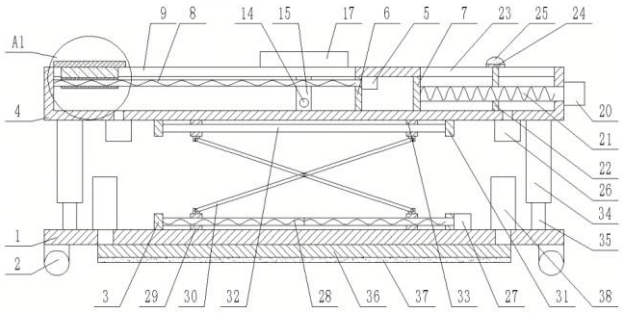
54: AN ECOLOGICAL CANAL AND POND PURIFICATION SYSTEM AND PURIFICATION METHOD BASED ON HEAVY METALS IN FIELD BACKWATER

00: -

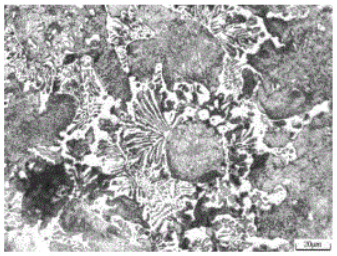
The invention provides an ecological canal and pond purification system and a purification method based on heavy metals in field backwater, and the system comprises: a sedimentation tank used to communicate with the farmland for flowing field backwater from the farmland into the sedimentation tank, the sedimentation tank containing a metal sedimentation regulator for allowing heavy metals in the field backwater to settle. According to the system of the embodiment of the invention, the field backwater polluted by heavy metals is transferred to the ecological canal and pond purification system by communicating the farmland with the sedimentation tank, the sedimentation tank with the pollution-reducing canal, the pollution-reducing canal with the ecological pond, and the ecological pond with the water reservoir. After the sedimentation, the adsorptive substrate and the plant adsorption, the field backwater reaching the standard can be reused without secondary pollution.



21: 2022/10447. 22: 2022/09/21. 43: 2022/11/21
51: A61B
71: HENAN PROVINCIAL PEOPLE'S HOSPITAL
72: LI Yongli, ZOU Zhi, LI Zhonglin, WU Xiaoling, ZHOU Jing, DOU Shewei, SUN Yongbing, YAN Fengshan, ZOU Lijun
33: CN 31: 202210841162.2 32: 2022-07-18
54: FIXED AUXILIARY INSPECTION EQUIPMENT FOR IMAGE INSPECTION
00: -
The invention discloses a fixed auxiliary inspection equipment for image inspection, which comprises four corners of the bottom surface of the bottom plate are fixedly connected with universal wheels respectively, and a positioning mechanism is arranged on the top surface of the bottom plate; two driving seats are fixedly connected to the two sides of the top surface of the bottom plate, a lifting mechanism is arranged between the two driving seats, the top of the lifting mechanism is provided with a limiting mechanism, and the four corners of the top surface of the bottom plate are respectively provided with guiding mechanisms; the bottom surface of the fixed housing is fixedly connected with the top surface of the guiding mechanism and the top surface of the limiting mechanism respectively; one side of the fixed housing is provided with a head adjusting mechanism, the top of which extends from the top of the fixed housing; the other side of the fixed housing is provided with a transmission mechanism, the top of the transmission mechanism extends from the top of the fixed housing; the middle of the inner cavity of the fixed housing is provided with a hip fixing mechanism; the top of the hip fixing mechanism extends from the other two sides of the fixed housing; and the two sides of the bottom surface of the fixed housing are respectively provided with air drying devices. The invention can facilitate patients with different heights to lie on the top surface of the fixed housing for examination.



21: 2022/10448. 22: 2022/09/21. 43: 2022/11/21
51: B22D; C21D; C22C
71: SINOSTEEL XINGTAI MACHINERY AND MILL ROLL CO.,LTD.
72: LIU, Di, HU, Bing, MA, Fengchuan
33: CN 31: 202111546512.4 32: 2021-12-16
54: MANUFACTURING METHOD OF HIGH-SPEED STEEL WORK ROLL FOR FINISHING HOT-ROLLED STRIP
00: -
Disclosed is a manufacturing method of a high-speed steel work roll for finishing a hot-rolled strip, which belongs to the technical field of roll materials. The manufacturing method describes the chemical composition range, manufacturing steps and technical process parameters for the work roll. By researching on the material and technical process, a high-speed steel work roll with high surface quality, high accident resistance and high wear resistance is developed for a hot-rolled strip finishing stand, especially for a finished product stand. The work roll is more suitable to be used in finished stands or final product stands of rolling lines which calls for longer service life of mill rolls.



21: 2022/10449. 22: 2022/09/21. 43: 2022/11/21
51: A01K
71: Guizhou Sericulture Research Institute (Guizhou Pepper Research Institute), Bijie Huijiang Sericulture Development Co., Ltd., Guizhou Liangjingjing

Biotechnology Co., Ltd., Guizhou Tongue Blooming Food Co., Ltd.
72: LUO, Chaobin, YE, Zhanfeng, QING, Zhuo, SUN, Yunpeng, YANG, Wanjun, REN, Xiaoxiao, CHEN, Biao, XING, Dan, LIN, Xiqun, ZHANG, Yingxiang
54: SILKWORM BREEDING METHOD
00: -
A silkworm breeding method. In the present disclosure, according to the law of population genetic deviation, by ensuring the leaf quality in fixed leaf positions and adopting the standard temperature and humidity stress method in spring, 8 parents of two varieties with different purposes are used as materials to select for 8 generations continuously to obtain 8 strains with high cocoon fiber weight, then the strains with strong disease resistance are selected from the 8 strains with high cocoon fiber weight obtained in the early stage under the stress conditions of high temperature and dry environment and poor leaf quality in autumn, finally 8 strains with high cocoon fiber weight and strong disease resistance are obtained; these strains are combined with varieties for different purposes, and then breeding research is carried out according to the requirements for silkworm variety breeding, finally a silkworm variety with high-quality cocoon silk is bred.

21: 2022/10450. 22: 2022/09/21. 43: 2022/11/21
51: C04B
71: China Railway Seventh Bureau Group Nanjing Engineering Co., Ltd.
72: LI, Fuqiang, MAO, Sanhua, LI, Yongkang, YAO, Jianrong, FENG, Xiaoning, XU, Gaohe, YANG, Fan, XI, Kangli, SONG, Zhizhao, CUI, Wenshuang
54: FORMULATION FOR CONTROL OF SHOTCRETE REBOUND
00: -
The invention discloses a formulation for control of shotcrete rebound, and the material mix ratios of the shotcrete are as follows: sand gravel ratio : 45% to 55%, cement dosage : 424 kg/m3 to 464 kg/m3, water- water cement ratio : 0.39 to 0.43. Type of admixture: mekralon, chopped basalt fiber, ultra-high performance synthetic fiber. Admixture dosage: 0.08% ~ 0.12%. Main steps: Step 1: first, control the data such as sand coarse aggregate ratio, cement dosage, admixture dosage and water cement ratio by indoor tests, and record the resulting rebound rate of shotcrete when the proportion of each influencing factor changes. By combining the field monitoring measurement data and numerical simulation analysis to study the deformation mechanism and stability analysis of the tunnel support structure, the invention largely solves the technical problems of serious tunnel overexcavation and high rebound loss of shotcrete, and has high in social and economic value, production practice value, scientific research and academic value.

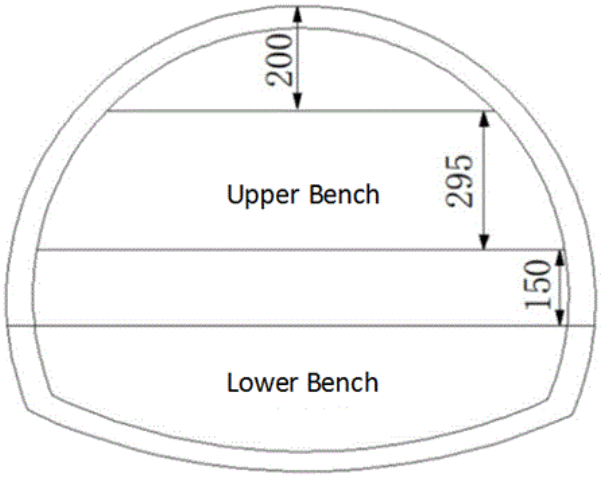
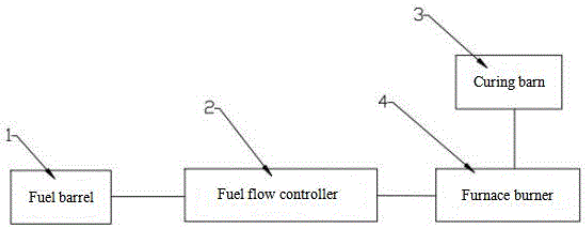


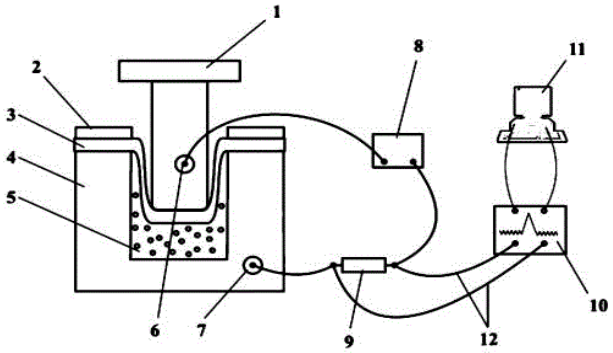
FIG.1

21: 2022/10451. 22: 2022/09/21. 43: 2022/11/21
51: A23B
71: Fulin Liao
72: Fulin Liao
54: A PROCESS FOR CURING FRESH TOBACCO LEAVES WITH LIQUID FUEL
00: -
The invention relates to a process for curing fresh tobacco leaves with liquid fuel, comprising a fuel barrel, a fuel flow controller and a curing barn. A furnace burner is installed in the curing barn, the fuel barrel is connected to the furnace burner, and the fuel flow controller is connected between the fuel barrel and the furnace burner. The process specifically comprises the following steps: 1: loading tobacco leaves; 2: yellowing stage: after filling the tobacco leaves, start the furnace burner, adjust the fuel flow controller, and raise the temperature of the curing barn to 34 degrees C-38 degrees C at a rate of 1 degrees C per hour; 3: color fixing stage: adjust the fuel flow controller to raise the temperature of the curing barn up to 54 degrees C-55 degrees C at a rate of 1 degrees C every 2-3 hours; 4: stern drying stage: adjust the fuel flow controller to raise the

temperature of the curing barn to 67degrees C-69 degrees C at a rate of 1 degrees C per hour, stabilize the temperature until the stern of all tobacco leaves are completely dry. The beneficial effects are: energy saving, emission reduction, environmental protection, time and labor saving, value appreciation and income increasing.



21: 2022/10452. 22: 2022/09/21. 43: 2022/11/21
51: G01N
71: SPECIAL EQUIPMENT SAFETY SUPERVISION INSPECTION INSTITUTE OF JIANGSU PROVINCE
72: WEN, Jiongming
33: CN 31: 202211087020.8 32: 2022-09-07
54: FULL-AUTOMATIC METHOD AND DEVICE FOR ENVIRONMENTAL STRESS CRACKING RESISTANCE TEST OF POLYETHYLENE
00: -
The present invention relates to the technical field of polyethylene environmental stress cracking test, in particular to a full-automatic test method and device for environmental stress cracking resistance of polyethylene. The device comprises a pressure head, a fixing piece, a cup, a first electrode, a second electrode, a power supply, a resistor, a paperless recorder and a data processing device; the cup has a cup-shaped structure and is conductive, and the pressure head 1 is arranged above the cup; the fixing piece is used for fixing a sample and an edge of the upper part of the cup together; two ends of the first electrode are respectively connected with the pressure head and the power supply; two ends of the second electrode are respectively connected with the cup and the resistor; the resistor is connected with the power supply; the paperless recorder is connected in parallel at both ends of the resistor; and the data processing device is connected with the paperless recorder. According to solutions of the present invention, while testing time of existing testing method is obviously shortened, crack generation time of the test sample can be automatically recorded, and the solutions have characteristics of high repeatability and low cost.



21: 2022/10454. 22: 2022/09/21. 43: 2022/11/21
51: A61K
71: Guangsheng Zhang
72: Guangsheng Zhang
54: A MEDICATION FOR TREATING HEART FAILURE AND A PREPARATION METHOD THEREOF
00: -
The invention discloses a medication for treating heart failure, comprising the following components in parts by weight: 20-30 parts of Radix Astragali seu Hedysari, 15-25 parts of Radix Astragali seu Hedysari, 20-40 parts of Cortex Magnoliae Officinalis, 20-30 parts of Semen Armeniacae Amarum, 20-30 parts of Pericarpium Citri Reticulatae, 30-56 parts of Rhizoma Pinelliae, 15-25 parts of Radix Glycyrrhizae, 25-35 parts of Radix Aconiti Lateralis Preparata, 20-32 parts of Radix Platycodonis, 20-40 parts of Herba Ephedrae, 24-30 parts of Brassica Alba Boiss, 20-30 parts of Radix Asteris, 15-25 parts of Ramulus Cinnamomi, 25-35 parts of coix. The invention has great practicability and functionality, and can be widely used in the technical field of traditional Chinese medicine.

21: 2022/10455. 22: 2022/09/21. 43: 2022/11/21
51: A61K
71: Furong Zhang
72: Furong Zhang, Fan Wang
54: A MEDICATION FOR TREATING GYNECOLOGICAL AND ANDROLOGICAL DISEASES
00: -
The invention discloses a medication for treating gynecological and andrological diseases, comprising

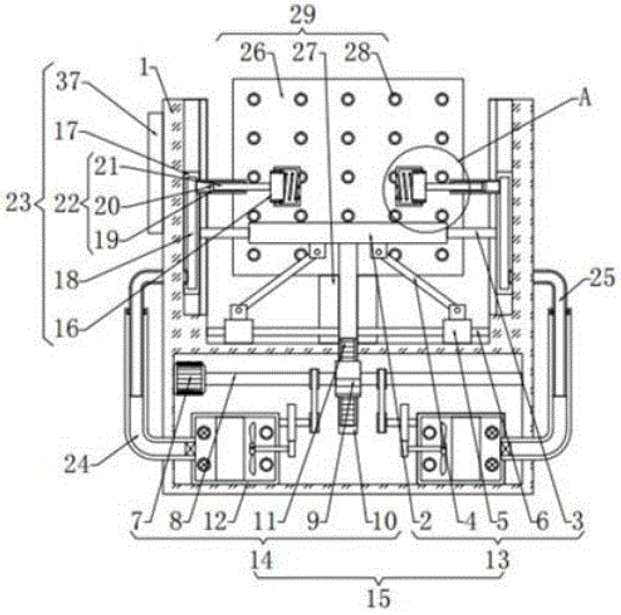
Ramulus Cinnamomi, Rhizoma Sparganii, Rhizoma Curcumae, Hirudo, Lumbricus, Sargentodoxa, Thallus Laminariae, Herba Patriniae, Rhizoma Polygoni Cuspidati, Myrrha, Radix Aconiti Lateralis Preparata, Fructus Liquidambaris, Semen Vaccariae, Herba Asari, Herba Hedyotis, Fructus Cnidii and honey. The medicines of the invention have synergistic effects with each other, and can be used for treating infertility, abnormal leucorrhea, adnexitis, pelvic inflammatory disease, vaginitis, cervicitis, cervical ectropion, hysteromyoma, ovarian cysts, uterine prolapse, fallopian tube block, dysmenorrhea, menstrual disorders, amenorrhea, endocrine dyscrasia, habitual abortion, postpartum backache and pain, prolonged lochia and bleeding, frigidity, congenital uterine and ovarian dysplasia, endometriosis and other gynecological diseases. It can also be used to treat andrological diseases, such as prostatitis, benign prostatic hyperplasia and calcification, varicocele, non-liquefaction of semen, asthenozoospermia, oligospermia, testicular dysplasia, epididymitis and other male infertility diseases.

21: 2022/10456. 22: 2022/09/21. 43: 2022/11/21
51: G01H
71: Shuifa Chixiang Electric (Shandong) Co., Ltd.
72: Feifan Kong, Jilan Zhang, Xiaolei Chen, Yanyan Wang, Zhenguang Shan

54: MECHANICAL PART DETECTION WORKING DEVICE

00: -

The invention relates to the field of mechanical part detection, and in particular, relates to a mechanical part detection working device which comprises a supporting frame, a detection mechanism, an extrusion mechanism and a driving assembly; the detection mechanism is arranged on the inner side of the supporting frame and used for vibrating packaging products located on the inner side of the supporting frame; the extrusion mechanism is in sliding connection with the supporting frame, is connected with the detection mechanism and is used for being matched with the detection mechanism to extrude the packaging products located on the detection mechanism; the detection mechanism comprises a placing assembly used for supporting the packaging products, and the placing assembly is arranged on the inner side of the supporting frame; and the driving assembly is arranged on the inner side of the supporting frame and connected with the placing assembly and the extrusion mechanism. By arranging the detection mechanism and the extrusion mechanism, the driving assembly not only can achieve vibration detection on the packaging products, but also can drive the extrusion mechanism to conduct extrusion test on the packaging products located on the placing assembly, and the detection efficiency of people on the packaging products is greatly improved.



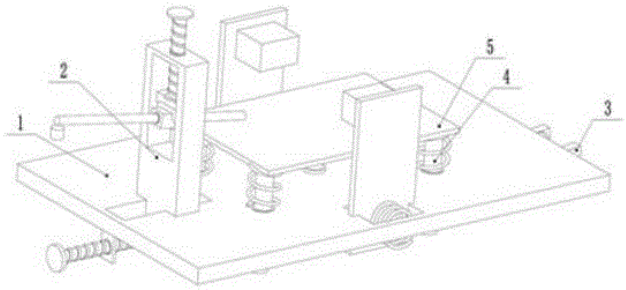
21: 2022/10457. 22: 2022/09/21. 43: 2022/11/21
51: G01H
71: Shuifa Chixiang Electric (Shandong) Co., Ltd.
72: Feifan Kong, Jilan Zhang, Quanli Cheng, Na Xie, Xiancai Ren

54: TRANSFORMER VIBRATION DETECTION DEVICE

00: -

The invention relates to the technical field of transformer vibration detection, and discloses a transformer vibration detection device, which comprises a workbench, a guide rod is slidably connected in the middle of the workbench, a support plate is provided at the end of the guide rod away from the ground, and a lateral vibration detection mechanism and a vertical vibration detection mechanism are also included; The lateral vibration detection mechanism comprises a first sliding slot arranged at the end of the workbench, the first

sliding slot is slidably connected to the sliding seat, the side of the sliding seat away from the ground is provided with a second sliding slot, the second sliding slot is slidably connected to the sliding block, and the sliding sleeve is rotatably connected to the sliding block; The vertical vibration detection mechanism is arranged on the side of the workbench near the ground, and comprises a second fixing plate fixedly connected with the workbench. The invention is applicable to a transformer vibration detection device. By setting a lateral vibration detection mechanism and a vertical vibration detection mechanism, both the lateral and vertical directions of the transformer can be well detected.

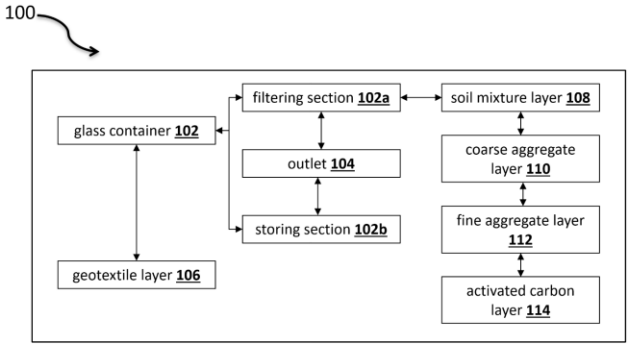


21: 2022/10459. 22: 2022/09/21. 43: 2022/11/21
51: C02F
71: Dr. Shankar B.S, Dr. Gayathri H.N, Sreevidya Raman, Mahadeva Raju
72: Dr. Shankar B.S, Dr. Gayathri H.N, Sreevidya Raman, Mahadeva Raju

54: A WASTEWATER TREATMENT SYSTEM USING COMBINATION OF DIFFERENT GRADED SOILS

00: -

The present invention generally relates to a wastewater treatment system using a combination of different graded soils, comprising of a glass container having a filtering section and a storing section, wherein the filtering section comprises: a soil mixture layer; a coarse aggregate layer arranged below the soil mixture layer; a fine aggregate layer laid below the coarse aggregate layer; an activated carbon layer placed beneath the fine aggregate layer; an outlet coupled in between the filtering and storing section for collecting purified water to the storing section; and a geotextile layer disposed from the inner side wall of the filtering section of the glass container.

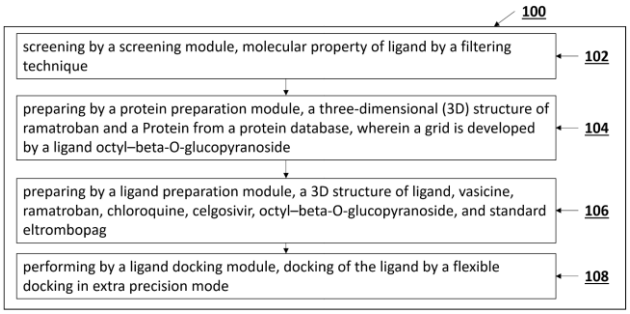


21: 2022/10460. 22: 2022/09/21. 43: 2022/11/21
51: A61K
71: PUGAZHENTHAN THANGARAJU, GOPINATHAN NARASIMHAN, VIJAYAKUMAR ARUMUGAM RAMAMURTHY, MEENALOTCHINI GURUNTHALINGAM, SREE SUDHA TANGUTURI YELLA, SAJITHA VENKATESAN, ESWARAN THANGARAJU
72: PUGAZHENTHAN THANGARAJU, GOPINATHAN NARASIMHAN, VIJAYAKUMAR ARUMUGAM RAMAMURTHY, MEENALOTCHINI GURUNTHALINGAM, SREE SUDHA TANGUTURI YELLA, SAJITHA VENKATESAN, ESWARAN THANGARAJU

54: A DEVICE AND A METHOD FOR ANALYZING ADHATODA VASICA FOR REDUCING DENGUE COMPLICATIONS

00: -

A method (100) and a device (200) for analyzing Adhatoda vasica for reducing dengue complications, comprises of: screening by a screening module (202), molecular property of ligand by a filtering technique; preparing by a protein preparation module (204), a three-dimensional (3D) structure of ramatroban and a Protein from a protein database, wherein a grid is developed by a ligand octyl–beta-O-glucopyranoside; preparing by a ligand preparation module (206), a 3D structure of ligand, vasicine, ramatroban, chloroquine, celgosivir, octyl–beta-O-glucopyranoside, and standard eltrombopag; and performing by a ligand docking module (208), docking of the ligand by a flexible docking in extra precision mode.



21: 2022/10462. 22: 2022/09/21. 43: 2022/11/21
51: B29C
71: Suzhou Shensai New Materials Co., Ltd
72: Jiang Xiulei, Li Qijun, Yu Jiabao
33: CN 31: 202010157235.7 32: 2020-03-09

54: AN IN-MOLD ONE-STEP FOAMING MOLDING PROCESS AND THE FOAMED PRODUCTS

00: -

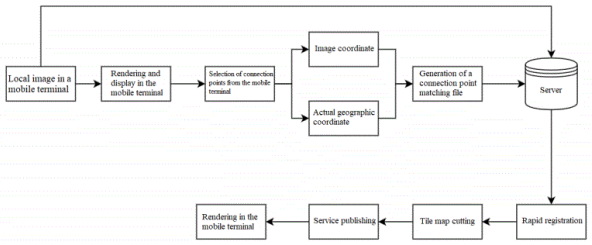
The invention provides an in-mold one-step foaming molding process and it comprises the following steps: S1, pre-soaking resin beads in supercritical gas to obtain beads to be foamed; S2, transferring the beads to be foamed into a mold, introducing wet air into the mold, and heating the beads to be foamed and the wet air with microwave; S3, exhausting, foaming and molding to obtain the foamed products. And the foam products obtained by one-step molding of that invention have no internal defects and good performance; Microwave heating beads to be foamed has high thermal efficiency, and deep heat transfer and short heating time; The mold made of nonpolar materials with dense small holes on the upper and lower surfaces is easy to process and low in cost, and an blowing device is set below the mold to ensure that the beads are in the fluidized state during microwave irradiation, and are heated evenly without generating stacking defects; The supercritical fluid is used as physical foaming agent to soak and foam, the production process is green and environmentally friendly, and it is suitable for industrial production.

21: 2022/10479. 22: 2022/09/21. 43: 2022/11/21
51: G06T
71: CHECC DATA CO., LTD., CHINA HIGHWAY ENGINEERING CONSULTANTS CORPORATION
72: ZHANG, Yunling, YANG, Xuan, HOU, Yun, CUI, Yuping, DONG, Yuanshuai, ZHANG, Peng, HU, Lin, SONG, Zhangliang, CUI, Li, ZHANG, Xueliang, LI, Wang, DONG, Qinghao
33: CN 31: 202210214032.6 32: 2022-03-07

54: RAPID IMAGE CALIBRATION AND REAL-TIME RENDERING METHOD AND SYSTEM, MEDIUM, AND MOBILE END

00: -

Disclosed are a rapid image calibration and real-time rendering method and system, a medium and a mobile end. The mobile end simultaneously displays a local image and a remote geographic base image and performs asynchronous scaled and overlaid rendering; a serving end performs registration of the local image; tile cutting and service release is carried out on a server end; and the released service performs real-time rendering on the mobile end device. The present invention has simple operation and strong practicability. According to the present invention, during field research, the corrected image can be checked at the mobile end immediately upon the upload of a local image. Such convenient and rapid solution solves the problems that the image registration of the mobile end cannot be operated and the mobile end image cannot be checked in real time.



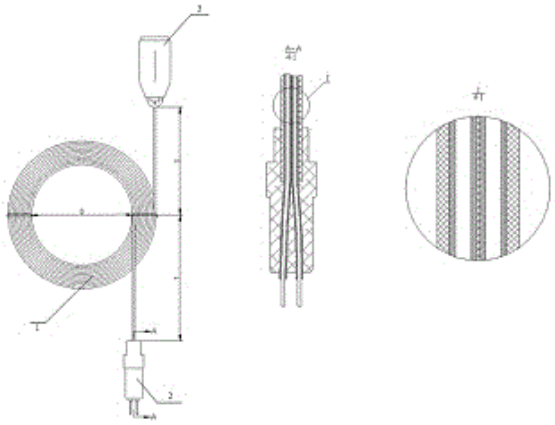
21: 2022/10568. 22: 2022/09/23. 43: 2022/10/20
51: F42C
71: BEIJING AUXIN CHEMICAL TECHNOLOGY LTD.
72: ZHEN, FEI, SONG , SHUZHONG , SUN, JILIN, BAI, YUQI, LI, HAO, ZHAI, XIAOPENG

54: HIGH-RELIABILITY ELECTRONIC DETONATOR AND DIGITAL BLASTING ASSEMBLY THEREOF

00: -

The present invention discloses a high-reliability electronic detonator, including: a base detonator having an aluminum magnesium alloy shell with an energy focusing cave; a lead wire including a wire core, an internal insulating layer, an external sheath, wherein wire core is made of tinned copper-clad steel material or copper wire, and external sheath is made of polyether polyurethane material; an injection molding plug, which is made of elastomeric

material, wherein lead wire is fixed at an end of the base detonator through injection molding plug. The present invention eliminates phenomena from perspective of intrinsic safety of internal melting of the injection molding plug, damage of an insulating surface, short circuit and open circuit of the tight port. The tensile strength of lead wire reaches 420N, improving the wear resistance, and high-temperature and high-humidity aging resistance. The product has high environmental adaptability, and convenient and reliable on-site operability.



21: 2022/10581. 22: 2022/09/23. 43: 2022/11/29
51: A01N; A01P; C12N
71: Gannan Normal University
72: YU, Haizhong, LU, Zhanjun, XIE, Yanxin, LI, Ningyan, YU, Xiudao, HUANG, Aijun, YI, Long, SU, Huanan, ZHONG, Balian

54: RECOMBINANT DIAPHORINA CITRI CHITINASE-LIKE PROTEIN EN03, AND CODING GENE AND APPLICATION THEREOF

00: -

The present invention relates to the technical field of pest control, and provides recombinant Diaphorina citri chitinase-like protein EN03. The amino acid sequence of the recombinant Diaphorina citri chitinase-like protein EN03 is shown in SEQ ID NO.1. In the present invention, genes encoding the recombinant Diaphorina citri chitinase-like protein EN03 are silenced by means of RNA interference, thereby causing death of the Diaphorina citri due to incomplete wing molting or unsuccessful molting, thus achieving the effect of Diaphorina citri control.

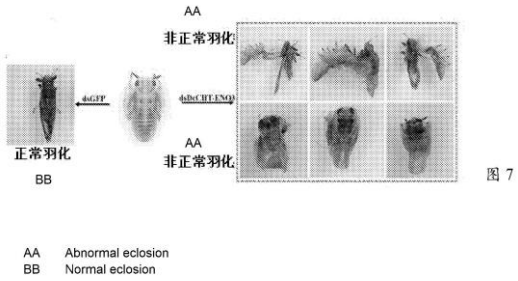


图 7

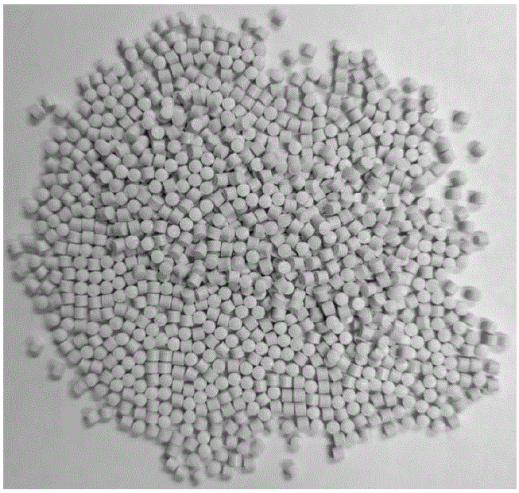
AA Abnormal eclosion
BB Normal eclosion

21: 2022/10605. 22: 2022/09/26. 43: 2022/11/29
51: A61K; A61P
71: Shandong Dyne Marine Biopharmaceutical Co., Ltd., Beijing Dyne High-tech Pediatric Pharmaceutical R And D Institute Co., Ltd
72: ZHANG, Weifeng, MA, Li, HU, Xing, HE, Shuwang, TIAN, Bing, GAO, Di, FAN, Weiping, XIAO, Yao
33: CN 31: 202111513897.4 32: 2021-12-13

54: EPALRESTAT MICRO-TABLET AND PREPARATION METHOD THEREOF

00: -

The present disclosure relates to an epalrestat micro-tablet and a preparation method thereof. The present disclosure provides an epalrestat micro-tablet, which is composed of a tablet core and a coating material, wherein the tablet core comprises the following components in parts by mass: 25-50 parts of epalrestat, 25-60 parts of a filling agent, 1-10 parts of an adhesive, 4-10 parts of a disintegrating agent and 0.5-3 parts of a lubricating agent; the coating material accounts for 4-20% of the mass of the tablet core; and the maximum size of the epalrestat micro-tablet is less than or equal to 3 mm. The epalrestat micro-tablet product with the maximum size of less than or equal to 3 mm is obtained by controlling the mass ratio relationship of an epalrestat API to pharmaceutic adjuvants including the filling agent, the adhesive, the disintegrating agent, the lubricating agent and the coating material.



21: 2022/10607. 22: 2022/09/26. 43: 2022/11/24
51: G06Q
71: DR. VISHWANATH KARAD MIT-WORLD PEACE UNIVERSITY, RAWANDALE, Ujjwala S.
72: HOSUR, Abhishek, HUMBARE, Rishabh Humbare, SINHA, Vaidehi Sinha, KULKARNI, Chaitanya, RAWANDALE, Ujjwala S., RAWANDALE, Shitalkumar A., CHAWARE, Trushita S.

54: FOOD GRAIN MONITORING AND SHELF-LIFE PREDICTION SYSTEM FOR THE FARMER BASED ON IOT

00: -

Effective storage of grains is not easy. Poor storage resulting from temperature, moisture, CO2 level, pressure, etc can result in grave consequences. With this IoT-based system, the grains in the warehouse can have a real-time monitoring system with an easy-to-use UI and also report the storage life of grains. The proposed model will have an easy-to-use app, which will receive real-time data and its corresponding graph for all the sensors (Temperature and Humidity Sensor (DHT), Smoke Sensor(s), CO2 sensors, PIR sensor) along with the shelf-life prediction of the grains stored in the warehouse.

21: 2022/10608. 22: 2022/09/26. 43: 2022/11/24
51: G06F
71: DR. VISHWANATH KARAD MIT-WORLD PEACE UNIVERSITY, SOMANI, Sunil Brijalal
72: SOMANI, Sunil Brijalal, SYED, Afraz, KARAD, Aditi, DHADDA, Saloni, DUBEY, Divyansh

54: BRAINWAVE BASED HOME AUTOMATION SYSTEM WITH INTEGRATED ARTIFICIAL INTELLIGENCE

00: -

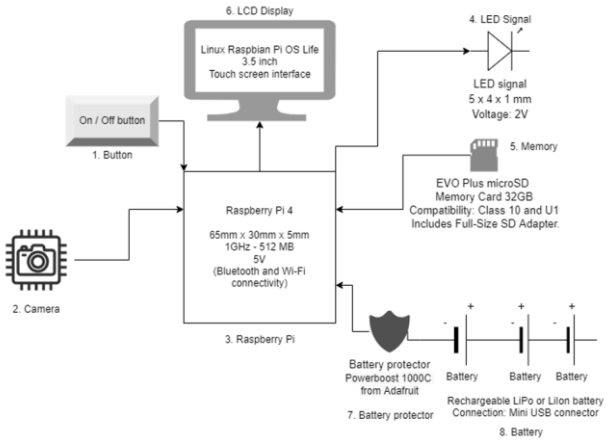
The idea presents a Brainwave- based home automation system for an automated system in homes. Brainwaves are electrical impulses in the brain. An individual's behavior, emotions, and thoughts are communicated between neurons within our brains. All brain waves are produced by synchronized electrical pulses from masses of neurons communicating with each other. Our brain waves occur at various frequencies. Some are fast and some are slow. They are measured in cycles per second or hertz (Hz). This application consists of a Neurosky headset which acts as a brainwave sensor and an Arduino Uno R3 board. For connectivity Relays, Bluetooth and Flex sensor for Arduino connection has been used. The graphs have EEG bands like delta, theta, alpha, beta, and gamma patterns which are needed to store and train to instruct the Arduino R3 board. Whenever the concentration reaches above a certain point the appliance will switch on.

21: 2022/10609. 22: 2022/09/26. 43: 2022/11/24
51: G01N
71: DR. VISHWANATH KARAD MIT-WORLD PEACE UNIVERSITY, NAIK, Varsha Swapnil, DHUMAL, Isha Hanumant, DHANDE, Archita Aakash, GOVINDU, Aditi, CHAUDHARI, Himanshu
72: NAIK, Varsha Swapnil, DHUMAL, Isha Hanumant, DHANDE, Archita Aakash, GOVINDU, Aditi, CHAUDHARI, Himanshu

54: SMART SCANNER FOR FOOD ADDITIVES

00: -

The present invention relates to a specialized Food Scanner that would decode the additives present in the ingredient list that are represented according to their E-Numbers and in turn give all the relevant information to the different additives present in packaged food that would help a person assess the effects of consuming the product. It is beneficial to health inspectors or commoners so they can be informed about additives in packaged food and adverse long-term effects of consumption.

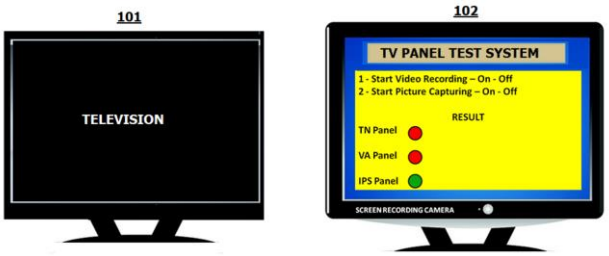


21: 2022/10610. 22: 2022/09/26. 43: 2022/11/24
51: G06Q
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: CHAVHAN, Pranali Gajanan, RATHI, Snehal Rahul, WASATKAR, Namrata N., PATIL, Swati Bula, VERMA, Devika A., CHAVHAN, Gajanan Himmatrao, KARYAKARTE, Mandar Subhash
54: SYSTEM FOR DISTRIBUTED ACCOUNTABILITY FOR DATA SHARING IN THE CLOUD
00: -
The present invention in general relates to a system for distributed accountability for data sharing in the cloud. The proposed scheme enables the data owner to delegate tasks of data file re-encryption and user secret key update to cloud servers without disclosing data contents or user access privilege information. We achieve this goal by exploiting and uniquely combining techniques of attribute-based encryption (ABE), proxy re-encryption, and lazy re-encryption. The proposed scheme also has salient properties of user access privilege confidentiality and user secret key accountability and achieves fine graininess, scalability and data confidentiality for data access control in cloud computing. Extensive analysis shows that our proposed scheme is highly efficient and provably secures under existing security models.

21: 2022/10666. 22: 2022/09/27. 43: 2022/11/24
51: A61B
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, SONAWANI, Shilpa
72: DESHKAR, Abhishek Jayesh, SONAWANI, Shilpa, KULKARNI, Siddhivinayak
54: SYSTEM TO EXTRACT MEDICINE NAME FROM MEDICINE STRIP
00: -
The proposed a system is developed to extract medicine name from its medicine strip packaging. In this system, the user will either select an existing image or take a photo of a medicine strip. The image is processed and consequently text localization and extraction is done by which the name of the medicine is identified from any medicine strip with higher accuracy. The proposed system is memory and computing efficient. It does not require huge medicine name database for recognition. The methodology takes care of the identification. The system can be implemented on mobile phone, desktop or any device.

21: 2022/10667. 22: 2022/09/27. 43: 2022/11/24
51: H04N
71: Mr.A.Sampath Dakshina Murthy, Dr.A.Sathishkumar, Dr.A.Velayudham, Ms.M.Pavithra, Dr.Sonagiri China Venkateswarlu, Mrs.S.Akilandeswari, Dr.Sushma Jaiswal, Dr.J.Suganya, Mr.Pankaj Chawla, Mr.Tarun Jaiswal
72: Mr.A.Sampath Dakshina Murthy, Dr.A.Sathishkumar, Dr.A.Velayudham, Ms.M.Pavithra, Dr.Sonagiri China Venkateswarlu, Mrs.S.Akilandeswari, Dr.Sushma Jaiswal, Dr.J.Suganya, Mr.Pankaj Chawla, Mr.Tarun Jaiswal
54: A SMART COMPUTER SOFTWARE SYSTEM TO IDENTIFY THE TELEVISION PANELS
00: -
Television is both informative and entertaining. There are a few types of new technology-based TVs on the market. The shopkeeper explains the few varieties of TV panels to a customer. Consumers don't know the type of TV panel simply looking at the screen. The shopkeeper takes advantage of the customer's incomplete understanding and sells substandard technology for a high price, resulting in financial loss to the customer. A new system with TV panels recognization technology is required to avoid the financial loss incurred to the customer. The present invention disclosed herein is a Smart Computer Software System to identify the Television Panels comprising of the screen recording camera to capture the TV panel images and video to recognize the type of the TV panel. The Smart Computer Software System contains a neural network by which the system learns the various types of TV panel

images and videos. The invention disclosed herein is a Smart Computer Software System efficiently identifying the TV panels fitted to the TV.

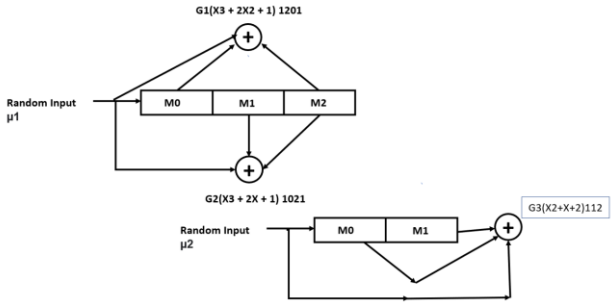


21: 2022/10669. 22: 2022/09/27. 43: 2022/11/24
51: H04L
71: SONI, Mayuri Motilal, DESHMUKH, Chandrashekhar Nandkumar
72: SONI, Mayuri Motilal, DESHMUKH, Chandrashekhar Nandkumar, INGOLE, Vijay Tulsiram, PUND, Mahendra Abarao, ALI, Syed Siddiq

54: A RECONFIGURABLE MULTIVALUED LOGIC BASED CONVOLUTIONAL ENCODER

00: -

The present invention in general relates to a computer science and engineering and more specific to a reconfigurable multivalued logic based convolutional encoder. A pseudo random binary sequence (PRBS) is used as a model data to generate random bit stream and a PRBS bit stream generated by using a linear feedback shift register (LFSR). The input of the XOR in the 9 -bit LFSR is the 5th and 9th cells of the LFSR. The LFSR is mathematically described as a polynomial of x9+x4+1. A program module for D-Flip-Flop is employed to get the 9-bit shift register and taps 4 and 9 taken out and XORed together and fed back to the first bit as an input to the shift register. The output to the PRBS generator taken from all the 9 bits of the shift register; and the output of the PRBS generator cycles between 0 to 512.

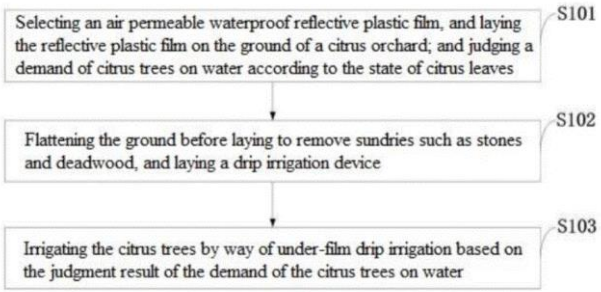


21: 2022/10716. 22: 2022/09/28. 43: 2022/11/29
51: A01G
71: Citrus Research Institute of Zhejiang Province
72: WU, Shaohui, YAO, Zhoulin, WANG, Peng, WEN, Mingxia, HUANG, Bei

54: METHOD FOR IMPROVING QUALITY OF CITRUS FRUITS BY MOISTURE-PENETRABLE PLASTIC FILM MULCHING TO CONTROL WATER AND APPLICATION

00: -

The present invention discloses a method for improving the quality of citrus fruits by moisture-penetrable plastic film mulching to control water and an application. The method includes the following steps: selecting an air permeable waterproof reflective plastic film, and laying the reflective plastic film on the ground of a citrus orchard; judging a demand of citrus trees on water according to the state of citrus leaves; and irrigating the citrus trees by way of under-film drip irrigation based on the judgment result of the demand of the citrus trees on water. The plastic film can be laid under the high-temperature weather condition without affecting citrus root systems and tree bodies. The content of soluble solids and the appearance coloring of the citrus are further remarkably improved, the citrus appears on the market in advance, the high-quality fruit rate is improved, and the economic benefit is remarkably improved.



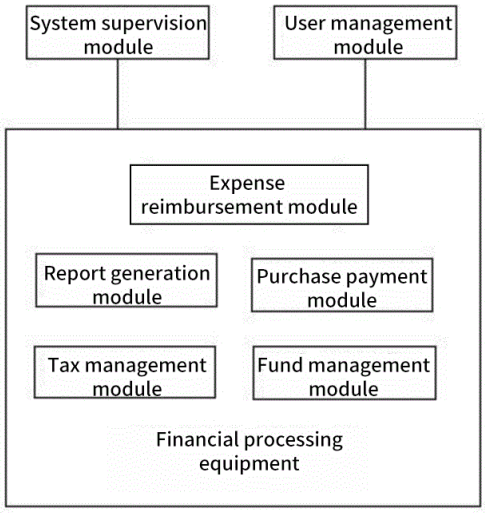
21: 2022/10753. 22: 2022/09/29. 43: 2022/11/21

51: G06Q
71: Zhengzhou Railway Vocational & Technical College
72: Jie Li, Jinfang Li, Weijia Li, Ruijun Zhang, Qi'nan Zhu, Ran Chen, Haidong Lyu, Qiaoqiao Fan, Hefang Zang, Chaoyang Tian

54: AN INTELLIGENT PROCESSING DEVICE FOR FINANCIAL DATA

00: -

The invention discloses an intelligent processing device for financial data, which comprises an expense reimbursement module, a purchase payment module, a report generation module, a fund management module, a tax management module, a user management module and a system supervision module. This can replace the operators engaged in heavy repetitive work, free the labor force, provide financial data processing ability, improve the work efficiency of data processing.

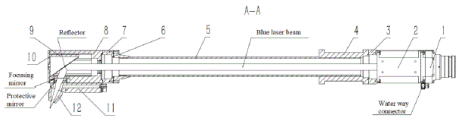


21: 2022/10754. 22: 2022/09/29. 43: 2022/11/21
51: C23C
71: Shenghong (Taizhou) Laser Technology Co., Ltd.
72: LIN, Xuechun, ZHANG, Xu, NONG, Guangyi, LIN, Peichen

54: HIGH-POWER BLUE LASER CLADDING HEAD DEVICE FOR INNER HOLE

00: -

The present invention patent relates to the field of laser cladding, and in particular to a high-power blue laser cladding head device for an inner hole. The high-power blue laser cladding head device includes a QBH optical fiber interface module, a collimation module, a collimation module fixing block, a light transmission pipe fixing block, a light transmission pipe, an adapter fixing block, a reflector module fixing block, a reflector module, a reflector mounting frame, a reflector mounting frame fixing block, a shielding gas module and a powder feeding nozzle. The present invention patent has the beneficial effect of filling a gap of a blue laser cladding head device for an inner hole for use in preparing a stable copper alloy cladding layer on a surface of an inner hole in a domestic market.



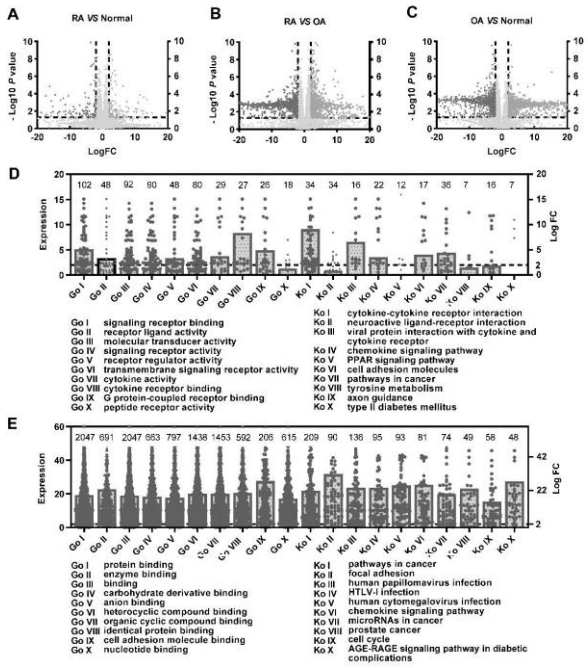
21: 2022/10755. 22: 2022/09/29. 43: 2022/11/21
51: A61K
71: General Hospital of the Western Theater Command of the PLA
72: Min Yang, Ya Zhang, Xingbiao Yang, Yue Zhuo, Wan Li, Yong Luo, Mingyang Guo

54: PREPARATION AND APPLICATION METHOD OF TRADITIONAL CHINESE MEDICINE PHYSIOTHERAPY EXTERNAL APPLICATION BAG FOR RHEUMATOID ARTHRITIS

00: -

The invention relates to the medication bag technology, specific to a physiotherapy of traditional Chinese medicine external application rheumatoid arthritis bag preparation method includes the following steps, soaking cortex periplocae, sambucus chinensis, mimosa, harlequin glorybower leaf, radix aconiti lateralis preparata, boston ivy, armand clematis, hemp pepper, capsicum frutescens var, kusnezoff monkshood root, rauvolfia verticillate and xanthoceras sorbifolium bunge and wood in the high degree white wine; The beneficial effects are: The invention of rheumatoid arthritis physiotherapy of traditional Chinese medicine external application bag preparation and use method. Place the rheumatoid arthritis physiotherapy bag containing the solution and ointment into the waterproof cover. After heating the rheumatoid arthritis physiotherapy bag by the fever bag, the temperature of the rheumatoid arthritis physiotherapy bag covers the knee of the patient to achieve the function of hot compress. After the

rheumatoid arthritis physiotherapy medicine bag is pierced, the liquid from the rheumatoid arthritis physiotherapy medicine bag can be coated on the patient's knee, so as to realize the combination of hot compress and medicine-application structure.

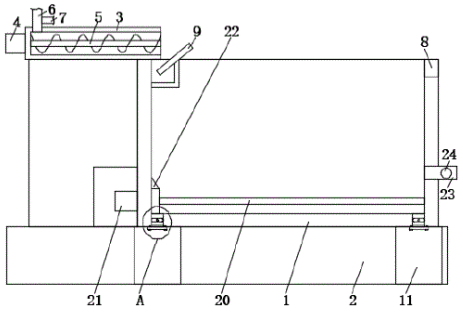


21: 2022/10757. 22: 2022/09/29. 43: 2022/11/21
51: B01D; C02F
71: Institute of Energy Research, Jiangxi Academy of Sciences
72: XI, Xiping, GUI, Shuanglin, XIE, Yunsheng, TU, Mengzi, XI, Shuyue, SUN, Liyuan

54: BACKFLOW CHEMICAL-ADDING DEVICE AND WASTEWATER-TREATMENT REACTION TANK

00: -

Disclosed is a backflow chemical-adding device and wastewater-treatment reaction tank. The backflow chemical-adding device and wastewater-treatment reaction tank includes a wastewater precipitation tank, a base, a mixing and stirring tank, a first drive motor, and a spiral stirring rod are provided, a water intake pipe is inserted in the mixing and stirring tank, and the water intake pipe is connected to a chemical adding pipe. In the present invention, wastewater and chemicals are injected into the mixing and stirring tank together, after the wastewater mixed with the chemicals flows into the wastewater precipitation tank, precipitation can be started, clear water after precipitation can be discharged from a backflow port to be collected, and dirt after precipitation can be discharged from dirt discharge ports at the bottom end of the wastewater precipitation tank. Operation is convenient and rapid, and a practical effect is desirable.

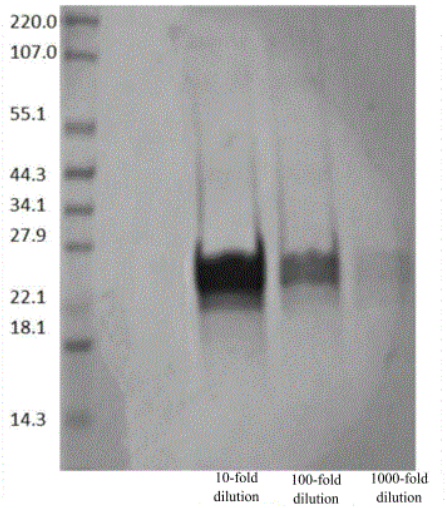


21: 2022/10758. 22: 2022/09/29. 43: 2022/11/21
51: G01N
71: Chinese Academy of Inspection and Quarantine
72: NIE, Cong, SONG, Yueqian, HOU, Baocui, LIU, Li, CHEN, Wei, YANG, Yu, WANG, Jing, WANG, Xin

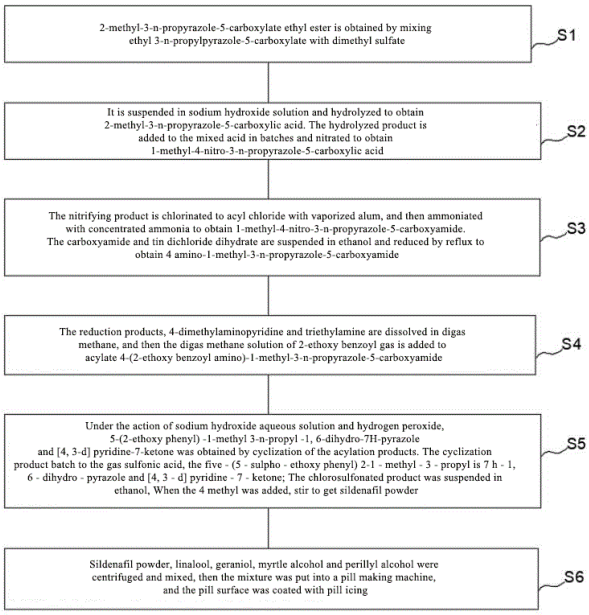
54: FLUORESCENCE IMMUNOCHROMATOGRAPHY ASSAY (FICA) REAGENT FOR CORONAVIRUS DISEASE 2019 (COVID-19) ANTIBODY DETECTION

00: -

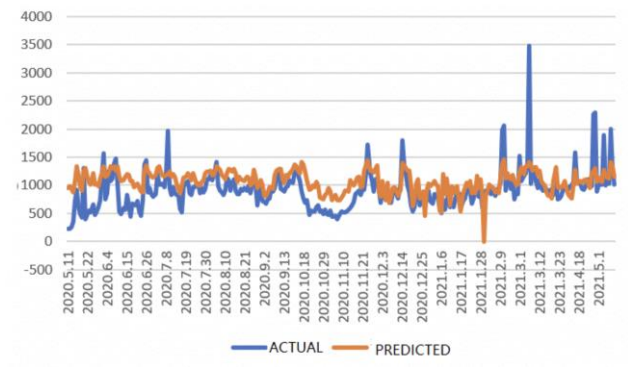
The present disclosure relates to a fluorescence immunochromatography assay (FICA) reagent for coronavirus disease 2019 (COVID-19) virus antibody detection. The reagent includes a sample pad, a marker pad, a coating pad, and an absorbent pad that are overlapped in sequence and then pasted on a backing card, where the marker pad is a glass fiber coated with a fluorescent microsphere-labeled COVID-19 virus S protein; and the coating pad is a nitrocellulose (NC) membrane coated with a rabbit anti-S protein polyclonal antibody which serves as a control line and a COVID-19 virus S protein antigen which serves as a test line. In the present disclosure, the FICA reagent for the COVID-19 virus antibody detection can be used to detect COVID-19 virus immunoglobulin M (IgM) antibodies that appear early after COVID-19 virus infection, and can also effectively detect IgG antibodies that appear in middle and later stages of the infection.



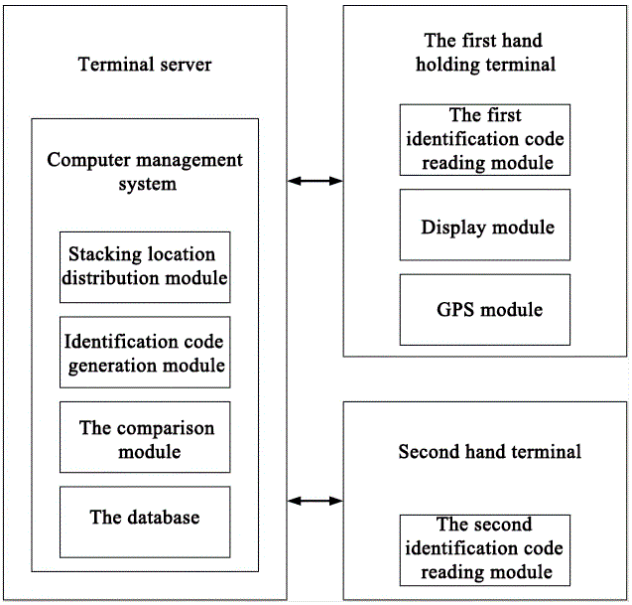
21: 2022/10759. 22: 2022/09/29. 43: 2022/11/21
51: A61K
71: General Hospital of the Western Theater Command of the PLA
72: Min Yang, Yue Zhuo, Jie Tao, Xingbiao Yang, Ya Zhang, Yong Luo, Mingyang Guo
54: THE USAGE OF SILDENAFIL IN THE PREPARATION OF THE DRUG FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION
00: -
The invention relates to the technical field of drug preparation, in particular to a use of sildenafil in the preparation of drugs for the treatment of pulmonary hypertension. Sildenafil is being prepared as a drug for the treatment of pulmonary hypertension for the prevention of Munch disease; Its beneficial effects are: The utility of sildenafil in the preparation of a drug for the treatment of pulmonary arterial hypertension. Linalool, geraniol, myrtle and perillyl alcohol are added to sildenafil powder. This can relax vascular smooth muscle, selectively dilate pulmonary blood vessels, and reduce pulmonary circulation resistance in patients with pulmonary hypertension. While improving their symptoms and exercise tolerance, and relieving its side effects such as low blood pressure, headache, flushing, nasal congestion and visual abnormalities.



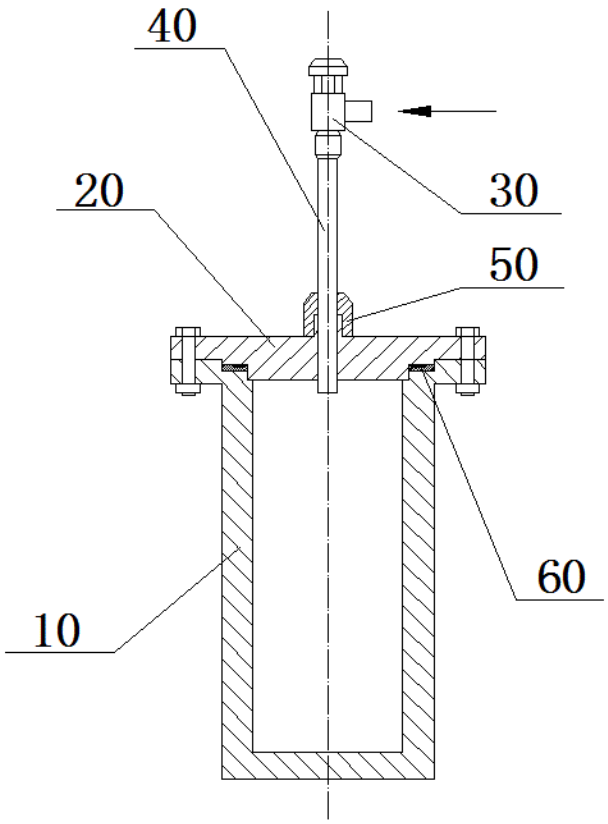
21: 2022/10760. 22: 2022/09/29. 43: 2022/11/21
51: G06F
71: Fujian Agriculture and Forestry University
72: Wei LIN, Lijin GUO, Pengfei LIAO, Siren LAN
54: METHOD FOR PREDICTING AIR NEGATIVE OXYGEN AND EVALUATING FOREST HEALTHCARE POTENTIAL BASED ON METEOROLOGICAL DATA
00: -
A method for evaluating forest healthcare potential based on meteorological indicators and negative oxygen ions is provided. The method includes: S1, establishing a negative oxygen ion monitoring point in a preset area of a forest; S2, associating the collected concentration of the negative oxygen ion with a meteorological element data; S3, performing a correlation analysis on the negative oxygen ion concentration (NOI concentration) and the meteorological element data; S4, selecting the meteorological element with the greatest correlation with the NOI concentration to establish a prediction model; S5, selecting multiple groups of concentration of the negative oxygen ion and meteorological element data under known dates; S6, classifying the NOI concentration according to the preset grade gradient; S7, grading the NOI concentration predicted by the prediction model according to the grading method in S6.



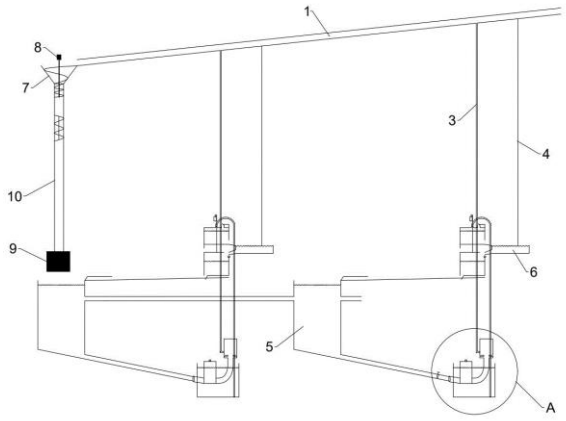
21: 2022/10761. 22: 2022/09/29. 43: 2022/10/04
51: B66C
71: CCCC MECHANICAL & ELECTRICAL ENGINEERING CO., LTD.
72: Tao Lian, Wenliang Zhang, Xing Li
54: A PORT AUTOMATIC LOADING AND UNLOADING PROCESS
00: -
The invention discloses a port automatic loading and unloading process, including: a container is lifted from the ship by a spreader and placed on a transfer trolley; At the loading position, the container number is collected through the first-hand holding terminal, and the stacking location allocation module assigns a stacking location for the container. The identification code generation module generates an identification code. The identification code contains information about the location of the stack and the container number. The computer management system sends the identification code to the first holding terminal; Read the identification code through the first identification code reading module; Fix the second hand-holding terminal at the stacking site; When the transfer car arrives at the stacking site, the identification code is read from the display module through the second identification code reading module. If the address information of the stacking place contained in the identification code is consistent with the address information of the stacking place corresponding to the number of the second hand-held terminal, a state information will be associated with the identification code in the database. The invention improves the loading and unloading efficiency of containers and the operation efficiency of the whole port.



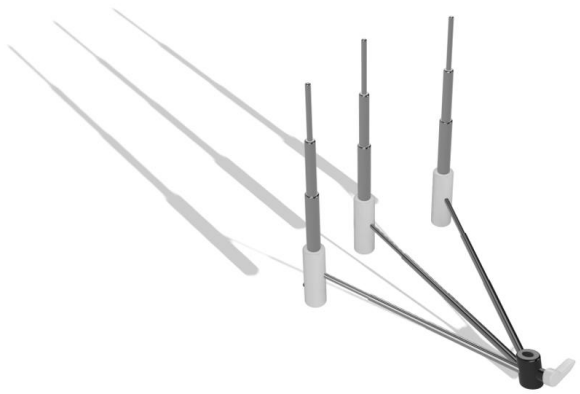
21: 2022/10762. 22: 2022/09/29. 43: 2022/11/21
51: G01N
71: Xuzhou College of Industrial Technology, Changzho Debo New Material Technology Co., Ltd
72: Zhang Tongyu, Xu Yunhui, Xu Yating, Zhou Lianxiang, Zhu Bing, Wang Zaixue, Zang Yanan, Li Peipei, Xu Shuangyuan, Cong Houluo, Zhang Zhaohong, Wang Zhongguang, Zhao Guiying, Dai Xi, Yang Liu, Zhao Xuan, Yang Hui, Shao Zefeng
54: A HIGH-TEMPERATURE SOLVENT RESISTANCE TESTING DEVICE
00: -
The invention discloses a high-temperature solvent resistance testing device, and it comprises a testing tank for placing rubber samples, a tank cover for sealing the testing tank, and a solvent conveying device communicated with the testing tank; a sealing ring is arranged between the testing tank and the tank cover; the sealing ring is provided with a trapezoidal block with a trapezoidal cross section and a semicircular block with a semicircular cross section; the testing tank is internally provided with a sample suspension frame for fixing two ends of a rubber sample; the sample suspension frame can hang at least two groups of rubber samples at the same time.



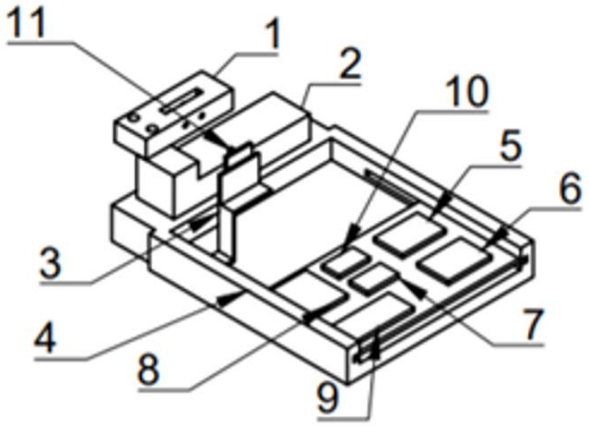
21: 2022/10763. 22: 2022/09/29. 43: 2022/11/21
51: F03B
71: Xujun Tang
72: Xujun Tang
54: AN AUTOMATIC CYCLE MEDIUM-SIZED HYDROELECTRIC GENERATING SET
00: -
The invention discloses an automatic cycle medium-sized hydroelectric generating set. One end of the water lifting pipe is connected to the water pump unit, and the other end extends upward to connect with the flow guiding pipe; one end of the downspout is connected to the flow guiding pipe, and the other end extends into the gravity reservoir; the gravity pumping device is arranged upon the water pump unit, and connected with the reservoir on the side of the water pump unit through a suction pipe; the gravity reservoir is arranged on one side of the gravity pumping device and communicated with it; the vortex device is arranged at the end of the flow guiding pipe, and the turbine generator is arranged at the bottom of the vortex device; the lower end of the vortex device is provided with a downwardly extending return pipe, and the direct or inclined impulse generator is arranged at the end of the return pipe and above the reservoir. The invention can be applied in various places, especially for construction by the mountains. Due to the geographical factors of mountains, construction costs can be greatly saved. Not only is the construction cost low, but also the power generation can be cycled in long-term with simple maintenance. It can solve the disadvantages of energy power generation, and can cycle power generation.



21: 2022/10771. 22: 2022/09/29. 43: 2022/11/21
51: A61K
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, JADHAV, Ganesh, MALI, Riya
72: JADHAV, Ganesh, MALI, Riya, PANDE, Arnav
54: BICYCLE ATTACHMENT FOR ASSISTING STUDENTS IN CARRYING HEAVY SCHOOL BAGS WHILE CYCLING
00: -
The present invention relates to a bicycle attachment for assisting students in carrying heavy school bags while cycling. This bicycle attachment aims at assisting school-going children to carry the heavy school-bags. It has three extensions at the bottom that provide support. The retractable rods extending from them provide extra support to the backpack. The goal of this design intervention is to design a solution for kids who are in discomfort while cycling with their school bags. The design of the proposed intervention is aimed at preventing students from becoming injured as a result of their heavy backpack. There is a great need for such design intervention as many students wrongly carry their school bags and end up hurting themselves.



21: 2022/10772. 22: 2022/09/29. 43: 2022/11/21
51: A61K
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PACHPORE, Swanand, NARGUND, Saibaba
72: PACHPORE, Swanand, GHORPADE, Ratnakar, NARGUND, Saibaba, JADHAV, Pradeep
54: THERMO-MECHANICAL LOAD SIMULATOR FOR ROOT CANAL OBTURATION
00: -
The present invention relates to a thermo-mechanical load simulator for root canal obturation. The proposed system consists of IR Thermal Image Sensor, load cell, a signal amplifier, display, data logger and a timing module. It uses a standard load cell for measuring weight up to 20 Kg. An instrumentation amplifier is required to make the output of the load cell readable to the micro-controller. The amplifier can read the changes in the resistance of the load cell and get very accurate weight measurements. The weight values are shown on the display in either simple text or numerical values read by the sensor. The micro- SD Card Module is a simple solution for transferring data to and from a standard SD card and a real time clock incorporates a battery input and maintains accurate timekeeping when main power to the device is interrupted. The integrated IR camera array can display a heat map of the subject under test.



21: 2022/10807. 22: 2022/09/30. 43: 2022/11/09
51: A61K; A61P
71: Shandong Inomic Institute of Pharmaceutical Research Co.,Ltd
72: LI, Mingli, LIU, Bingjun, LIU, Yang, SUN, Liping, DENG, Changjiang, XING, Jinhua
33: CN 31: 202210071074.9 32: 2022-01-21
54: DIQUAFOSOL SODIUM EYE DROPS AND PREPARATION METHOD THEREOF
00: -
The present invention belongs to an ophthalmic preparation, and provides diquafosol sodium eye drops and a preparation method thereof. In the diquafosol sodium eye drops provided by the present invention, boric acid and disodium edetate used together can enhance the antibacterial performance of the boric acid, thereby ensuring the antibacterial effect of the diquafosol sodium eye drops; and use of a toxic preservative benzalkonium chloride in the product is avoided to reduce the harm to a human body. The disodium edetate and the boric acid have antiseptic properties and enable the diquafosol sodium eye drops to have excellent antiseptic properties; meanwhile, the disodium edetate can improve the antioxidant properties of the diquafosol sodium eye drops, thereby improving the stability of the diquafosol sodium eye drops. The boric acid and the sodium hydroxide form a buffer pair to stabilize a pH value of the diquafosol sodium eye drops.

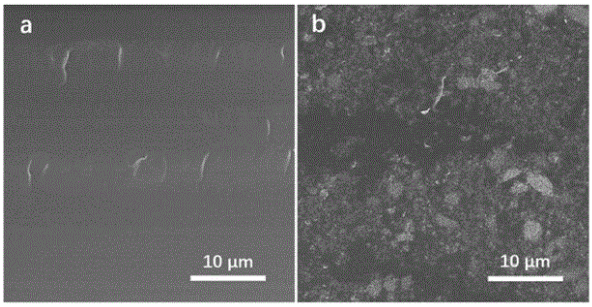
21: 2022/10808. 22: 2022/09/30. 43: 2022/11/09
51: C09D
71: Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering, Taiyuan University of Technology

72: Zhiyi Zhang, Lan Jia, Xiaofei Han, Jiahao Shen, Wenwen Yu, Fengbo Zhu, Fuyong Liu, Yanqin Wang, Qiang Zheng

54: A METHOD FOR PREPARING SILICA AEROGEL MODIFIED POLYURETHANE THERMAL INSULATION MATERIAL

00: -

The invention relates to a preparation method of a silicon dioxide aerogel modified polyurethane thermal insulation material, which comprises the following steps: uniformly mixing polyol and hydrophobic silicon dioxide aerogel, adding diisocyanate, uniformly mixing, and heating to perform a heating reflux reaction; cooling, adding 2, 2-dimethylolpropionic acid, 1, 4-butanediol and a hydrophobic silicon dioxide aerogel solution, uniformly mixing, and heating for reflux reaction; cooling, adding dibutyltin dilaurate, uniformly mixing, heating, and adding a hydrophobic silicon dioxide aerogel solution; cooling, adding triethylamine, deionized water and an ethylenediamine aqueous solution, and uniformly mixing; and treating the solution by using a rotary evaporator to obtain the silicon dioxide aerogel modified waterborne polyurethane thermal insulation coating. The prepared silicon dioxide aerogel modified waterborne polyurethane heat insulation coating has the advantages of being excellent in water resistance, good in coating adhesive force, non-toxic, environmentally friendly and free of negative effects on human health.

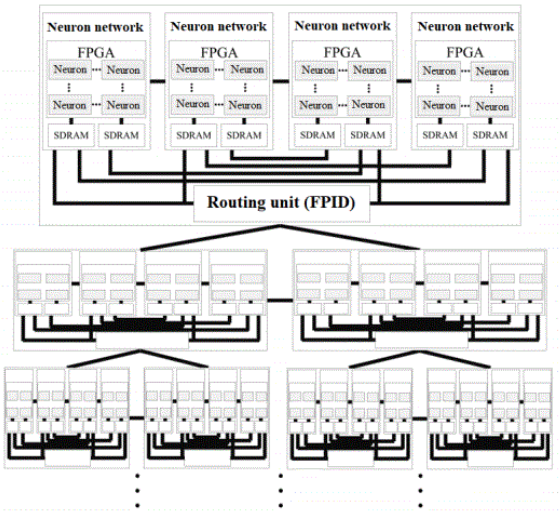


21: 2022/10809. 22: 2022/09/30. 43: 2022/11/09
51: G06N
71: Tianjin University
72: YANG, Shuangming, PANG, Yanwei, WANG, Haowen

54: MULTI-LAYER HETEROGENEOUS BRAIN-INSPIRED INTELLIGENCE SYSTEM BASED ON DIGITAL NEUROMORPHIC COMPUTING TECHNIQUE

00: -

Disclosed is a multi-layer heterogeneous brain-inspired intelligence system based on a digital neuromorphic computing technique. The system includes several field programmable gate array (FPGA) subsystems, all the FPGA subsystems are directly connected by means of pins on printed circuit boards (PCBs) and the pins are made into external interfaces, so as to realize extended functions, and each FPGA subsystem is one node in an improved tree structure; and each FPGA subsystem includes four neuron network units and one routing unit, and each computing unit includes several neuron basic computing cores. The present invention has the following beneficial effects that numerous functions of the human brain completed through cooperation of hundreds of millions of neurons, as well as large-scale brain simulation and real-time computing with four million neurons are realized, such that a working mechanism and a disease mechanism of the human brain are better understood.



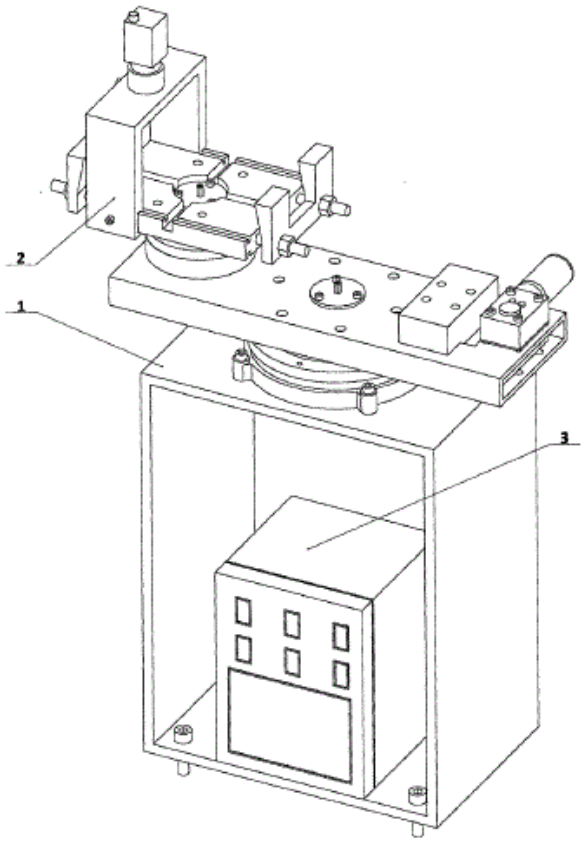
21: 2022/10810. 22: 2022/09/30. 43: 2022/11/09
51: G01M
71: Jilin University
72: Chenghui Shao, Zishuo Wang, Cheng Shao, Shuxin Xu, Qixun Zhang, Jingyu Zhong

54: DUAL-ROTATION BRAKE PERFORMANCE TESTER INSPECTION BENCH

00: -

The invention relates to automobile detection equipment used in the field of automobile industry, in particular to a dual-rotation brake performance tester

inspection bench. In order to solve the problem that the measurement range is small and the actual measurement range cannot be reached, the problem that only static measurement can be carried out and dynamic measurement cannot be carried out and the problem that the actual application is difficult due to high control precision requirements and high part machining precision requirements although comprehensive calibration is achieved in the prior art, a full-automatic dual-rotation vehicle portable brake performance tester inspection bench is provided. A portable brake performance tester can be comprehensively calibrated, and all static and dynamic parameters can be automatically calibrated through one-time installation. A control system for dynamically simulating the brake acceleration change curve is simple in structure, the acceleration can be changed according to a specified magnitude only by changing the direction of an acceleration sensor of a calibration instrument, the real-time performance is high, and the matching degree between the simulated brake curve and the actual brake curve is extremely high. The mechanism is simple, and the part machining requirement is low. Dynamic unbalance vibration compensation is achieved, so that the whole machine is more stable in operation, the measurement data is more accurate, and the actual use and popularization performance is high.



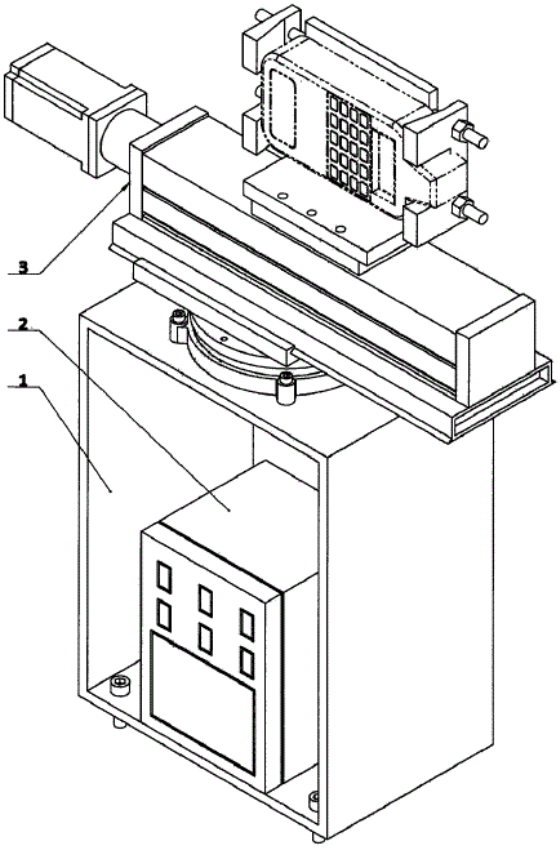
21: 2022/10811. 22: 2022/09/30. 43: 2022/11/09
51: G01M
71: Jilin University
72: Chenghui Shao, Zishuo Wang, Cheng Shao, Qixun Zhang, Jingyu Zhong, Qilin Zhang

54: DYNAMIC AUTOMATIC DYNAMIC BALANCE BRAKE INSTRUMENT INSPECTION BENCH

00: -

The invention relates to automobile detection equipment used in the field of automobile industry, in particular to a dynamic automatic dynamic balance brake instrument inspection bench. The technical problem to be solved is that when a portable brake performance tester is dynamically measured, the mass distribution of a rotating part is adjusted in an automatic control mode, and dynamic compensation is carried out on dynamic unbalance, so that the measurement precision is improved, and the dynamic automatic dynamic balance brake instrument inspection bench is provided. Dynamic balance can be dynamically adjusted according to the acceleration change condition measured by the acceleration measurement unit, the influence of vibration generated by dynamic unbalance on a measurement result is reduced, and the

measurement precision is improved. The lower plane of the detected instrument is perpendicular to the horizontal plane, the influence of acceleration coupling generated by rotation in the thickness direction on a measurement result is reduced due to the small thickness size, and the detected instrument only needs to be adjusted in one direction.

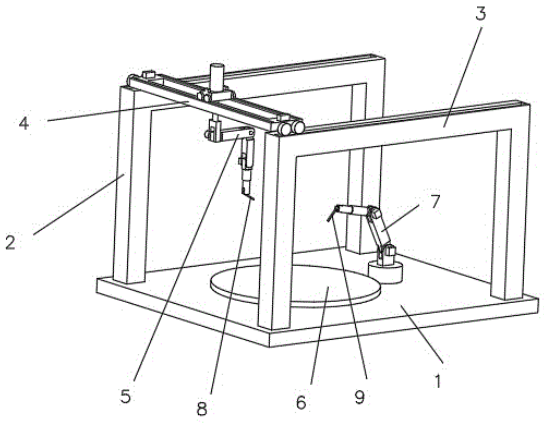


21: 2022/10812. 22: 2022/09/30. 43: 2022/11/09
51: B23K
71: Anhui Polytechnic University, Anhui Pulun Intelligent Equipment Co.,Ltd., Anhui Peiji Intelligent Equipment Co.,Ltd.
72: HAN, Limin, XIAO, Ping, CHEN, Yu, ZHOU, Yunqi, SUN, Yongjiu, SHI, Peicheng, WANG, Jianping, PAN, Jiabao, GAO, Yin, FANG, Lumin, SUN, Yihan, ZHAI, Rongjie, SHU, Da, LI, Hongwei

54: ROBOT WELDING DEVICE FOR WELDING AUTOMOBILE PARTS

00: -

The present invention belongs to the technical field of robot welding and discloses a robot welding device for welding automobile parts. The robot welding device for welding automobile parts comprises a bottom plate, wherein four corners of the bottom plate are fixedly provided with supporting columns, the upper ends of the two supporting columns at the same side end are fixedly provided with cross beams, the upper ends of the two cross beams are provided with a moving assembly in a rolling manner, the lower end of the moving assembly is fixedly provided with a first robot arm, a worktable is rotatably arranged in the middle of the bottom plate, and one side of the worktable is provided with a second robot arm. By arranging the moving assembly, the first robot arm can be driven to move and ascend and descend, so that the top of a large automobile part can be welded.



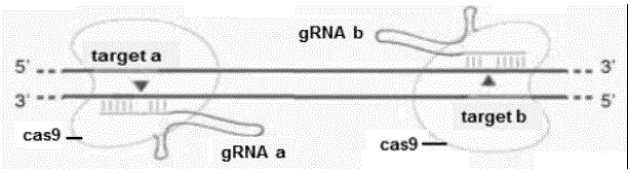
21: 2022/10815. 22: 2022/09/30. 43: 2022/11/09
51: A01K; C12N
71: HUNAN NORMAL UNIVERSITY
72: XIE Huaping, SUN Luning, YANG Boyu, LIU Ling, YANG Nan, YANG Yanqun, ZHU Junwei
33: CN 31: 202210446158.6 32: 2022-04-26

54: METHOD FOR GENE KNOCKOUT BREEDING OF ZEBRAFISH WITH DELETION OF ADGRG1 GENE

00: -

The invention discloses a method for gene knockout breeding of zebrafish with deletion of adgrg1 gene, and relates to the technical field of gene knockout. The invention discloses a primer set for knocking out the adgrg1 gene of zebrafish, which comprises an upstream primer as shown in SEQ ID NO: 1 or SEQ ID NO: 2 and a downstream primer as shown in SEQ ID NO: 3. The gene knockout method for gene knockout breeding of zebrafish with deletion of adgrg1 gene includes: using the DNA sequence shown in SEQ ID NO: 4 as a template, performing PCR amplification by using the primer set, and then

obtaining gRNA; by in vitro transcription; Cas9 mRNA and the gRNA are microinjected into zebrafish embryos, and then the adgrg1 gene deletion zebrafish is obtained through hybridization and selfing. According to the invention, the adgrg1 gene deletion zebrafish is bred through CRISPR/Cas9 gene editing technology.

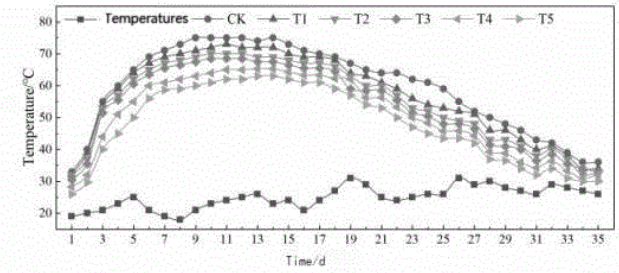


21: 2022/10816. 22: 2022/09/30. 43: 2022/11/09
51: C05G
71: NORTHWEST A&F UNIVERSITY
72: Wang Xudong, Xue Shaoqi, Guo Luodi, He Yanzhen

54: METHOD FOR REGULATING AND CONTROLLING PH VALUE OF AEROBIC COMPOST BY USING FERROUS SULFATE MODIFIED BIOCHAR AND APPLICATION THEREOF

00: -

The invention provides a method for regulating and controlling the pH value of aerobic compost by using ferrous sulfate modified biochar and application thereof, and relates to the technical field of aerobic compost regulation and control. The method for regulating the pH value of the aerobic compost by using the ferrous sulfate modified biochar comprises the following steps: S1. The sheep manure and crushed tree branches (pine, Salix, and the like) are mixed according to the mass ratio of 8:2, and after being uniformly stirred, the ferrous sulfate modified biochar is added according to the proportion (mass percentage) of 1-9% to obtain a mixture. In that invention, ferrous sulfate modify biochar is added into the aerobic compost to reduce the pH value of the compost at the lat stage of maturity and reduce ammonia volatilization, thereby ensuring that the pH value and other indexes of a compost product meet the national organic fertilizer standard, reduce the accumulate loss of nitrogen by about 19% in the composting process, and effectively improving the quality of the compost.



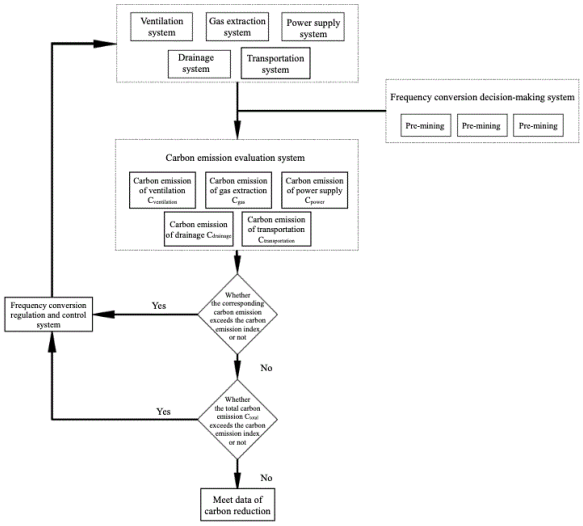
21: 2022/10825. 22: 2022/09/30. 43: 2022/11/09
51: B01D; E01H; G01N; G06Q
71: Xuzhou Mining Group Co., Ltd., CHINA UNIVERSITY OF MINING AND TECHNOLOGY, Jiangsu Guoneng Deep Well Safety Mining Technology Co., Ltd., Jiangsu Xukuang Energy Co., Ltd.
72: FENG Xingzhen, SHI Binghua, CHEN Qinghua, LIU Jinhu, XIN Haihui, LI Jianfeng, WANG Chao
33: CN 31: 202211019146.1 32: 2022-08-24

54: INTELLIGENT COAL MINE UNDERGROUND CARBON EMISSION COMPREHENSIVE EVALUATION AND FREQUENCY CONVERSION CARBON REDUCTION METHOD

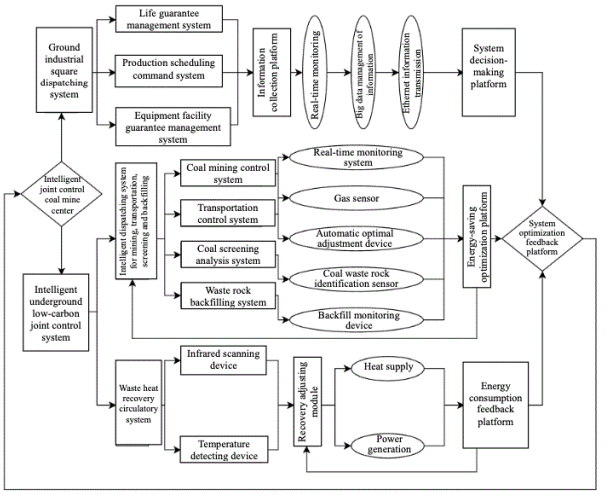
00: -

The present invention discloses an intelligent coal mine underground carbon emission comprehensive evaluation and frequency conversion carbon reduction method, which comprises acquiring a total ventilation amount, a total gas extraction amount, a total power supply amount, a total drainage amount and a total fuel oil amount for transportation in a coal mining area, and summarizing and transmitting the acquired data to a carbon reduction evaluation platform; calculating, by a carbon emission evaluation system, a carbon emission of ventilation, a carbon emission of gas extraction, a carbon emission of power supply, a carbon emission of drainage, a carbon mission of transportation and a total carbon emission according to stages corresponding to pre-mining, mining and post-mining and the acquired data; and comparing a calculation result with corresponding carbon emission indexes and a total carbon emission index at the corresponding stages and determining whether the carbon emissions exceed the carbon emission indexes or not. In the intelligent coal mine underground carbon emission comprehensive evaluation and frequency conversion carbon reduction method of the present invention, the whole-process carbon emission evaluation of a coal mining area at different stages is realized, the

pertinence of the evaluation systems is improved, and each carbon emission process can be fed back and adjusted through a comparison result so as to meet the effect of centralized



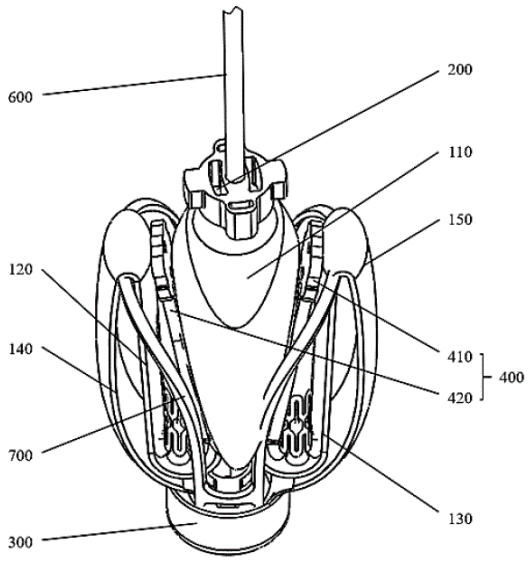
21: 2022/10826. 22: 2022/09/30. 43: 2022/11/09
51: E21F; G01N
71: Xuzhou Mining Group Co., Ltd., CHINA UNIVERSITY OF MINING AND TECHNOLOGY, Jiangsu Guoneng Deep Well Safety Mining Technology Co., Ltd., Jiangsu Xukuang Energy Co., Ltd.
72: FENG Xingzhen, SHI Binghua, CHEN Qinghua, LIU Jinhu, XIN Haihui, LI Jianfeng, SHU Tong, LIANG Yuzhu
33: CN 31: 202211040148.9 32: 2022-08-29
54: INTELLIGENT JOINT CONTROL COAL MINE LOW-CARBON OPERATION CONTROL METHOD
00: -
The present invention discloses an intelligent joint control coal mine low-carbon operation control method, which comprises establishing a mutual feedback system comprising an intelligent joint control coal mine center and a system optimization feedback platform as main bodies, wherein the intelligent joint control coal mine center comprises a ground industrial square dispatching system and an intelligent underground low-carbon joint control system, and the intelligentization is realized by adopting a unified dispatching and grading management method; the intelligent underground low-carbon joint control system comprises an intelligent dispatching system for mining, transportation, screening and backfilling and a waste heat recovery circulatory system, and underground coal mining, coal transporting, waste rock screening and backfilling in a goaf are intelligently dispatched. The present invention can realize high efficiency and energy saving of mine production, and simultaneously achieves optimal heat energy recycling through the adjustment of the waste heat recovery system, thereby establishing an intelligent low-carbon mine.



21: 2022/10827. 22: 2022/09/30. 43: 2022/11/09
51: C12N
71: Cereal Crops Institute, Hainan Academy of Agricultural Sciences, SANYA Institute, Hainan Academy of Agricultural Sciences
72: TANG Qingjie, YAN Xiaowei, XIAO Xiaorong, ZHAI Linan, XING Funeng
54: SYNTHESIS IDENTIFICATION METHOD OF RESISTANCE TO RICE BLAST IN ORYZA RUFIPOGON GRIFF. INDIGENOUS TO HAINAN PROVINCE
00: -
The invention provides a method for identification of resistance to rice blast, comprising the following steps: taking rice blast-susceptible cultivated rice as a control, planting the control rice and test rice in a cross way, and inducing the onset of leaf blast at seedling stage when the test rice seedlings grow to 3-5 leaf ages, so as to identify the leaf blast resistance at seedling stage; retaining the test rice with moderate resistance, inducing the incidence of panicle blast, and identifying the resistance of panicle blast; taking the leaves of the test rice with moderate resistance, punching holes in the leaves, dropping the suspension of rice blast fungus spores on the punched places, wrapping the leaves, and

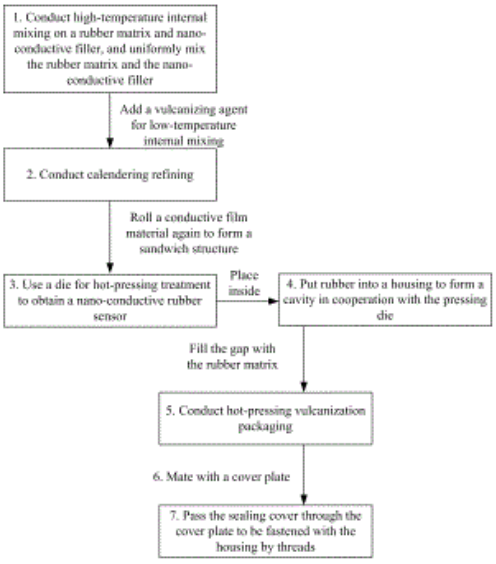
keeping the leaves out of light overnight; the next day, performing light/dark alternate culture for 5 days, and observing the length of diseased spots; the test rice with diseased spots less than 2 mm is rice blast resistant rice. The invention combines various methods to form a comprehensive identification method of rice blast in the field and in vitro, which makes the investigation and identification results of rice blast more comprehensive and accurate.

21: 2022/10829. 22: 2022/09/30. 43: 2022/11/09
51: A61F
71: SHANGHAI NEWMED MEDICAL CO., LTD.
72: XIAO, Zhenxin, YU, Qifeng, QIN, Tao
33: CN 31: 202010243141.1 32: 2020-03-31
33: CN 31: 202021079571.6 32: 2020-06-12
54: TISSUE CLAMPING DEVICES
00: -
A tissue clamping device including a clamp, a first connector, a second connector, and a clip is provided. The clamp may include a supporting unit, a first interior clamping arm, a first exterior clamping arm, a second interior clamping arm, and a second exterior clamping arm. The supporting unit may be connected to the first interior clamping arm, the first exterior clamping arm, the second interior clamping arm, and the second exterior clamping arm. The clamp may be connected to a portion between the first connector and the second connector. A relative movement of the first connector and the second connector may drive the first interior clamping arm and the second interior clamping arm to be expanded or folded relatively. The clip may include a first clip and a second clip, and the first clip and the second clip may be respectively expanded or folded.



21: 2022/10850. 22: 2022/09/30. 43: 2022/11/09
51: B29B; B29C
71: SHENZHEN MUNICIPAL DESIGN AND RESEARCH INSTITUTE CO., LTD.
72: GAI, Weiming, LV, Shuangkun, JIANG, Ruijuan, ZHI, Chunyi, NIE, Xinmin
33: CN 31: 202011143979.X 32: 2020-10-23
54: WIDE-RANGE HIGH-TOUGHNESS NANO-CONDUCTIVE RUBBER SENSOR, AND PREPARATION AND PACKAGING METHODS THEREFOR
00: -
The present invention relates to the technical field of pressure measurement, and provides a wide-range high-toughness nano-conductive rubber sensor, and preparation and packaging methods therefor. According to the present invention, the dispersibility of a conductive filler is improved by using a high temperature internal mixing method, and a sandwich structure is cured under a high pressure condition, so that a rubber structure is more compact. The nano-conductive rubber sensor prepared in the present disclosure has wide measurement range, and good sensitivity and stability. According to the present invention, a rubber substrate is used to package the nano-conductive rubber sensor, a housing, a cover plate, and a sealable cover are used to seal the rubber substrate for packaging the sensor, the packaging structure is ingenious, so that the stress of the sensor is balanced, and the phenomenon of structural damage caused by a stress concentration is avoided. At the same time, packaging by using the rubber substrate allows the

sensor to have excellent performance as a whole such as high temperature resistance, water resistance, fire resistance, ultraviolet resistance, and acid and alkali corrosion resistance, to have better aging resistance and stability, and to have longer service life and security under high load conditions.

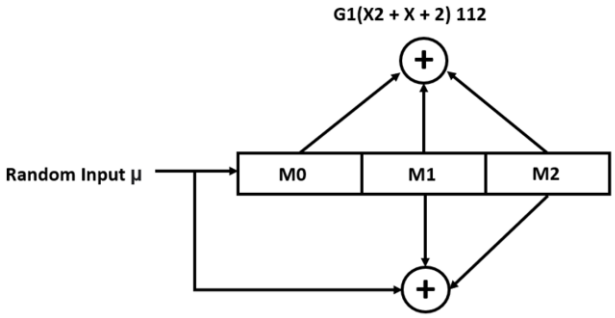


21: 2022/10868. 22: 2022/10/03. 43: 2022/11/24
51: H04L
71: SONI, Mayuri Motilal, DESHMUKH, Chandrashekhar Nandkumar
72: SONI, Mayuri Motilal, DESHMUKH, Chandrashekhar Nandkumar, INGOLE, Vijay Tulsiram, PUND, Mahendra Abarao, ALI, Syed Siddiq

54: A TERNARY BASED SYSTEM FOR CODE RATE 1/2 AND 1/3 CONVOLUTIONAL ENCODER

00: -

The present discloser relates, in general to a ternary based method / system for code rate 1/2 and 1/3 convolutional encoder. A convolutional encoder convolutes the incoming sequence of ternary trits into convolutional codes by adding more trits. The convolutional encoder takes k massage bit at a time from incoming sequence of trit stream and computes n-bit output sequence (n >k). The input to the convolutional encoder is nothing but randomizer output .The randomizer output is generated by pseudorandom binary sequence. (PRBS) is a periodic, deterministic signal with white-noise-like properties that shifts between two values. A PRBS signal is inherently periodic with a maximum period length of 2n–1, where n is the PRBS order. A convolutional encoder consist of memory elements called shift registers and modulo 3 adders. For each k bit input; n output bits are calculated according to the generator polynomial. The computation is performed by module 3 addition operations on the current input k-bit symbol and the contents of the shift registers. The choice of connection between the shift registers and adders describes the characteristics of code. At the initial all shift registers are set by zeros. After performing one operation the contents of shift registers are shifted by one bit right. The convolutional encoder can be represented and described by three method namely state, trellis, and tree diagrams.



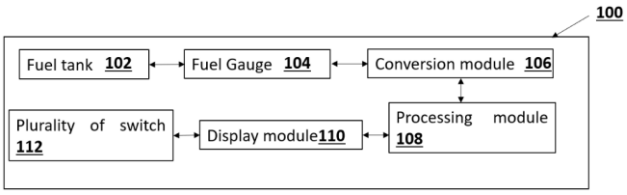
21: 2022/10870. 22: 2022/10/03. 43: 2022/11/24
51: G07C
71: Dr Shaik Qadeer, Dr. Mohd Yousuf Khan, Dr Hakeemuddin Ahmed, Dr. Mohammad Sanaullah Qaseem, Qazi Basheer
72: Dr Shaik Qadeer, Dr. Mohd Yousuf Khan, Dr Hakeemuddin Ahmed, Dr. Mohammad Sanaullah Qaseem, Qazi Basheer

54: A FUEL INDICATING AND TRACKING SYSTEM AND A METHOD THEREOF

00: -

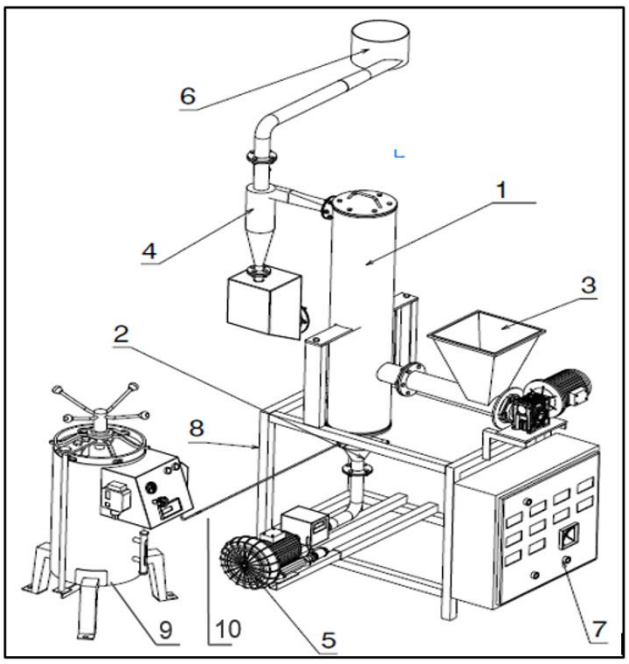
A fuel indicating and tracking system (100) and a method (200), comprises of: a fuel tank (102) associated with a vehicle, wherein the fuel tank (102) incorporates a fuel gauge (104) for sensing fuel level; a conversion module (106) associated with the fuel gauge (104) for converting resistance offered by the fuel gauge (104) into corresponding voltage; a processing module (108) associated with the conversion module (106) for processing the obtained voltage to convert into an equivalent value in liters and perform fuel tracking; and a display module (110) associated with the processing module

(108) for displaying the fuel in liters and the tracked fuel level.



21: 2022/10884. 22: 2022/10/03. 43: 2022/10/12
51: C07C
71: SOBUTE NEW MATERIALS CO., LTD., BOTE NEW MATERIALS TAIZHOU CO., LTD.
72: RAN, QIANPING , HUANG, ZHEN , YANG , YONG , ZHOU, DONGLIANG , WANG, TAO , SHU, XIN , LIU, JIAPING , HONG, JINXIANG
54: POLYHYDROXY AROMATIC INTERMEDIATE, PREPARATION THEREOF AND USE THEREOF IN POLYCONDENSATE WATER-REDUCER WITH BRANCHED SIDE CHAINS
00: -
The present application discloses a polyhydroxy aromatic intermediate, preparation thereof and use thereof in a polycondensate water-reducer with branched side chains. The polycondensate water-reducer with branched side chains has a branched side chain structure which provides a stronger steric hindrance. The synergistic effect of the branched side chains and the rigid skeleton of the aromatic ring greatly improves the water-reducing ability. Especially under a condition of low water/cement ratio, the improvement in water-reducing ability is more obvious. The branched polyether side chain is more conducive to the formation of a thicker water film layer, which has an obvious viscosity reduction effect. The conformation of the branched polyether side chain is less affected by different ionic environments in the pore solution in cement, and thus has a stronger adaptability to various raw materials. The water-reducer is suitable for the preparation of high-strength concrete, self-compacting concrete and concrete with low water-to-binder ratio and high volume of mineral admixtures, especially for the preparation of concrete containing machine-made sand.

21: 2022/10900. 22: 2022/10/04. 43: 2022/11/24
51: C01B
71: COLLEGE OF TECHNOLOGY AND ENGINEERING, MAHARANA PRATAP UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, NARNAWARE, Sunil Lalji, PANWAR, Narayan Lal
72: NARNAWARE, Sunil Lalji, PANWAR, Narayan Lal
54: BUBBLING FLUIDIZED BED GASIFIER FOR HYDROGEN RICH SYNGAS FROM AGRO-WASTE
00: -
A novel bubbling fluidized bed gasifier machine for hydrogen enrichment of sysngasand methodology for production of hydrogen enriched syngas from the gasification of agricultural crop residues have been disclosed herein. A bubbling fluidized bed gasifier machine consists of components gasifier reactor, plenum chamber, air distributor plate, cyclone separator, biomass feeding unit, air bower, air flow meter, support frame for gasifier system, steam generator and electrical control panel. Agricultural crop residues are convertedinto to powdered form and hen used as a feed material for the gasifier system. The gasification process takes place at 700 -850 oC in the measured quantity of air-steam and converts the biomass into combustible syngas. Primary heating of the gasifier reactor is carried out with the help of the electrical heater. Air supplied using air blower while steam is supplied by steam geberator. The syngas produced through air-steam gasification produced more hydrogen concentration due to the injection of steam which trigger the water gas shift reaction which takes place between CO and H2O to generate more hydrogen. The generated syngas can be used for thermal application or power generation using suitable conversion device. The developed system has useful application for energy generation from waste biomass and provide an opportunity for the entrepreneurship.

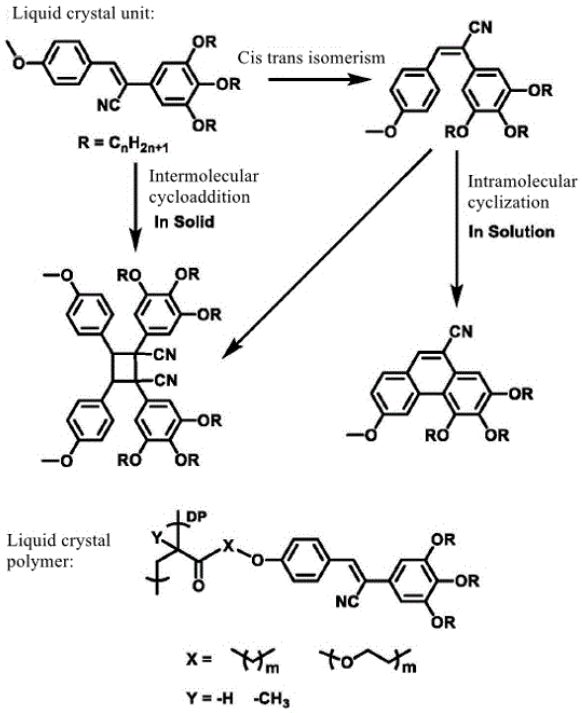


21: 2022/11020. 22: 2022/10/10. 43: 2022/11/29
51: C09K
71: Northwestern Polytechnical University
72: Bin Mu

54: MULTI-STAGE PHOTORESPONSIVE FLUORESCENT LIQUID CRYSTAL UNIT, POLYMER AND PREPARATION METHOD THEREOF

00: -

The invention relates to a multi-stage photoresponsive fluorescent liquid crystal unit, a polymer and preparation method thereof, which are introduced into a polymer system to obtain a fluorescent liquid crystal polymer with multi-stage photoresponsive characteristics. The invention first separates and purifies the photochemical reaction products of fluorescent liquid crystal units under different light stimulation conditions, and establishes the molecular mechanism of multi-stage light response process and the control elements of the reaction. Then, the fluorescent liquid crystal unit is introduced into the polymer system in the form of polymer side group to prepare a fluorescent liquid crystal polymer with multi-stage light response characteristics. Compared with the existing liquid crystal polymer materials that only transition between two states, this multi-stage photoresponsive fluorescent liquid crystal polymer that can transition between multiple states in turn will show greater application prospects in the fields of information storage, anti-counterfeiting encryption and multi-color fluorescence sensing.



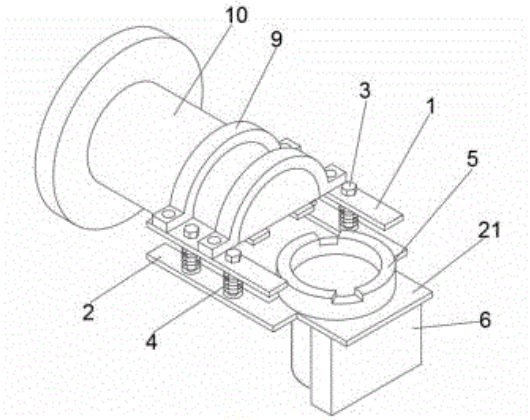
21: 2022/11021. 22: 2022/10/10. 43: 2022/11/29
51: G01N
71: Anhui Science and Technology University
72: GUO, Teng, WANG, Yibo, DU, Yongxin, WU, Jingyong, WANG, Xuchun
33: CN 31: 202111181526.0 32: 2021-10-11

54: ROTATABLE SAMPLE STAGE FOR MATCHING VERTICAL GONIOMETERS IN X-RAY DIFFRACTION ANALYSIS

00: -

Disclosed is a rotatable sample stage for matching vertical goniometers in X-ray diffraction analysis. The rotatable sample stage includes a clamping frame and a connecting frame, where the connecting frame is provided with a mounting plate, the mounting plate is provided with a round hole, the clamping frame is connected to the connecting frame by means of bolts, the bolts between the clamping frame and the connecting frame are sleeved with springs, the round hole is provided with a sample holder, the sample holder is provided with a connecting rod, the mounting plate is provided with a driving device, and the sample holder is provided with an object stage. The present invention is suitable for an analysis environment of a rotating test in the vertical goniometer, and other parts of the sample stage are

prevented from generating interference signals, such that a test effect is improved.

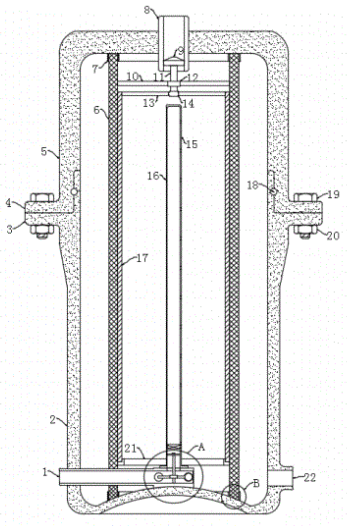


21: 2022/11022. 22: 2022/10/10. 43: 2022/11/29
51: B01D; C02F
71: Institute of Energy Research, Jiangxi Academy of Sciences
72: GUI, Shuanglin, JIANG, Qinliang, YAN, Bing, XIA, Song, FU, Jiaqi

54: ULTRASONIC ANTI-POLLUTION DETACHABLE ULTRAFILTRATION MEMBRANE SYSTEM

00: -

Disclosed is an ultrasonic anti-pollution detachable ultrafiltration membrane system, including an upper shell and a lower shell arranged below the upper shell, where the upper shell and the lower shell are fixedly connected by an mounting mechanism, a filter chamber is formed between the upper shell and the lower shell, a mounting ring is fixedly connected to the inner top of the upper shell, a locating ring is fixedly connected to the inner bottom of the lower shell, a fiber membrane core of ultrafiltration membrane for water filtration and purification is arranged between the locating ring and the mounting ring, a water inlet is arranged through the central position of the upper shell, and a cleaning mechanism for cleaning the fiber membrane core of ultrafiltration membrane is arranged inside the water inlet.

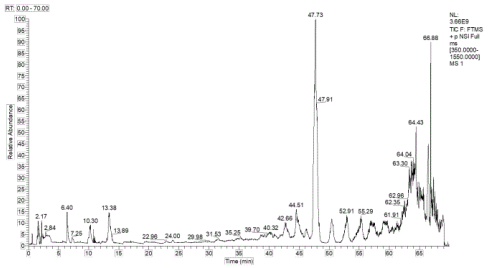


21: 2022/11023. 22: 2022/10/10. 43: 2022/11/29
51: G01N
71: National Institutes for Food and Drug Control
72: ZHANG, Ping, WEI, Feng, MA, Shuangcheng, KANG, Shuai, LI, Juan, LIU, Wei, LI, Minghua, LU, Tulin

54: METHOD FOR ESTABLISHING FUNGAL PROTEOLYSIS PEPTIDE MASS FINGERPRINTS

00: -

The present disclosure discloses a method for establishing fungal proteolysis peptide mass fingerprints. The method includes the steps of extracting fungal protein; purifying and enzymatically hydrolyzing a fungal protein solution; and performing ultraperformance liquid chromatography-mass spectrometry (UPLC-MS) analysis on the enzymatically hydrolyzed fungal protein solution, establishing MS fingerprints according to a method under mass spectrometry-chromatography conditions, and conducting a methodological study. The MS fingerprints provide a big data support for further searching characteristic ions of cordyceps sinensis and various fermented cordyceps sinensis preparations. The method disclosed by the present disclosure has the advantages of simplicity in operation, high sensitivity and accuracy, and the like. The quality conditions of a fungal proteolysis peptide of each sample can be controlled from overall characteristics of a mass spectrum, and a new scientific method is provided for quality control and authenticity identification of cordyceps sinensis and various fermented cordyceps sinensis powder and preparations.



21: 2022/11024. 22: 2022/10/10. 43: 2022/11/29
51: C12N; C12R
71: SHANXI GINKGO FOOD TECHNOLOGY DEVELOPMENT CO., LTD
72: WANG, Xinghua

54: GINKGO BILOBA L. BIOLOGICAL ORGANIC SELENIUM VINEGAR AND PRODUCTION METHOD THEREOF

00: -

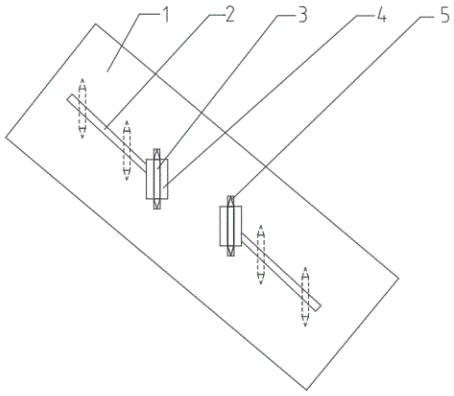
The present disclosure provides Ginkgo biloba L. biological organic selenium vinegar and a production method thereof. The Ginkgo biloba L. biological organic selenium vinegar is prepared by a solid-state fermentation bioengineering technology, wherein Ginkgo biloba L. and Fagopyrum tataricum (L.) Gaertn. are taken as main raw materials and mixed with sodium selenite, yeast for making hard liquor and saccharomyces cerevisiae, the mixture is subjected to saccharifying, alcoholic fermentation, biological organic selenium synthesizing and acetic fermentation, and then the fermented product is subjected to smoking, leaching vinegar and aging, thereby obtaining the Ginkgo biloba L. biological organic selenium vinegar. The Ginkgo biloba L. biological organic selenium vinegar produced by the present disclosure has the characteristics of common vinegar, is rich in biological organic selenium such as selenoprotein, selenium amino acid and selenium polysaccharide synthesized by microbes, and is pure in taste, and the contained biological organic selenium is high in safety.

21: 2022/11025. 22: 2022/10/10. 43: 2022/11/29
51: C03B; G02B
71: Qingdao University of Technology
72: SHAO, Jing, LI, Jinxuan, WANG, Yingming, ZHAO, Facai, HAN, Suli, LI, Zhuo, DONG, Hao
33: CN 31: 202210726324.8 32: 2022-06-24

54: SYSTEM AND METHOD FOR RAPID ASSEMBLY OF OFF-AXIS PARABOLIC MIRROR GROUP

00: -

Provided is a system and method for rapid assembly of an off-axis parabolic mirror group, including a bottom plate, on which a sliding mechanism and a limiting mechanism are installed, the sliding mechanism includes a guide rail, a sliding block and an adapting part; the sliding block is installed on the guide rail and is capable of sliding along the guide rail; the adapting part is installed on the sliding block, and the adapting part is used to install an off-axis parabolic mirror; the limiting mechanism is used to limit the sliding block; and the radial alignment of off-axis parabolic mirror is ensured through the guide rail, and the axial alignment of off-axis parabolic mirror is ensured through the adjustment buckle and the limiting holes, making the entire assembly and adjustment process rapid and convenient, and also guaranteeing the accuracy of assembly and adjustment.



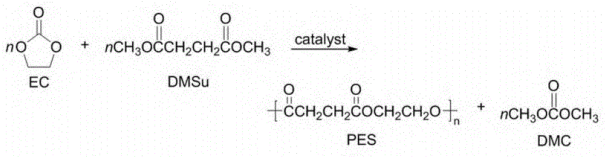
21: 2022/11026. 22: 2022/10/10. 43: 2022/11/29
51: C07D; C08G
71: Shenyang University of Technology
72: GUO, Liying, ZHAO, Xiudan, XU, Tiejun, WANG, Haiyue, ZHENG, Rongrong, HAN, Lei, WANG, Liyan, LIAO, Zhangbin, ZHOU, Qiao
33: CN 31: 202210150173.6 32: 2022-02-18

54: FUNCTIONALIZED TIN IMIDAZOLIUM CATALYST, AND PREPARATION METHOD AND APPLICATION THEREOF IN SYNTHESIS OF PES

00: -

The present disclosure relates to a functionalized tin imidazolium catalyst, and a preparation method and an application thereof in synthesis of polyethylene

succinate (PES). The catalyst structurally includes a Lewis acidic anionic group and a Brønsted acidic cationic group. The catalyst is prepared by such steps that alkyl imidazolium reacts with raw materials with functional groups according to a certain proportion to obtain intermediates I; and Lewis acidic chlorinated metal salt and prepared diluted hydrochloric acid with a specific concentration are mixed under the protection of nitrogen atmosphere, and the obtained mixtures are added to the molten intermediates I to obtain functionalized imidazole sulfonic acid group, acetate and hydroxyl tin tetrachloride catalysts. The catalyst of the present disclosure is used for synthesizing PES through a coupling reaction between ethylene carbonate and dimethyl succinate, and meanwhile co-producing dimethyl carbonate (DMC).



21: 2022/11027. 22: 2022/10/10. 43: 2022/11/29
51: A01G
71: Guangxi Academy of Specialty Crops
72: DENG Chongling, LIU Shengqiu, LI Xianliang, TANG Yan, LU Yuejian, YAN Yong, CHEN Chuanwu, WU Xiaoxiao

54: CITRUS SEEDLING SUBSTRATE AND PREPARATION METHOD THEREOF

00: -

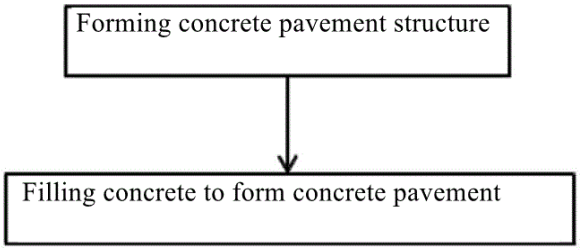
The invention discloses a citrus seedling substrate and a preparation method thereof, belonging to the technical field of plant seedling propagation. The citrus seedling substrate is prepared from the following raw materials in percentage by weight: 50%-60% of yellow clay, 10%-15% chaff, 15%-20% of fermented wood bran, 7%-11% of organic fertilizer, 4%-7% of chaff ash, 2%-3% of calcium magnesium phosphate fertilizer and 0.1%-0.3% of zinc sulfate, 0.1%-0.3% of magnesium sulfate and 0.1%-0.3% of ferrous sulfate. The invention also discloses a preparation method of the citrus seedling substrate. The citrus seedling substrate of the invention is made according to the physiological characteristics of citrus seedlings, which is loose, breathable, good in water storage and drainage, and has the advantages of neat seedling emergence, short seedling age, strong growth, few plant diseases and insect pests, no root damage during transplanting, high survival rate after planting, short slow seedling period, improved plant disease resistance, reduced soil-borne diseases, enhanced stress resistance and the like.

21: 2022/11028. 22: 2022/10/10. 43: 2022/11/29
51: E01C
71: Changsha University of Science and Technology
72: Li Liu, Zhaohui Liu, Boyang Pan, Chengcheng Yang, You Huang, Wenbo Li, Leixin Liu, Jiahao Sheng, Shuai Niu

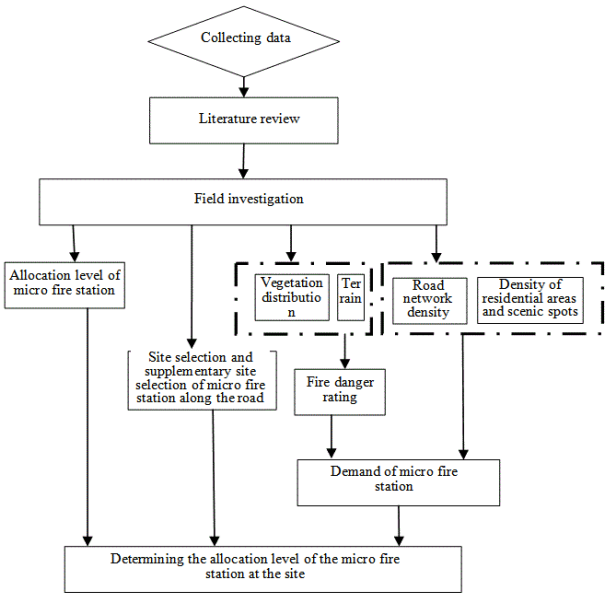
54: CONCRETE PAVEMENT CRACK INDUCTION METHOD AND CONCRETE PAVEMENT STRUCTURE

00: -

The invention relates to a concrete construction method, and discloses a concrete pavement crack induction method which comprises the following steps: S1, forming the following arrangement structure on a roadbed: arranging continuous reinforcements at intervals along the road width direction, and arranging a plurality of local reinforcement groups along the pavement extension direction, the local reinforcing pieces in each local reinforcing piece set are arranged between the intervals of the continuous reinforcing pieces arranged at intervals in a scattered mode, the extending direction of the local reinforcing pieces and the extending direction of the continuous reinforcing pieces are consistent with the extending direction of the road surface, and crack inducing pieces are correspondingly placed on the local reinforcing piece sets, and each crack inducer is crossed with the local reinforcer and the continuous reinforcer; and S2, filling concrete to form a concrete pavement. In addition, the invention further provides a concrete pavement structure. The concrete pavement crack induction method has the advantages that the use amount of reinforcements can be reduced, and the cost of the whole project is reduced; and the sizes of the cracks are not increased, and the formed cracks are uniform.

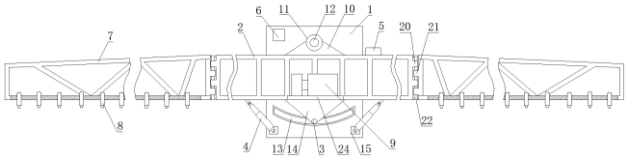


21: 2022/11029. 22: 2022/10/10. 43: 2022/11/29
51: A62C
71: Southwest Forestry University
72: GAO Zhongliang, WANG Hechenyang, LI Zhi, SHU Lifu, LONG Tengteng, WANG Qiuhua, HAN Li, WANG Qie, CAO Yufei, YU Wentian
54: METHOD AND SYSTEM FOR SITE SELECTION AND ALLOCATION OF MICRO FOREST FIRE STATION INTEGRATING MULTIPLE DATA SOURCES AND DEMAND DEGREE
00: -
The invention discloses a method and a system for site selection and allocation of a micro forest fire station integrating multiple data sources and demand degree, which comprise the following steps: obtaining the fire risk rate, the distance between residential areas, scenic spots and the traffic conditions of a research area; calculating the demand level of micro fire station in the study area; calculating the allocation level of micro fire station; making preliminary site selection, optimizing and supplementing, and completing the allocation in combination with the allocation level of micro fire station. The invention makes sufficient use of the spare space of the road, does not damage the environment, avoids the complicated investigation and construction conditions and the preliminary preparation links, and ensures the economy, safety and convenience.



21: 2022/11030. 22: 2022/10/10. 43: 2022/11/29
51: A01G
71: HEILONGJIANG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES
72: CHEN Baochang
54: SPRAY BAR SELF-BALANCING SPRAYER
00: -
The invention discloses a spray bar self-balancing sprayer, which comprises a support assembly, wherein the support assembly comprises a mounting plate, the mounting plate is fixedly connected with traction equipment, the mounting plate is rotatably connected with a first bracket, the first bracket is fixedly connected with a sliding pin, the sliding pin is slidably connected with the mounting plate, a plurality of electric telescopic rods are arranged between the first bracket and the mounting plate, the first bracket is fixedly connected with an inclination sensor, the electric telescopic rods and the inclination sensor are electrically connected with a controller, the controller is fixedly connected with the mounting plate, and the two sides of the first bracket are rotationally connected with the second bracket; the spray assembly comprises a plurality of nozzles, the nozzles are communicated with a spray pump, the spray pump is fixedly connected to the second bracket, the liquid inlet end of the spray pump is communicated with a liquid medicine tank, and the liquid medicine tank is fixed on the traction equipment. The device can keep the spray rod in a balanced state, reduce the uneven spraying of liquid

medicine, and make the spraying work more convenient.

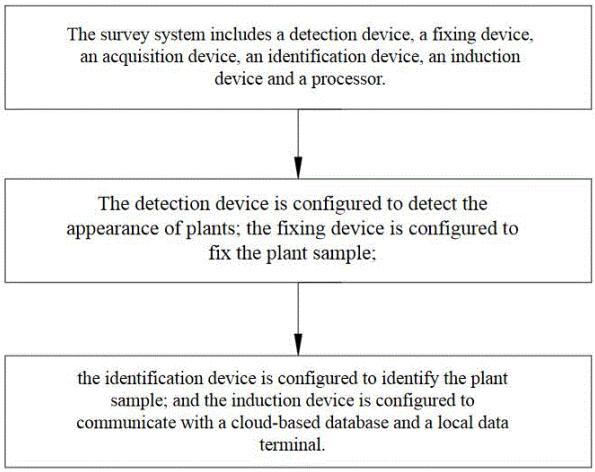


21: 2022/11031. 22: 2022/10/10. 43: 2022/11/29
51: G06Q
71: Hunan Academy of Forestry, GUILIN UNIVERSITY OF AEROSPACE TECHNOLOGY, Yuelu Mountain Tourism Culture Development Co. LTD, Hunan Cooperative Center for Water Resources Research and Utilization, Central South University of Forestry & Technology, Hunan Nanyue Hengshan National Nature Reserve Administration, HUNAN AUTOMOTIVE ENGINEERING VOCATIONAL COLLEGE, HUNAN SPORTS VOCATIONAL COLLEGE
72: ZENG Zhangquan, ZHANG Dejun, WU Weihong, XIAO Yaqin, SONG Yang, WU Xin, LI Minghong, XIA Jianglin, YANG Rui, WANG Ying, QUE Huafei, TIAN Yuxin, NIU Yandong, LUO Jia, MA Fengfeng, DENG Nan, WU Xiaoli, XU Jialuan

54: SURVEY SYSTEM FOR INTELLIGENTLY IDENTIFYING EXOTIC PLANTS BASE ON BIG DATA

00: -

The invention provides a survey system for intelligently identifying exotic plants based on big data, wherein the survey system includes a detection device, a fixing device, an acquisition device, an identification device, an induction device and a processor; the detection device is configured to detect the appearance of plants; the fixing device is configured to fix the plant sample; the identification device is configured to identify the plant sample; and the induction device is configured to communicate with a cloud-based database and a local data terminal. The invention ensures that the whole system accurately identifies the plant features by using the identification device and the sensing device together.

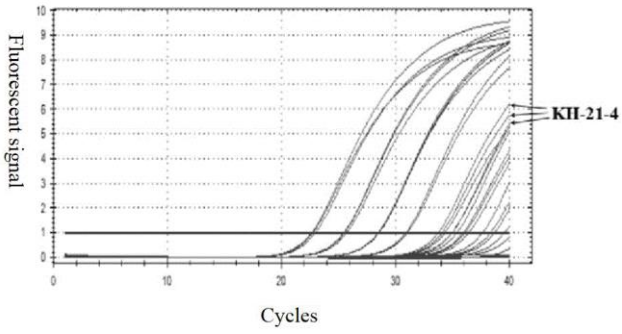


21: 2022/11032. 22: 2022/10/10. 43: 2022/11/29
51: C12N
71: Guangxi Academy of Specialty Crops
72: DENG Chongling, TANG Yan, LOU Binghai, WU Xiaoxiao, LIU Ping, CHEN Chuanwu, NIU Ying, ZHANG Gebi

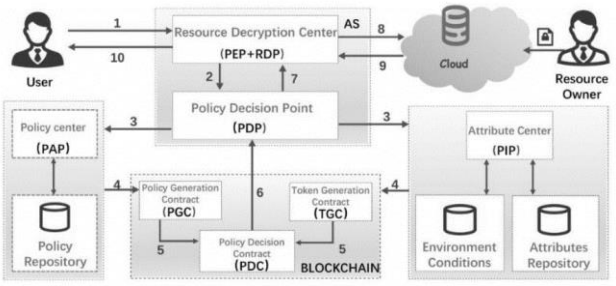
54: RAPID IDENTIFICATION METHOD OF GERMPLASM MATERIALS WITH RESISTANCE OR TOLERANCE TO CITRUS HUANGLONGBING

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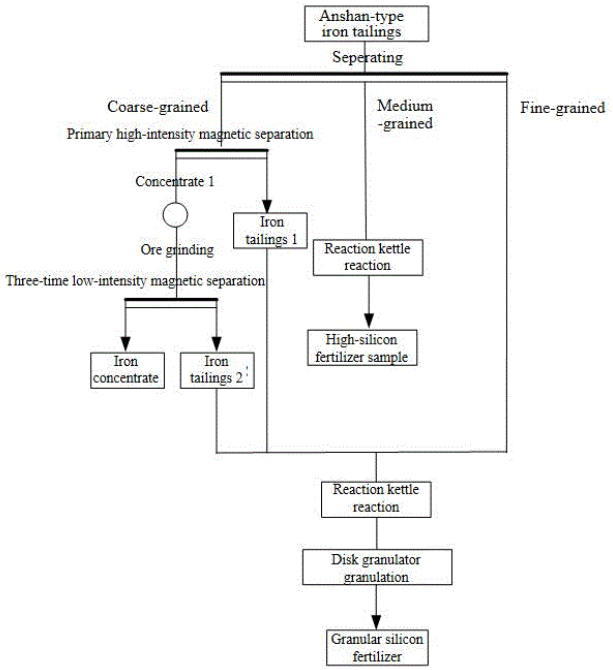
Disclosed is a rapid identification method of germplasm materials with resistance or tolerance to citrus Huanglongbing, and the method relates to the technical field of agriculture. The rapid identification method of germplasm materials with resistance or tolerance to citrus Huanglongbing, including the following steps: step 1: collecting germplasm materials to be identified; step 2: selecting citrus trees that have grafting affinity to the germplasm materials to be identified in step 1 and are infected with Huanglong pathogen as top grafting trees; step 3: top grafting; step 4: field management; step 5: field symptom observation; step 6: real-time fluorescence quantitative PCR detection; and step 7: result evaluation. in this invention, it is the first time that the germplasm materials to be identified are directly grafted on citrus Huanglongbing trees to identify their resistance or tolerance, and there are no other similar reports at home and abroad.



21: 2022/11033. 22: 2022/10/10. 43: 2022/11/29
51: G06F
71: Zhejiang Gongshang University
72: XIE Mande, FU Qiang, YU Jun
54: ATTRIBUTE-BASED BLOCKCHAIN DATA ACCESS CONTROL SCHEME IN CLOUD ENVIRONMENT
00: -
With the rapid development and innovation of the Internet, cloud storage services have significantly changed the way data is shared. However, cloud storage still faces many challenges in terms of privacy protection and fine-grained access control. In order to solve the above problems, the present invention proposes a new attribute-based blockchain security cloud data access control (ABSC) framework for real-time attribute tokens, which realizes the joint management of attributes by multiple authorities. At the same time, the present invention emply smart contracts to generate encryption policies, attribute tokens of each attribute center, and make policy decisions, which effectively reduces the communication and computing overhead of data users. Additionally, blockchain facilitates recording access control processes in a secure and auditable manner. Finally, the present invention analyze the security of the algorithm and evaluate the system performance according to the experimental results. The results indicate that our scheme is reliable and easy to implement.



21: 2022/11034. 22: 2022/10/10. 43: 2022/11/29
51: B03B; B03C; C05D
71: North China University of Science and Technology
72: NIU Fusheng, ZHANG Hongmei, ZHANG Jinxia
54: COMPREHENSIVE UTILIZATION METHOD OF ANSHAN-TYPE IRON TAILINGS
00: -
This invention relates to the technical field of mining engineering, and in particular to a comprehensive utilization method of Anshan-type iron tailings. The method includes: carrying out coarse, medium and fine classification on high-silicon iron tailings to obtain product with different grain sizes; pre-enriching coarse-grained products by primary high-intensity magnetic separation to produce concentrate 1 and iron tailings 1; enriching concentrate 1 by low intensity magnetic separation for three times after grinding, and producing iron concentrate and iron tailings 2; using medium-sized products as aggregate, adding alkaline activator to stimulate silicon activity, catalyst to reduce reaction time and flux to reduce reaction temperature, and preparing high silicon fertilizer samples; and mixing the fine-grained products with the iron tailings 1 and iron tailings 2 products, and adding the activator, catalyst and flux to prepare the fine-grained high-silicon fertilizer samples, and granulating the products by a granulator to prepare granular silicon fertilizer.

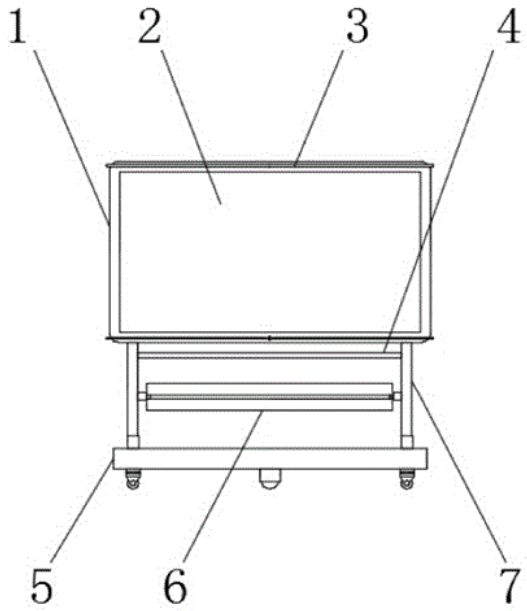


21: 2022/11035. 22: 2022/10/10. 43: 2022/11/29
51: G09B
71: Nantong University
72: Jie Jia, Jianzhong Zhou, Yi Xu, Xiaoyan Lu, Jiaqi Hao, Rui Gao, Lingling Liu

54: CLASSICAL DOCUMENT IMAGE DISPLAY EQUIPMENT FOR DISTANCE EDUCATION

00: -

The invention discloses classical document image display equipment for distance education. The classical document image display equipment comprises a display equipment body; a display screen is arranged on the outer surface of the front end of the display equipment body; a screen protection mechanism is arranged at the front end of the display screen; a reinforced cross beam is arranged at the lower end of the display screen; a movable object placing mechanism is arranged at the lower end of the reinforced cross beam; and an adaptive base is arranged at the lower end of the movable object placing mechanism. According to the classical document image display equipment for the distance education provided by the invention, through the arrangement of the adaptive base, the display orientation adjustment of the whole equipment can be more convenient while the stability is ensured, so that the display of contents is better carried out; through the arrangement of the screen protection mechanism, the display screen can be more conveniently and effectively protected, so that the service life is effectively prolonged; and through the arrangement of the movable object placing mechanism, the convenience in use can be better improved on the basis of ensuring the storage capacity of articles, and the actual use effect of the whole equipment is finally improved.



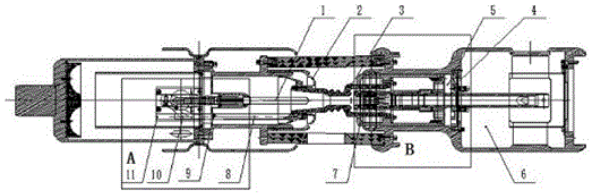
21: 2022/11036. 22: 2022/10/10. 43: 2022/11/29
51: H01H
71: Shandong Dachi High Voltage Switchgear Co., Ltd.
72: Yuguo Chen, Rui Chen, Shuo Wang, Yongchen You

54: DOUBLE-ACTING ARC EXTINGUISH CHAMBER STRUCTURE OF 252KV GIS (GAS INSULATED SWITCHGEAR) CIRCUIT BREAKER

00: -

The utility model discloses a 252kV GIS circuit breaker double-acting arc extinguish chamber structure, comprising a static arc contact, a nozzle, a moving arc contact, an air compression chamber and a thermal expansion chamber which are arranged in an arc extinguish chamber housing from left to right in sequence, the static arc contact extends rightwards to a left opening of the nozzle, and the thermal expansion chamber extends rightwards to a right opening of the nozzle. A movable arc contact is arranged in the opening in the right side of the spray head, the movable arc contact is fixedly connected with the spray head, the movable arc contact sequentially penetrates through

the air compression chamber and the thermal expansion chamber, the spray head is connected with a traction rod, the traction rod is connected with a shifting fork through a transmission pin, and the shifting fork is connected with a static arc contact. According to the arc extinguish chamber structure, transmission of the arc extinguish chamber of the circuit breaker is changed into a double-moving-contact transmission device from single-moving-contact transmission, the operating work requirements of multiple operating mechanisms are greatly reduced, a spring operating mechanism can be configured, and the cost is greatly reduced.



21: 2022/11037. 22: 2022/10/10. 43: 2022/11/29
51: A01C
71: Institute of Highland Forest Science, Chinese Academy of Forestry
72: CUI, Kai, GAO, Chengjie, SU, Jianrong, LI, Kun, MIAO, Yingchun, LI, Jin

54: A TRANSPLANTING METHOD OF ADULT YUNNAN PINES

00: -

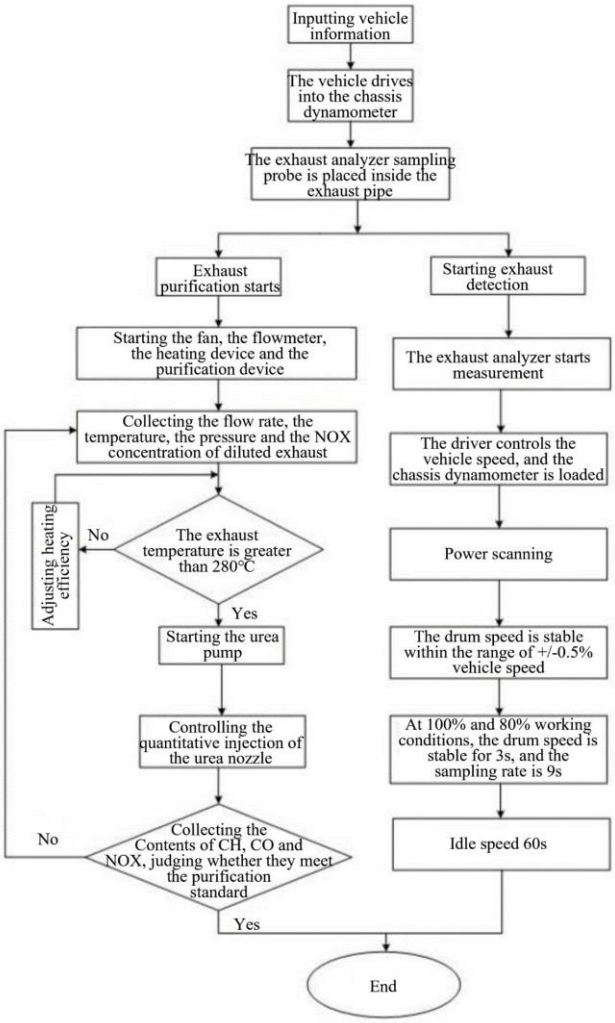
The invention relates to a method for transplanting adult Yunnan pines, including transplanting site conditions and the selection of Yunnan pines, cleaning up the diseased and dead branches 3 months before the transplanting, cutting downward the soil ball with trees and roots centered around the tree body, keeping the main root in the pit, cutting 1/4 of the lateral and fibrous roots facing south and north, cutting 1/4 of the lateral and fibrous roots facing east and west 1 month later, treating with rooting agent and keeping the water portion up; digging out the planting holes, mixing the calcium perphosphate with the soil and filling it back into the planting hole, breaking the main root, treating the broken parts of the main root with polybacterein solution, naphthalene acetic acid solution, wrapping it with grass ropes, moving to the planting holes in the transplanting site, building a sunshade net, spraying alachlor solution on the pine trees and needles evenly once every 15 days, totally four times to prevent the needles from transpiration, keeping the air humidity around the tree at 80-90%. The survival rate of the transplanting exceeds 95%.

21: 2022/11038. 22: 2022/10/10. 43: 2022/11/29
51: B01D
71: Shandong Jiaotong University
72: Wanyou HUANG, Yuanchen WEN, Yujian ZOU, Shiwei TAN, Ruixia CHU, Fangyuan QIU, Yue SUN, Chengjie GU, Kesong ZHANG, Zhihua LIU, Yaxun LI, Yajing GUO
33: CN 31: 202210425160.5 32: 2022-04-22

54: METHOD AND SYSTEM FOR PURIFYING EXHAUST OF DIESEL VEHICLE EMISSION INSPECTION INSTITUTION

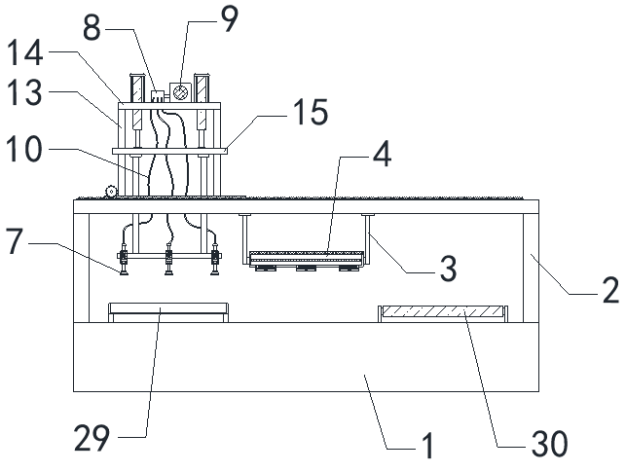
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The present disclosure discloses a method and a system for purifying exhaust of a diesel vehicle emission inspection institution, which are applied to the technical field of treating motor vehicle exhaust. The method comprises: inputting vehicle information; driving a negative-pressure fan to extract vehicle exhaust, collecting flow rate, heating to the optimum working temperature of a catalyst and performing purification treatment; judging whether the exhaust after purification treatment reaches the purification standard, and if not, heating and performing purification treatment again. The present disclosure discloses a method and a system for purifying exhaust of a diesel vehicle emission inspection institution, which realize the detection and purification of exhaust emission of a motor vehicle whenever and wherever possible. In addition, the regeneration mode used when DPF is blocked uses a negative-pressure fan and a heating device in a measuring module to remove soot with small air volume and high temperature, that is, DPF regeneration is realized by controlling flow and temperature.



21: 2022/11039. 22: 2022/10/10. 43: 2022/11/29
51: B22C
71: Qingdao Shengmei Machinery Co.,Ltd
72: Pang Zonggang, Meng Xianfeng, Zhang Zhiqiang, Pang Zengmiao, Zhou Tianbo
33: CN 31: 202220912015.5 32: 2022-04-19
54: FILM COATING DEVICE WITH FILM SPREADING PLATFORM
00: -

The Invention patent relates to the technical field of film laminators, in particular to a film laminator with a film spreading platform, which improves the operation convenience of the film laminator in automatically conveying and baking films, reduces the danger of personnel in hand-baking the films, improves the working efficiency, and improves the practicability of the film laminator. Comprises a base, a first bracket, a moving device, a buffer device, a second bracket, a tank body, electric heating wires, a first protective net, multiple groups of sucking discs, an air box, an air suction pump, multiple groups of hoses and multiple groups of air pipes, wherein the bottom end of the first bracket is connected with the top end of the base, A first protective net is arrange at an opening at that top end of the groove body, a plurality of groups of suc discs are respectively communicated and arranged at the bottom end of a plurality of groups of air pipes, the air pipes are all arranged on a moving device through a buffer device, the moving device is arranged at the top end of a first bracket, and the moving device lifts and moves the sucking discs left and right.



21: 2022/11041. 22: 2022/10/10. 43: 2022/11/24
51: H01S
71: TAWALARE, Pritee Kishor, BAJAJ, Nikhilesh Subhashchandra, OMANWAR, Shreeniwas Kerba
72: TAWALARE, Pritee Kishor, BAJAJ, Nikhilesh Subhashchandra, OMANWAR, Shreeniwas Kerba
54: A NEAR INFRARED EMISSION IN BIYMOO6
00: -

The present invention relates to a near infrared (NIR) emission in BiYMoO6. The object of the proposed invention is to provide a novel results on NIR emission of activators Nd3+and Yb3+ in BiYMoO6 host. In the embodiment, BiYMoO6:xNd3+, yYb3+ (x=1-5 mol.%, y=1-10 mol.%) phosphors are synthesized by conventional solid-state reaction. Characteristic emission of Nd3+ and Yb3+ in the NIR is observed. Excitation for Nd3+ is in the form of host sensitization, similar to f-f transitions. Yb3+ emission, on the other hand could be observed on account of energy transfer from Nd3+. No other excitation like host sensitization, charge transfer excitation, etc. is observed.

21: 2022/11042. 22: 2022/10/10. 43: 2022/11/24
51: G06N
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: RATHI, Snehal Rahul, SAKHARE, Sachin Rambhau, GHULE, Gauri Vaijukumar, RAJE, Atharv Nitin, SHITOLE, Soham Sanjay, SANKPAL, Shruti Deelip
54: A SYSTEM FOR QUESTION GENERATION FROM IMAGES USING DEEP LEARNING TECHNIQUES
00: -
The natural task of human intelligence is to ask a question. Asking a question is an aspect of human curiosity that leads to inventions and discoveries. That's why in artificial intelligence train systems to generate questions is an important task. We have proposed a system that generates images' questions using deep learning algorithms. This is a system which can be further extended to do more specific tasks of question generation with the relevant dataset. This question generation technique will help in creating question banks and assist in many teaching activities.

21: 2022/11043. 22: 2022/10/10. 43: 2022/11/24
51: G06N
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: RATHI, Snehal Rahul, CHAVHAN, Pranali Gajanan, MORE, Priyanka Dhananjay, OSWAL, Samkit Dinesh, AHUJA, Ayushi Santosh
54: A SYSTEM FOR ACADEMIC EMOTIONS USING CNN-RNN FOR CLASSIFICATION AND CNN-LSTM FOR RECOGNITION
00: -
As all know, online education systems have evolved during the past two years as physical teaching has been blocked due to the pandemic situation around the globe. So this project plays an important role in understanding the academic emotions of students such as Boredom, Confusion, Engagement and Frustration during E-learning. User can track the progress of students using this technology for better understanding and communication between teachers and students. Our technology is basically focused on the deep learning approach, for classification we are using Convolutional Neural Network (CNN) along with Recurrent Neural Network (RNN) and for recognition we are using Convolutional Neural Network (CNN) along with Long-Short Term Memory (LSTM).

21: 2022/11044. 22: 2022/10/10. 43: 2022/11/24
51: G06Q
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: BEWOOR, Laxmi A., DESHPANDE, Leena A., REGE, Pallavi R., FIONA, S. J.
54: A FACE MASK SAFETY DETECTION SYSTEM TO PREVENT THE SPREAD OF COVID-19 USING YOLOV3
00: -
Object detection is a computer vision technique that allows us to identify and locate objects in an image or video. With this kind of identification and localization, object detection can be used to count objects in a scene and determine and track their precise locations, all while accurately labelling them. For example, an image that contains two cats and a person. Object detection allows us to at once classify the types of things found while also locating instances of them within the image. Object recognition is a general term to describe a collection of related computer vision tasks that involve identifying objects in digital photographs. Image classification involves predicting the class of one object in an image. Object localization refers to identifying the location of one or more objects in an image and drawing abounding box around their extent. Object detection combines these two tasks and localizes and classifies one or more objects in an image. It is widely used in computer vision tasks such as image annotation, activity recognition, face detection, face recognition, video object co-segmentation. It is also used in tracking objects, for example tracking a ball during a football match, tracking movement of a cricket bat, or tracking a person in a video. YOLO predicts multiple bounding boxes per grid cell. At training time we only want one bounding box predictor to be responsible for each object. We assign one predictor to be "responsible" for predicting an object based on which prediction has the highest current IOU with the ground truth. This leads to specialization between the bounding box predictors. Each predictor gets better at predicting certain sizes, aspect ratios, or classes of object, improving overall recall.

21: 2022/11045. 22: 2022/10/10. 43: 2022/11/24
51: G06Q
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: WAWAGE, PAWAN SUBHASH, DESHPANDE, YOGESH, NAZIRKAR, Shardul, SHINDE, Harsh Pratap, PATIL, Chetan Dipak, SHELKE, Priya M.

54: A SYSTEM FOR DRIVER BEHAVIOUR AND USAGE BASED INSURANCE

00: -

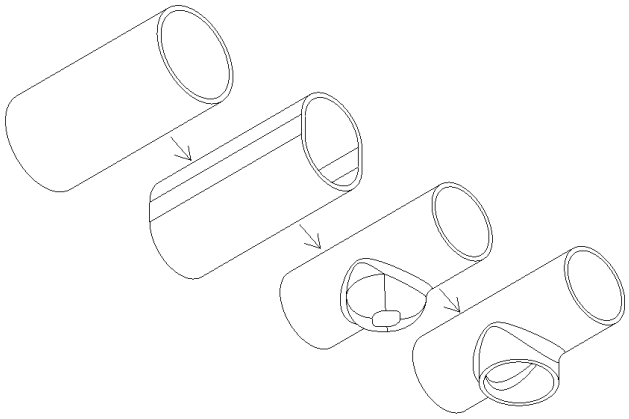
The present invention provides a machine learning model that will help us calculate the safety-scores of drivers/customers based on where and how the vehicle has been driven. We plan to achieve this using the data collected from sensors that are present on our smartphones. The project follows agile methodology. The tools and technologies used are: Python for building the machine learning model, Firebase for real-time Database, Google cloud platform for model deployment, Visual Studio Code for building and implementing machine learning algorithm, and Postman for API Services along with flask.

21: 2022/11046. 22: 2022/10/10. 43: 2022/11/29
51: B21D
71: HEBEI CANGHAI NUCLEAR EQUIPMENT CO., LTD
72: Pengfei Wang, Deqing Zhao, Wenguang Liu, Wenda Sun, Yongming Qi, Fukuan Li, Lianheng Wang, Yong Mao, Congjian Zhu
33: CN 31: 202211060289.7 32: 2022-08-31

54: FORMING PROCESS AND DEVICE OF THREE-WAY PIPE FOR PIPELINE ENGINEERING

00: -

The invention relates to the technical field of material processing, in particular to a forming process of a three-way pipe for pipeline engineering. The forming process includes the following steps that: S1, a heated blank pipe is horizontally placed on a lower die; S2, a drive assembly is started, the upper die descends from an initial height to an execution height relative to the lower die, in this process, a flattening mechanism flattens the blank pipe; S3, the drive assembly is continued to be started, in the process of moving the upper die from the execution height to a die assembly height, the flattening mechanism releases the blank pipe, the upper die abuts against the top end of the blank pipe and continues to press down, and the bottom of the blank pipe protrudes downwards to form a bulge; S4, before die assembly is about to be performed, a cooling mechanism is started to cool the upper die and the upper arc surface of the blank pipe until die assembly to form a complete bulge; and S5, the bulge is punched and drawn. The heat loss of the forming process is small, and the energy is saved. The invention further relates to a forming device of a three-way pipe for pipeline engineering.



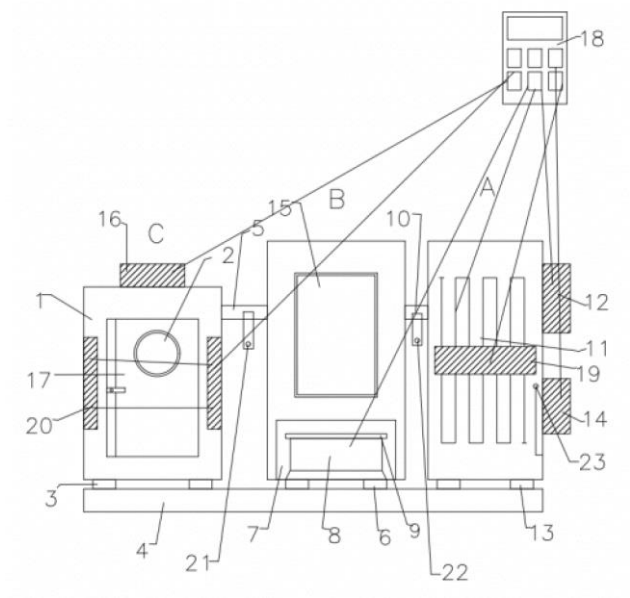
21: 2022/11047. 22: 2022/10/10. 43: 2022/11/29
51: A23B
71: Pingdu Bernia Food Co., Ltd.
72: ZHAO, Xiangjin, DAI, Aiguo, RONG, Qingjun, SUN, Jingxin, LI, Yugao, GAO, Wenhua, LIU, Gongming, HUANG, Ming, YAO, Xianqi, ZHENG, Qiankun, ZHANG, Huixin
33: CN 31: 202210802112.3 32: 2022-07-08

54: SEGMENTED ROAST SAUSAGE SMOKING OVEN THAT PROMOTES COLOR DEVELOPMENT, WRINKLING, FLAVOR ENHANCEMENT AND WOOD SAVING

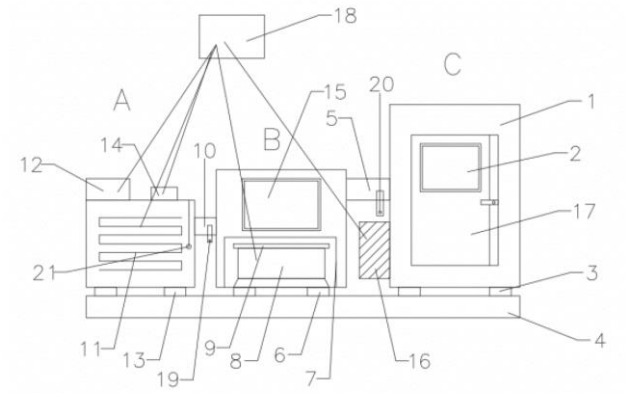
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The present invention discloses a segmented roasted sausage smoking oven that promotes color development, wrinkling, flavor enhancement and wood saving, and improving the drying and smoking efficiency of the roasted sausage by using techniques such as high-voltage electrostatic field, magnetic cutting and ultrasonic, thereby saving wood for smoking during processing and reducing the smoking cost of the roasted sausage, and at the same time, accelerating the color development, wrinkling, flavor enhancement of the roasted sausage and facilitating environmental protection. At the same time, the directional infiltration of flavor substances in the flue gas is promoted, which combines with the protein in the meat to produce the smoked taste, the ultrasonic device makes the air

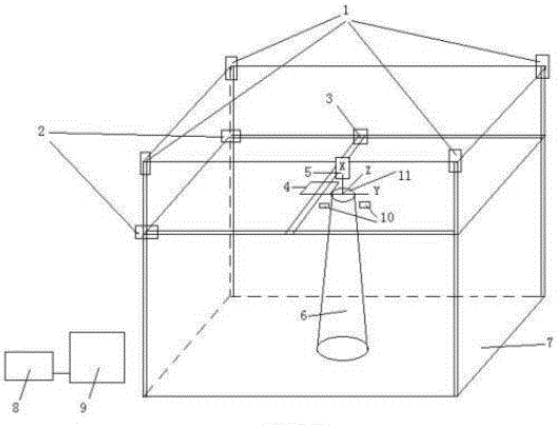
turbulent flow and circle, promote smoke penetration into the roasted sausage, improve smoking efficiency, facilitate roasted sausage color development, wrinkling, flavor enhancement.



21: 2022/11048. 22: 2022/10/10. 43: 2022/11/29
51: A23B
71: Pingdu Bernia Food Co., Ltd.
72: ZHAO, Xiangjin, DAI, Aiguo, RONG, Qingjun, SUN, Jingxin, LI, Yugao, GAO, Wenhua, LIU, Gongming, HUANG, Ming, YAO, Xianqi, ZHENG, Qiankun, ZHANG, Huixin
33: CN 31: 202210801669.5 32: 2022-07-08
54: SECTIONAL TYPE ULTRASONIC CIRCULATION SAUSAGE SMOKING OVEN WITH EFFECTS OF SAVING WOOD AND IMPROVING SMOKING EFFECT
00: -
The present invention discloses a segmented ultrasonic circulation roasted sausage smoking oven that saves wood and improves smoking effect, drying the roasted sausage by heating air, which saves the smoked wood during processing, reduces costs, and accelerates the wrinkling of the roasted sausage; at the same time, ultrasonic technology promotes the taste and other substances in the smoke to enter the roasted sausage, so that the roasted sausage turns into a red-brown color, which is characterized in that: the drying and smoking of roasted sausage are divided into two stages, in the first stage, the air is heated by fuel gas, the roasted sausage is dried, and wood is saved; in the second stage, the sawdust is heated to smoke, and the smoke vertically impinges on the roasted sausage by the power of the air compressor, so that the roasted sausage is smoked more thoroughly and evenly with higher efficiency.



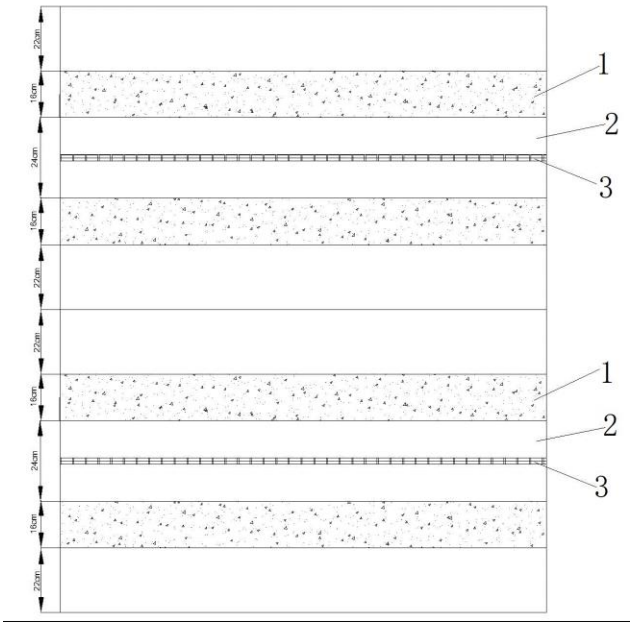
21: 2022/11049. 22: 2022/10/10. 43: 2022/11/29
51: G01M
71: Beijing Institute of Technology
72: HU, Changhua
54: FIVE-AXIS STATIC STIFFNESS TESTING DEVICE
00: -
A five-axis static stiffness testing device. According to the five-axis static stiffness testing device, five-axis loading is generated by means of motion control via a computer, such that bending, torsion, shear and tension-compression deformation are conducted on a tested structure, deformation values of all measurement points are obtained by a displacement sensor, and a load is measured by a force sensor. The device is simple, convenient and automatic to operate and suitable for high-precision static stiffness tests of various structures.



21: 2022/11050. 22: 2022/10/10. 43: 2022/11/29
51: G05B
71: yichun university
72: Qian Xiao Shan, Yuan Xin Mei, Xu Li Sha, Cui Xing Li, Ling Xiao Hui, Xiong Yin Guo, Yi Xiao Xi
33: CN 31: 202210849593.3 32: 2022-07-19
54: AN INTELLIGENT SAFETY PRODUCTION CONTROL SYSTEM
00: -
The invention provides an intelligent safety production control system, and relates to the technical field of safety production. The intelligent safety production control system comprises a general control system, a regional monitoring subsystems, a regional isolating system, a safety management and control system and a safety communication system, which are detailed as follows: The general control system comprises a cloud server, a local mainframe control room, a backup mainframe and an accident data recorder; The regional monitoring subsystem comprises an equipment monitoring module, a personnel monitoring module, an environment monitoring module and a data integration module; The regional isolating system comprises a fresh air module, a water curtain division module and a resource interruption module; The safety management and control system comprises a main switch of production power supply, a fire-fighting module, a light warning module and a loudspeaker warning module. In the invention, the environmental monitoring module of the regional monitoring subsystem is provided with the dangerous gases detection device which corresponds to the production products. And it can not only prevent fire potential hazards, but also cooperate with the regional isolating system to prevent and warn dangerous gases leakage.

21: 2022/11051. 22: 2022/10/10. 43: 2022/11/29
51: C07F
71: Luoyang Normal University
72: Wu Weilong, Ji Baoming
54: A TRIDENTATE NITROGEN PHOSPHINE LIGAND CONTAINING AROMATIC AMINE NH, ITS PREPARATION METHOD AND APPLICATION
00: -
The invention discloses a tridentate phosphine ligand containing aromatic amine NH, its preparation method and application, and belongs to the technical field of organic synthesis. The tridentate phosphine ligand of the present invention is the first tridentate phosphine ligand containing both quinoline amine structure and chiral ferrocene. The noble metal complexes of this type of ligand show good selectivity and extremely high catalytic activity in asymmetric hydrogenation reaction, and the cheap metal complexes of this ligand can also show good selectivity and catalytic activity in asymmetric hydrogenation reaction, and it is very easy to modify from both electronic effect and spatial structure, so this ligand has great potential application value. The catalyst formed by the ligand and the transition metal complex can be used for catalyzing various reactions and the synthesis of various drugs, and has important industrial application value.

21: 2022/11053. 22: 2022/10/10. 43: 2022/11/29
51: A01G
71: Chifeng Academy of Agricultural and Animal Husbandry Sciences
72: Hao Yongli, Gao Bo, Liu Qingpeng, Li Zelin, Cheng Ruibao, Yang Wei, Zhao Yushan, Zhao Yukai
54: HIGH-YIELD AND HIGH-EFFICIENCY CULTIVATION METHOD OF SUGAR BEET
00: -
The invention discloses a high-yield and high-efficiency cultivation method of sugar beet, which comprises the following steps: selecting a reasonable wide plastic film to lay on the ridge, covering the soil layer with a width of 16 cm and a thickness of 2-3 cm on the sugar beet sowing row, the film bed has a width of 24 cm; the edge of the film bed is 8 cm away from the sugar beet sowing row, and the sowing row is 30 cm away from the big ridge edge; the row spacing between small ridges is 40 cm, the row spacing between large ridges is 60 cm, and the plant spacing is 19-21cm. According to the invention, the whole-plastic film mulching is adopted, and a certain thickness of soil layer is covered on the film, so the dislocation phenomenon of seeds and holes is effectively avoided; seedling burning is avoided, and manual seedling checking and seedling placing links are omitted; moreover, the dominant growth terrain is constructed, which effectively improves the economic benefits of sugar beet.

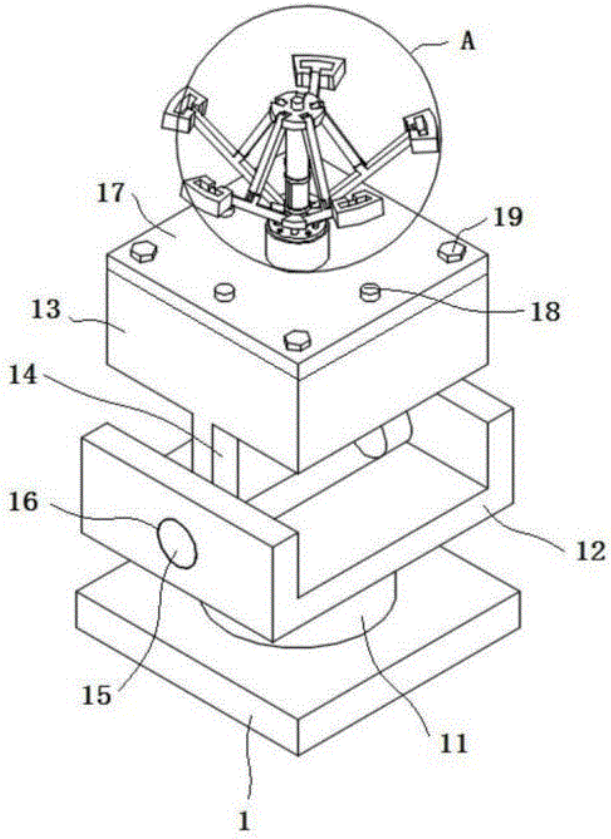


21: 2022/11054. 22: 2022/10/10. 43: 2022/11/29
51: E03F
71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: LIU, Zhengjie, WU, Qingdong

54: INSTALLATION STRUCTURE FOR DRAIN PIPE OF BUILDING

00: -

The present invention discloses an installation structure for a drain pipe of a building and relates to the technical field of drain pipe installation. The present invention comprises a movable base, wherein a turnable supporting structure for supporting a drain pipe is fixed to a top of the movable base, the movable base is further provided with a clamping structure clamped on an inner side wall of the drain pipe, a bottom of the movable base is provided with a plurality of universal wheels, and a lifting device is fixed to the top of the movable base. The present invention realizes installation of the drain pipe by cooperation of the movable base, the supporting structure and the clamping structure. The present invention is simple in structure, and compared with a conventional manually installed drain pipe, the present invention has the effects of reducing the lower intensity and lowering the manpower demand during installation of the drain pipe.



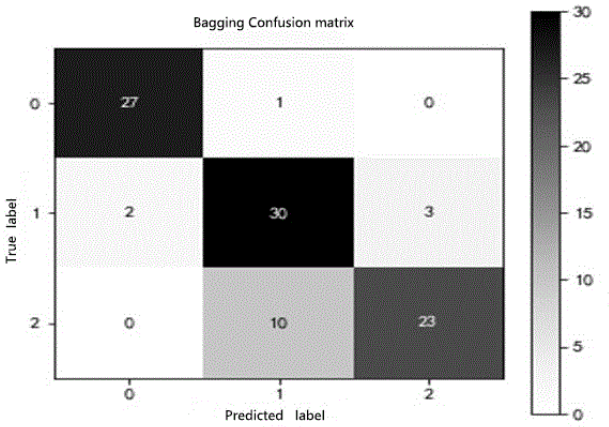
21: 2022/11056. 22: 2022/10/10. 43: 2022/11/29
51: G06Q
71: North China University of Science and Technology
72: Yu Fuxing, Suo Yina, Ning Xuebin, Wu Yafeng, Liu Xinran

54: BAGGING-BASED METHOD FOR PREDICTING STUDENTS' PERFORMANCE

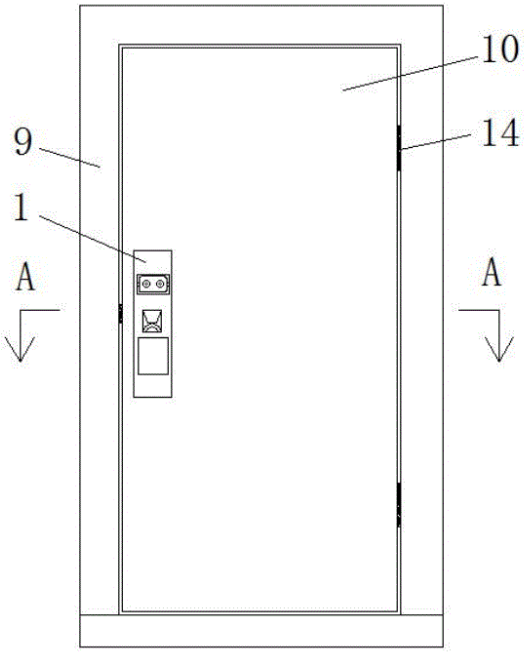
00: -

The invention discloses a Bagging-based student achievement prediction method, which comprises the following steps of: 1, generating m different training subsets by using a self-service sampling method; Tep 2: respectively using a decision tree, a random forest, an XGBoost and a LightGBM model as a basic model group for each training subset in the step 1, and randomly extracting S feature subsets from K data feature dimensions in the training subset to train respective performance prediction classification model to obtain a performance prediction output result of a corresponding group, And m intermediate result voting classifications are formed by adopting a soft voting mode; And 3, output that corresponding grade probability by adopt a soft voting mode for the

intermediate result from the voting classification 1 to the voting classification m, and generate a Bagging fusion model to finally output a performance prediction result. The integrated learning achievement prediction method improves the accuracy of single model prediction.

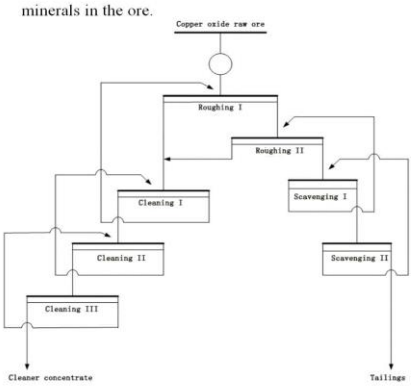


21: 2022/11058. 22: 2022/10/10. 43: 2022/11/29
51: G06K
71: Zhengzhou Railway Vocational & Technical College
72: Jie Li, Jinfang Li, Haidong Lyu, Weijia Li, Ran Chen, Qi'nan Zhu, Xiaoli Li, Yue Yao, Hefang Zang, Chaoyang Tian
54: A FINANCIAL HIGH SECURITY INTELLIGENT IDENTIFICATION DEVICE
00: -
The invention relates to a financial intelligent identification device with high security, which comprises an identification lock. The identification lock is arranged on the door panel, the identification lock is provided with a fingerprint recognition module for fingerprint information authentication and start the subsequent authentication, face recognition and capture module for face information authentication and authentication error; Weight recognition module, the weight recognition module is used for weight information authentication, and the fingerprint recognition module snaps when the authentication fails; Height recognition module, the height recognition module is used for height information authentication, and the fingerprint recognition module snaps when the authentication fails. The invention achieves the purpose of fingerprint recognition, height recognition and face recognition with high security through the synergistic effect of fingerprint recognition module, weight recognition module, height recognition module and face recognition module. At the same time, the invention can also capture and upload when the entering personnel identification is inconsistent.



21: 2022/11059. 22: 2022/10/10. 43: 2022/11/29
51: B03B
71: Kunming University of Science and Technology
72: Peilun Shen, Haoxiang Wang, Dianwen Liu, Jianjun Fang, Xiaolin Zhang, Jinpeng Cai, Chao Su, Qifang Zheng, Rong Peng
54: A METHOD FOR RECOVERY OF SILICATE COPPER OXIDE BY CONJUGATE ACTIVATION FLOTATION
00: -

The invention discloses a method for recovery of silicate type copper oxide by conjugate activation flotation, belonging to the mineral processing technology field. In the present invention, the raw ore is crushed and ground to adjust the pulp, then NaOH is added to the pulp to adjust the pH value, and $(NH_4)_3PO_4$ and Na_2S are added to construct a conjugated activation flotation system to activate the silicate oxide copper ore. After activation, butyl xanthate and frother are added to recover silicate copper oxide in the ore. The surface sulfide reaction of silicate copper oxide was greatly promoted by the conjugated activation system constructed by $(NH_4)_3PO_4$-Na_2S. This increases the number of active sites on the mineral surface and the extent of copper sulfide coverage, enhances the adsorption between the collector and the mineral surface, and realizes the efficient flotation recovery of silicate copper oxide minerals in the ore.

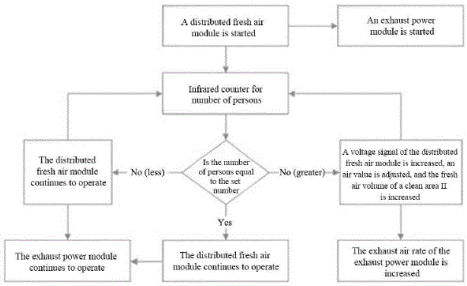


21: 2022/11061. 22: 2022/10/10. 43: 2022/11/29
51: F24F
71: CHONGQING BLUEHORIZON ENERGY-SAVING TECHNOLOGY CO., LTD.
72: GUO, Jincheng, HUANG, Xue, JU, Fali, HOU, Changlei, DING, Yanrui
33: CN 31: 202011541047.0 32: 2020-12-23

54: DISTRIBUTED VENTILATION SYSTEM AND CONTROL METHOD FOR WARD

00: -

A distributed ventilation system and control method for a ward. The system comprises a distributed air supply system and a distributed exhaust system. The distributed air supply system comprises an air supply power module (6), an air supply pipe, a bed head air supply outlet (7), and a bed tail air supply outlet (8). The distributed exhaust system comprises an exhaust power module (9) and a vertical exhaust pipe (10). The lower part of the vertical exhaust pipe (10) is provided with a lower exhaust outlet (11), the middle is provided with an upper exhaust outlet (12), and the upper part is provided with an exhaust connector (13). The lower exhaust outlet (11) and the upper exhaust outlet (12) are located on the front surface of the vertical exhaust pipe (10), and the exhaust connector (13) is located on the back surface of the vertical exhaust pipe (10).

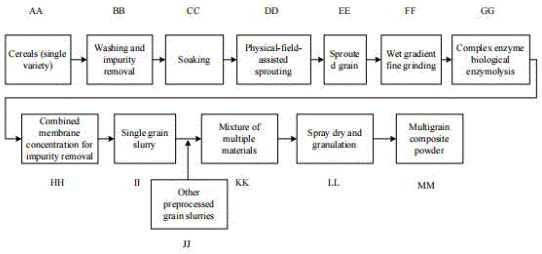


21: 2022/11062. 22: 2022/10/10. 43: 2022/11/29
51: A23L
71: HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY
72: WANG, Lidong, LANG, Shuangjing, LI, Xiaoqiang, ZHANG, Dongjie, WANG, Changyuan, CAO, Longkui
33: CN 31: 202110304963.0 32: 2021-03-24

54: LOW GI, HIGH ACTIVITY MULTIGRAIN COMPOSITE INSTANTLY SOLUBLE NUTRITIONAL POWDER AND PROCESSING METHOD THEREFOR

00: -

A low GI, high activity multigrain composite instantly soluble nutritional powderand a processing method therefor. The method comprises the steps of: washing and impurity removal, soaking, physical-field-assisted sprouting, wet gradient fine milling, complex enzyme biological enzymolysis, combined membrane concentration for impurity removal, spray drying and granulation, thus preparing the multi-grain composite instantly soluble nutritional powder enriched with a Y-aminobutyric acid biomass and having a low glycemic index and excellent solubility.

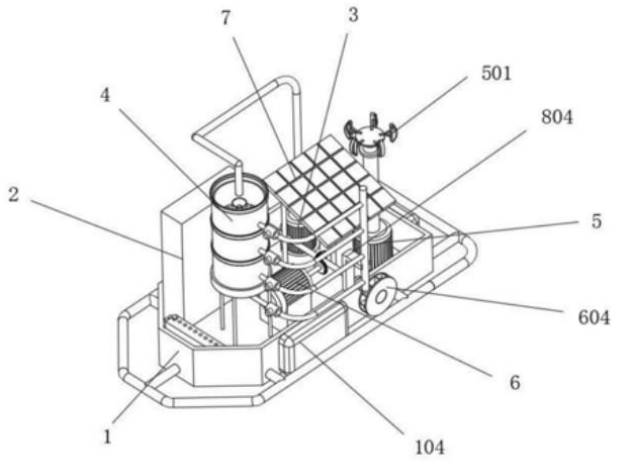


21: 2022/11089. 22: 2022/10/10. 43: 2022/11/23
51: C02F; F04B
71: CHEN, Zhongqi
72: CHEN, Zhongqi, FENG, Yiwen, SHI, Zhiyi, GAO, Runsheng, WU, Leilei, LIU, Ruizhi, FENG, Xinjian, YUAN, Lu, JIANG, Hao, ZHANG, Yang, YAN, Yu, LI, Fan

54: MULTIPLE SEWAGE PURIFICATION APPARATUS BASED ON WIND-SOLAR-WATER COMPLEMENTARY ENERGY STORAGE

00: -

The present invention discloses a multiple sewage purification apparatus based on wind-solar-water complementary energy storage. By carrying a storage battery, a water pump, a purification tank, a conversion part and a guide pipe through a bearing seat, the whole apparatus may be fixed on land for sewage treatment, and may also be arranged in immobile sewage of external ponds to carry out direct sewage treatment on the surface of water; moreover, the conversion part and the storage battery are combined to supply power to the water pump, so that the apparatus can work independently in the field, thereby reducing the demand on the power supply; and by arranging more than three purification tanks, multiple treatment can be carried out for the sewage, and different sewage treatment processes are convenient to change and set.



21: 2022/11090. 22: 2022/10/10. 43: 2022/11/23
51: A01G
71: JILIN PROVINCIAL ACADEMY OF FORESTRY SCIENCES
72: HE, Huaijiang, ZHANG, Zhonghui, LUO, Ye, LIN, Shijie, WANG, Zimo, ZHU, Hongbo, BAO, Guangdao, SUN, Yue, LIU, Ting, ZHANG, Baoquan, YANG, Chengjiang

54: MANAGEMENT OPERATION METHOD OF OAK CLOSE-TO-NATURE FOREST

00: -

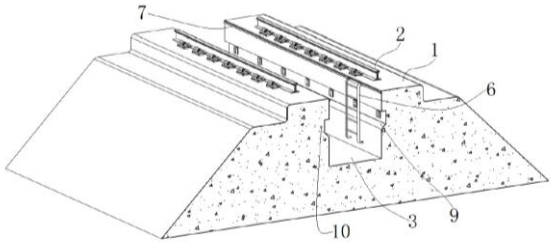
The present invention discloses a management operation method of an oak close-to-nature forest, which relates to the technical field of forest operation and management. The method comprises: partitioning a to-be-processed oak forest region and dividing entire woods into protection type woods and elimination type woods; completing cutting of the elimination type woods in 7-10 years and clearing residues on the earth surface when in cutting; performing land preparation timely on an empty land after cutting and replanting broad leaf type woods and needle type woods according to different partitions, wherein different species of woods are replanted in different partitions; and the replanted needle type woods account for 15-20% in the entire woods, and the replanted broad leaf type woods account for 60-65%, so that the number of woods per hectare is 850-1200, and the mean DBH (Diameter At Breast Height) is 15.5-21.0 cm; and finally, performing management under forest.

21: 2022/11091. 22: 2022/10/10. 43: 2022/11/23
51: E04H; G01N
71: CHINA RAILWAY HUATIE ENGINEERING DESIGN GROUP CO.,LTD.
72: GUAN, Shuang, WANG, Li

54: INSPECTION PIT OF METRO VEHICLE DEPOT

00: -

Disclosed is an inspection pit of a metro vehicle depot, which is formed in a rail bed and is located between two rails; the length direction of the inspection pit is parallel to the length direction of the rails; a plurality of mounting holes having built in sockets being electrically connected with an external power supply are formed in the side walls of the inspection pit and are formed sequentially along the length direction of the rails. Ladders are arranged in the inspection pit; tracks with connected sliding bocks are arranged on the side walls of the inspection pit; the length direction of the tracks is parallel to the length direction of the rails; and the upper ends of each ladder are fixed with each sliding block. The tracks are arranged so that a maintainer can push the ladder to move in the inspection pit.

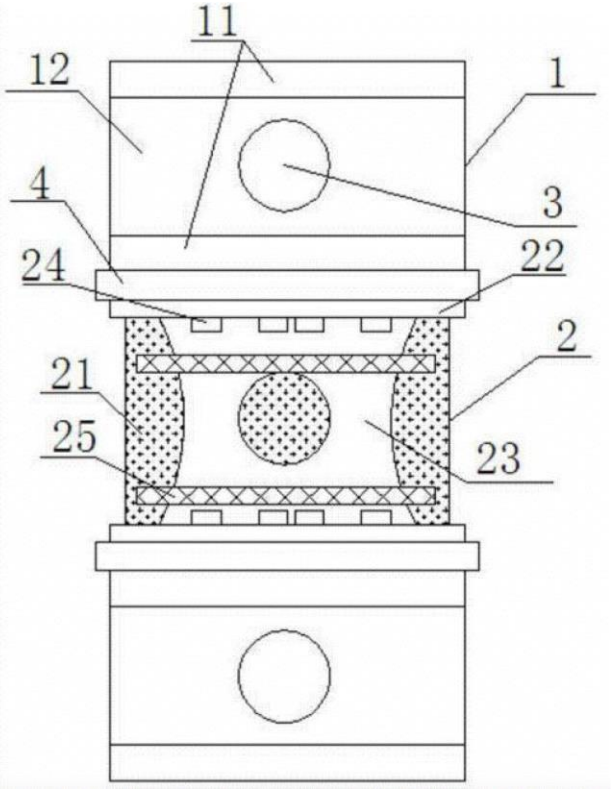


21: 2022/11096. 22: 2022/10/11. 43: 2022/11/29
51: E04B
71: Ningbo University
72: ZHENG, Guang, LIU, Jialu, GE, Bingwei, NIU, Haoliang, WANG, Lujun, ZHENG, Chao

54: HIGH-STRENGTH ENERGY-ABSORBING SHOCK ABSORBER

00: -

The present invention relates to a high-strength energy-absorbing shock absorber for buildings, including a horizontal energy-absorbing beam and an elastic energy-absorbing block, where there are two horizontal energy-absorbing beams symmetrically mounted on both ends of the elastic energy-absorbing block respectively; the horizontal energy-absorbing beam includes a horizontal plate and a vertical plate; the elastic energy-absorbing block includes a rubber substrate, a connecting plate, an energy-absorbing plate and a reinforcing plate; the connecting plate located on the outer surfaces of the two ends of the rubber substrate is distributed in parallel and connects with the horizontal energy-absorbing beam; the upper and lower sides of the energy-absorbing plate distributed in parallel connect with the connecting plate respectively and are perpendicular to each other; the left and right sides of the energy-absorbing plate are hyperbolic; and the energy-absorbing plate is embedded within the rubber substrate.



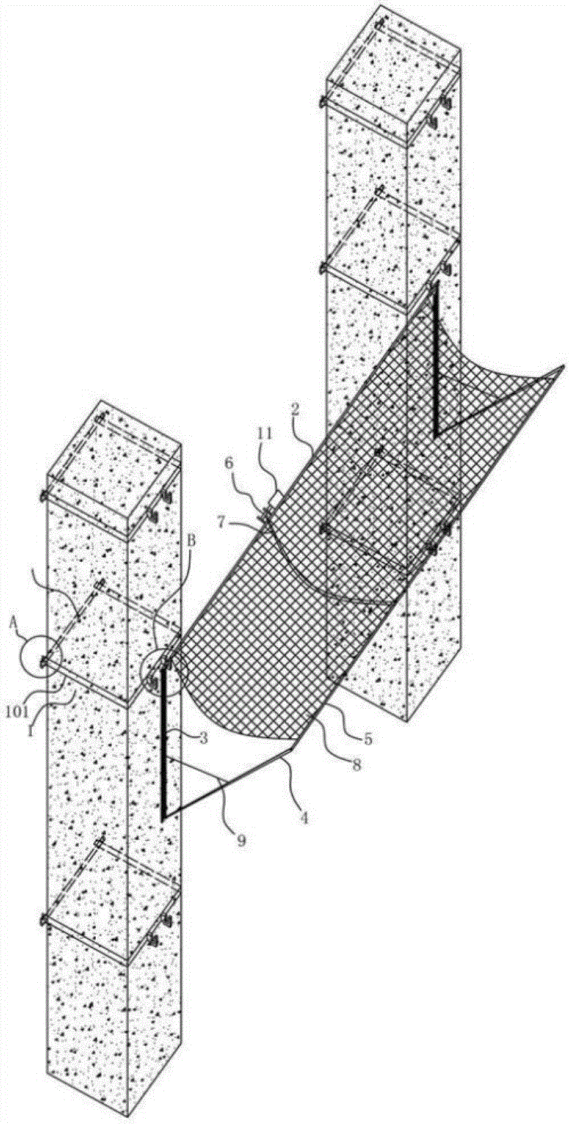
21: 2022/11097. 22: 2022/10/11. 43: 2022/11/29
51: E04G
71: Henan University of Urban Construction
72: SONG, Shuaiqi, LI, Peng, SHEN, Tong, MA, Yueqiang, SHI, Chen

54: PREFABRICATED BUILDING FOLDABLE INTEGRAL THROWING NET AND INSTALLATION METHOD THEREOF

00: -

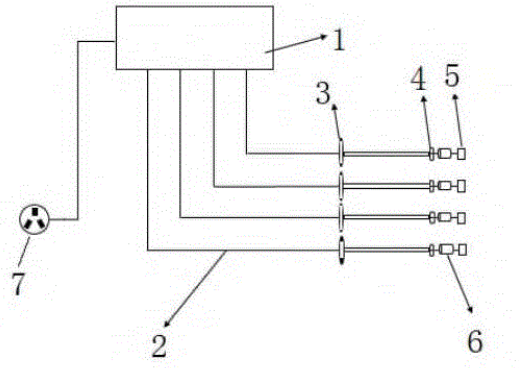
The present invention relates to a prefabricated building foldable integral throwing net and installation method thereof, wherein at least two cuffs are first sleeved on a column or a wall, and

then a throwing net mechanism is hung on a U-shaped or L-shaped hanging piece fixedly arranged on the cuffs, and the cuffs are very firmly sleeved on the column or the wall.



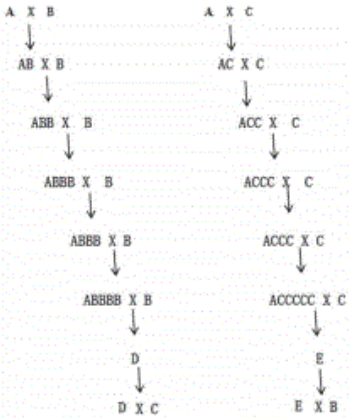
21: 2022/11098. 22: 2022/10/11. 43: 2022/11/29
51: C03C; G01N
71: Shandong Marine Resources and Environment Research Institute
72: LI, Jiahui, MA, Yuanqing, SUN, Shan, DONG, Xiaoxiao, ZHAO, Yuting, YOU, Liping, JIANG, Huichao, TIAN, Zefeng, SONG, Xiukai
33: CN 31: 202222312154.7 32: 2022-09-01
54: LOW LIQUID LEVEL ALARMING DEVICE FOR LABORATORY
00: -

The disclosure discloses a low liquid level alarming device for a laboratory, and relates to the technical field of liquid level alarming devices. The low liquid level alarming device includes an alarming device; position sensing devices electrically connected with the alarming device through connecting leads and capable of extending into reagent bottles; and floating balls, wherein the connecting leads penetrate through the floating balls, and the floating balls can extend into the reagent bottles and slide on the connecting leads. The low liquid level alarming device of the disclosure senses relative positions of the floating balls through the position sensing devices, and transmits position signals of the floating balls to the alarming device to make the alarming device give an alarm, so as to remind an experimenter that there are fewer reagents in the reagent bottles, and that the reagents need to be added in time.



21: 2022/11099. 22: 2022/10/11. 43: 2022/11/29
51: A01H
71: Jiangsu Coastal Area Agricultural Research Institute
72: QI, Yongkui, CHEN, Tao, YANG, Hua, REN, Angyan, LI, Xiaosha, ZHU, Ming, WANG, Wenjun, MA, Jun, SHI, Yang, CHANG, Zhaojing, XU, Guangming, CHEN, Yuan
33: CN 31: 202111382535.6 32: 2021-11-22
54: TERNARY HYBRID SEED PRODUCING METHOD FOR ORNAMENTAL SUNFLOWERS
00: -
Provided is a ternary hybrid seed producing method for ornamental sunflowers, including the following steps: S1: selecting a single-color flower sterile line A as a female parent, respectively performing side crossing on the female parent and maintainer lines B and C to construct A x B and A x C, then

respectively selecting single plants similar to male parents B and C, respectively performing backcrossing on the single plants with B and C, and performing backcrossing for more than 5 successive generations to form D and E; S2: performing side crossing on D and C to produce D x C, or performing side crossing on E and B to produce E x B. According to the method, more and better seeds of a new variety of ornamental sunflowers can be produced within a short time, and the diversity of flower colors and flower forms of the ornamental sunflowers is improved.

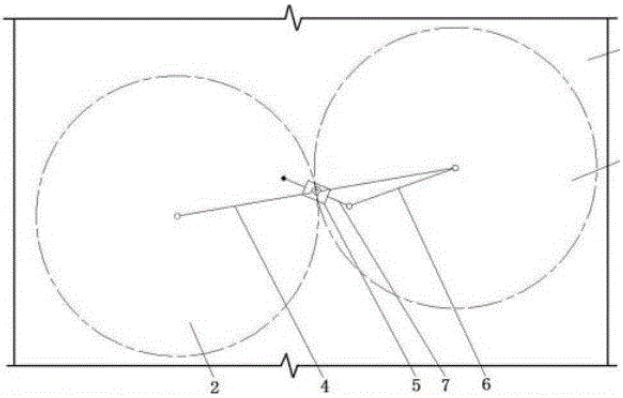


21: 2022/11100. 22: 2022/10/11. 43: 2022/11/29
51: G09B
71: Fuzhou University
72: YAO Ligang, SU Haocheng, CAI Yingjie, WANG Zhenya, LI Gaosong, DING Jiaxin, SU Yujing

54: DEMONSTRATION MECHANISM AND DEMONSTRATION METHOD FOR SOLVING ARC ENVELOPE

00: -

The invention relates to a demonstration mechanism for solving an arc envelope, which comprises a frame, wherein a gear A is fixed on the frame, a gear B which can revolve around the gear A is meshed on the peripheral side of the gear A, two centers of the gear A and the gear B are connected by a connecting rod A, a slider is hinged at the midpoint of the connecting rod A, and a connecting rod B is hinged at the center of the gear B, the connecting rod B is fixed on the gear B and moves with the gear B, the other end of the connecting rod B is hinged with a connecting rod C, and the connecting rod C passes through the slider to form a moving pair. The mechanism is simple, easy and intuitive, and can be used to demonstrate the formation process of the arc envelope. In the use process, the lengths of the connecting rods B and C can also be changed, so as to obtain profiles with different diameter-to-distance ratios. This kind of mechanism which simulates the arc envelope provides an intuitive and convenient means, especially for the optimal selection and comparative analysis of rotor curves.



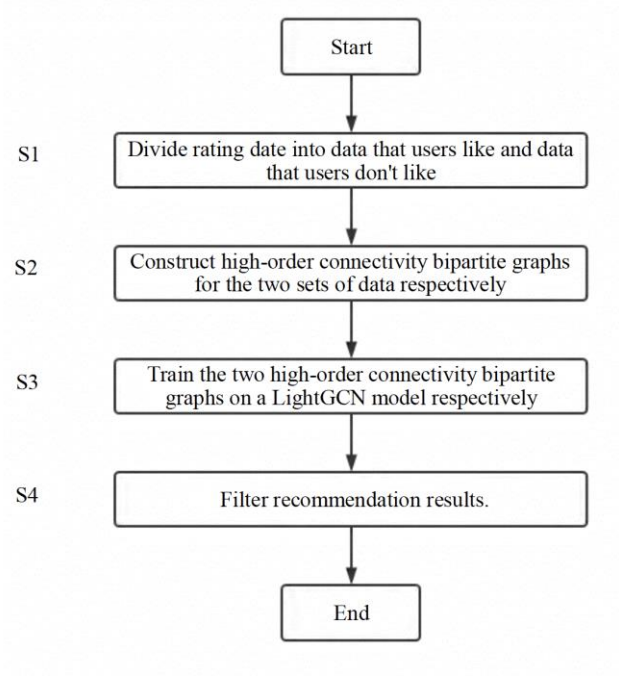
21: 2022/11101. 22: 2022/10/11. 43: 2022/11/29
51: C12N
71: Shaanxi Normal University
72: Fei Hao, Wenqing Huang, Yaguang Lin, Wangyang Yu, Peng Li, Xiaoming Wang
33: CN 31: 202210498972.2 32: 2022-05-09

54: RECOMMENDATION METHOD BASED ON DUAL LIGHT GRAPH CONVOLUTIONAL COLLABORATIVE FILTERING

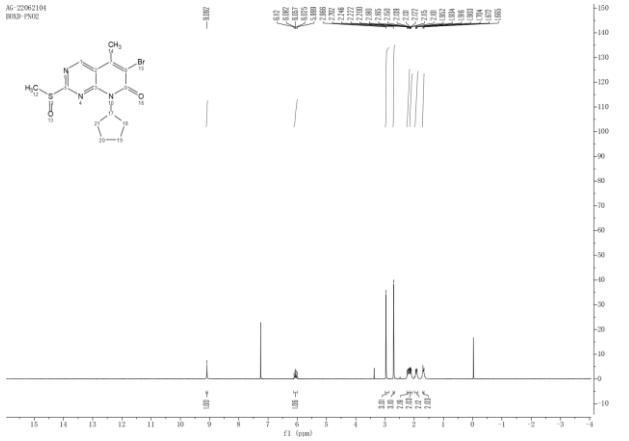
00: -

The present disclosure discloses a recommendation method based on dual light graph convolutional collaborative filtering. The method includes the following steps: classifying all items into two categories according to all users' rating data for all items with which the users have interacted; establishing a bipartite graph between each user and items with high ratings by users, and constructing a high-order connectivity graph between each user and the items with high ratings by the users according to the bipartite graph; establishing a bipartite graph between each user and items with low ratings by the users, and constructing a high-order connectivity graph between each user and the items with low ratings by the users according to the bipartite graph; and training the two high-order connectivity graphs on a light graph convolutional network (LightGCN) model to obtain final recommendation results. The method of the present disclosure adopts a multi-scale

algorithm model based on a neural graph convolutional network to solve the problem that only single-scale aggregation is considered in the prior art, but the aggregation of multi-scale spaces is not considered.

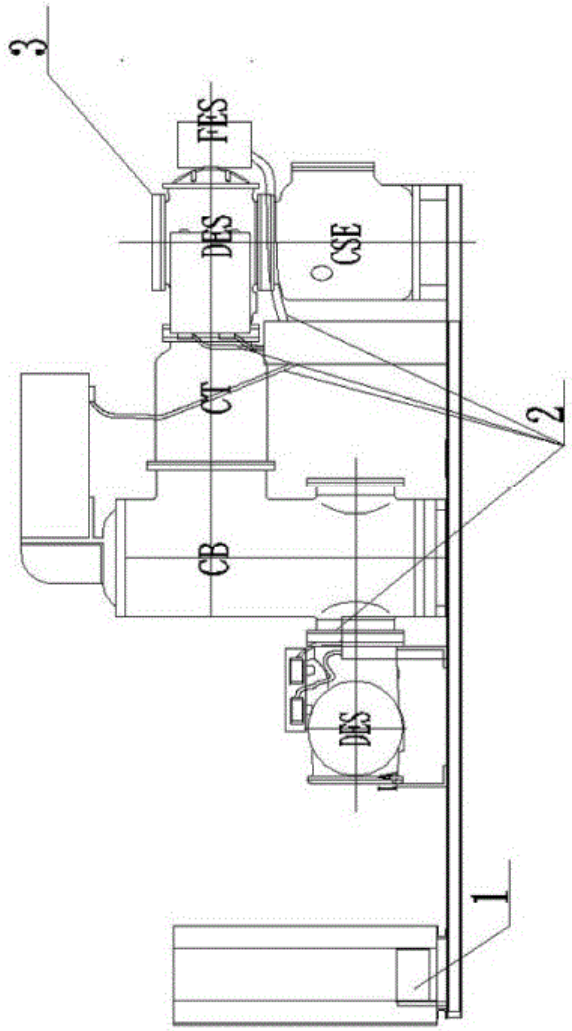


21: 2022/11102. 22: 2022/10/11. 43: 2022/11/29
51: C08L
71: Jilin University
72: Di Liang, Xiaoping Zhou
54: A PREPARATION METHOD OF A PALBOCICLIB INTERMEDIATE
00: -
The invention discloses a preparation method for a palbociclib intermediate, which comprises the following steps: (1) Compound III 4-amino-2-methylthio-5-pyrimidine ethyl ketone and ethyl bromoacetate were mixed in organic solvent. Under the action of alkali, the compound IV 2-methylthio-6-bromo-5-methyl-8H-pyrido [2,3-d] pyrimidin-7-one was obtained by heating and stirring reaction; (2) Compound IV was alkylated with chloropyclopentane in an organic solvent by amine. After the reaction, the obtained solid was dried and recrystallized to obtain the compound V 2-methylthio-6-bromo-8-cyclopentyl-5-methyl-8H-pyrido [2,3-d] pyrimidin-7-one; (3) Compound V was oxidized with N-bromosuccinimide in an organic solvent to obtain compound II 2-methylsulfamyl-6-bromo-8-cyclopentyl-5-methyl-8H-pyrido [2,3-d] pyrimidin-7-one. The invention adopts a preparation method of the palbociclib intermediate mentioned above. The preparation method has the characteristics of simple process route, mild reaction conditions, low production cost and strong industrial adaptability.

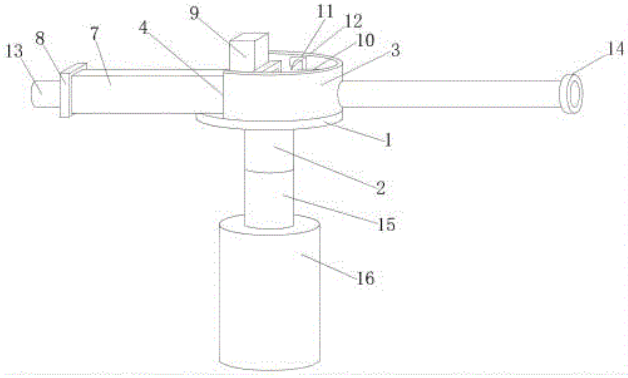


21: 2022/11103. 22: 2022/10/11. 43: 2022/11/29
51: H05K
71: Shandong Dachi High Voltage Switchgear Co., Ltd.
72: Yuguo Chen, Xiwang Zhang, Zhen Li, Rui Chen, Zhe Zhang
54: NOVEL INTERLOCKING EQUIPMENT FOR COMBINED ELECTRICAL EQUIPMENT BASED ON PLC (PROGRAMMABLE LOGIC CONTROLLER) TECHNOLOGY
00: -
The utility model discloses novel interlocking equipment for combined electrical equipment based on PLC technology, which comprises a PLC control module, a signal transmission module and a combined electrical equipment module, the combined electrical equipment module is connected with the PLC control module through the signal transmission module, the PLC control module comprises a PLC control cabinet, and the PLC control cabinet is connected with the signal transmission module. A PLC control device mounting bracket is mounted in the PLC control cabinet, and a PLC control device is mounted on the PLC control device mounting bracket. According to the utility model, the PLC is adopted for control, and a large number of switching contacts and a large number of electric wire connections are not needed in each mechanism, so that the input manpower and

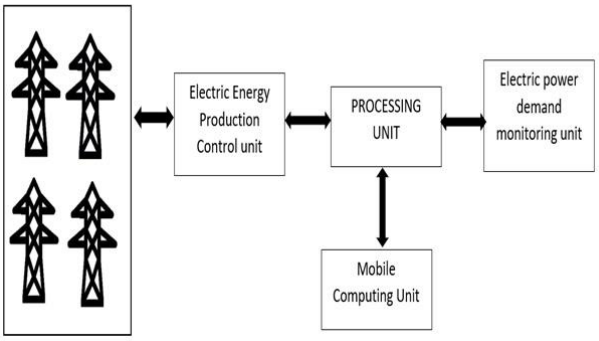
cost are reduced, and errors are not easy to occur in the wiring process.



21: 2022/11104. 22: 2022/10/11. 43: 2022/11/29
51: F17C
71: Tengzhou Xiangrun Chemical Co., Ltd.
72: Zedong Ren, Zepeng Ren
33: CN 31: 202122884831.8 32: 2021-11-23
54: LIQUID AMMONIA CONVEYING PIPE RACK
00: -
The invention discloses a liquid ammonia conveying pipe rack, which comprises a supporting plate and an ammonia conveying pipe. The bottom center of the supporting plate is provided with a fixed block, the inner cavity of the fixed block is provided with a rotating motor, the top of the rotating motor is provided with a rotating shaft, the top of the rotating shaft is arranged at the bottom of the outer end of the movable tube. The rotating shaft of the motor drives the movable tube to rotate at the opening of the baffle to change the direction of the ammonia pipe, and the baffle limits the ammonia pipe to avoid the rotation Angle is too large to damage the ammonia pipe. It optimizes the problem that the ammonia transport pipe is difficult to move manually. The fixed pipe and the movable pipe are surrounded and fixed to make the fixing of the ammonia pipe more stable. Cushioning of the fixed tube and movable tube cavity protects the ammonia pipe from friction breakage when the movable tube is turned.



21: 2022/11105. 22: 2022/10/11. 43: 2022/11/24
51: G06F; H02J
71: Mehbodniya, Dr. Abolfazl, Webber, Dr. Julian, Baliram Patil, Dr. Vandana, Pandey, (Dr.) Ram Kinkar, Reddy, Dr. Algubelly Yashwanth, Meena, Radhey Shyam, Ujalambkar, Dr. Deepali, Kumar, Er. Raman, Kaur, Prabhjot, Jain, Parita, Mohanty, Dr. Asit, Tiwari, Mohit, Siddiqa, Mrs Ayesha, Gupta, Ankur
72: Mehbodniya, Dr. Abolfazl, Webber, Dr. Julian, Baliram Patil, Dr. Vandana, Pandey, (Dr.) Ram Kinkar, Reddy, Dr. Algubelly Yashwanth, Meena, Radhey Shyam, Ujalambkar, Dr. Deepali, Kumar, Er. Raman, Kaur, Prabhjot, Jain, Parita, Mohanty, Dr. Asit, Tiwari, Mohit, Siddiqa, Mrs Ayesha, Gupta, Ankur
54: INTELLIGENT MANAGEMENT SYSTEM FOR ELECTRICITY POWER SETTLEMENT OF ELECTRIC ENERGY POWER STATION USING BLOCKCHAIN & MACHINE LEARNING
00: -
The present invention relates to Intelligent management system for electricity power settlement of electric energy power station using blockchain & machine learning. The objective of the present invention is to solve the problems in the prior art technologies related to electric power supply according to the demand.

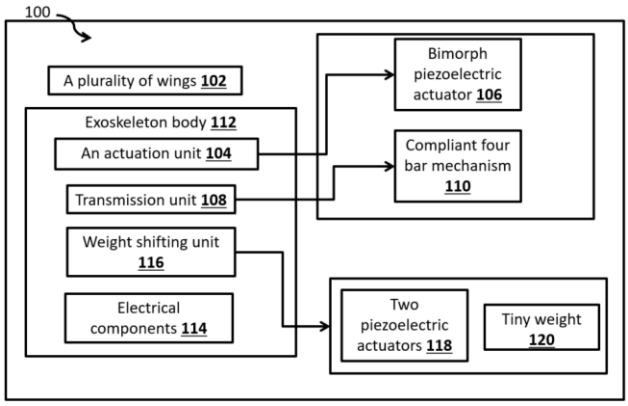


21: 2022/11106. 22: 2022/10/11. 43: 2022/11/24
51: B61L
71: National Institute of Technology Warangal, Dr. Srihari Rao Patri, Shaik Abdullah, Kaushik Vempati, Ruchira Reddy, Santhosh Kothapalli, Gurkirat Singh, Aryan Rajan Panhale, SK Munawwar Ali, Bhargavi Nallapuneni, Rohit Rajeev
72: Dr. Srihari Rao Patri, Shaik Abdullah, Kaushik Vempati, Ruchira Reddy, Santhosh Kothapalli, Gurkirat Singh, Aryan Rajan Panhale, SK Munawwar Ali, Bhargavi Nallapuneni, Rohit Rajeev

54: AN IMPROVED FLAPPING WING MICRO AERIAL VEHICLE SYSTEM

00: -

The present disclosure relates to an improved flapping wing micro aerial vehicle system. The present disclosure aims at changing the way a flapping wing micro aerial vehicle (FMWAV) are generally dependent on the precise wing movement for transversal in 3D-space. In the proposed system, the transmission part is redefined for reducing the tiny parts and therefore it reduces the manufacturing cost and complexity. The proposed FMWAV consists of electrical components, actuators, wings, transmission mechanism, and the weight shifting mechanism. The electronic components are a microcontroller, a localisation module, wireless transceiver, on board battery, visual sensors and a PCB. The wings are made of light material for providing better thrust, wherein thin polyester membrane supported by carbon fiber is used for making the wings. The actuation of wings is carried out by using bimorph piezoelectric actuator via a compliant four bar mechanism or the transmission mechanism.



21: 2022/11107. 22: 2022/10/11. 43: 2022/11/24
51: A61B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: BEWOOR, Laxmi A., SAKHARE, Sachin R., DONGRE, Yashwant V., BHOGISHETTY, Dhruvatara, LULLA, Jai, KHAN, Mohammed Faizan

54: A WEARABLE SYSTEM FOR GROUP MANAGEMENT

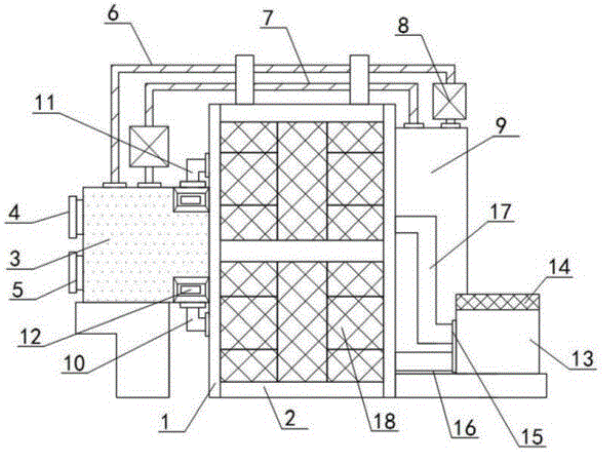
00: -

The present invention provides a wearable system for group management. As avid trekkers, we often found difficulty in contacting other members of our trek group who had either gone ahead too quickly or who had straggled and got left behind- in the lush green mountains, mobile connectivity is almost completely absent, and we often ended up wasting a lot of time trying to gather all our friends and family together. This problem may arise not only for groups traveling in regions with low cellular connectivity, but also to groups who enjoy attending music festivals together, where the network congestion may be very high, preventing you from contacting near and dear ones, or even in cases where not everybody could be contacted using a cell-phone, for instance school children on excursion in an unfamiliar environment with their teachers, and so on. In such situations, keeping track of all the members of the group travelling together is a tedious task for the coordinators, and in the unfortunate scenario where somebody drifts away from the group, it is a daunting task to try to find them. Current offline systems can track users' location using static gateways that need to be manually placed and configured for every location, which would be unsuitable in outdoor environments. Online systems for this purpose use a combination of GPS chips, along with some push-pull protocol (eg. MQTT) to

centralize the data gathered from all objects of interest to make a decision, which fails if cellular range is unavailable. Thus, our solution to this problem is to make such a device that can be used by such groups such that the coordinator and the other members of the group would be able to stay connected to one another, and also be able to detect when a person has drifted away, and their possible location.

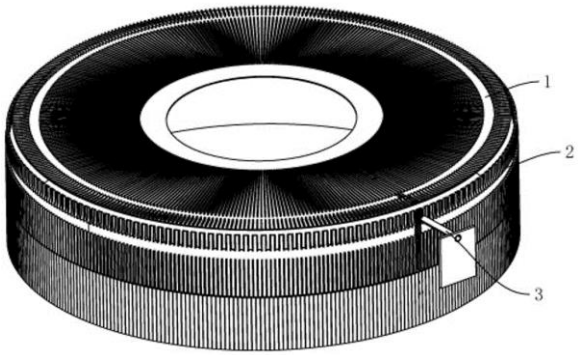
21: 2022/11108. 22: 2022/10/11. 43: 2022/11/24
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: BEWOOR, Laxmi A., TIWASKAR, Shweta A., MESHRAM, Vidula V., YADAV, Vipual
54: AN ABSTRACTIVE TEXT SUMMARY GENERATOR SYSTEM USING GLOVE LSTM
00: -
The present invention provides an abstractive text summary generator system using glove LSTM. 1 wherein RNNs is used to play two roles: as an encoder that transforms sequential data into vectors, and as a decoder that transforms the encoded vectors into sequential output. And for a better performance, the attention as an extra input to the decoder has been used; although encoder-decoder methods can generate sentences with correct grammar, they still have difficulties generating longer sentences with rich semantics.

21: 2022/11117. 22: 2022/10/11. 43: 2022/11/29
51: A01K
71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY
72: HUANG, Baohong
33: CN 31: 202111540661.X 32: 2021-12-16
54: SUGAR NUTRITION EASY-TO-FEED CONSTANT-TEMPERATURE BREEDING BIN FOR LARGE-SCALE BREEDING OF TELENOMUS REMUS
00: -
Disclosed is a sugar nutrition easy-to-feed constant-temperature breeding bin for large-scale breeding of Telenomus remus, comprising a main bin frame as a main outer frame structure of the apparatus. A supporting frame is arranged in the main bin frame. By annularly distributing cotton pieces on the outer side of a breeding rack, sugar water is absorbed, and also landing points for the Telenomus remus are provided, increasing the feeding range area and facilitating the feeding of the Telenomus remus. The inner structure of a breeding rack is attached to a material guide plate; when the material guide plate is rotating, the inner wall of the breeding rack is cleaned by means of the friction generated by rotation, thus avoiding blockage caused by solidification of the sugar water, and also uniformly distributing the sugar water to facilitate absorption of the cotton pieces, thereby improving the overall usability.



21: 2022/11141. 22: 2022/10/11. 43: 2022/11/29
51: D04B
71: JIANGYIN XINFU PRECISION MACHINERY CO., LTD
72: HUANG, Xiaolong, XU, Feng, ZHANG, YuXiang
33: CN 31: 202010332584.8 32: 2020-04-24
54: LOWER CYLINDER, NEEDLE CYLINDER AND CIRCULAR WEFT KNITTING MACHINE
00: -
The present invention relates to the technical field of circular weft knitting machines, and in particular to a lower cylinder of a needle cylinder of a circular weft knitting machine. The lower cylinder comprises: a cylinder body, which is of a cylindrical structure; and a plurality of vertical plate members, which are evenly arranged on an outer side wall of the cylinder body around the axis of the cylinder body, with a vertical slot being provided between every two adjacent vertical plate members, wherein at least one vertical slot is internally provided with a first through groove penetrating the cylinder body in the thickness direction; the first through groove penetrates the top edge of the cylinder body; and the longitudinal depth of the first through groove is

greater than zero and less than the longitudinal height of the cylinder body. The present invention has the effect of conveniently and quickly weaving double-faced cloth having cut loop piles. The present invention relates to the technical field of circular weft knitting machines, and in particular to a needle cylinder of a circular weft knitting machine. The present invention relates to the technical field of circular weft knitting machines, and in particular to a circular weft knitting machine.

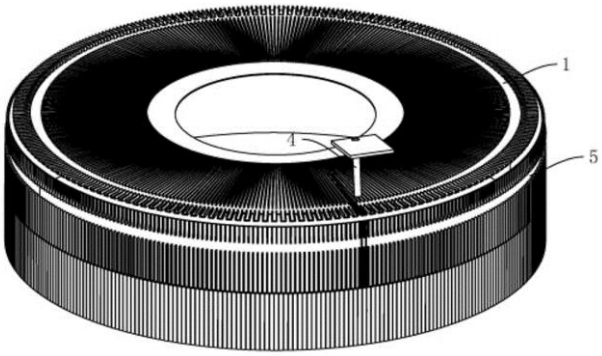


21: 2022/11142. 22: 2022/10/11. 43: 2022/11/29
51: D04B
71: JIANGYIN XINFU PRECISION MACHINERY CO., LTD
72: HUANG, Xiaolong, XU, Feng, ZHANG, YuXiang
33: CN 31: 202010332584.8 32: 2020-04-24

54: UPPER DISC, NEEDLE CYLINDER AND CIRCULAR WEFT KNITTING MACHINE

00: -

The present invention discloses an upper disc (1) of a needle cylinder of a circular weft knitting machine, a needle cylinder of a circular weft knitting machine comprising the upper disc of needle cylinder, and a circular weft knitting machine comprising the needle cylinder. The upper disc of the needle cylinder of the circular weft knitting machine includes annular disc bodies (11) having an annular structure, and a plurality of transverse plate members (12); a length direction of the transverse plate members is arranged in a radial direction of the annular disc bodies; a plurality of annular disc bodies are arranged on upper surfaces of the annular disc bodies around the axes of the annular disc bodies; transverse slots (14) are formed between two adjacent transverse plate members; at least one of the transverse slots is internally provided with a second through groove (13) penetrating through the thickness of the annular disc bodies; the second through groove penetrates through outer edges of the annular disc bodies; and a transverse depth of the second through groove is greater than zero and less than a radial width of the annular disc bodies. The circular weft knitting machine can conveniently and quickly knit double-faced cloth having cut loop piles.

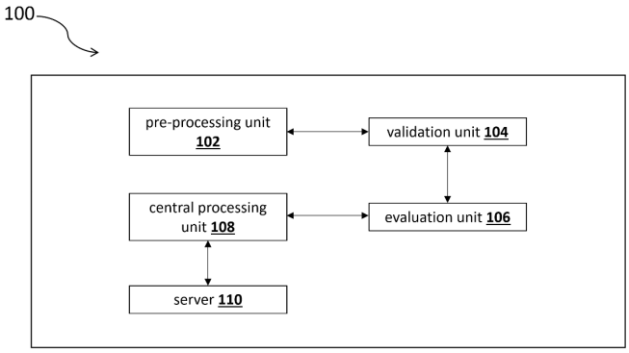


21: 2022/11201. 22: 2022/10/13. 43: 2022/11/24
51: G09B
71: Universidad Bernardo O´Higgins
72: Claudio Ruff, Inés Aravena, Patricio Wenzel, Marisabel Figueroa, Teresa López, Marcelo Ruiz, Héctor Fernández, Mario Cuadra

54: A SYSTEM FOR OPTIMIZING INTERNAL ACADEMIC PROCESSES

00: -

The present invention generally relates to a system to optimize internal academic processes comprises a pre-processing unit for identifying users in the final year of their degree or program and who have also enrolled in the Thesis Seminar and validating the user's personal documentation personal data; a validation unit for identifying, validating, and fulfilling the necessary requirements to be eligible for the final evaluation leading to graduation; an evaluation unit for validating the user's curriculum and program of studies and conducting exam thereby generating final evaluation report, the transcript of grades, and the approved and digitally signed resolutions; and a central processing unit for ensuring the reliable and timely issuance of degree certificates and diplomas to be delivered during the graduation ceremony.

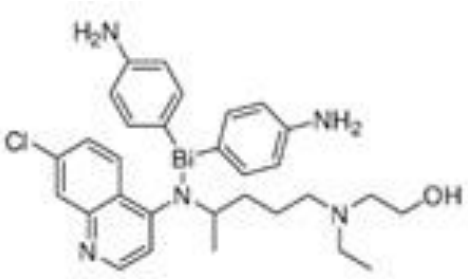


21: 2022/11202. 22: 2022/10/13. 43: 2022/11/24
51: C07D; C09K
71: KANT, Ravi, AMETA, Keshav Lalit, KHAN, Iftikhar Ahmad, KHAN, Abdul Rahman, SHARMA, Dinesh Kumar, RANI, Preeti, PANDEY, Jaya, KUMAR, Atul
72: KANT, Ravi, AMETA, Keshav Lalit, KHAN, Iftikhar Ahmad, KHAN, Abdul Rahman, SHARMA, Dinesh Kumar, RANI, Preeti, PANDEY, Jaya, KUMAR, Atul

54: METHOD OF SYNTHESIS AND BIOMEDICINAL APPLICATIONS OF NOVEL HETEROCYCLIC BISMUTHINE

00: -

The present invention disclosure is related to a novel heterocyclic bismuthine compound for bio-medicinal application and method of synthesis thereof. The disclosure presents a novel heterocyclic bismuthine compound, particularly a process of preparation of a novel heterocyclic bismuthine compound for bio-medicinal application. The novel heterocyclic bismuthine is:



21: 2022/11220. 22: 2022/10/13. 43: 2022/11/23
51: A21D
71: YANBIAN UNIVERSITY
72: QUAN, Zhenyu, HAN, Chunji, LI, Lianji, WANG, Jianlong

54: GERMINATED QUINOA BISCUIT WITH HIGH DIETARY FIBER AND PREPARATION METHOD THEREOF

00: -

The present invention discloses a germinated quinoa biscuit with high dietary fiber and a preparation method thereof. The germinated quinoa biscuit with high dietary fiber comprises the following components in parts by weight: 220-354.5 parts of coarse cereals, 16-29 parts of edible fungi, 55-80 parts of saccharides, 43-67 parts of protein, 89-115 parts of dietary fiber, 3-8 parts of additives, 150-160 parts of oil and fat, 1.8-2.2 parts of edible salt and 75-85 parts of pure water. Quinoa is germinated by a simple process to obtain germinated quinoa flour, which contains a lot of γ-aminobutyric acid, total polyphenols and flavonoids and has rich nutritional value. In addition, a large amount of dietary fiber is added, so that the germinated quinoa biscuit has physiological functions of preventing constipation, atherosclerosis, coronary heart disease and gallstones, reducing weight, and regulating blood sugar.

21: 2022/11294. 22: 2022/10/14. 43: 2022/11/24
51: G01N
71: Institute of Geochemistry, Chinese Academy of Sciences
72: CHENG, Jianzhong, JIANG, Minghua, LI, Xinqing, ZHANG, Tongkun, LI, Huan, HU, Wei
33: CN 31: 202211106006.8 32: 2022-09-09

54: METHOD TO OBTAIN CONTRIBUTION SHARE OF CARBON DIOXIDE EMITTED BY SOIL RESPIRATION

00: -

The present invention belongs to the technical field of crop information detection technologies and ecological environment management technologies, and specifically relates to a method to obtain a contribution share of a carbon dioxide emitted by soil respiration. On the basis of a Two-Pool Mixing Model, the present invention cultivates soil labeled with exogenous carbon with different abundances of 13C under exactly the same conditions, and additionally introduces a treatment step of isotope 13C labeling, thereby contribution shares of three-pool (organic carbon, inorganic carbon and exogenous carbon) to the soil respiration are distinguished, and the dilemma in the prior art that the Two-Pool Mixing Model may not calculate the contribution shares of three pools is solved.

21: 2022/11295. 22: 2022/10/14. 43: 2022/11/24
51: G01N
71: Institute of Geochemistry, Chinese Academy of Sciences
72: CHENG, Jianzhong, JIANG, Minghua, LI, Xinqing, ZHANG, Tongkun, LI, Huan, HU, Wei
33: CN 31: 202211101538.2 32: 2022-09-09
54: CARBON ISOTOPE LABEL AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The present invention belongs to the technical field of isotope labeling, and specifically relates to a carbon isotope label and a preparation method and application thereof. The preparation method for the carbon isotope label provided by the present invention includes the following steps: transplanting a plant to nutrient solution for cultivation, to obtain a nutrient solution cultivated plant; after performing starvation treatment on the nutrient solution cultivated plant, performing labeling cultivation and natural cultivation successively, where the labeling cultivation is to place a plant after the starvation treatment in a 13CO2 atmosphere to perform labeling photosynthesis, and the natural cultivation is to place a plant after the labeling cultivation in an air atmosphere to perform natural photosynthesis; repeating the steps of the starvation treatment, the labeling cultivation and the natural cultivation, to obtain the carbon isotope label with high 13C abundance.

21: 2022/11350. 22: 2022/10/17. 43: 2022/11/24
51: G06Q
71: Dr. Praveen, Ms. Shaina Arora, Mr. Kamal Batta, Dr. Khem Chand, Dr. Subhadeep Chakraborty, Ms. Soni Rathi, Dr. Rajesh Tiwari, Dr. Sandeep Banerjee, Dr. Indranil Bose, Dr. Subho Chattopadhyay
72: Dr. Praveen, Ms. Shaina Arora, Mr. Kamal Batta, Dr. Khem Chand, Dr. Subhadeep Chakraborty, Ms. Soni Rathi, Dr. Rajesh Tiwari, Dr. Sandeep Banerjee, Dr. Indranil Bose, Dr. Subho Chattopadhyay
54: DECISION MAKING AND LIFE SATISFACTION: THE ROLE OF SPIRITUAL AND EMOTIONAL COMPETENCE
00: -
The present invention relates to the determining the whether spiritual intelligence has any effect on a person's level of life happiness in order to validate the scales in our environment. So examined our proposed model with the aid of structural equation modelling (SEM), and we discovered concrete proof that the proposed model demonstrated an acceptable range of goodness of fit with elicited data. For both professional and personal fulfilment, a healthy work-life balance is achieved with the aid of spiritual intelligence. Focus has moved in studies based on intelligence from cognitive intelligence to emotional intelligence. The study's results can also be used to construct curriculum that will help students enhance their spiritual awareness, and on the professional side, training sessions with spiritual practises can help professionals manage stress and make better decisions.

21: 2022/11373. 22: 2022/10/18. 43: 2022/11/30
51: F15B
71: Shenyang University of Technology
72: LIANG, Quan, XU, Wei, GAO, Jun
33: CN 31: 202220018539.X 32: 2022-01-06
54: DOUBLE-ACTING SERVO ACTUATOR DRIVEN BY PNEUMATIC ARTIFICIAL MUSCLE
00: -
Provided is a double-acting servo actuator driven by pneumatic artificial muscle. Two ends of a middle flange of the actuator are fixedly connected with one ends of the two pneumatic artificial muscles, respectively, and the other ends are fixed on a front flange and a rear flange, one end of a guide rod is fixed on the flange plate of the middle flange, and the other end passes through the front flange and is fixedly connected with a joint seat of cylinder head that is fixedly connected with the Y-type joint of cylinder head, on which a sensor connecting piece is fixed; and the rear flange is fixedly connected with a Y-type joint of cylinder bottom, and two high-speed on/off valves are electrically connected with two pneumatic artificial muscles, respectively, and a draw-wire displacement sensor is fixed on the front flange and connected with the sensor connecting piece.

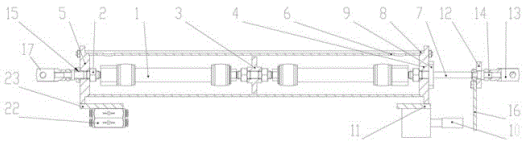


FIG. 1

21: 2022/11374. 22: 2022/10/18. 43: 2022/11/30
51: A01G; A01N; B09C; C12N; C12R; A01P
71: SHANGHAI JIAO TONG UNIVERSITY
72: CHEN, Jie, LIU, Hongyi, LANG, Bo, SI, Gaoyue, WANG, Shaoqing

54: CONSTRUCTION METHOD FOR TRICHODERMA-OILSEED RAPE COMBINED ADSORPTION OF HEAVY METALS CADMIUM AND ZINC FROM FARMLAND SOIL

00: -

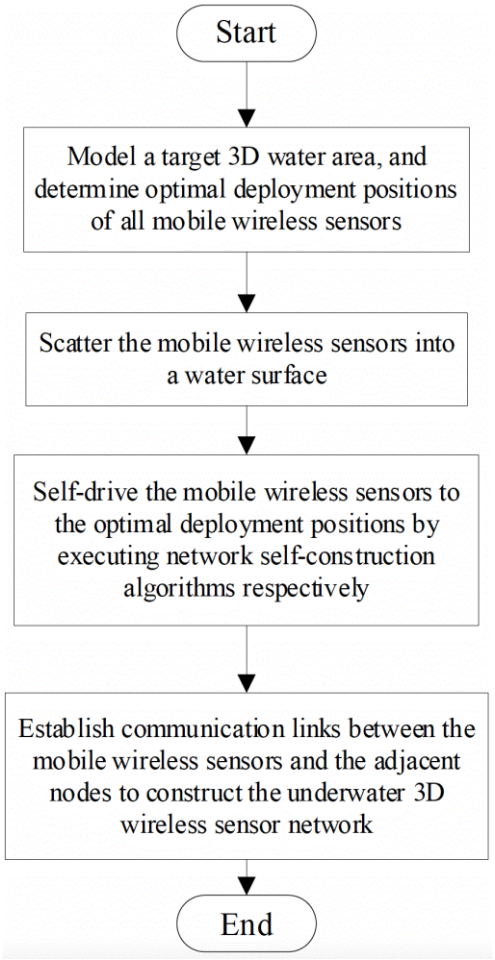
A construction method for antagonistic Trichoderma-Brassica napus combined adsorption of heavy metals cadmium and zinc from farmland soil in the technical field of metal adsorption is provided; a fungal agent prepared by an antagonistic Trichoderma strain for adsorbing heavy metals is inoculated onto soil containing Cd or Zn and Sclerotinia sclerotiorum grown-wheat grain culture, further used for cultivating Brassica napus, which thus forms a Trichoderma-oilseed rape symbiont for the high-efficiency adsorption of heavy metals. The present invention achieves dual purposes of bioremediation of heavy metal pollution in farmland soils and control of soil-borne diseases. Moreover, the present invention has good remediation effects, low costs, easy management and operation, no secondary pollution and thus, has high universal values in use.

21: 2022/11375. 22: 2022/10/18. 43: 2022/11/30
51: H04W
71: Guangdong Polytechnic Normal University, Guangdong Qianfeng Agricultural Technology Co., LTD
72: SHEN, Weiqiang, ZHUANG, Honghao, SHAN, Chun, WANG, Jiao, YUAN, Chengzhe, LI, Mianjie, LEI, Wen

54: AUTOMATIC CONSTRUCTION METHOD FOR UNDERWATER 3D WIRELESS SENSOR NETWORK

00: -

The present disclosure discloses an automatic construction method for an underwater three-dimensional (3D) wireless sensor network. The method includes the sequential steps of modeling a target 3D water area, determining optimal deployment positions, scattering mobile wireless sensors on a water surface, making the mobile wireless sensors self-drive to the optimal deployment positions, and establishing physical communication links among the mobile wireless sensors to form the underwater 3D wireless sensor network. The present disclosure has the following beneficial effects that the mobile wireless sensors are used and can self-move to the optimal deployment positions, and therefore, the wireless sensors do not need to be deployed at set node positions manually. The network construction operation process is automated, and anchoring or buoying methods are not required additionally.



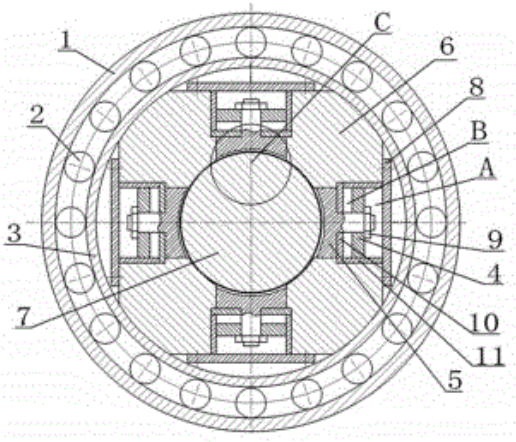
21: 2022/11376. 22: 2022/10/18. 43: 2022/11/30

51: B63B
71: SHENYANG UNIVERSITY OF TECHNOLOGY
72: JIN Yingli, SUN He, WANG Peng, LI Zhenjun, LEI Lei, LIU Bo, WANG Yuqi, XU Wei, LI Jihao, HAN He

54: ANTI-BUBBLE PULSATION IMPACT DEVICE FOR MAIN SHAFT OF WARSHIP

00: -

Anti-bubble pulsation impact device for main shaft of warship, which consists of bearing outer ring, rolling element, bearing inner ring, hydraulic push plate, supporting block, supporting block box, main shaft and hydraulic outer cover plate, fastening nut, hydraulic inner plate and hollow cylindrical cylinder, in which the bearing outer ring, the rolling elements and the bearing inner ring form a universal bearing, which is installed on the supporting block box, and the supporting block, the hydraulic push plate, the hydraulic outer cover plate, the fastening nut, the hydraulic inner plate and the hollow cylindrical cylinder are installed in the corresponding holes of the box together to form a hydraulic support mechanism, and the hydraulic support mechanism is installed on the main shaft which needs auxiliary support, and both of them form an anti-bubble pulsation impact device for the main shaft of a warship. The invention can play an auxiliary supporting role for the main shaft and weaken the deflection of the shaft.

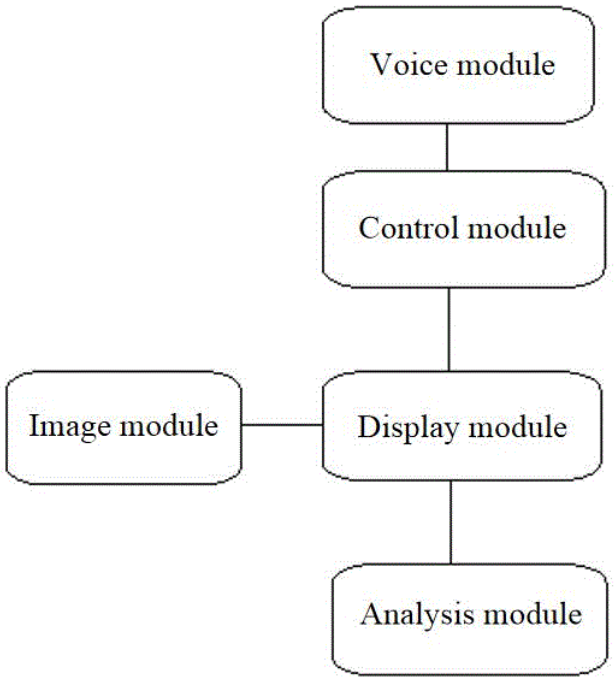


21: 2022/11377. 22: 2022/10/18. 43: 2022/11/30
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: CHEN Bin, DONG Dandan, SHANG Jiling, CHENG Lanzhi, LV Na, WU Lin, YANG Li'na, ZHANG Caixia

54: INTERACTIVE MULTIMEDIA TEACHING SYSTEM

00: -

Disclosed is an interactive multimedia teaching system, including: a control module, a display module, a voice module, an image module and an analysis module; the control module is used for a user to send a control instruction; the display module is use for displaying teach courseware and students' messages; the image module is used for collecting user image information; and the analysis module is used for supervising and analyzing the students' state, obtaining an analysis result, transmitting the analysis result to the display module and visualizing the analysis result. The system realizes the interaction between teachers-students and students-students through the control of teachers. Through the design of the display slide rail, it tracks the teacher's image, solving the problem that the camera dose not change with the change of the blackboard writing position when the teacher uses the blackboard for teaching. Through the analysis of teaching quality and students' listening quality, teachers control the progress and difficulty of class at any time according to students' facial expressions.

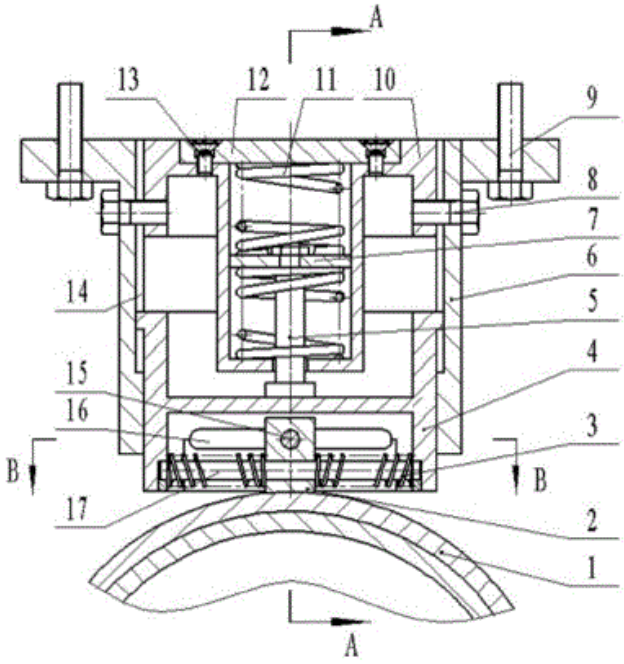


21: 2022/11378. 22: 2022/10/18. 43: 2022/11/30
51: F16L
71: SHENYANG UNIVERSITY OF TECHNOLOGY
72: JIN Yingli, LIU Bo, LI Jihao, LI Zhenjun, LEI Lei, SUN He, BA Zhongcheng, TANG Liying, XU Wei, WU Jianping

54: SUPPORTS AND HANGERS FOR RESISTING IMPACTS FROM THREE DIRECTIONS

00: -

The invention provides supports and hangers for resisting impacts from three directions, and comprises: a pipe clamp, a sliding block, transverse springs, a supporting frame, a pull rod, a shell, a pressing plate, bolts, fixing bolts, an upper bracket, vertical springs, a cover plate, screws, vertical chuts, a longitudinal guide rod, a transverse chute, a transverse guide rod, longitudinal chuts and longitudinal springs. (1) According to the invention, the anti-impact springs are arranged in the transverse, longitudinal and vertical directions of pipelines, which can effectively weaken the impact force from three directions; (2) The transverse guide rod, the longitudinal guide rod, the supporting frame and the shell form a three-direction guide, so the impacts from any direction can be decomposed into these three directions; (3) The vertical chute, the longitudinal chute and the transverse chute restrict the vertical movement, the longitudinal movement and the transverse movement, so as to prevent pipelines from being damaged by excessive displacement.



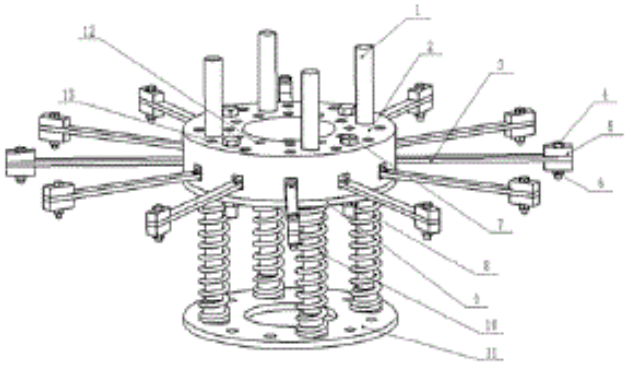
21: 2022/11379. 22: 2022/10/18. 43: 2022/11/30
51: G01H; G01N
71: SHENYANG UNIVERSITY OF TECHNOLOGY
72: WANG Peng, BA Zhongcheng, LI Jihao, SUN He, XU Wei, JIN Yingli, WANG Yuqi, LIU Bo, YAN Ming, HAN He

54: TEST DEVICE AND TEST METHOD FOR RESPONSE OF SPECTRUM DROP EFFECT TO STRESS UNDER IMPACT ENVIRONMENT

00: -

The invention relates to a test device and a test method for the response of spectrum drop effect to stress in an impact environment, which are characterized in that the test device comprises one or more test units, wherein the test units comprise a lower flange, a spring, an upper flange, a cantilever beam supporting plate, a limiting column and a cantilever beam test piece; the test device has the advantages that the test device can simultaneously carry out impact tests of up to twelve cantilever beams, thus avoiding the interference of test environment changes on results. The test device can be used to carry out more complex research tests on the response of spectrum drop effect to stress of multi-degree-of-freedom systems. The test device can bear impact tests of various impact waveforms. The natural frequency of the cantilever beam can be

adjusted and changed by changing the mass of the mass block, which is convenient and quick.

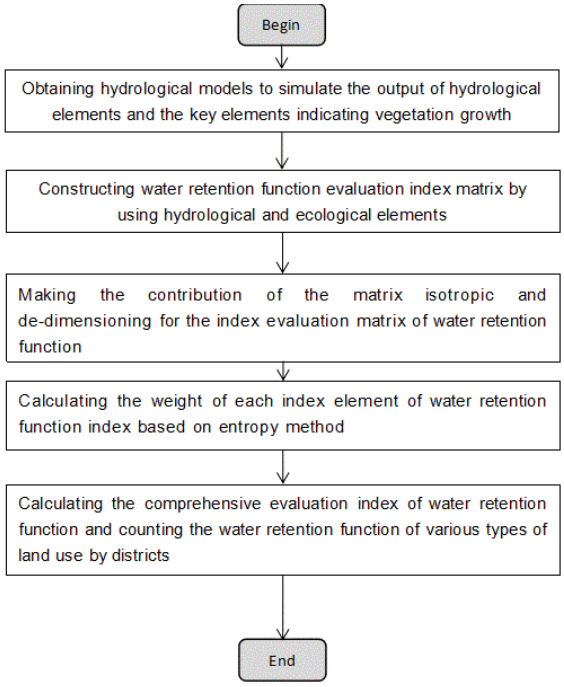


21: 2022/11380. 22: 2022/10/18. 43: 2022/11/30
51: G06Q
71: Xi'an Jiaotong University
72: Wu Yiping, Zhang Guangchuang, Zhao Wenzhi, Wang Fan, Hui Jinyu, Yin Xiaowei

54: A QUANTITATIVE ASSESSMENT METHOD AND SYSTEM OF WATER RETENTION FUNCTION BASED ON INTEGRATED HYDROLOGICAL AND ECOLOGICAL COMPONENTS

00: -

The quantitative assessment method and system of water retention function based on integrated hydrological and ecological components comprises the following steps: acquiring spatial data and non-spatial data of the target watershed; acquiring key components of hydrological process in the target watershed and ecological components of vegetation growth in the adaptive watershed based on the hydrological model and statistical analysis; processing and calculating the obtained key components of hydrological process and ecological components representing vegetation growth in the adaptive watershed; based on key components of hydrological and ecological components, constructing a comprehensive evaluation index matrix of water retention function, calculating the water retention function index and diagnosing the watershed water retention function. And the research and development of comprehensive and objective quantitative assessment and evaluation method of water retention quantity in watershed ecosystem will provide important ways and methods for quantifying the change of water retention function in watershed ecosystem and improving ecosystem service function, and provide theoretical support for rational comprehensive management of watershed.



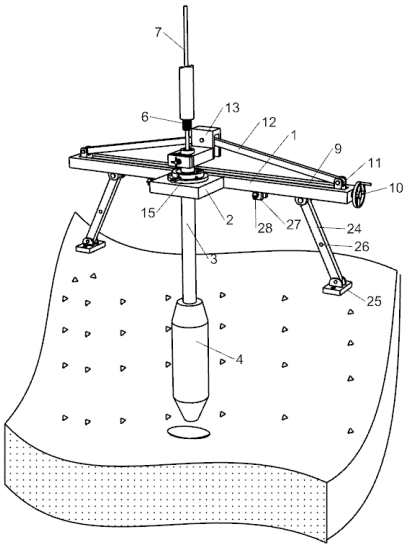
21: 2022/11382. 22: 2022/10/18. 43: 2022/11/30
51: E21B
71: Guizhou Science of Engineering and Applied Technology, China University of Mining & Technology-Beijing
72: Zhu Gao, Deguo Su, Guosheng Xu, Yuben Liu, Huigui Li, Xianli Xiang, Hao Chen

54: MONITORING DEVICE FOR STRATIFUGIC WATER AND WATER CONDUCTION FRACTURE ZONE UNDER KARST GEOLOGICAL CONDITIONS

00: -

The invention discloses a monitoring device for stratifugic water and water conduction fracture zone under the karst geological conditions. It comprises a supporting frame plate, and the side wall of the supporting frame plate is provided with a side plate platform. The side plate is inserted with a connecting pipe, the lower end of the connecting pipe is installed with a water level sensor body, the side plate is installed with a ring seat, the ring seat is installed on the rotation, the inner wall of the rotation ring is provided with an arc groove. The ring seat is provided with a positioning rod component, the support frame plate is provided with a chute, the chute is provided with a lifting structure. The invention is threaded to install a connecting pipe on

the water level sensor body, and the connecting pipe is connected through a threaded slot and a threaded barrel, so as to facilitate the extension of the connecting pipe. At the same time, through the lifting structure of the support frame plate and the ring seat on the side plate and the rotating ring. It is convenient to control the water level sensor body sticking into the hole, also convenient to remove the water level sensor body inspection and maintenance, and it is easy to operate.

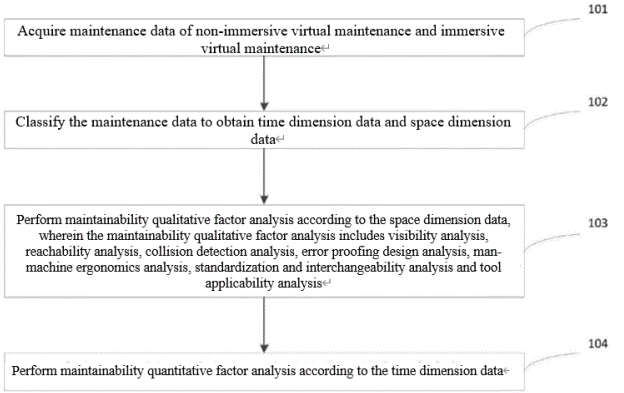


21: 2022/11383. 22: 2022/10/18. 43: 2022/11/30
51: G06Q
71: Beihang University
72: Jie Geng, Zhuoying Gao, Ying Li, Bingyi Liu, Chuan Lv, Weixuan Zhou

54: MAINTAINABILITY ANALYSIS METHOD BASED ON VIRTUAL MAINTENANCE ORIGINAL DATA SUPPORT

00: -

The invention relates to a maintainability analysis method based on virtual maintenance original data support. The method comprises the steps of obtaining non-immersive virtual maintenance and maintenance data in the immersive virtual maintenance; classifying the maintenance data to obtain time dimension data and space dimension data; performing maintainability qualitative factor analysis according to the spatial dimension data, wherein the maintainability qualitative factor analysis comprises visibility analysis, accessibility analysis, collision detection analysis, error prevention design analysis, man-machine work efficiency analysis, standardization and interchangeability analysis and tool applicability analysis; and performing maintainability quantitative factor analysis according to the time dimension data. According to the method, maintainability factor analysis is carried out based on the spatio-temporal data, interference and influence of subjective factors during analysis are effectively avoided, and objectivity, credibility and accuracy of maintainability virtual analysis are greatly improved.



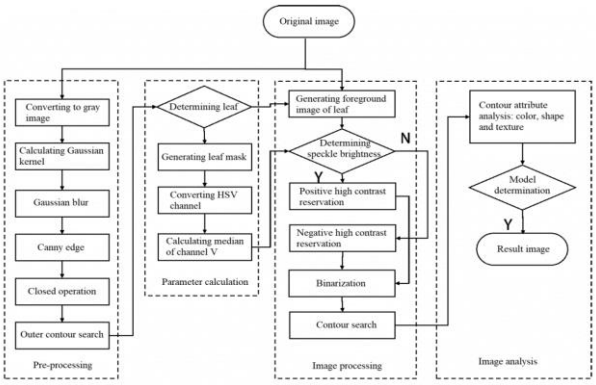
21: 2022/11424. 22: 2022/10/19. 43: 2022/11/30
51: G06K; G06T
71: Shanghai Academy of Agricultural Sciences
72: MA, Chao, LI, Linyi, YUAN, Tao, TIAN, Minglu, BAN, Songtao, YAO, Xinfeng, HU, Dong

54: SEGMENTATION AND QUANTITATIVE ANALYSIS METHOD FOR ANTHOCYANIN COLOR DEVELOPING REGION OF RICE LEAF

00: -

Provided is a segmentation and quantitative analysis method for an anthocyanin color developing region of a rice leaf, including the following steps: acquiring an original image; performing cutting pre-processing on the original image to obtain a leaf region in the original image; performing color space conversion to acquire an original image high-contrast image and an original image inverted high-contrast image, comparing a brightness value of the anthocyanin color developing region with a brightness value of a normal color developing region, and obtaining a target to-be-extracted image; performing binarization processing on the target to-be-extracted image, and obtaining a target image; and performing contour identification processing on the target image to obtain all anthocyanin color developing regions of the rice leaf. According to the method, intervention of an artificial threshold can be avoided, and an accurate identification result of the anthocyanin color

developing region of the rice leaf can be obtained quickly.

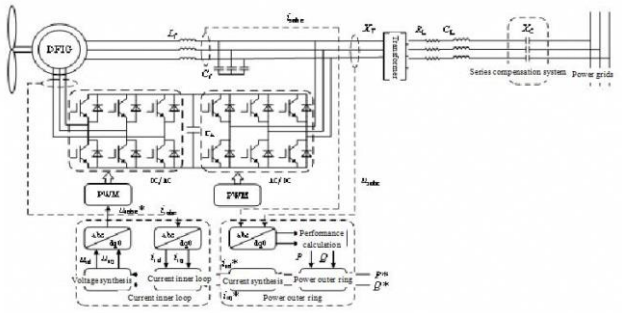


21: 2022/11425. 22: 2022/10/19. 43: 2022/11/30
51: A01C
71: Huaiyin Institute of Agricultural Sciences of Xuhuai Region in Jiangsu
72: SHAO, Wenqi, CHEN, Chuan, ZHONG, Ping, JI, Li, SUN, Chunmei, ZHUANG, Chun, ZHANG,Ankang
54: WHEAT SEEDLING-STRENGTHENING AGENT COMPOSITION AND APPLICATION METHOD THEREOF
00: -
Disclosed is a wheat seedling-strengthening seed-dressing agent composition, including nutrient elements, biological agents, growth regulators and auxiliary agents. The agent composition includes the following components in parts by weight: 10-30 parts of ammonium sulfate, 15-45 parts of zinc sulfate, 1.5-4.0 parts of thiram, 0.1-0.3 part of triadimefon, 0.01-0.03 part of uniconazole, 5-30 parts of OPS soil enzyme activator and tackifier (attapulgite). Before sowing, wheat seeds are fully immersed into clear water weighing 3.5-4.5% of the seed mass, and the seed-dressing agent is evenly stirred with the wheat seeds according to a mass ratio of the seed-dressing agent to the wheat seeds being 1:70-1:150. The seed-dressing agent can significantly increase the emergence rate and seedling rate of wheat, effectively prevent diseases at a seedling stage, promote root growth of wheat, and regulate the shoot to grow into short strong seedlings so as to enhance stress resistance.

21: 2022/11426. 22: 2022/10/19. 43: 2022/11/30
51: C05G
71: Heilongjiang Academy of Black Soil Conservation & Utilizations
72: ZHANG Jiuming, LIU Jie, CHI Fengqin, KUANG Enjun, ZHU Yingxue, YUAN Jiahui, TONG Yuxin, ZHANG Junzheng, WEI Dan, SHEN Huibo, ZHENG Shuqin, JIANG Yu, MI Gang, LIU Yuanyuan, LI Shuangyi, AN Tingting, PEI Jiubo
54: SPECIAL EFFICIENT SLOW-RELEASE FERTILIZER FOR WHEAT
00: -
The invention relates to a special efficient slow-release fertilizer for wheat, which comprises a slow-release layer and a fertilizer layer, where the fertilizer layer comprises 10-50 parts of ammonium sulfate, 30-150 parts of potassium chloride, 10-50 parts of phosphate fertilizer, 30-150 parts of polypeptide urea, 10-12 parts of peel, 3-5 parts of humic acid, 8-10 parts of decomposed pig manure and 8-10 parts of yeast powder, 2-5 parts of gibberellin and 5-15 parts of mountain ginseng. According to the growth habit of wheat, the slow-release fertilizer of the invention selects the appropriate fertilizer, improves the proportion, and through the interaction between ingredients and corrosion inhibitors, improves the absorption efficiency of nutrients by wheat, reduces fertilization times and leaching loss of fertilizer, and improves the utilization rate of fertilizer.

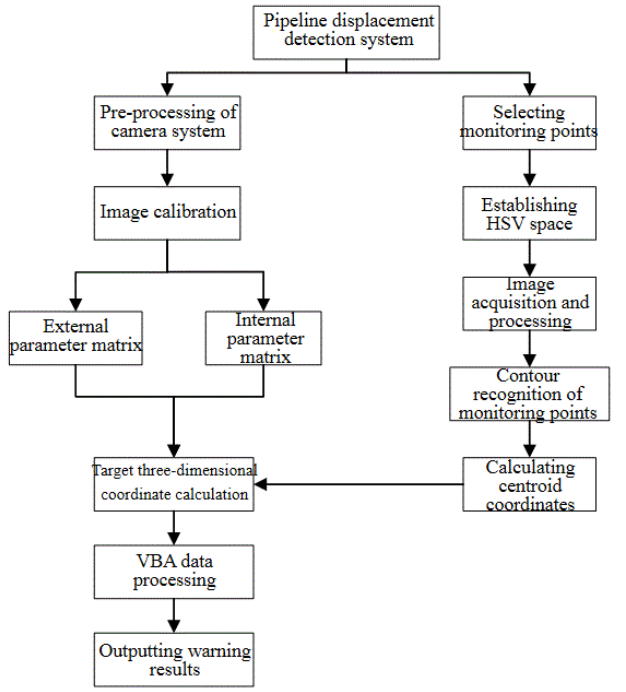
21: 2022/11427. 22: 2022/10/19. 43: 2022/11/30
51: H02J
71: SHENYANG UNIVERSITY OF TECHNOLOGY
72: ZHOU Xinmeng, DING Xiying
54: CONSTRUCTION AND SUPPRESSION STRATEGY OF SUB-SYNCHRONOUS OSCILLATION MONITORING NETWORK FOR GRID-CONNECTED WIND FARM INSTRUCTIONS
00: -
To solve the problem of subsynchronous oscillation caused by wind power grid-connected series compensation, a monitoring network and corresponding control strategy are proposed. The network simulation simulates the system operation when various factors change dynamically, and collects the operation data. Based on a large amount of real-time operation state data measured in the wind power grid-connected system, the deep learning algorithm (DLA) is used to construct "convolution neural network deep learning intelligent identification subsynchronous oscillation level algorithm" to realize the real-time level evaluation of subsynchronous oscillation; According to the identification result of subsynchronous oscillation

level, the control strategy optimizes the system control structure in the second layer, and quickly suppresses subsynchronous oscillation in the local area through PIPR control strategy and switching control strategy.

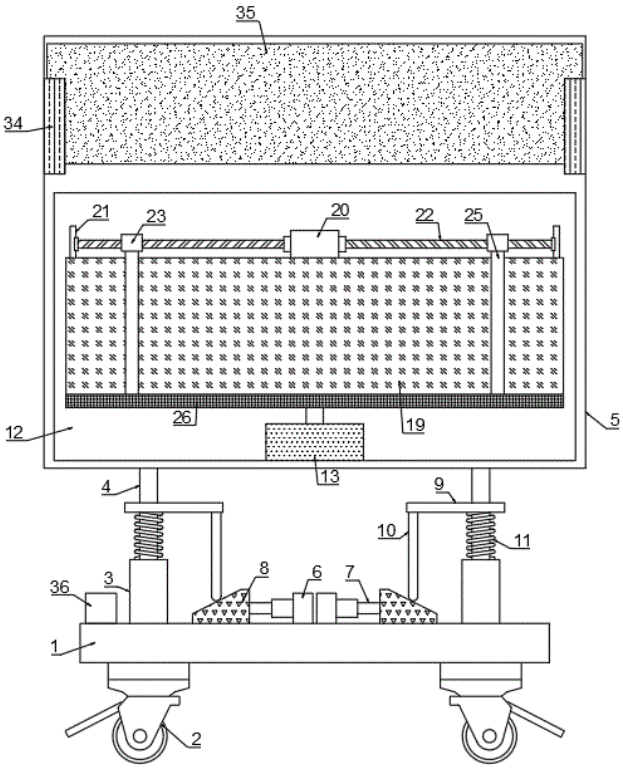


21: 2022/11428. 22: 2022/10/19. 43: 2022/11/30
51: C12N
71: Xing Zhenhua
72: Xing Zhenhua
54: A METHOD FOR RAPIDLY SCREENING MONOCLONAL ANTIBODY AND ITS APPLICATION
00: -
The invention discloses a method for rapidly screening monoclonal antibody and its application, and belongs to the technical field of IVD diagnosis. The method comprises the following steps: (1) diluting the corresponding antigen with a diluent, and then adding the antigen into an enzyme-labeled plate for coating; (2) adding washing liquid, shaking the plate on a shaking table, and adding diluent for sealing; (3) adding washing liquid, and shaking the plate on a shaking table; (4) taking the supernatant of the same monoclonal cell to be tested as the sample to be tested, taking the sample with the same volume, mixing it with PBS and clinical sample, and reacting in a thermostat; (5) respectively adding the mixed solution in step (4) into the coated 96-well plate for comparison, and incubating in an incubator; (6) adding washing liquid to wash the plate; (7) adding enzyme-labeled secondary antibody for incubation, and washing the plate for 4-6 times; (8) adding chromogenic substrate for reaction; (9) stopping color development; (10) calculating the competitive inhibition, and selecting the sample well to be tested with the competitive inhibition not less than 60% for subcloning.

21: 2022/11429. 22: 2022/10/19. 43: 2022/11/30
51: F17D
71: Xi'an University of Technology, Xi'an Thermal Power Research Institute Co.,Ltd.
72: ZHAO Yaping, LI Zhihua, QIN Dige, ZHENG Xiaobo, GUO Pengcheng
33: CN 31: 202210833635.4 32: 2022-07-15
54: MONITORING METHOD FOR DISPLACEMENT AND TORSIONAL ANGLE OF CENTRAL SHAFT OF LARGE INDUSTRIAL PIPELINE
00: -
A monitoring method for the displacement and torsional angle of a central shaft of a large industrial pipeline provided by the invention, including: pasting a round artificial marker on both ends of the pipe to form A and B points, using the first and second binocular cameras to collect the images of A and B points respectively, then detecting the contour and corresponding centroid coordinates of the artificial marker at different times, and obtaining the pixel coordinates of the first and second binocular cameras at different times for the left and right eyes; converting the left and right target pixel coordinates of the first binocular camera to the coordinates under the world coordinate system with the left eye optical center as the origin to obtain a series of point A coordinate values; converting the left and right target pixel coordinates of the second binocular camera to the world coordinate system value with the left eye optical center of the second binocular camera as the origin, and then converting to the next series of point B coordinate values of the world coordinate system with the left eye optical center of the first binocular camera as the origin; using these coordinate values to obtain the total displacement and component of points A and B at different times, as well as the torsional angle of the central axis of large industrial pipelines.

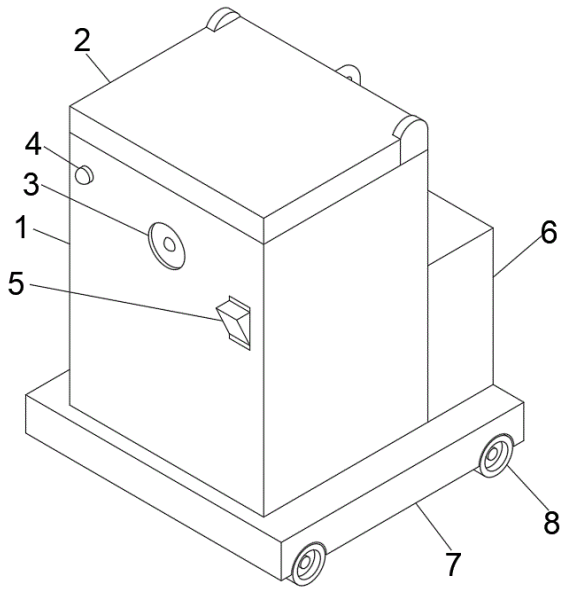


21: 2022/11430. 22: 2022/10/19. 43: 2022/11/30
51: G09B
71: Suzhou University
72: Han Juan, Sun Shanhui
54: DISPLAY DEVICE FOR COMBINED TEACHING
00: -
The invention discloses a display device for combined teaching, which comprises a base, wherein pulleys are symmetrically and fixedly connected to the lower side wall of the base, sleeves are symmetrically and fixedly connected to the upper side wall of the base, lifting rods are inserted into the upper side walls of the two sleeves in a sliding manner, and the top ends of the two lifting rods are fixedly connected with a panel together. According to the invention, the teaching content to be analyzed can be displayed on the display screen, and the key points of the teaching content can be displayed on the blackboard in a writing mode, so that the primary and secondary of combined teaching are distinct, and the teaching effect is improved.



21: 2022/11431. 22: 2022/10/19. 43: 2022/11/30
51: B65F
71: Huainan Normal University
72: Chen Lei, Sun Zhengyan, Yao Jinfeng
54: AN INTELLIGENT GARBAGE CAN DEVICE
00: -
The invention relates to the technical field of intelligent garbage cans, and discloses an intelligent garbage can device which comprises a can body, a central processing unit and a second infrared sensor, wherein one side of the upper end of the can body is hinged with a cover plate, the front end face of the can body is fixedly provided with a first infrared sensor close to the middle of the upper end, and one inner side wall of the cans is provided with an operating groove; An electric telescopic rod is fixedly arrange at that bottom in the running groove, a supporting plate is fixedly connecte to the upper end of the electric telescopic rod, first connecting plates are fixedly connected to both side of the upper end of the supporting plate, second connecting plates are rotatably connected to the upper ends of the two first connecting plates, and the upper ends of the two second connecting plates are rotatably connected with a cover plate. Accord to that invention, the device for the intelligent garbage

can has the effect of keeping the freshness in the garbage can, and meanwhile, the device for keep the freshness in the garbage can has better functions of automatically opening a door and automatically war when the garbage is full.



21: 2022/11435. 22: 2022/10/19. 43: 2022/10/25
51: C12N
71: GUANGXI BOTANICAL GARDEN OF MEDICINAL PLANTS
72: JIANG, JIANPING
33: CN 31: 202210091526.X 32: 2022-01-26
54: SNP MARKERS AFFECTING GROWTH TRAITS OF MACROBRUCHIUM ROSENBERGII AND APPLICATION THEREOF
00: -
The present invention discloses two SNP markers affecting growth traits of M. rosenbergii, including c.3693 A>G locus and c.3672 T>C locus of UGP2 (UTP-glucose-1-phosphate uridylyltransferase 2) gene. The present invention also provides primer pairs, a kit and an application. The SNP markers can be used for selecting individuals with dominant genotype (AA type of c.3693 A>G and TT type of c.3672 T>C) and performing the molecular marker-assisted breeding of M. rosenbergii, which will facilitate genetic improvement of growth traits, and have broad application value for breeding new species (strains) of high-yield M. rosenbergii.

21: 2022/11436. 22: 2022/10/19. 43: 2022/11/30
51: A01G
71: Shandong Institute of Pomology
72: Wei HaiRong, Xu Li, Tan Yue, Zong XiaoJuan, Zhu Min
54: LABOR-SAVING METHOD FOR SHAPING AND PRUNING OF SWEET CHERRY TREE
00: -
The invention belong to that technical field of agriculture, and particularly relates to a labor-saving method for shaping and pruning of sweet cherry trees. The pruning method specifically comprises the following steps: 1, erecting a bracket; 2, 2-year-old seedlings are used for field planting, the bud-notching is carried out to promote directional branching, so that the groups of fruit branches are distributed spirally, and continuously pinching the new shoots; in winter, the sprouting branches on the central trunk are cut short; 3, pruning the trees in the 2nd-3rd year after field planting in full fruit period; 4, pruning of trees in the fruit-bearing period; (5) supporting technical measures. According to the characteristics of dwarf Gisela rootstocks, the invention provides a labor-saving method for shaping and pruning of sweet cherry trees; the cylindrical shaping of the pruned sweet cherry has the advantages of stable tree skeleton, strong light transmission, no excessive nutrient consumption, fast shape-forming, high yield, high quality and high fruit rate; the pruning method is simple, convenient for picking and labor-saving; and the wide row spacing facilitates mechanized operation and high-density cultivation.

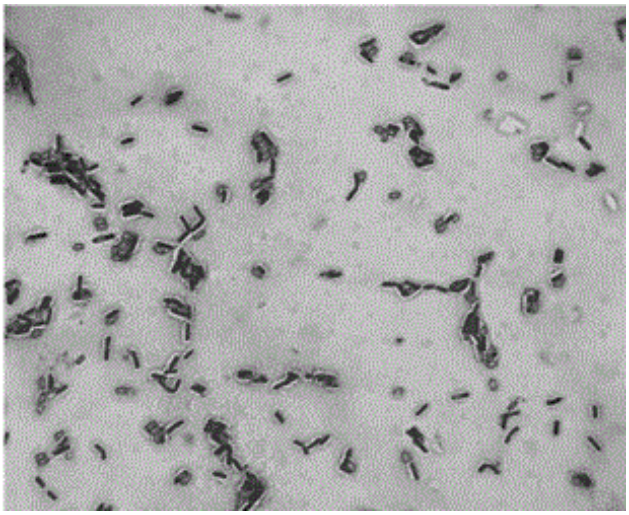


21: 2022/11437. 22: 2022/10/19. 43: 2022/11/30
51: A01G; C12N
71: Yunnan Agricultural University, Institute of Crop Breeding and Cultivation,Sichuan Academy of Agricultural Sciences
72: SHI Chunlan, TANG Yongyu, ZHU Guoyuan, YE Kunhao, ZHANG Yongke, QIN Deqiang, TANG Ping, YUAN Yuan, ZENG Hualan, YE Pengsheng, GAO Xi, WU Guoxing

54: BACILLUS SIAMENSIS AND APPLICATION THEREOF

00: -

The invention discloses a Bacillus siamensis and its application, and relates to the technical field of agricultural microorganisms. Bacillus siamensis is preserved in the China General Microbiological Culture Collection Center (CGMCC) on June 27th, 2022; the address of the preservation unit: No.3, Courtyard No.1, Beichen West Road, Chaoyang District, Beijing; collection number: CGMCC No.25193. Bacillus siamensis disclosed by the invention is separated from the pupae of the yellow mealworm, can be used for preventing and treating the aconite southern blight caused by Sclerotium rolfsii, has strong inhibition ability on Sclerotium rolfsii, and provides good biological prevention and treatment resources for preventing and treating the aconite southern blight.

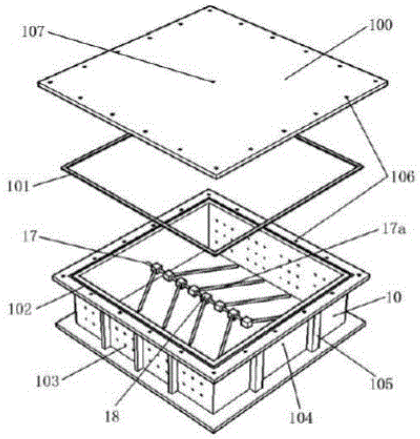


21: 2022/11439. 22: 2022/10/19. 43: 2022/11/30
51: E21B
71: Taiyuan University of Technology
72: WANG, Xuefeng, FAN, Nan, DENG, Cunbao, GUO, Xiaoyang, CHEN, Xi, HAO, Chaoyu, WANG, Yansheng

54: PHYSICAL EXPERIMENT BOX BODY FOR MULTI-BRANCH HORIZONTAL WELL GAS EXTRACTION

00: -

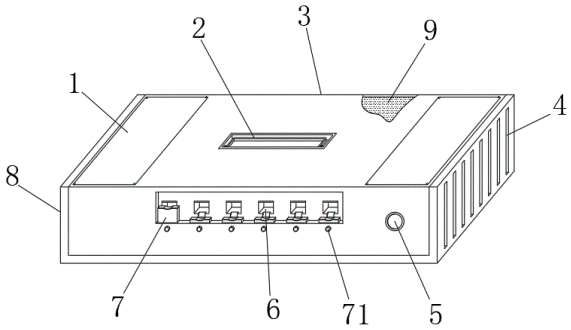
The present invention discloses a physical experiment box body for multi-branch horizontal well gas extraction, which comprises: an integral part and a sealing structure of a pressure sensor and a temperature sensor. The integral part includes a box body, a cover plate of the box body, a sealing groove, a gas injection hole, a data acquisition hole and an extraction hole. The pressure monitoring part includes: a pressure sensor, a data acquisition pipe, a stainless steel ferrule joint, and a sealing rubber ring. The temperature monitoring part includes: a paperless recorder, a thermocouple temperature measurement line, a stainless steel ferrule joint, a data acquisition pipe, a sealing rubber ring, an epoxy resin, and a temperature sensor.



21: 2022/11441. 22: 2022/10/19. 43: 2022/11/29
51: G09B
71: Zhejiang International Maritime College
72: Jianmin ZHOU

54: A DATA EXCHANGE DEVICE FOR COMPUTER COMMUNICATION

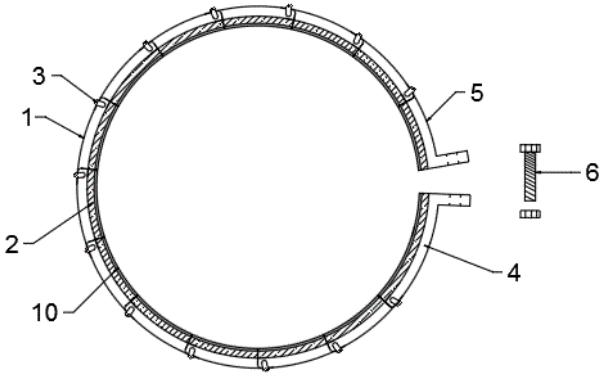
00: -
The present invention discloses a data exchange device for computer communication, which relates to the art of data exchange equipment, including a limit protective shell and a communication data switch body that is mounted in the middle of the limit protective shell and has a concave base around the limit protective case and the communication data switch body. When the data line is connected in the present invention, personnel open the shielding of the elastic shield device outside of the data exchange interface, and the elastic shield can effectively avoid the entry of external flying insects and dust, thus effectively avoiding the interference caused by flying insects and dust when the computer data line is connected.



21: 2022/11442. 22: 2022/10/19. 43: 2022/11/29
51: E21F
71: Guizhou University, Guizhou Panjiang Coal and Electricity Group Technology Research Institute Co. Ltd
72: Zhenqian Ma, Yunlin Shuai, Hanghang Zheng, Lijie Zhou, Hongfei Xie, Dongping Zhou, Lang Zhou

54: DETACHABLE PIPELINE INTERFACE PROTECTION DEVICE AND INSTALLATION METHOD IN UNDERGROUND COAL MINE

00: -
The invention provides a detachable pipeline interface protection device and an installation method for underground coal mines. The device comprises a chain plate, a first connector and a second connector. The chain plate has a plurality of pieces, and the head and tail are hinged to each other to form a ring body with a gap. The first connector and the second connector are hinged at both ends of the gap of the ring body, respectively. The first connector and the second connector are detachable to each other at one end close to each other, and the chain plate, the first connector and the second connector are respectively laid with elastic materials at one end of the inner side of the ring body. The invention has simple structure and realizes free disassembly and assembly of the protection device. Through a plurality of chain plates hinged into a ring body, the size of the protection device is adjusted according to the pipeline interface specification; and improve the protection effect; the adaptability of the chain plate is strong, and the storage specification range is reduced. It only needs to store the first connector and the second connector of different specifications, which reduces the cost.

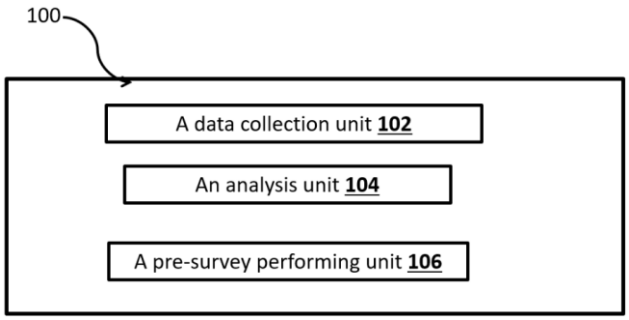


21: 2022/11443. 22: 2022/10/19. 43: 2022/11/24
51: G01N
71: Dr. Rahul Boadh, Dr. Surinder Singh, Dr. Renu Devi, Dr. Anil Yadav, Dr. Satish Kumar, Dr. Soniya, Dr. SUKHVINDER SINGH BAMBER, Dr. Neelam Sharma, VINAY ARORA, Neeraj Sharma, Dr. Umesh Kumar, Parveen Kumar
72: Dr. Rahul Boadh, Dr. Surinder Singh, Dr. Renu Devi, Dr. Anil Yadav, Dr. Satish Kumar, Dr. Soniya, Dr. SUKHVINDER SINGH BAMBER, Dr. Neelam Sharma, VINAY ARORA, Neeraj Sharma, Dr. Umesh Kumar, Parveen Kumar

54: A COUPLING TECHNIQUE BASED SYSTEM FOR STUDYING THE POLLUTANTS EMITTED FROM VEHICLES

00: -

The present disclosure relates to a coupling technique based system for studying the pollution emitted from vehicles. In the present disclosure, the effects of pollutants on the health of people are studied, wherein the pollutants (such as CO, HC, and NOx) are emitted by the different type of vehicles, their creation is studied through coupling mechanisms. Furthermore various ways are proposed for reducing their levels and the detrimental impacts on human health. The obtained results from the present study shows that a significant percentage of people appear to be suffering from cancer, asthma, and other various other ailments linked to exhaust gases. The proposed study suggests that for controlling various diseases, the government and NGOs should propose an awareness campaign and should impose more stringent emission control regulations.

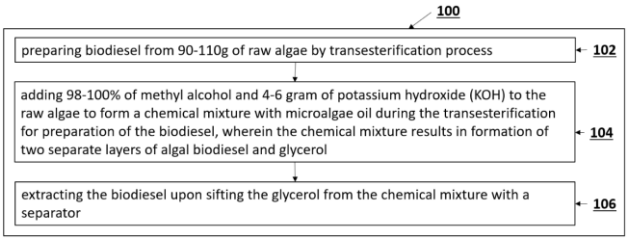


21: 2022/11444. 22: 2022/10/19. 43: 2022/11/24
51: C12N
71: Bhojraj Natthuji Kale, Dr. Sewan Das Patle, Dr. Vijay Ramrao Khawale, Dr.Shilpa Ramkrishnarao Kalambe
72: Bhojraj Natthuji Kale, Dr. Sewan Das Patle, Dr. Vijay Ramrao Khawale, Dr. Shilpa Ramkrishnarao Kalambe

54: A FORMULATION FOR PREPARING MICROALGAE BIODIESEL AND A METHOD THEREOF

00: -

A formulation and a method (100) for preparing microalgae biodiesel, comprises of: preparing biodiesel from 90-110g of raw algae by transesterification process; adding 98-100% of methyl alcohol and 4-6 gram of potassium hydroxide (KOH) to the raw algae to form a chemical mixture with microalgae oil during the transesterification for preparation of the biodiesel, wherein the chemical mixture results in formation of two separate layers of algal biodiesel and glycerol; and extracting the biodiesel upon sifting the glycerol from the chemical mixture with a separator.

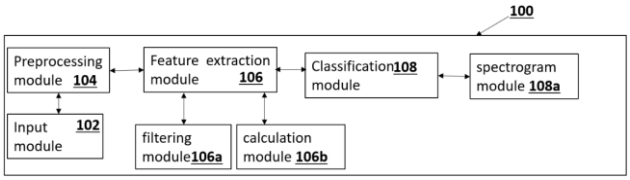


21: 2022/11445. 22: 2022/10/19. 43: 2022/11/24
51: G10L
71: Mangalore Institute of Technology & Engineering
72: Dr. Puneet Mittal, Dr. Pradeep B S, Dr. Shreekumar T, Mr. Manjunath H, Mr. Rajesh Kamath, Dr. Vinayambika S Bhat, Dr. Sukhwinder Sharma

54: A SYSTEM AND A METHOD FOR CLASSIFYING GENDER AND EMOTION BY HIERARCHICAL MODELLING

00: -

A device (100) and a method (200) for classifying gender and emotion by hierarchical modelling based on convolutional neural network, comprises of: an input module (102) for acquiring a plurality of audio signals as input; a pre-processing module (104) for processing and enhancing the plurality of audio signals acquired from the input module; a feature extraction module (106) for extracting a plurality of MFCC feature maps from each of the preprocessed audio signals, wherein a Discrete Cosine Transform (DCT) generates cepstrum coefficients from the extracted Mel frequency factor; and a classification module (108) for classifying the extracted MFCC feature maps to identify the gender based on the voice signal by a convolutional neural network, wherein the plurality of feature maps is classified into the emotions based on a plurality of dataset (110).

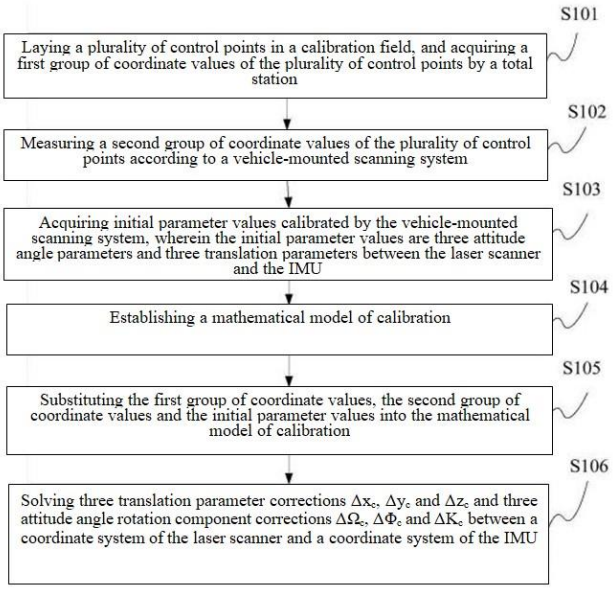


21: 2022/11491. 22: 2022/10/20. 43: 2022/11/28
51: G01C; G06T
71: ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY, SHEN XIN DA CHENG TECHNOLOGY CO., LTD.
72: CHEN, Cai, GUO, Kecai
33: CN 31: 202211247473.2 32: 2022-10-12

54: CONTROL POINT CALIBRATION METHOD FOR MOBILE 3D IMAGING SYSTEM

00: -

The present invention relates to a control point calibration method for a mobile 3D imaging system, which comprises: laying a large number of control points in an established calibration field; measuring coordinates of one group of control points as true values by utilizing a high-precision total station; then, comparing results measured by utilizing a laser scanner and the true values; and substituting into calibrated initial parameter values; solving three translation parameter corrections Δxc, Δyc and Δzc and three attitude angle rotation component corrections ΔΩc, ΔΦc and ΔKc between the laser scanner and a POS (Position) coordinate system by an equation solving method; and correcting conversion parameters obtained by calibration.



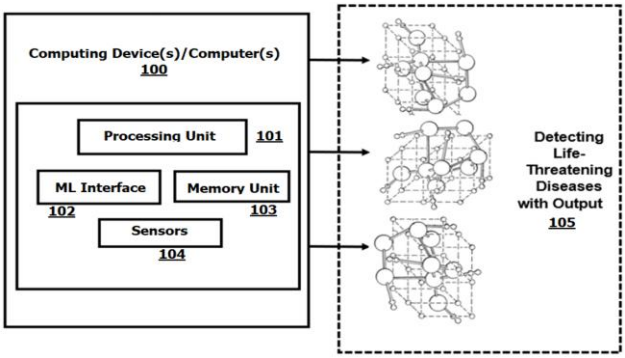
21: 2022/11494. 22: 2022/10/20. 43: 2022/11/24
51: G01N
71: Dr.Durga Bhavani Dasari, Mrs.Sagarika Majhi, Dr.Valli Madhavi Koti, Ms.Iti Chauhan, Dr.Madhu Verma, Mr.Ravi Prakash, Dr.Sushma Jaiswal, Dr.K.G.S.Venkatesan, Dr.Vidyan Kumari, Mr.Tarun Jaiswal
72: Dr.Durga Bhavani Dasari, Mrs.Sagarika Majhi, Dr.Valli Madhavi Koti, Ms.Iti Chauhan, Dr.Madhu Verma, Mr.Ravi Prakash, Dr.Sushma Jaiswal, Dr.K.G.S.Venkatesan, Dr.Vidyan Kumari, Mr.Tarun Jaiswal

54: AN IOT-BASED CLINICAL DIAGNOSTIC KIT FOR THE DETECTION OF LIFE-THREATENING DISEASES

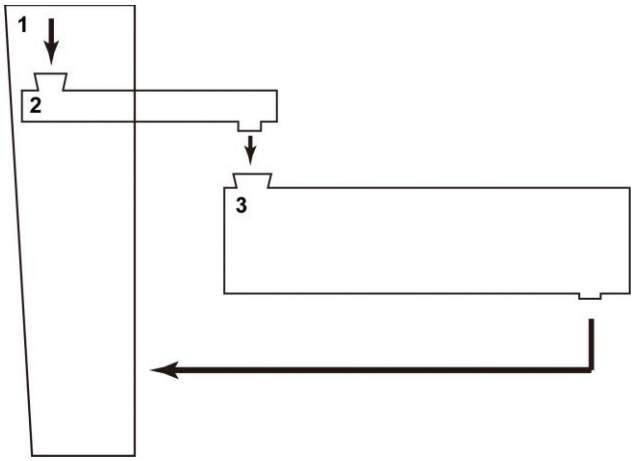
00: -

The recent life-threatening diseases will spread from person to person due to the contagious nature of the diseases. The diseases should be diagnosed remotely to prevent this harmful spread among people. The present invention relates to the field of an IoT-based clinical diagnostic kit. The invention more particularly relates to an IoT-based clinical diagnostic kit for the detection of life-threatening diseases comprising one or more computers (100); a processing unit (101); a machine learning model (102) that generates scores indicating levels of applicability of different digital therapeutics in response to receiving input feature data showing disease symptoms, characteristics, and behaviour of the person; a memory unit (103); a plurality of sensors that capture sensor data and transmit the sensor data via a self-configuring sensor kit network

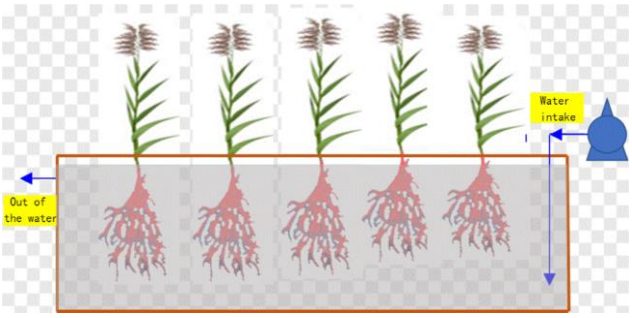
(104); a communication device (302); and a long-range network (303). The machine learning model is trained based on training data describing characteristics of multiple people who have contracted an infectious disease, as well as treatments provided and responses of the people.



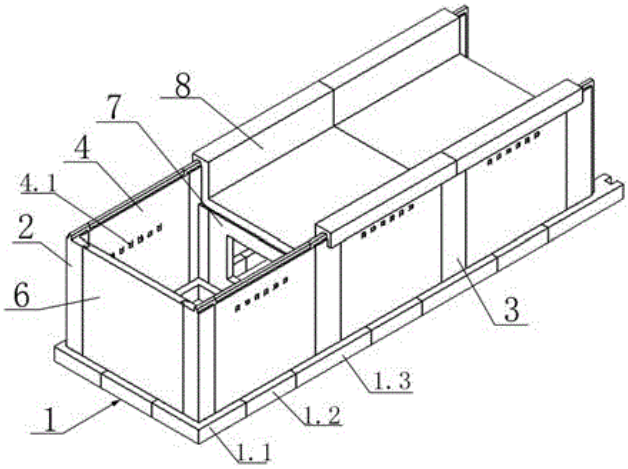
21: 2022/11516. 22: 2022/10/21. 43: 2022/11/29
51: G06Q
71: China University of Mining and Technology
72: SHA Jie, HU Xinnan, LI Chaoqun, GU Rui, TIAN Xiaoling, WANG Yusheng, TIAN Zhiguang, BU Xiangning, NI Chao, XIE Guangyuan
54: ONLINE DETECTION SYSTEM AND METHOD OF PRODUCT MEDIA IN COAL PREPARATION PLANT
00: -
The invention provides an online detection system for product media in a coal preparation plant, including: a sampling module, a media detection module and an output module; the sampling module is used for quantitatively sampling products of a coal preparation plant to obtain initial weight of samples; the media detection module is used for carrying out media detection on the sample to obtain weight of the medium; and the output module is used for obtaining the media loss rate of the product according to the media weight and the initial weight of the sample, and completing the online detection. The invention has the advantages of low cost, low investment and convenient installation, so realizes real-time on-line monitoring of the media of coal preparation plant products, provides a basis for the reasonable adjustment of the water spray of the demister screen, thus effectively reducing the media consumption of coal preparation plant, and having remarkable economic benefits.



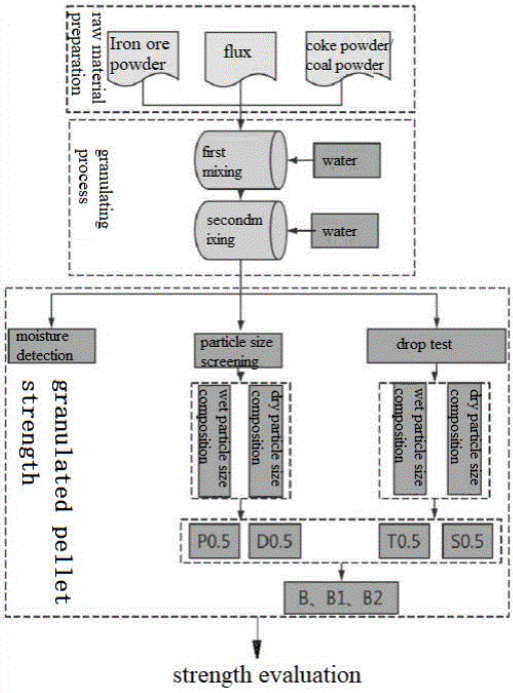
21: 2022/11517. 22: 2022/10/21. 43: 2022/11/29
51: C02F
71: Central South University of Forestry and Technology
72: Du Lu, Chen yonghua, Qi lingyao, Zhou hongyu
54: METHOD FOR REMOVING MICROPLASTICS FROM WATER BODY BY CONSTRUCTED WETLAND
00: -
Belon to that technical field of wastewater treatment, the invention discloses a method for induce the formation of an iron film on the surface of a plant root by using Fe2+, increasing the tolerance of the plant to microplastics and improve the purification capability of an artificial wetland to water microplastics. The method comprises the following steps of: selecting aquatic plants with developed root systems and rough rhizome surfaces; Carrying out pretreatment and induction strengthening on the hydrophyte; Construct and operate the constructed wetland system. The preferred aquatic plants are Arundo donax and Phragmites communis, and the induction concentration of Fe2+is 20 to 60.m. The method disclose by that invention can effectively reduce the inhibition rate of the microplastics on the root system of the aquatic plants, improve the removal rate of the microplastics in the water body, and reduce the ecological risk of the microplastic in the water body.



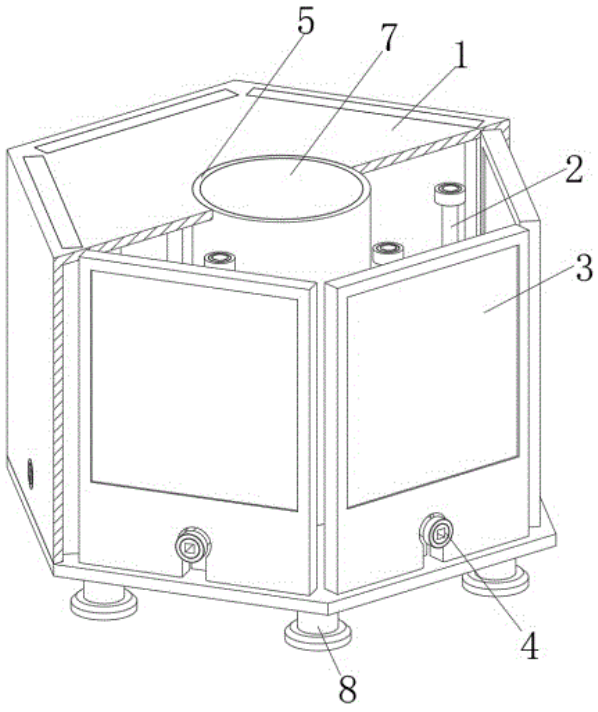
21: 2022/11518. 22: 2022/10/21. 43: 2022/11/29
51: A01G
71: Jilin Jianzhu University
72: XU Lina, NIU Lei, SUN Shuang, LIU Ning, WANG Ruozhu, TIAN Wei, JIANG Xin, SHI Chenglin
54: ASSEMBLED GREEN BELT STRUCTURE
00: -
An assembled green belts structure, including a rectangular foundation, wherein the length of the horizontal side of the foundation is adapted to the width of the green belt; corner columns are arranged at four corner positions of the foundation, and side columns are correspondingly arranged at the opposite side of the foundation; longitudinal plates are connected between edge columns and between edge columns and corner columns; the upper part of the longitudinal plate is provided with a water conduit for guiding road surface water into the green belt, and the lower part of the longitudinal plate is provided with drainage holes for draining water at the position corresponding to the underground drainage system in the road structure; transverse plates are connected between laterally adjacent corner columns, and transverse partitions are arranged between laterally adjacent edge columns; each transverse partition is provided with a hole for water to flow through; and a cover plate is overlapped between the tops of the longitudinal plates on the opposite sides of the foundation. The invention solves the technical problem that the traditional green belts structure may not quickly guide and discharge short-term heavy rainfall and rainstorm.



21: 2022/11520. 22: 2022/10/21. 43: 2022/11/29
51: G01N
71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: QIE, Yana, LIU, Xiaojie, LI, Yuzhuang, LAN, Chenchen, LIU, Ran, ZHANG, Shuhui, WANG, Xianglong, LI, Fumin, SUN, Yanqin, LYU, Qing
33: CN 31: 202210144306.9 32: 2022-02-17
54: DETECTION AND EVALUATION METHOD ANALYSIS FOR STRENGTH OF SINTERED GRANULATED PELLET
00: -
A detection and evaluation method for strength of sintered granulated pellet includes a sintered granulated pellet strength detection part and a detection result calculation part. The sintered granulated pellet strength detection part is performed according to the following steps: a. determining detected granulated pellets: selecting Nkg granulated pellets as the detected granulated pellets; b. a classification detection process of the detected granulated pellets; the detection result calculating part is performed as follows: B, B1, B2 are calculated by substituting the detected detection data into the calculation formula, wherein B is a strength of the granulated pellets against peeling off of surface adhesive powder, B1 is a strength of the granulated pellets against peeling off of adhesive powder during a transportation process, B2 is a strength of the granulated pellets against peeling off of adhesive powder during a drying process.

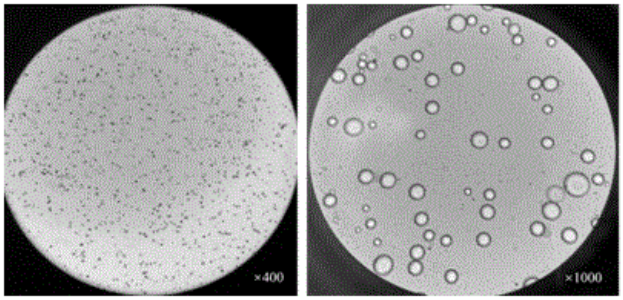


21: 2022/11521. 22: 2022/10/21. 43: 2022/11/29
51: G09B
71: Liupanshui Normal University
72: YU Chengbin, DING Ke
54: NEW TYPE OF TEACHING EQUIPMENT FOR SCIENCE AND TECHNOLOGY EDUCATION
00: -
The invention discloses a new type of teaching equipment for science and technology education, which comprises a desk body, wherein the desk body is hollow; the cross section of the desk body is hexagonal; six connecting mechanisms are installed between the upper inner wall surface and the lower inner wall surface of the desk body; the six connecting mechanisms are distributed in a circular array; the six connecting mechanisms are all screwed with display mechanisms; the six connecting mechanisms are all connected with rotating mechanisms in transmission; and the six rotating mechanisms are respectively movably connected with the six vertical end faces of the desk body. According to the new type of teaching equipment for science and technology education, six display screens can be lifted, students can watch teaching videos at more appropriate positions and perspectives, and the learning effect is better; meanwhile, one of the display screens can be lifted independently according to the use requirements, and scientific and technological teaching articles can be displayed, so that it is convenient to use and suitable for popularization.

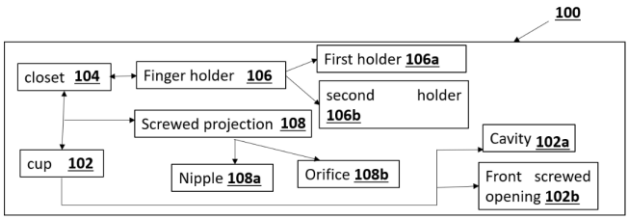


21: 2022/11522. 22: 2022/10/21. 43: 2022/11/29
51: A01N
71: Shenyang Agricultural University
72: HE Lu, ZHA Rongqi, MENG Jun, LIU Ruibo
54:TETRACHLORANTRANILIPROLE·AVERMECTIN MICROCAPSULE SUSPENDING AGENT AND PREPARATION METHOD THEREOF
00: -
The invention discloses a tetrachlorantraniliprole·avermectin microcapsule suspending agent and its preparation method,and relates to the technical field of pesticide formulation processing. The microcapsule suspending agent comprises a core material and a wall material, where the core material is tetrachlorantraniliprole and avermectin, and the wall material is gelatin and Arabic gum; the particle size of the microcapsule suspending agent is 0.5-2 micron. According to the invention, tetrachlorantraniliprole and avermectin are used as core materials, gelatin and Arabic gum are used as wall materials, and 2 percent tetrachlorantraniliprole and avermectin microcapsule suspending agent is prepared by complex coacervation technology, the embedding rate can reach 100 percent, thus enhancing the activity and

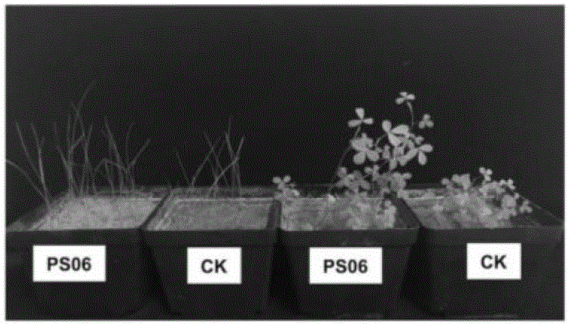
stability of the two original medicines; compounding with tetrachlorantraniliprole can effectively delay the drug resistance of avermectin target insects. In the invention, Gelatin and Arabic gum used are natural macromolecular compounds, which have no pollution to the environment and are easy to degrade. At present, there are few preparation products related to tetrachlorantraniliprole in the market, and the invention can effectively fill the market gap.



21: 2022/11523. 22: 2022/10/21. 43: 2022/11/29
51: A61J
71: PUGAZHENTHAN THANGARAJU, SAJITHA VENKATESAN, SUDHAKAR RAMAMOORTHY, HEMASRI VELMURUGAN, HIMANSHU NIRMAL CHANDU
72: PUGAZHENTHAN THANGARAJU, SAJITHA VENKATESAN, SUDHAKAR RAMAMOORTHY, HEMASRI VELMURUGAN, HIMANSHU NIRMAL CHANDU
54: A MODIFIED INFANT FEEDING CUP APPARATUS
00: -
A Modified Infant Feeding Cup Apparatus (100), comprises of: a cup (102) having a cavity (102a) and a front screwed opening (102b), wherein depth of the cavity (102a) is lower than length of the cup (102); a closet (104) fused with the cup covering more than half of the length of the cup (102) providing a crescent edged opening; at least a pair of finger holder (106) fabricated on either side of the cup (102) for providing grip to hold the cup (102), wherein the pair of finger holder (106) provides a first space (106a) for a thumb on one side and a second space (106b) for remaining fingers on other side; and a screwed projection (108) mimicking shape of a nipple in a front side of the cup (102) that fits exactly with the front screwed opening forming a nipple (108a).

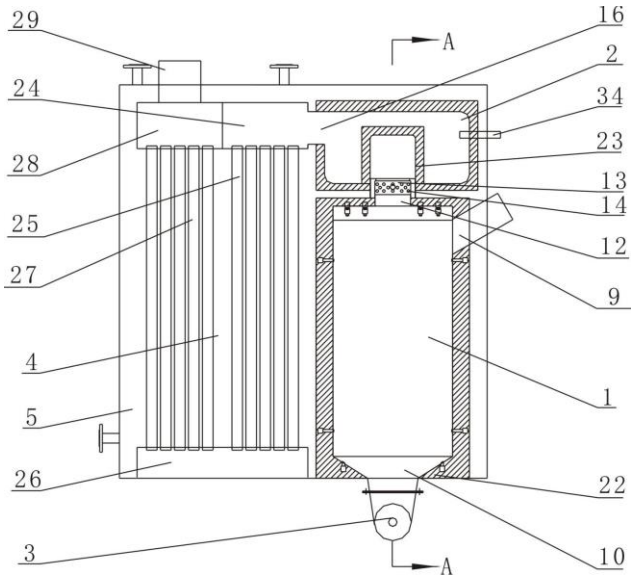


21: 2022/11524. 22: 2022/10/21. 43: 2022/11/29
51: A01N; A01P; C05F; C05G; C12N; C12R
71: Inner Mongolia University
72: CHEN, Lingling, BAO, Zhihua, NIU, Yiding, SHI, Jiajia, WANG, Kexin
54: BACILLUS PRATENSIS PS06 AND APPLICATION THEREOF
00: -
The present disclosure provides a Bacillus pratensis PS06 and an application thereof, and relates to the technical field of microbes. The Bacillus pratensis PS06 disclosed in the present disclosure is isolated from rhizospheric soil of the S. breviflora and the preservation number is CGMCC 1.17355T. The new strain of the Bacillus isolated and obtained by the present disclosure has a growth-promoting effect and strong salt tolerance. The present disclosure not only supplements new and valuable resources of bacterial species, but also has a great significance for restoring and improving grassland ecosystems by utilizing microbial resources.

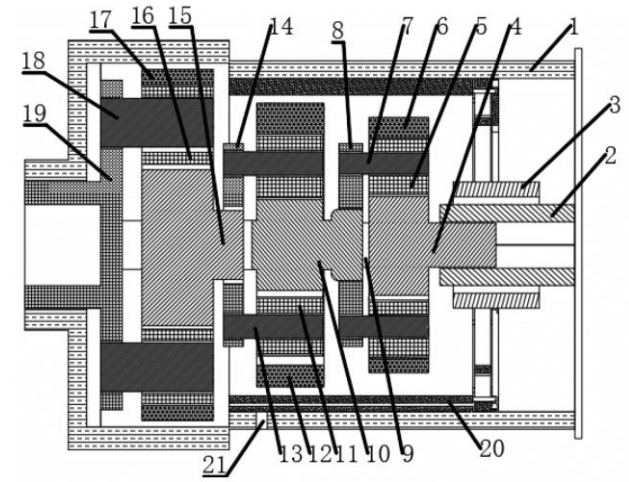


21: 2022/11541. 22: 2022/10/21. 43: 2022/11/23
51: F23B
71: HEILONGJIANG ZHONGTAN JIAHE BIOMASS TECHNOLOGY RESEARCH AND DEVELOPMENT CO. LTD
72: WAN, Xianjun
33: CN 31: 202210837281.0 32: 2022-07-15
54: DOWNWARD MOBILE GASIFICATION BOILER FOR SURFACE GAS PHASE COMBUSTION AND PYROLYSIS OF BIOMASS BRIQUETTE
00: -

A downward mobile gasification boiler for surface gas-phase combustion and pyrolysis of biomass briquette is provided. The boiler includes a gasification combustion chamber, a gas combustion chamber, a stranding cage slag remover, a heat exchanger, a water jacket, an air duct and an air distribution system. The air duct connected with the air distribution system is arranged in the inner cavity of the wall surface of the gasification combustion chamber. The gas combustion chamber is arranged at the upper part of the gasification combustion chamber, and an air outlet is arranged in the middle to communicate the gas combustion chamber with the gasification combustion chamber. The lower part of a port of the gasification combustion chamber is provided with a twisting cage slag remover.

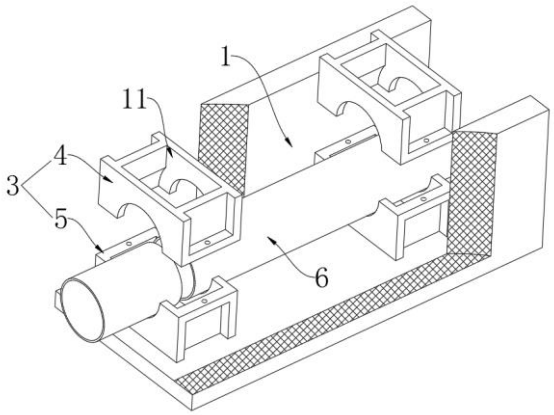


21: 2022/11560. 22: 2022/10/24. 43: 2022/11/29
51: F16H
71: Zheng Zhou Research Institute of Mechanical Engineering CO.,LTD., Zhongyuan University of Technology
72: Shidang,Yan, Zhongming,Liu, Hongyan,Zhao, Pingping,Qu, Youhua,Li, Lubing,Shi, Mingzhi,Li
33: CN 31: 202211178575.3 32: 2022-09-27
54: PLANET-CARRIER FOR A SHIELD-MACHINE REDUCER
00: -
A planet carrier for a reducer of a shield machine, comprising a case, wherein the case is provided with an input shaft, a primary planetary gear train, a secondary planetary gear train and a tertiary planetary gear train connected in sequence, a limiting ring is provided in the case, the inner shape of the limiting ring is rectangular in the middle and circular at two ends, a spline sleeve is rotatably provided in the limiting ring, the spline sleeve consists of two independent semi-circular spline sleeves, and the spline sleeve can be separated by the rotation of the limiting ring; the spline sleeve is spline-connected to the input shaft and the input end of the primary planetary gear train at the same time; an annular water tank is fixed on the inner wall of said case, a space adjustment structure is provided in said annular water tank, said space adjustment structure can adjust the capacity of the annular water tank, and said space adjustment mechanism can drive the limiting ring to rotate and separate the spline sleeve from the input shaft, so as to achieve the effect of automatic stopping, so as to play the role of self-protection.



21: 2022/11561. 22: 2022/10/24. 43: 2022/11/29
51: E03F
71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: LIU, Shuwei, JIA, Daotong, LIU, Hanlong, YANG, Qingwei, FAN, Wenzhe, ZHANG, Wenling, ZHAO, Debin, ZHANG, Yihua, GUO, Zaimin, DING, Qiang, ZHAO, Lianbo, YU, Hao
54: CONSTRUCTION METHOD FOR ESTABLISHING MUNICIPAL ROAD DRAINAGE SYSTEM
00: -
The present disclosure provides a construction method for establishing a municipal road drainage system, including the following specific steps: S1:

trench excavation; S2: installation of node molds and a pipeline: arranging lower molds, in a trench, at certain intervals as needed, laying inner lining pipes in the lower molds, and installing upper molds on the lower molds; S3: pouring of pier foundations: pouring concrete into inner cavities of the node molds, such that the concrete and the node molds are solidified together to form the pier foundations for supporting the inner lining pipes; S4: pouring of outer pipe wall layers: pouring concrete into sections of the trench to form the pipe wall layers; and S5: trench backfilling. In the present disclosure, the light inner lining pipes and node molds are used, which facilitates laying along the trench; and then the concrete is poured into the trench, such that the solid concrete pipe wall layers are formed outside the inner lining pipes, and the inner lining pipes have stronger support rigidity after being buried. This construction method omits a process for prefabricating cement pipes, and also solves the problem of troublesome transportation and hoisting of the cement pipes. Therefore, the construction is fast and convenient.

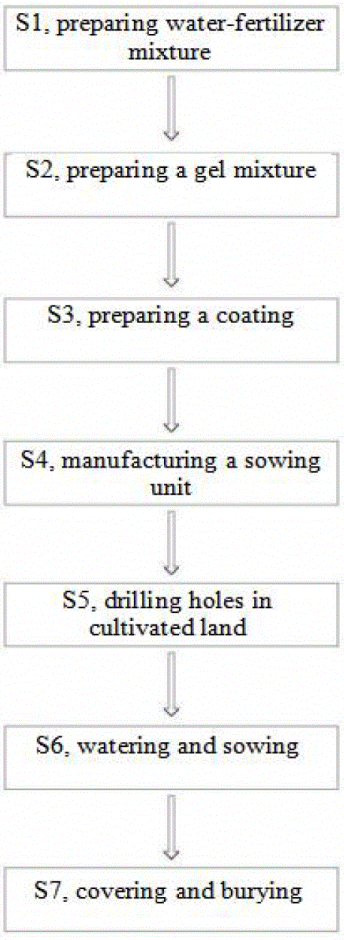


21: 2022/11562. 22: 2022/10/24. 43: 2022/11/29
51: A01G
71: Center for Agricultural Resources Research ,IGDB ,CAS
72: DONG Wenxu, CHEN Suying, LIU Xiuping, ZHANG Xiqun, WU Hongliang

54: IRRIGATING-SOWING METHOD OF CORN IN ARID AND SEMI-ARID CULTIVATED LAND AND MATCHING SEEDER

00: -

The invention relates to the technical field of corn sowing in arid and semi-arid farmland, and provides an irrigating-sowing method of corn in arid and semi-arid cultivated land, which comprises the following steps: S1, preparing water-fertilizer mixture; S2, preparing a gel mixture; S3, preparing a coating; S4, manufacturing a sowing unit; S5, drilling holes in cultivated land; S60, watering and sowing; S70. covering and burying. A seeder matched with the sowing method is also provided, which comprises a self-propelled platform, a stirring mechanism, an extrusion mechanism, an injection mechanism, a blanking channel, a drilling mechanism, a watering mechanism and a soil covering mechanism which are sequentially arranged on the self-propelled platform. Through the technical scheme, the problem of water waste in the existing irrigating-sowing method of corn in arid and semi-arid cultivated land and the matching seeder is solved.

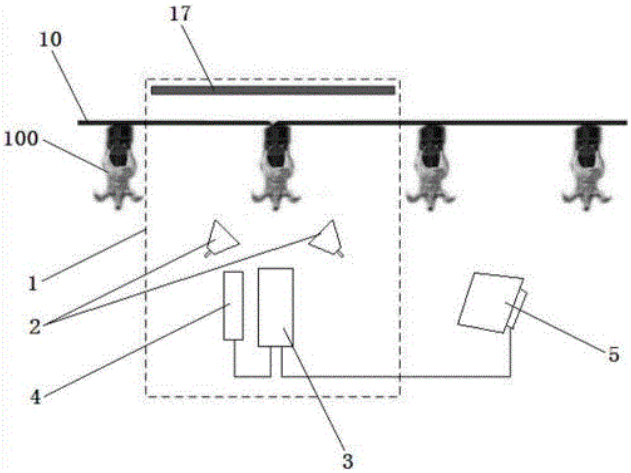


21: 2022/11563. 22: 2022/10/24. 43: 2022/11/29
51: A22B; G06K
71: CHUZHOU UNIVERSITY
72: SUN Xiao, CHEN Kunjie, DONG Yan, BEN Zongyou, BAI Yu

54: METHOD FOR DETECTING WEIGHT OF POULTRY CARCASS AND GRADING SYSTEM DEVICE

00: -

A method for detecting weight of poultry carcass and a grading system device, where the grading system comprises a camera obscura installed on an assembly line, a light source, an industrial camera and a photoelectric switch sensor arranged in the camera obscura, and an industrial personal computer arranged outside the camera obscura; the assembly line runs through the camera obscura, and the side wall of the camera obscura is provided with through holes, and the chicken carcasses on the assembly line sequentially enter the camera obscura through the through holes and are located at the shooting position for the industrial camera for collecting the original image, and then pass through the camera obscura to be transmitted through the assembly line for grading. The automatic grading system and method for chicken carcass weight based on machine vision provided by the invention can realize the indirect weight grading, and can complete the weight grading when the chicken carcass is only hung on the production line and does not touch any other objects, thus avoiding the occurrence of the situation that the grading link pollutes the chicken carcass, and ensuring the rapid, stable and accurate grading.



21: 2022/11564. 22: 2022/10/24. 43: 2022/11/29

51: E02B

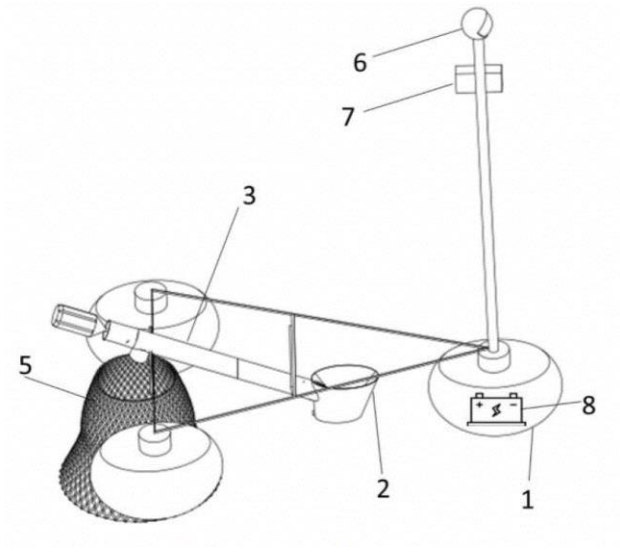
71: Hunan Yingweierte Environmental Protection Technology Co., Ltd., Changsha Ecological Environment Monitoring Center of Hunan Province

72: Yi Yong, Peng Maoyun, Tang Juan, Wang Wei

54: A DEVICE FOR SALVAGING AND COLLECTING FLOATING OBJECTS ON WATER SURFACE AND ITS USING METHOD

00: -

The invention discloses a device for salvaging and collecting floating objects on water surface and its using method. And the floating bin is composed of three elliptical floating bins, the three elliptical floating bins are distributed in a triangle shape and fixedly connected by connecting pipes; in addition, the gathering barrel is in a circular shape, and one side of the gathering barrel has an opening, the barrel wall on the side opposite to the opening is inclined; one end of the shaftless screw conveyor penetrates through the opening on one side of the gathering barrel to be located in the gathering barrel, and the bottom of the gathering barrel is provided with a water outlet pipe, and the water outlet pipe is connected with the water pump, and the water pump is positioned at the bottom of the gathering barrel. What's more, the steps of the using method of the device are as follows: S1, placing the collecting device near the water's edge, and placing the fountain aeration device in the middle of the water surface; S2, adjusting the height of the gathering barrel; S3, starting the machine and turning on the power control switch; S4, setting operation parameters; S5, setting automatic startup and shutdown; S6, connecting the control device through a computer and a mobile phone terminal; S7, placing the collecting device at the downwind of the dominant wind direction to facilitate the collection of floating objects. And the invention solves the problems of small capacity and easy blockage of the gathering barrel, continuously collects garbage for a long time, and ensures the working efficiency of the water pump.

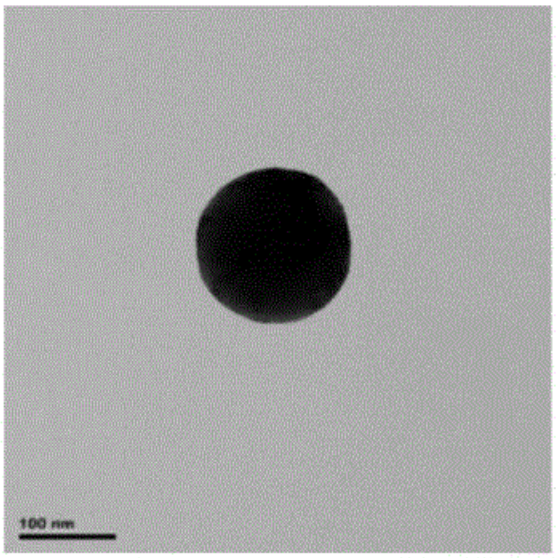


21: 2022/11565. 22: 2022/10/24. 43: 2022/11/29
51: B82Y
71: Central South University of Forestry and Technology
72: XIE Lianwu, WU Mao, GUO Yaping, ZHANG Anlin, PENG Yuqing, ZHOU Hao

54: PHOSPHORIC ACID SKELETON FUNCTIONALIZED FLUORESCENT CARBON DOT, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention provides a phosphoric acid skeleton functionalized fluorescent carbon dot, a preparation method and application thereof. According to the invention, anhydrous citric acid is used as a carbon source, 3-aminopropyl triethoxysilane is used as a nitrogen-doped surface modifier, nitrogen-doped carbon dots are prepared by a hydrothermal method, and a novel analysis and detection material, namely phosphoric acid skeleton functionalized fluorescent carbon dots, is prepared by surface functionalization of ethylene phosphoric acid, and when the maximum excitation wavelength is 390nm, intense blue fluorescence at 470nm is emitted. According to the principle of similar phase adsorption, the phosphoric acid skeleton functionalized on the surface of nitrogen-doped carbon dots is used to specifically identify the phosphoric acid skeleton of organophosphorus molecules, and the fluorescence of the carbon dots is quenched through the interaction of Van der Waals force, hydrogen bond and the like, so as to detect organophosphorus pesticide residues. The method not only can qualitatively and quantitatively detect organophosphorus pesticide residues with high selectivity, but also has the characteristics of high detection speed, high sensitivity, high accuracy, suitability for on-site detection and the like, and the limit of detection is as low as 0.0015 mmol/l, which is completely suitable for the maximum residue limit of pesticides in national food safety standards.



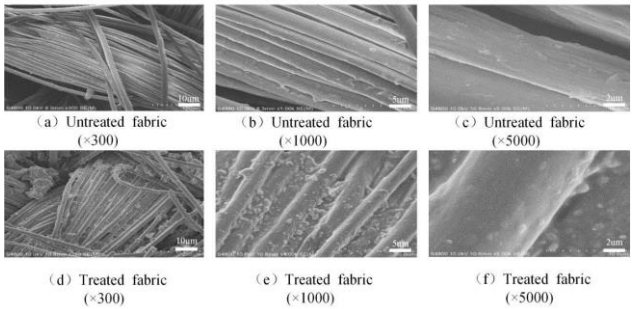
21: 2022/11566. 22: 2022/10/24. 43: 2022/11/29
51: D06M
71: Anhui Polytechnic University, Anhui Suli Technology Co., Ltd
72: WEI Yuhui, ZHANG Zhenlin, SU Zhaowei, ZHENG Chen, CHENG Ersu, ZHAO Shuhan, CAO Xuejiao, WAN Zihao, ZHANG Haiyan, PAN Wei

54: PREPARATION METHOD, PRODUCT AND APPLICATION OF PHOTOCATALYTIC SELF-CLEANING ARAMID FABRIC

00: -

Disclosed is a preparation method, a product and application of photocatalytic self-cleaning aramid fabric, and relates to the technical field of aramid fabric preparation. The method includes the following steps: preparing slightly soluble aramid fabric; mixing alcoholic gel, butyl titanate solution and tetraethoxysilane solution to obtain mixed solution A, adding ferric nitrate nonahydrate into the mixed solution A to obtain mixed solution B, and removing impurities after replacing the mixed solution B with ethanol to obtain SiO2-TiO2-Fe composite aerogel; adding SiO2-TiO2-Fe composite

aerogel into polydimethylsiloxane mixed solution, stirring, and ultrasonically dispersing to obtain PDMS/SiO2-TiO2-Fe composite material mixed solution; and uniformly spraying the PDMS/SiO2-TiO2-Fe composite material mixed solution on the surface of the slightly soluble aramid fabric, and drying to obtain the photocatalytic self-cleaning aramid fabric.

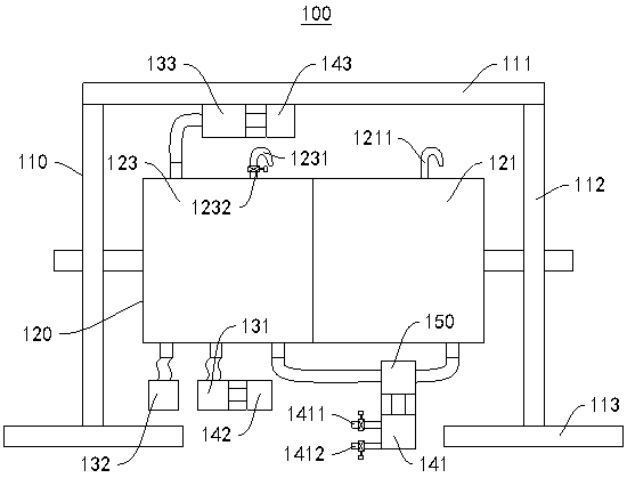


21: 2022/11567. 22: 2022/10/24. 43: 2022/11/29
51: B63B
71: Zhejiang International Maritime College
72: Xuefeng Wang, Xiaoju Liu, Hongjing Liu, Tao Jiang, Mingwei Xu

54: AN INTEGRATED DEMONSTRATION SYSTEM OF THE BALLAST TRIM WATER TANK FOR SHIPS

00: -

The invention discloses an integrated demonstration system of the ballast trim water tank for ships, related to the field of ships, comprising a rack, a water tank; the internal of a water tank comprising a first water cabinet and a second water cabinet provided opposite to each other, and the first water cabinet provided with a first ventilation tube; the second water cabinet set with a second ventilation tube; further comprising a third water cabinet and a fourth water cabinet, and the third water cabinet provided with a third ventilation tube; and the fourth water cabinet provided with a fourth ventilation tube, a transferring valve box, a ballast water pump, a first control valve box, a trim water pump, a second control valve box, a third control valve box, and a balancing fan; the balancing fan is connected with the third water cabinet and the fourth water cabinet respectively, to control a relative flow of gas between the third water cabinet and the fourth water cabinet. The integrated demonstration system of the ballast trim water tank for ships adopts a variety of different approaches to achieve the adjustment of gravity difference between the two sides of the water tank, and the combination of different approaches can effectively improve the regulation efficiency.



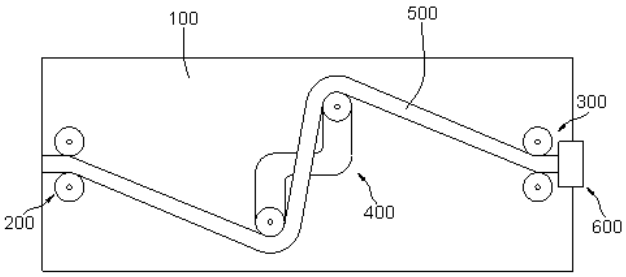
21: 2022/11568. 22: 2022/10/24. 43: 2022/11/29
51: B63H; F16L
71: Zhejiang International Maritime College
72: Xuefeng Wang, Xiaoju Liu, Hongjing Liu, Tao Jiang, Mingwei Xu

54: AN AUTOMATIC REFUELING DEVICE FOR SHIPS

00: -

The invention discloses an automatic refueling device for ships, belonging to the technical field of ship refueling, comprising a fixed seat, an inlet guide wheel set, an outlet guide wheel set, a tensioning assembly, an oil pipe, a joint and a limit structure. The inlet guide wheel set and the outlet guide wheel set can be located at two ends of the fixed seat respectively. The tensioning assembly is installed on the fixed seat, and the tensioning assembly is located between the inlet guide wheel set and the outlet guide wheel set; the oil pipe enters from the channel of the inlet guide wheel set, then is wound around the tensioning assembly, and then protrudes from the channel of the outlet guide wheel set, the joint is installed on the end of the oil pipe extending from the outlet guide wheel set, and the limit structure is located between the outlet guide wheel set and the joint. The automatic refueling device for ships disclosed in the invention is simple in structure and convenient in operation, after the joint is connected with the ship to be refueled, the oil pipe can be tensioned by the tensioning assembly, and the oil pipe can be retracted back and forth, so as to

ensure that the oil pipe can not be subjected to excessive pulling force when it is always tensioned.

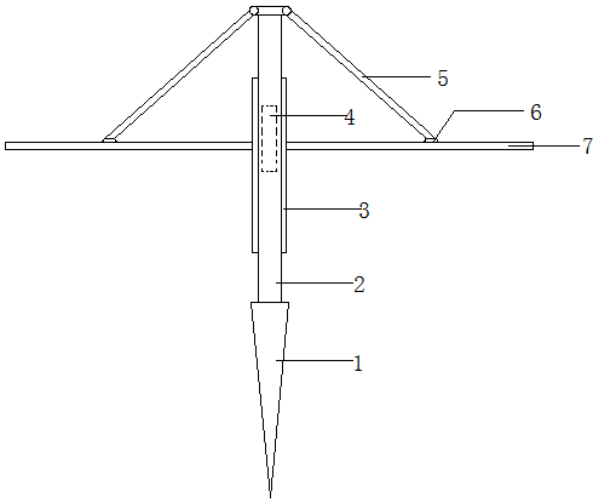


21: 2022/11569. 22: 2022/10/24. 43: 2022/11/29
51: G01L; G05B
71: Universal Music (Pty) Ltd, Zhejiang International Maritime College
72: Xuefeng Wang, Xiaoju Liu, Hongjing Liu, Tao Jiang, Mingwei Xu

54: BULK CARGO SURFACE PRESSURE MONITORING DEVICE CAPABLE OF ENSUING SHIP SAFETY

00: -

The invention discloses a bulk cargo surface pressure monitoring device capable of ensuing ship safety, comprising a vertical cone and an alarm system; the upper end of the vertical cone is fixed with a monitoring plate; both sides of the monitoring plate are provided with a film-type pressure sensor, and the monitoring plate is provided with a differential pressure analyzer and a controller; the film-type pressure sensor is electrically connected to the differential pressure analyzer, the differential pressure analyzer is electrically connected to the input end of the controller, and the alarm system is in communication connected to the output end of the controller; a differential pressure threshold is preset in the differential pressure analyzer, and when the differential pressure value is greater than the differential pressure threshold value, the differential pressure analyzer transmits a signal to the controller to activate the alarm system. The invention has a novel design, realizes the monitoring of the liquefaction process of the bulk cargo of the ship, gives an early warning, prevents the vicious consequences such as the overturning of the ship caused by the liquefaction of the bulk cargo, ensures the safety of the ship, and has strong practicability.

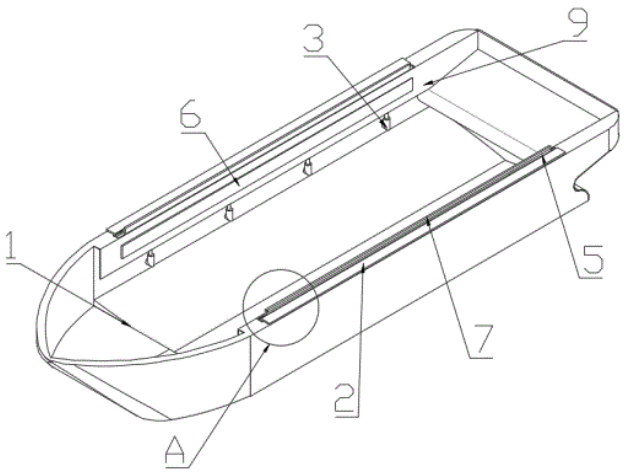


21: 2022/11570. 22: 2022/10/24. 43: 2022/11/29
51: B63B
71: Zhejiang International Maritime College
72: Yibing Wang, Mingwei Xu

54: AN AUTOMATIC TELESCOPIC MARINE ANTI-PIRACY GUARDRAIL INSTALLATION

00: -

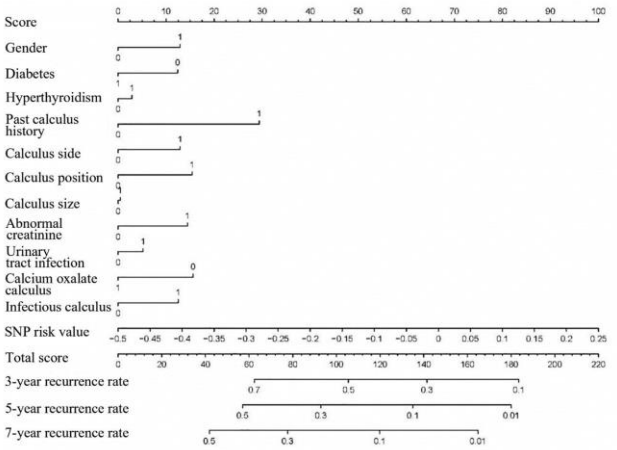
The invention discloses an automatic telescopic marine anti-piracy guardrail installation, comprising a hull and protection mechanisms arranged on both inner sides of the hull; the hull is a square box with one arc end, the protection mechanism comprises multiple L-shaped three-section telescopic rods fixed on the inner side wall of the hull, a fixed plate fixedly connected with the movable end of the three-section telescopic rods, a movable plate movably connected with one end of the fixed plate, and a warning light on the inside of the hull; an adjusting plate is provided on the fixed plate at a position facing the inner side of the hull, and an arc-shaped plate is fixedly connected to the adjusting plate at a position facing the outside of the hull. The three-section telescopic rod can control the telescopic state of the protection mechanism to save space, and does not affect the navigation when not in use; when pirates come, the protection mechanism can be quickly raised by electrical control; the warning light can timely remind personnel not to approach, which improves the safety of the protection mechanism and can be widely applied in the field of marine technology.



21: 2022/11571. 22: 2022/10/24. 43: 2022/11/29
51: G06F
71: THE FIRST AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU RESPIRATORY CENTER), Shanghai Gloriousmed Co., Ltd.
72: Guohua Zeng, Wei Zhu, Yin Sun, Xin Zhang, Menghuan Zhang, Kun Zhuang, Yining Yang, Xiaohong Xu
33: CN 31: 202111262715.0 32: 2021-10-28

54: MODEL FOR PREDICTING POSTOPERATIVE RECURRENCE RISK OF URINARY SYSTEM CALCULUS, EVALUATION SYSTEM AND METHOD THEREOF

00: -
The present disclosure discloses a model for predicting postoperative recurrence risk of urinary system calculus, wherein the model combines clinical characteristics of a patient associated with postoperative recurrence risk of urinary system calculus with an SNP risk value to predict postoperative recurrence risk of the patient. The present disclosure further discloses a construction method of the model, which comprises the steps of collecting blood samples after operation, screening clinical characteristics associated with postoperative recurrence risk and SNP sites, performing detection statistics of SNP site mutation information, training models, calculating the SNP risk value, and constructing a nomogram. The present disclosure further discloses a system and a method for evaluating postoperative recurrence risk of urinary system calculus comprising the model. According to the present disclosure, a model for predicting postoperative recurrence risk of urinary system calculus is established by screening the clinical characteristic indexes of urinary system calculus and in conjunction with the SNP site mutation information of a patient, which greatly improves the accuracy of evaluating postoperative recurrence risk of urinary system calculus, and reduces the subsequent health problems caused by calculus recurrence.

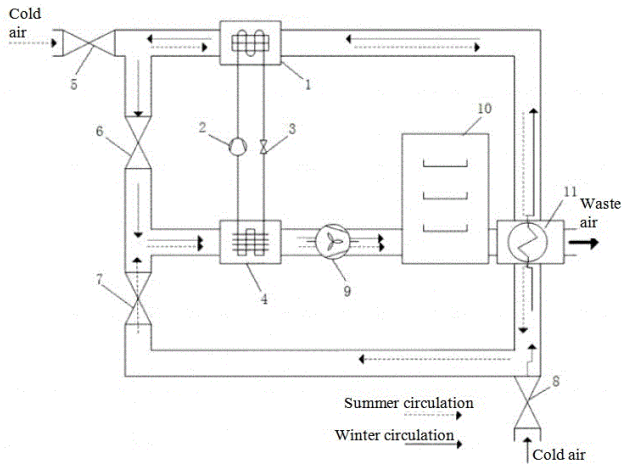


21: 2022/11572. 22: 2022/10/24. 43: 2022/11/29
51: A61P; A61K
71: Jiangsu Alphay Bio-technology Co., Ltd., Jiangsu Alphay Science Institute of Medicinal Fungi
72: CHEN, Hui, YU, Xiaobing, WU, Weijie, CHEN, Jie, HUANG, Tiantian

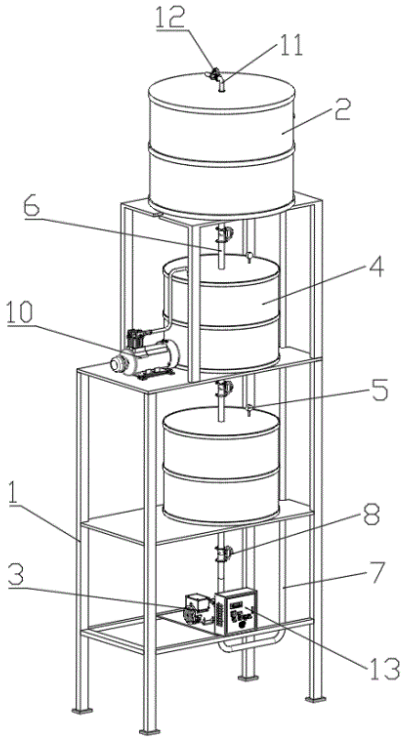
54: EDIBLE MUSHROOM FIBER FOR PROMOTING PROBIOTIC PROLIFERATION, PRODUCTION METHOD AND APPLICATION THEREOF

00: -
The present disclosure discloses an edible mushroom fiber for promoting probiotic proliferation, a production method and an application thereof, wherein the edible and medicinal mushroom fibers with a particle size of 50-100 nm account for 35% by weight of the total edible and medicinal mushroom fibers; the edible and medicinal mushroom fibers with a particle size of 15-45 nm account for 35% by weight of the total edible and medicinal mushroom fibers; the edible and medicinal mushroom fibers with a particle size of 2-10 nm account for 30% by weight of the total edible and medicinal mushroom fibers; the edible and medicinal mushrooms are Antrodia camphorate, Dictyophora indusiata, Tremella aurantialba and Tricholoma gambosum, and the weight ratio of Antrodia camphorate, Dictyophora indusiata, Tremella aurantialba and Tricholoma gambosum is 1:1:1:1.

21: 2022/11574. 22: 2022/10/24. 43: 2022/11/29
51: F25B
71: CHUZHOU UNIVERSITY
72: BEN Zongyou, CHEN Kunjie, DONG Yan, SUN Xiao, BAI Yu
54: WASTE HEAT RECOVERY TYPE HEAT PUMP DRYING SYSTEM
00: -
The invention discloses a waste heat recovery heat pump drying system, which relates to the technical field of dryers. Air openings at one side of evaporator and air heat exchanger are connected to the air inlet of condenser through air pipe, the other air outlet of evaporator and air heat exchanger is connected, the air pipe connecting evaporator with condenser is provided with a second air valve, the air pipe connecting air heat exchanger with condenser is provided with a third air valve, the air pipe connecting the second air valve with evaporator is provided with a first air valve, and the air pipe connecting the third air valve with air heat exchanger is provided with a fourth air valve. The fourth air valve is communicated with the external cold air inlet, the two ends of the condenser are respectively connected with the compressor and expansion valve to the evaporator, the outlet of the condenser is connected with the fan and dryer to the air heat exchanger in turn, and the other side of the air heat exchanger is the waste gas outlet. The invention ensures the performance of the heat pump system at low temperature, recycles energy, improves the energy utilization rate of the system, saves energy and protects the environment.



21: 2022/11575. 22: 2022/10/24. 43: 2022/11/29
51: F03B
71: Mingliang Xu
72: Mingliang Xu
54: IMPROVED HYDROELECTRIC POWER GENERATION EQUIPMENT
00: -
The invention discloses an improved hydroelectric power generation equipment, comprising a supporting frame, a water storage tank, and a generator; the water storage tank is arranged at the top of the supporting frame, and the generator is arranged at the lower part of the supporting frame; the supporting frame is provided with a plurality of water delivery tanks arranged vertically along the supporting frame between the water storage tank and the generator, and the water delivery tank is provided with a pressure gage; the water storage tank and the water delivery tank, and the adjacent water delivery tanks are connected by a water delivery pipe; the water delivery tank at the lower part and the water storage tank are connected by a water reverse pipe; the water delivery pipe and the water reverse pipe are provided with a first solenoid valve; the output end of the generator is connected with a paddle located in the water reverse pipe; the supporting frame is provided with an air compressor at the upper water delivery tank, and the output end of the air compressor is communicated with the upper water delivery tank.

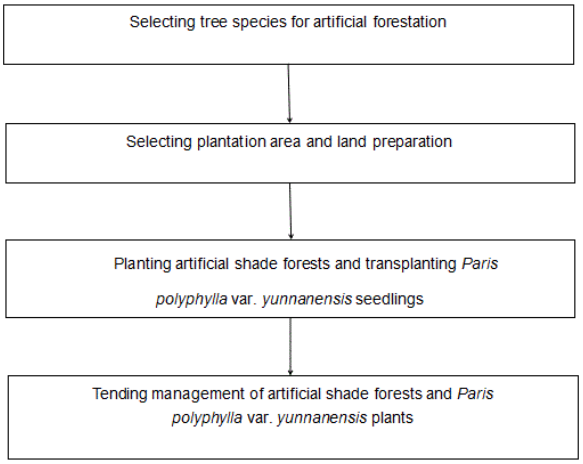


21: 2022/11576. 22: 2022/10/24. 43: 2022/11/30
51: A01G
71: Institute of Highland Forest Science, Chinese Academy of Forestry, Ecology and Nature Conservation Institute, Chinese Academy of Forestry
72: Yang Wenyun, Su Jianrong, Zhang Weiyin, Yang Shiyu, Luo Xiang, Li Zhiguo, Zhao Jiejun

54: A WILD-SIMULATED CULTIVATION METHOD OF PARIS POLYPHYLLA VAR. YUNNANENSIS UNDER ARTIFICIAL FORESTS

00: -

The invention discloses a wild-simulated cultivation method of Paris polyphylla var. yunnanensis under artificial forests, which relates to the technical field of Paris polyphylla var. yunnanensis cultivation. A wild-simulated cultivation method of Paris polyphylla var. yunnanensis under artificial forests includes: selecting tree species for artificial forestation, selecting plantation area and land preparation, planting artificial shade forests and transplanting Paris polyphylla var. yunnanensis seedlings, and tending management of artificial shade forests and Paris polyphylla var. yunnanensis plants; according to altitude and habits of tree species, selecting suitable tree species for artificial forestation as shade plantation for Paris polyphylla var. yunnanensis. And the invention can reduce disease incidence of Paris polyphylla var. yunnanensis, improve rhizome yield and quality, and reduce costs of facility construction, maintenance and tending management, which is suitable for cultivation, popularization and application of Paris polyphylla var. yunnanensis.



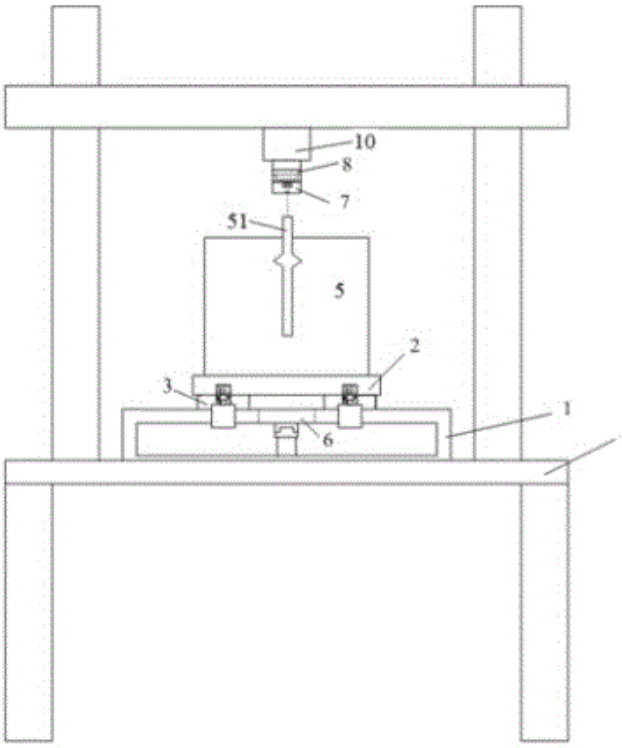
21: 2022/11606. 22: 2022/10/24. 43: 2022/11/23
51: A01N
71: SHANGDU YUYUAN AGRICULTURE AND ANIMAL HUSBANDRY CO., LTD.
72: LI, Junzi, PENG, Xiaoguang, LI, Ailan, WANG, Xubin, YAN, Yun, LI, Delin, WANG, Xia, SONG, Yajing, WANG, Runhai, LIU, Xiaoping, ZHOU, Qi, DI, Baoqi, WANG, Hua, ZHAO, Lina, GUAN, Xiaojie, SUN, Yanfang

54: SEED COATING AGENT OF SOLANUM TUBEROSUM

00: -

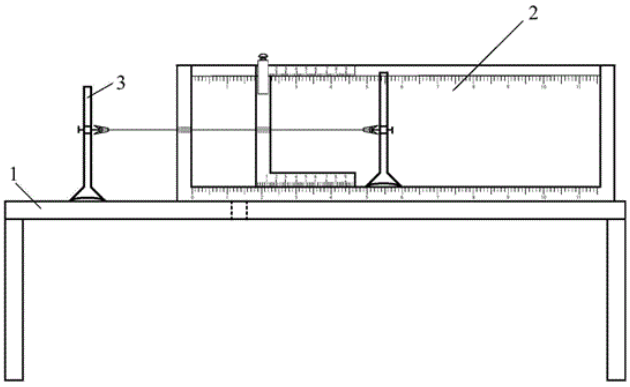
The present invention discloses a seed coating agent of Solanum tuberosum, which comprises an imidacloprid, dimethomorph, azoxystrobin, agricultural streptomycin, potassium permanganate, a dedicated film-forming agent of the seed coating agent and an additive, wherein the content ratios of the imidacloprid, the dimethomorph, the azoxystrobin, the agricultural streptomycin, the potassium permanganate and the dedicated film-forming agent of the seed coating agent are respectively 40-50 ML/L, 15-24 g/L, 8-16 g/L, 0.8-1.2 g/L and 1-1.7 g/L. The present invention has the beneficial effects that early seedling emergence and precocious flowering can be realized; the growth period is shortened; the rate of big Solanum tuberosum is improved; and germs in soil nearby seed tubers can be killed, and healthy germination of the seed tubers can be ensured.

21: 2022/11607. 22: 2022/10/25. 43: 2022/11/29
51: E02D; G01N
71: Jilin Jianzhu University
72: XU Lina, NIU Lei, CHEN Yang, QIAN Yongmei, TIAN Wei, JIANG Xin, SUN Shuang, SHI Chenglin
54: LOADING CALIBRATION DEVICE FOR INDOOR SIMULATION TEST OF SEMI-PILES
00: -
A loading calibration device for indoor simulation test of semi-face pile relates to the technical field of soil test. The calibration device comprises a loading platform, a foundation box, a rotating disk, a movable guide rail, a chassis and a laser alignment head. The loading platform consists of a base and a vertical frame, and the vertical frame is arranged at the upper end of the base; the foundation box is placed on the base; the foundation is of hollow structure with an opening on the upper surface; the rotating disk is rotatably arranged in the foundation box, and the disk body of the rotating disk extends out of the opening of the foundation box to support the chassis; the movable guide rail is installed on the foundation box, and the movable guide rail includes a front and rear movable guide rail and a left and right movable guide rail which move along the horizontal direction, and are used separately; the chassis is arranged on the movable guide rail; the laser alignment head is installed on the lower surface of the vertical frame and aligned with the chassis. The invention can improve the accuracy and precision of load application in indoor semi-face pile simulation test, and improve the loading accuracy of simulation test; the operation is more convenient, 1-2 people can complete the operation, and the height of the soil sample model box can be easily adjusted.



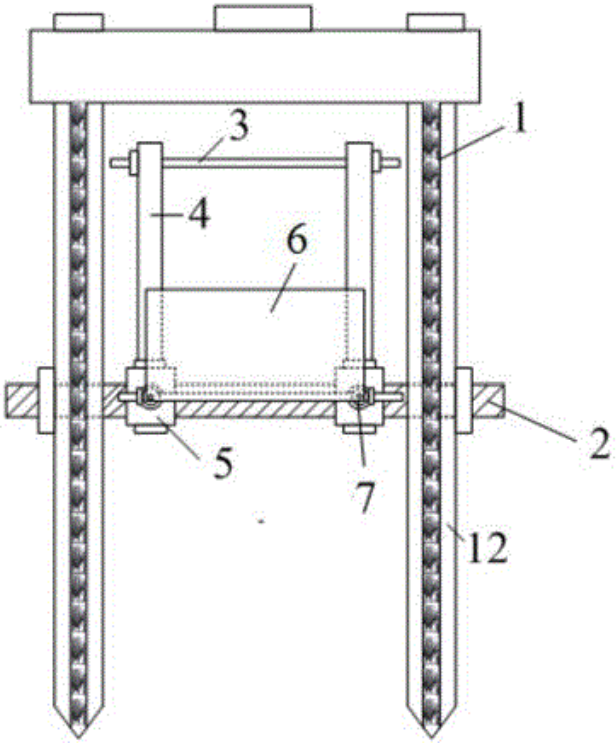
21: 2022/11608. 22: 2022/10/25. 43: 2022/11/29
51: G01N
71: Jilin Jianzhu University
72: XU Lina, NIU Lei, QIAN Yongmei, SUN Shuang, TIAN Wei, SHI Chenglin, JIN Yujie, WANG Jing
54: PULL-OUT TEST DEVICE FOR FIBER AND CEMENTING MATERIAL
00: -
The invention relates to a pull-out test device for fiber and cementing material, and belongs to the technical field of building materials. The device comprises: a test bed is provided with a through groove; the test-piece mould box comprises: a test-piece mould slot made of transparent materials on five sides, a L-shaped baffle with changeable position in the test-piece mould slot and fixing clamps for fixing the L-shaped baffle arranged in the test-piece mould box; the L-shaped baffle divides the test-piece mould slot into two spaces, where a plurality of one-to-one corresponding holes are arranged on one side of the L-shaped baffle and one side of the corresponding test-piece mould slot in the rectangular space; the connecting line direction of each two corresponding holes is horizontal; fiber fixing brackets; the fiber fixing brackets are used in pairs, one is arranged in the non-rectangular space

of two spaces divided by the L-shaped baffle and the test-piece mould slot, and the other is arranged outside the test-piece mould slot; the fiber passes through the L-shaped baffle and the small holes in the test-piece mould slot, and its two ends are respectively arranged on the fiber fixing bracket. The invention can measure the pull-out resistance and the bounding stress between the fiber and the cementing material.



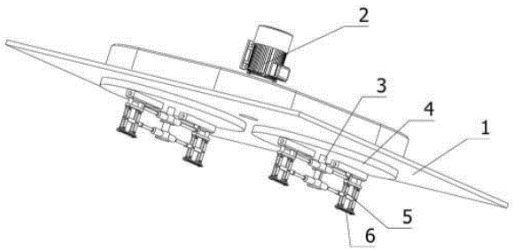
21: 2022/11609. 22: 2022/10/25. 43: 2022/11/29
51: G01N
71: Jilin Jianzhu University
72: XU Lina, NIU Lei, CHEN Yang, QIAN Yongmei, JIN Yujie, SUN Shuang, TIAN Wei, JIANG Xin
54: SIMPLE INDOOR HALF-FACE PILE TEST MODEL BOX MOVING DEVICE
00: -

A simple indoor half-face pile test model box moving device relates to the field of building indoor simulation test. The device is arranged on a forklift and comprises a pulley, a circular cross-inserting rod, a connecting cross rod, a connecting rod, a connecting steering head and a baffle; the pulley is arranged on the upper surface of the fork of the forklift truck, and the circular cross-inserting rod passes through the fork and two connecting steering heads and can rotate in the fork; the connecting steering head is arranged between the two forks; a connecting rod is horizontally and vertically inserted on each connecting steering head; horizontal connecting rods are connected by the connecting cross rod; the vertical connecting rod is provided with a baffle parallel to the horizontal direction. The invention can realize the movement and turnover of the half-face pile test model box by one person; and lift the model box to the specified height.

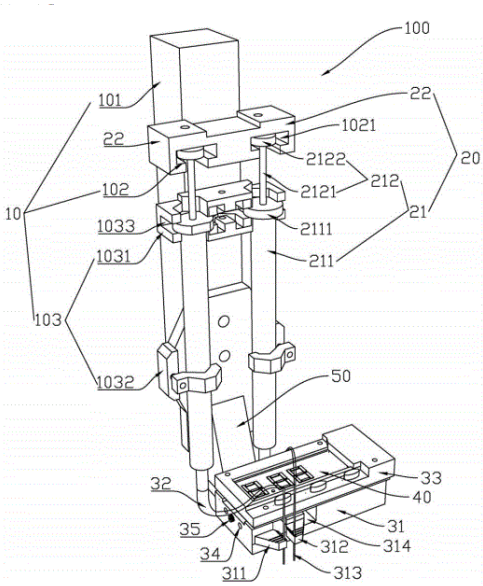


21: 2022/11610. 22: 2022/10/25. 43: 2022/11/29
51: A01D
71: Jinhua Polytechnic
72: WANG, Zhiming, ZHOU, Xuan, TIAN, Liquan, FU, Yunfeng, SU, Zhan
33: CN 31: 202111329747.8 32: 2021-11-11
54: UNMANNED AGRICULTURAL MOWER
00: -

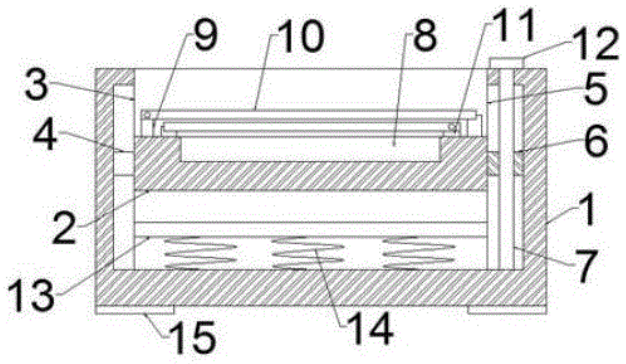
Provided is an unmanned agricultural mower. The mower includes a bottom plate, a rotation driving mechanism, rotary shafts, cutter heads, blade displacement driving mechanisms and blades, the blades are horizontally arranged, the two groups of blades are connected to output ends of the two groups of blade displacement driving mechanisms respectively, the two cutter heads do not intersect each other, and areas swept by the two cutter heads in an advancing direction of the agricultural mower have intersection parts. According to the unmanned agricultural mower shown in the present application, a mowing height and a mowing area can be flexibly adjusted, and the blades can be flexibly adjusted, such that most of lawn mowing requirements are satisfied; and a mounting size of a mowing device on the agricultural mower is reduced, such that a size of the agricultural mower is reduced, and the agricultural mower is more flexible.



21: 2022/11611. 22: 2022/10/25. 43: 2022/11/29
51: A61M
71: Zhejiang University
72: LI, Xiangyao, SHENG, Tao, LIU, Li, WU, Cheng, WANG, Jinghua, LIAN, Yanna
54: MULTI-CHANNEL MICROINJECTOR
00: -
Disclosed is a multi-channel microinjector which includes a base, an injection module and an adjusting module, the injection module includes at least two injector bodies, the at least two injector bodies include respective injection barrels and respective injection rams, the injection barrels or the injection rams are fixedly installed on the base, and each of the injection rams is installed in a corresponding one of the injection barrels and is configured to move relative to the corresponding one of the injection barrels; and the adjusting module is provided with at least two injection parts, a relative distance between every adjacent two of the at least two injection parts is adjustable for installing respective injection needles or respective injection pipes, and each of the injection barrels is in fluid communication with a corresponding one of the injection needles or a corresponding one of the injection pipes through a pressure pipe.

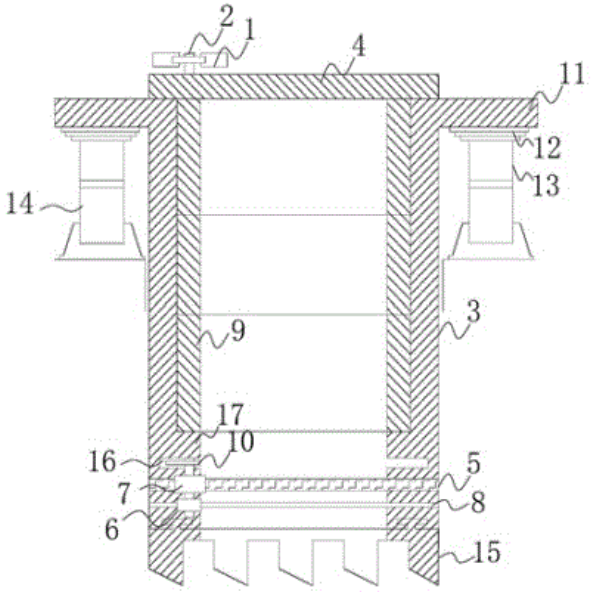


21: 2022/11612. 22: 2022/10/25. 43: 2022/11/29
51: B65D
71: YUANJIE LI
72: YUANJIE LI
54: A PARTS PACKAGING DEVICE
00: -
The invention discloses the parts packaging device, and it comprises a machine body, the inner wall of the machine body is symmetrically provided with a chute and a groove, a placing plate is installed inside the machine body, and a sliding block and a lifting block are symmetrically installed on both sides of the placing plate, and a threaded rod is installed at the bottom of the groove, a lifting plate is installed in the machine body, and a spring is installed between the bottom of the machine body and the lifting plate. And it is more convenient to take and place the parts of the invention, and it can better protect the parts.



21: 2022/11613. 22: 2022/10/25. 43: 2022/11/29
51: G01N

71: Jilin Jianzhu University
72: XU Lina, NIU Lei, QIAN Yongmei, JIANG Xin, SUN Shuang, TIAN Wei
54: LARGE MULTI-SECTION UNDISTURBED SOIL SAMPLER
00: -
A large multi-section undisturbed soil sampler and its sampling method relate to the field of building soil sampling, which can reduce labor intensity and obtain undisturbed soil samples in a large range. The soil sampler comprises a top plate, a soil sampling case, soil sampling boxes, soil lifting equipment and soil cutting equipment; the soil sampling box is installed in the soil sampling case; the top plate is arrange at that upper end of the soil sampling box; the soil lifting equipment is arranged outside the soil sampling box, and is used for exerting upward force on the soil sampling box after soil sampling, and taking out the soil sample; the soil cutting equipment is installed in the interlayer of the soil sampling case, which is used to cut the soil samples horizontally. The invention can well solve the defects that the existing large-scale soil sampler has shallow soil sampling depth in one time and large disturbance to undisturbed soil. Solve the problem of difficult soil sample presentation; the soil sampling case can be disassembled, which is convenient for sampling and stripping; built-in multi-section soil sampling box, which is convenient for sampling after sampling; built-in multi-section soil sampling box can be disassembled, which is convenient for later indoor test. The method has the advantages of simple operation, little disturbance to soil samples and low labor intensity, and is beneficial to the related research of undisturbed soil.



21: 2022/11614. 22: 2022/10/25. 43: 2022/11/29
51: A01G
71: Shijiazhuang academy of agricultural and Forestry Sciences
72: Shi Jianhua, LI Yan, Zhang Qingyin, Qi Lianfen, Wang Dandan, Wang Zifan, Kang Hongxia, Su Zhenji, Pang Yongchao, Liu Qiong
54: A PLANT INDUCTION CONTROL TECHNOLOGY FOR CONTROLLING WHITEFLIES AND APHIDS OF GREENHOUSE TOMATOES
00: -
The invention relates to a crop pest control technology, in particular to a plant induction control technology for controlling whiteflies and aphids of greenhouse tomatoes. And the technology includes that sealing the greenhouse at high-temperature, planting induced plants, and releasing natural enemy insects and so on, and the specific methods are as follows: (1) before planting, sealing the greenhouse at high temperature for 7-10 days, wherein there should be at least 5 days when the room temperature should reach 60oC and the air humidity should be above 80%, and covering the ventilate openings with 60-mesh insect-proof net; (2) inter-cropping and planting tobacco seedlings with tomatoes in the same period, and the varieties are not limited; and in the greenhouse, planting a group of tobaccos about every 10m, planting them in a single row, with 6-8 plants in each group, the plant spacing of 50cm, and about 55-60 plants in per mu; (3) carrying out field water and fertilizer management

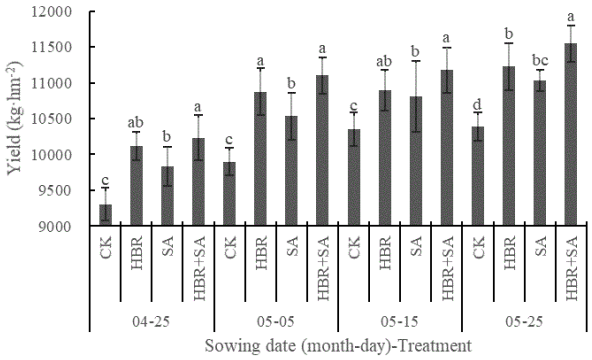
measures on the tobaccos along with that of tomatoes; (4) checking the insect population density on tobacco leaves regularly, and starting the control when the insect density on tobacco leaves reaches to 10-50 heads/10cm2; (5) biological control or chemical control method; (6) when the tomatoes are harvested, uprooting the tobaccos with insect body and then removing them centrally. According to the living habits of target pests, the technical scheme is to screen the induced plants which can attract aphids and whiteflies but are harmless to tomatoes growth, intercrop the induced plants with tomatoes at the same time, regularly clean up the pests on the induced plants with chemical control measures, or release natural enemies on the induced plants, and destroy the induced plants at the end of the growth period, thereby replacing the traditional chemical control measures, saving expenses, increasing production efficiency, ensuring food safety and not causing chemical harm to the environment.

21: 2022/11615. 22: 2022/10/25. 43: 2022/11/29
51: C05G
71: Meteorological Science Research Institute of Jiangxi Province
72: YANG Jun, ZHANG Yizhi, LI Xiangxiang, DUAN Licheng, LIU Dan, WANG Jianjun

54: FOLIAR FERTILIZER FOR REDUCING HIGH-TEMPERATURE STRESS OF RICE

00: -

The invention discloses a foliar fertilizer for reducing high-temperature stress of rice, and relates to the technical field of fertilizers. According to the parts by mass, the raw materials of foliar fertilizer include 1-2 parts of 14-hydroxylated brassinosteroid, 700 parts of salicylic acid and 1*107 parts of water. The application method of the foliar fertilizer of the invention is simple, and the foliar fertilizer can be sprayed on the leaves of rice, and has the characteristics of energy saving, portability, high quality, high efficiency, ecological safety and the like. Spraying the foliar fertilizer of the invention can effectively reduce high-temperature stress, significantly increase rice yield, and the yield can be increased by more than 10% compared with the control group without foliar fertilizer.

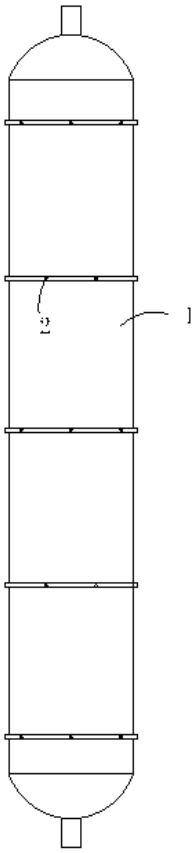


21: 2022/11616. 22: 2022/10/25. 43: 2022/11/29
51: G01N
71: Tongling University
72: CHEN, Zheng, HU, Rongbao

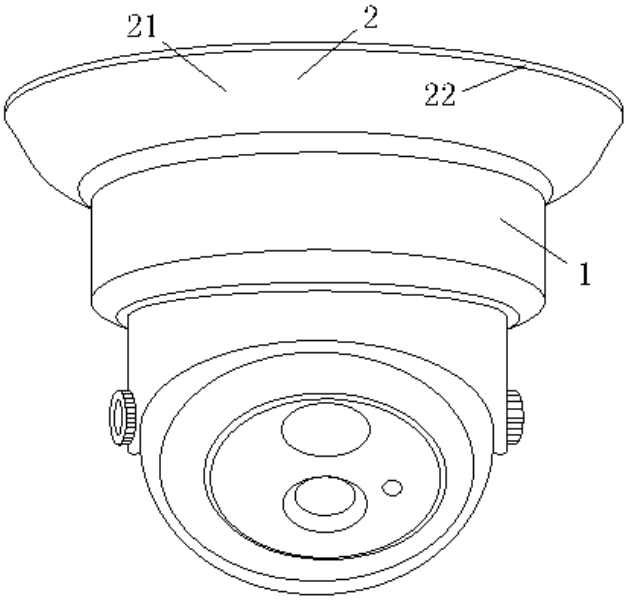
54: ACOUSTIC EMISSION MONITORING APPARATUS FOR HYDROGEN DAMAGE OF AMMONIA SYNTHESIS TOWER MATERIAL, AND USE METHOD THEREFOR

00: -

The present invention provides an acoustic emission monitoring apparatus for hydrogen damage of an ammonia synthesis tower material, and a use method therefor. The apparatus includes a tower body; telescopic mechanisms; a monitoring mechanism including fixing rods, probes and a waveguide rod, wherein the probe is slidably connected inside the waveguide rod; a supporting mechanism; a driving mechanism including a rotating rod, a first gear, a toothed plate, a connecting rod, an engaging mechanism and a sliding chute, wherein the rotating rod is fixedly connected inside the telescopic mechanism, and the rotating rod is rotationally connected with the sliding chute and the first gear; and the connecting rod is fixedly connected inside the telescopic mechanism, a side wall of the connecting rod is rotationally connected with the engaging mechanism, and the engaging mechanism engages the first gear and the toothed plate; a limiting mechanism; and a connecting mechanism. The present invention has the advantages of reducing the replacement time of the probe and monitoring whether a tower wall of an ammonia synthesis tower is damaged by hydrogen at all times.



21: 2022/11617. 22: 2022/10/25. 43: 2022/11/29
51: G01N
71: Tongling University
72: CHEN, Zheng, HU, Rongbao
54: PROBE FOR ACOUSTIC EMISSION MONITORING OF AMMONIA SYNTHESIS TOWER MATERIAL
00: -
The present utility model discloses a probe for acoustic emission monitoring of an ammonia synthesis tower material, including a probe body, a fixing mechanism, a fixing seat, locking mechanisms, pressing blocks, pressing grooves, return springs, clamping pins and clamping grooves. The present utility model has the following beneficial effects: the fixing seat and a tank body are detachably fixed, so that after the fixing seat is installed, the probe body can be installed conveniently; then, a top of the probe body and an inner side of a top of the fixing seat are clamped; during clamping, the clamping pins are in contact with the insides of the clamping grooves under the action of the pressing blocks and the return springs, so that a locked connection is formed between the probe body and the fixing seat, so as to prevent the probe body and the fixing seat from loosening; and when the probe body needs to be detached, a plurality of the pressing blocks are pressed by push rods, and then, the pressing blocks break away from the action of the return springs and drive the clamping pins to separate from the clamping grooves, thereby being convenient for separation of the probe body and the fixing seat, and convenient for workers to install, repair and replace.



21: 2022/11619. 22: 2022/10/25. 43: 2022/11/29
51: A01G
71: Zhejiang Subtropical Crop Research Institute
72: Xia HaiTao, Liu Yu, Chen GuanJu, Liu Xing, Li XiaoWen, Liang XiuMei, Wang YueYing, Wang JinWang, Jin Chuan
54: HYDROPONIC CULTURE METHOD OF SYMPODIAL BAMBOO
00: -
A hydroponic culture method of sympodial bamboo, which is characterized by comprising the following steps: (1) sample selection: selecting healthy bamboo with no diseases and insect pests, strong branches and bright green branches and leaves; (2) rooting promotion: carrying out rooting treatment of the bamboo branches, recording the sprouting and rooting condition and survival rate of the bamboo branches, taking out the sprouted bamboo branches as bamboo seedlings when the bamboo roots grow to 3-5 cm, and cleaning the bamboo seedlings with clean water for 3-5 times; (3) hydroponic culture: putting the bamboo seedlings into a shading vessel with a small hole on the cover, pouring hydroponics

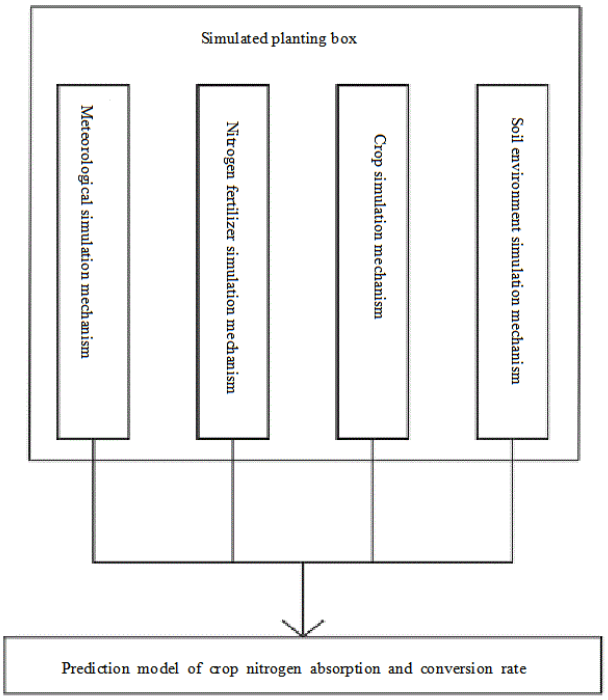
solution into the shading vessel and immersing part of the bamboo roots, wherein the liquid level of the hydroponics solution is 2-3 cm away from the roots, and the shading vessel is provided with an oxygen pump for introducing the hydroponics solution, and placing the bamboo seedlings in a greenhouse; the hydroponic solution is changed irregularly according to the development and growth of bamboo seedlings.

21: 2022/11620. 22: 2022/10/25. 43: 2022/11/29
51: G01N
71: Institute of Hydrogeology and Environmental Geology, Chinese Academy of Geological Sciences
72: Zhai Tianlun, Wang Lijun, Yang Congcong, Liang Hongcheng, Zheng Dechao, Li Haigang, Xu Yangsheng, Wang Long

54: SIMULATION DEVICE FOR NITROGEN CONVERSION AND APPLICATION METHOD THEREOF

00: -

The invention discloses a simulation device for nitrogen conversion, comprising a simulated planting box, a meteorological simulation mechanism, a nitrogen fertilizer simulation mechanism, a crop simulation mechanism and a soil environment simulation mechanism; the soil environment simulation mechanism is used for simulating various farmland soil environments in the simulated planting box; the meteorological simulation mechanism is used for simulating various meteorological environments when various crops are planted in the simulated planting box; the nitrogen fertilizer simulation mechanism is used for simulating the dosages of various nitrogen fertilizers applied to crops in the simulated planting box; the crop simulation mechanism is used for simulating planting different crops in the simulated planting box. When the crop nitrogen absorption and conversion rate needs to be predicted, only meteorological data, nitrogen fertilizer data, crop data, soil data and other data need to be input to obtain the predicted value of the crop nitrogen absorption and conversion rate, which can better guide and formulate the crop nitrogen fertilizer application scheme, and has high practicability.



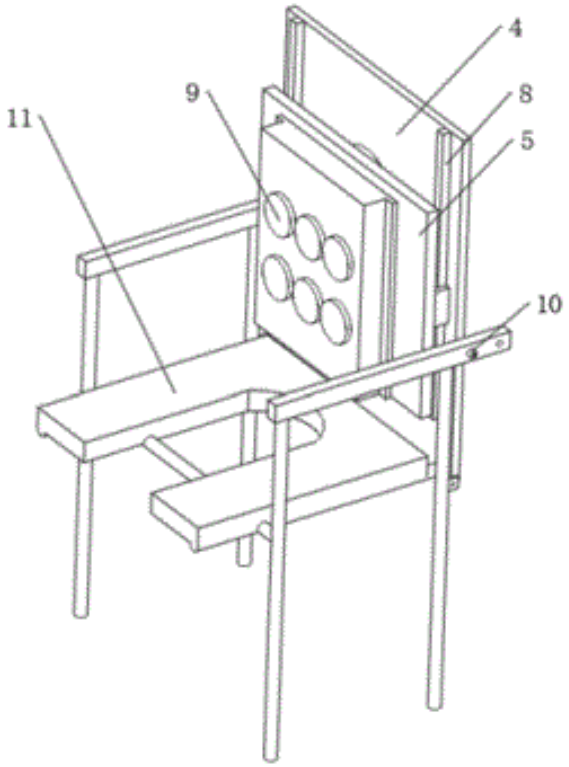
21: 2022/11623. 22: 2022/10/25. 43: 2022/11/29
51: A01G
71: Wuxi University, Tongji University, Qingdao Sino-German Intelligent Technology Institute, Jiangnan University
72: Hongyan Jiang, Dianjun Fang, Feng Cheng, Jun Liu, Yadong Zhang, Xinran Feng

54: A SELF-AID BATHING DEVICE

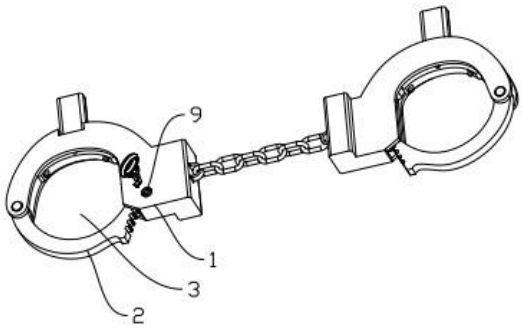
00: -

The invention relates to the field of furniture sanitary ware products and provides a self-aid bathing device, including a chair, a movablely connected brush head box on the chair back to contact with the skin, a driving device between the brush head box and the chair back; The chair back includes a rear back plate fixedly connected to the chair body and a front back plate slidingly connected to the rear back plate, the brush head box is arranged on the front back plate; The driving device includes a rotary driving device located on the rear back plate and a gear rack pair connected with the output shaft of the rotary driving device, the output end of the gear rack pair drives the brush head box. In the invention, a chair is provided to make user more comfortable when bathing, the brush head box on the back of the chair can slide back and forth to realize the back rubbing function, the number of brush heads in the invention can be arbitrarily disassembled and

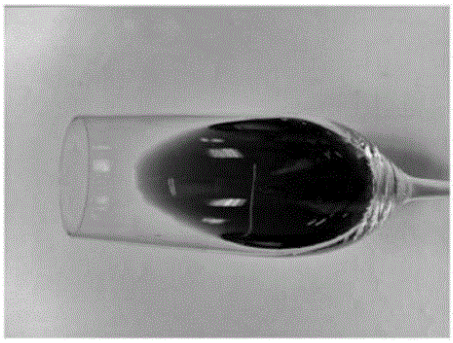
adjusted, which is suitable for users with different heights and sizes.



21: 2022/11624. 22: 2022/10/25. 43: 2022/11/23
51: E05B
71: XINGZHI COLLEGE ZHEJIANG NORMAL UNIVERSITY, MERRY WISER (JINHUA) TECHNOLOGY DEVELOPMENT CO., LTD
72: DUAN, Zhizhuang, HUANG, Ruiyang, HUANG, Yuyun
54: MULTIFUNCTIONAL POLICE HANDCUFF
00: -
The present invention discloses a multifunctional police handcuff, which includes a handcuff body, a cuff hoop, an electric push rod, an arc ring and a main control circuit, wherein the handcuff body and the cuff hoop are hinged and can be encircled to form a closed circular cuff hole; the electric push rod is arranged in a middle portion of an upper end of the handcuff body; a bottom of a movable rod of the electric push rod is provided with the arc ring; an electric shock head is arranged at one side of the arc ring close to the cuff hole; and the main control circuit arranged inside the handcuff body is used for controlling the electric push rod to stretch and retract and to release electric shocks.



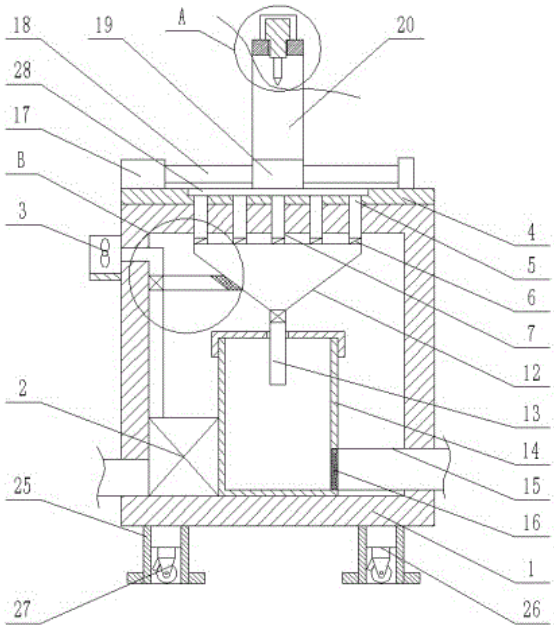
21: 2022/11626. 22: 2022/10/25. 43: 2022/11/29
51: C12G; C12R
71: TAISHAN UNIVERSITY
72: ZHANG, Lei, QIN, Weishuai, ZHANG, Na, DONG, Jiaqi, ZHAI, Heng
33: CN 31: 202110334421.8 32: 2021-03-29
54: FERMENTED APPLE CIDER CONTAINING CHINESE PRIVET AND PREPARATION METHOD THEREFOR
00: -
A fermented apple cider containing Chinese privet and a preparation method therefor. The method comprises the following steps: coring apples, then beating and crushing the apples, adding a sulfurous acid solution while crushing, and filtering to obtain clear apple juice; adding pectinase and white granulated sugar to the apple juice and then letting stand for 10-12 hours to obtain apple pulp; taking fresh fruit of Chinese privet, adding a sulfurous acid solution while crushing to obtain privet pulp, adding the privet pulp to the apple pulp, adding yeast, stirring evenly, and performing alcoholic fermentation; after alcoholic fermentation is completed, filtering to remove residue, filling a full tank to store the alcohol, and performing post-fermentation; and after post-fermentation is completed, filtering the alcohol, clarifying and packaging to obtain fermented alcohol containing Chinese privet and apple.



21: 2022/11654. 22: 2022/10/26. 43: 2022/11/30
51: B23K
71: Jinan Senfeng Laser Technology Co.,Ltd, Shandong Xinguang Photoelectric Technology Co., Ltd
72: XING Zhenhong, LIU Peng, WANG Cuiping, LI Rongchang, LI Yang, WANG Huilai

54: LASER PROCESSING DEVICE

00: -
The invention discloses a laser processing device, which comprises a box body, a workbench, a air collecting hopper assembly, an air supply pipe and a movable bracket assembly. The bottom of the box body is provided with a moving mechanism, and the box body is provided with a vacuum pump, an air blower and a dust collecting assembly; the workbench is fixedly connected to the top of the box body; the workbench is provided with a plurality of vacuum suction holes, vacuum tubes are installed in the vacuum suction holes, and check valves are installed in the vacuum tubes; the top of the air collecting hopper assembly is communicated with a plurality of vacuum tubes, and the bottom is detachably connected with the dust collecting assembly; one end of the air supply pipe is communicated with the air collecting hopper assembly, and the other end is communicated with the vacuum pump and the air blower; one end of the air supply pipe is provided with a first filter screen; the movable bracket assembly is installed on the workbench, the top of the movable bracket assembly is fixedly connected with a telescopic assembly, and the telescopic end of the telescopic assembly is provided with a laser cutter. The invention can realize the automatic cleaning of the residues in the device, and effectively reduce the working intensity; the laser position adjustment is flexible and convenient, which can effectively improve the machining accuracy and efficiency.

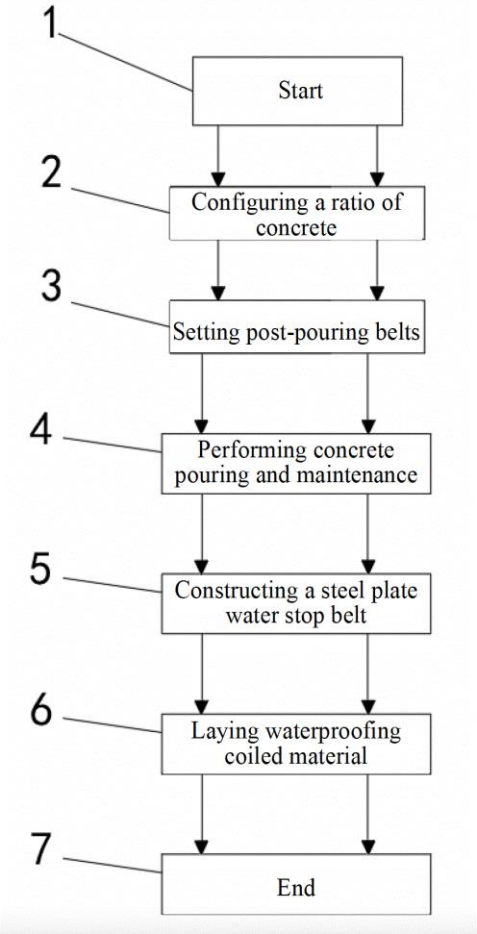


21: 2022/11668. 22: 2022/10/26. 43: 2022/11/30
51: E04H
71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: ZHU, Qinglin, LIU, Shuwei, NIU, Bintao, JIA, Daotong, ZHAO, Debin, LIU, Hanlong, ZHENG, Guolei, GUO, Zaimin, ZHANG, Yihua, YU, Hao, ZHAO, Lianbo

54: WATERPROOFING CONSTRUCTION METHOD FOR BUILDING HOUSING POOL

00: -
Disclosed in the present invention is a waterproofing construction method for building a housing pool. The method includes: adding 300 parts of epoxy resin particles in corrosion resistant modified asphalt, and starting stirring mixing to prepare flame retardant and corrosion resistant modified asphalt, so that the subsequently prepared coiled material would not melt or burn when used in a high temperature environment, thus increasing the service life of the waterproofing sealant, making the internal of the pool not easily suffer from corrosion during the subsequent use process and improving the corrosion resistance of a joint, making the setting of post-pouring belts useful to a constructor to control the temperature difference and shrinkage stress of

concrete so as to improve the anti-aging and anti-freezing properties of the pool. Therefore, the pool would not crack even when used in cold weather, which increases the durability and mechanical strength when used.

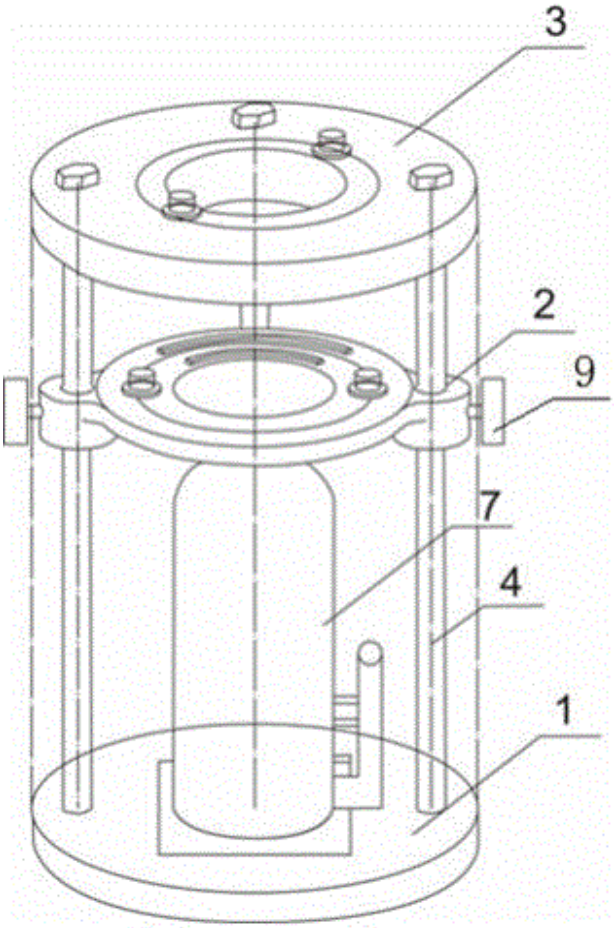


21: 2022/11669. 22: 2022/10/26. 43: 2022/11/30
51: G01N
71: Kunming University of Science and Technology
72: Yi Qiang, Ronggao Qin, Guangzhu Cao, Baozhu Li

54: SOIL SAMPLING EJECTOR

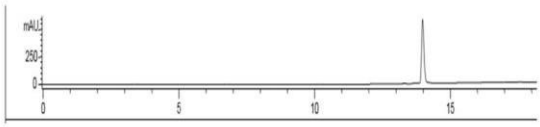
00: -

The utility model relates to a soil sampling ejector and belongs to the field of geological engineering. The soil sampling ejector comprises a base plate, a middle plate, a top plate, a connecting rod, a moldboard, a jack, a compaction mold, a middle inner plate and a top-plate inner plate, wherein the connecting rod is mounted on the base plate; the middle plate and the top plate are mounted at the middle part and the top part of the connecting rod; the jack is fixed at the middle part of the base plate; the middle-part inner plate is mounted on the middle part; the top-plate inner plate is mounted on the top plate; the moldboard is mounted at the upper end of the jack; the compaction mold is mounted between the middle plate and the top plate; an inner-plate semilunar plate I is mounted on the middle inner plate, while an inner-plate semilunar plate II is mounted on the top-plate inner plate; a middle-plate semilunar plate is mounted on the middle plate; and a top-plate semilunar plate is mounted on the top plate. The soil sampling ejector is capable of solving the problems of soil sample deflection and rupture during soil sampling; and the compaction mold can be fixed conveniently so that the trouble that the experimenter must hold the compaction mold by a hand while taking a soil sample is solved; and therefore, the convenience degree of field work can be increased and the carrying cost can be reduced.



21: 2022/11670. 22: 2022/10/26. 43: 2022/11/25

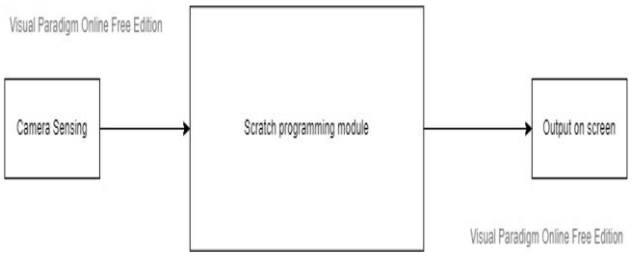
51: C07C; A61P
71: BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, BIO-TEA CO. LTD. OF SHAANXI BIOTECH GROUP
72: SONG, Fuhang, FU, Yan, AI, Nasi, YANG, Na, LI, Honghua, LIU, Xiang
54: COMPOUND AND APPLICATION THEREOF
00: -
The present disclosure relates to the technical field of pharmaceutical applications of compounds. The present disclosure provides use of the compound provided herein for the preparation of a medicament for the inhibition of protein tyrosine phosphatase 1B activity, the preparation of a medicament for the treatment of type 2 diabetes, the preparation of a medicament for lowering blood glucose, the preparation of a medicament for reducing blood fat, the preparation of an anti-obesity medicament, and the preparation of a medicament for the treatment of fatty liver diseases.



21: 2022/11675. 22: 2022/10/26. 43: 2022/11/24
51: H04W
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JOSHI, Anita S., MUNDHE, Apoorva R., KULKARNI, Apoorva A., JOSHI, Archit A., KOTHAWADE, Archit V., TYAGI, Arjun J.
54: SYSTEM FOR DATA TRANSMISSION USING LI-FI TECHNOLOGY
00: -
Accordingly following invention provides a system for data transmission using Li-Fi technology. The system mainly comprises of 9V Battery, Battery Connector, AUX Cable, 330Ω Resistor, LED, Speaker, Mobile Phone, Solar Panel. The architecture of this technology depends on two things. A transmitter and a receiver. Light Emitting Diodes (LEDs) or lasers are used for transmission of data. Solar cells, solar panels, photo-diodes or LDRs can be used as receivers.

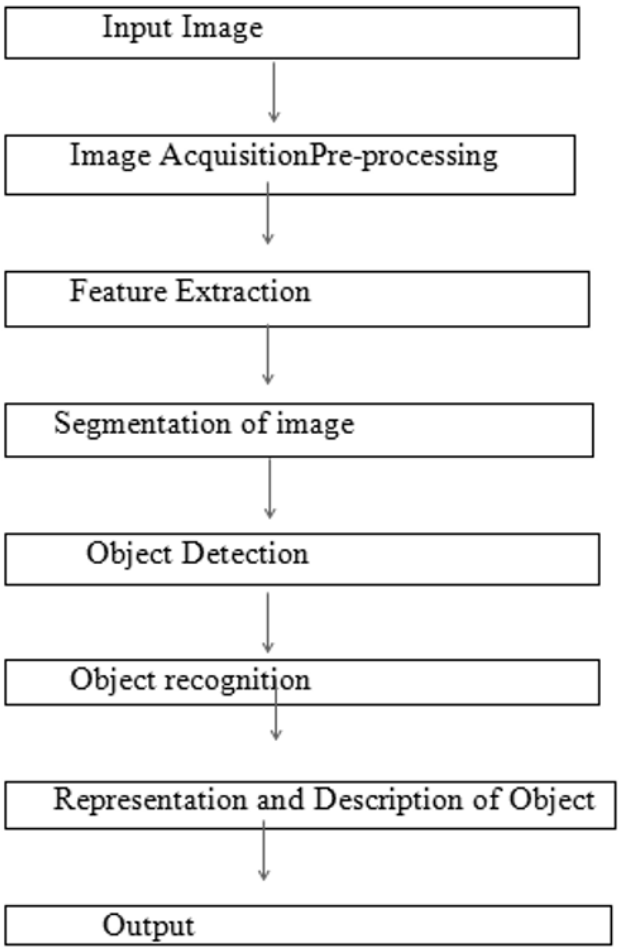
21: 2022/11676. 22: 2022/10/26. 43: 2022/11/24
51: G06Q
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: MAHAJAN, Chandrashekhar, KORADE, Prajwal, KORPADE, Shruti, KORDE, Atharva, KOTHEKAR, Piyush, KOTWAL, Nagnath
54: PASSENGER COUNTING SYSTEM FOR PUBLIC TRANSPORT
00: -
The present invention relates toa passenger counting system in public transport wherein the system attempts to inform live seat matrix inside the bus. In this way, you will be able to understand the number of seats vacant and number of seats occupied. In addition to that, we are using pre-existing cameras inside the bus which will monitor and process the information in real time. With the help of coding by the use of Python programming language, we will be doing recognition of number of people seated in the bus. This data will then be displayed by the LED screen. Our project helps the passenger to decide whether to enter the bus or not, as the passenger just checks the seat matrix displayed in front of the bus. Moreover, during the pandemic situation, our project also facilitates social distancing and a comfortable journey.

21: 2022/11677. 22: 2022/10/26. 43: 2022/11/24
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: BHATLAWANDE, Shripad, MAHAJAN, Chandrashekhar, DESHPANDE, Rupali S., SADAVARTE, Koushal S., KSHIRSAGAR, Aditya K., KSHIRSAGAR, Aditya A., KOWE, Ayushi, AMONKER, Krishna C., KSHIRSAGAR, Kaushal
54: MOTION DETECTION SYSTEM FOR GAMING AND OTHER APPLICATIONS
00: -
The present invention relates toa motion detection system specifically designed for games like fruit ninja comprising of camera and motion detection sensors. Following invention is described in detail with the help of Figure 1 of sheet 1 showing block diagram of proposed invention.



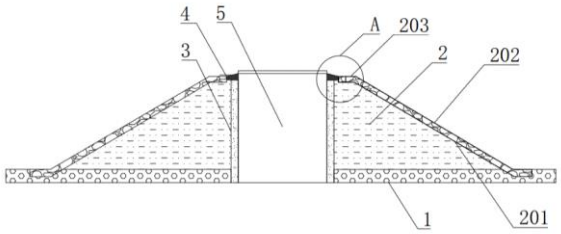
21: 2022/11678. 22: 2022/10/26. 43: 2022/11/24
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: HULWAN, Dattatreya, MAHAJAN, Chandrashekhar, JOSHI, Kalpesh V., AHER, Kuldeep, KSHIRSAGAR, Parag, KULAT, Shruti, KSHIRSAGAR, Yash, KULKARNI, Akhilesh
54: UNIFIED SYSTEM FOR ASSESSMENT AND PROCESSING OF MULTIPLE AGRICULTURAL TASKS
00: -
The present invention relates to a unified system for assessment and processing of multiple agricultural tasks under a single platform wherein farmers can insert as well as gain access to multiple information in relation to climatic condition, crop quality and various agricultural tasks required to be performed on the farm, government notifications and schemes, market condition under a single platform in order to nullify probability of uncertainty in this unorganized sector.

21: 2022/11679. 22: 2022/10/26. 43: 2022/11/24
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: BHATLAWANDE, Shripad, MAHAJAN, Chandrashekhar, SAWANT, Sachin S., NANDANKAR, Kuntesh U., KURADE, Sejal S., BHALGAT, Kunal K., KUYATE, Atharva B., LAD, Yogita V.
54: SYSTEM FOR OBJECT DETECTION WITH VOICE OUTPUT FOR VISUALLY IMPAIRED PEOPLE
00: -
The present invention relates to a system for object detection with voice output for visually impaired people consisting of a hand held device enabled with a camera to captures image, wherein the input image is pre-processed and then features of the image are extracted. after feature extraction, segmentation of image is performed. Once image segmentation is performed, object detection and then object recognition is performed. After that representation and description of object is performed and thereafter the output of the identified image is provided to the user in the form of voice signal. Following invention is described in detail with the help of Figure 1 of sheet 1 showing flow chart of proposed invention.

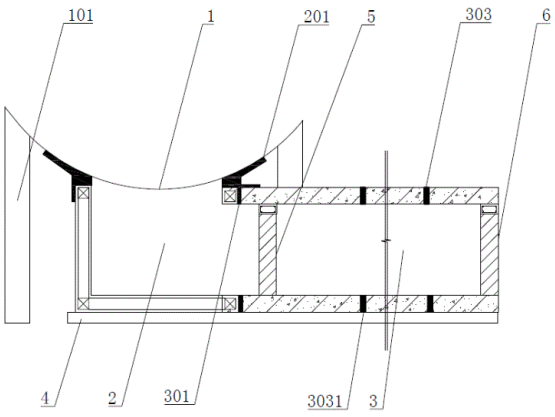


21: 2022/11703. 22: 2022/10/26. 43: 2022/11/30
51: B65D; F17C
71: SHANDONG CHAMBROAD HOLDING GROUP CO., LTD., SHANDONG CHAMBROAD EQUIPMENT MANUFACTURE INSTALLATION CO.,LTD.
72: MA, Yunsheng, ZHAO, Liqiu, ZHANG, Chenghe, MA, Shiheng, YAN, Bo, ZHAO, Qingsong, ZHANG, Chongchong
33: CN 31: 202110280214.9 32: 2021-03-16
54: FULLY SOIL-COVERED STRUCTURE OF VERTICAL TANK BODY
00: -

The present disclosure relates to a soil completely-covered structure of a vertical tank body, which is arranged outside the vertical tank body. The soil completely-covered structure includes a base layer, slope body filling soil and a buffering layer; the base layer is arranged around the vertical tank body and is made of a base material located on aground floor, and a first filling gap is formed between the base layer and anouter wall of the vertical tank body; the slope body filling soil is arranged on the base layer, a second filling gap is formed between the side, close to the vertical tank body, of the slope body filling soil and the outer wall of the vertical tank body, and a side slope surface is formed on the outer side of the slope body filling soil; and the buffering layer is formed in the first filling gap and the second filling gap, and the buffering material fills the first filling gap and the second filling gap to wrap the surface of the vertical tank body. According to the present disclosure, the soil-covered structure surrounding the vertical tank body is optimized, so that the integrity and stability of the overall soil-covered structure are enhanced, and the stress change between the tank body and the soil-covered structure is buffered.

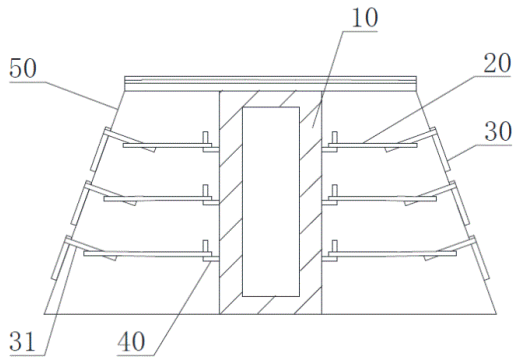


21: 2022/11704. 22: 2022/10/26. 43: 2022/11/30
51: B65D
71: SHANDONG CHAMBROAD HOLDING GROUP CO., LTD., SHANDONG CHAMBROAD EQUIPMENT MANUFACTURE INSTALLATION CO.,LTD.
72: MA, Yunsheng, ZHAO, Liqiu, ZHANG, Ziping, MA, Shiheng, ZHAO, Qingsong, ZHANG, Chongchong, CHENG, Jiatao, WEI, Shengke, GENG, Xingfei
33: CN 31: 202011640962.5 32: 2020-12-31
54: BUILT-IN VALVE CHAMBER OF TANK COMPLETELY COVERED WITH SOIL
00: -
The present disclosure relates to a built-in valve chamber of a tank body completely covered with soil. The valve chamber includes a spherical tank body, a valve chamber, and a channel; an exterior of the spherical tank body is completely covered with soil, and the spherical tank body is supported by a stand column and is arranged on the ground, such that a gap is formed between the bottom of the spherical tank body and a ground foundation; the valve chamber is arranged between the spherical tank body and the ground foundation; a top opening of the valve chamber is connected to the bottom of the spherical tank body by means of a first connecting structure, such that the valve chamber supports the bottom of the spherical tank body; and one end of the channel is connected to a side opening of the valve chamber by means of a second connecting structure, and the other end of the channel extends outwards to be in communication with the outside of a soil layer. According to the present disclosure, after the tank body is covered with soil, various pipelines connected to the inside and outside of the tank body and cables of electric control devices can be accommodated, if an emergency occurs, the pipelines can be more rapidly cut off to the greatest extent via the valve chamber; and the sealing performance of the valve chamber is good, so that various facilities inside the valve chamber can be better protected.

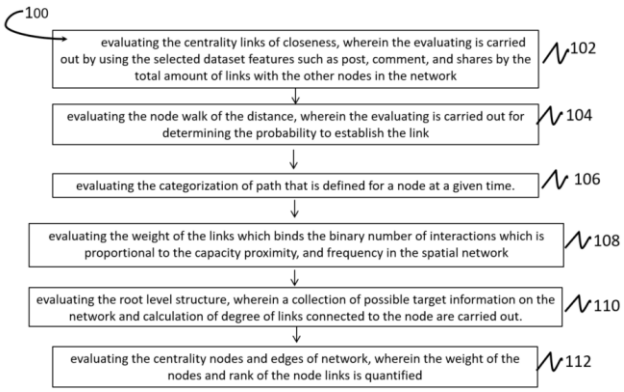


21: 2022/11705. 22: 2022/10/26. 43: 2022/11/30
51: E02D; F17C
71: SHANDONG CHAMBROAD HOLDING GROUP CO., LTD., SHANDONG CHAMBROAD EQUIPMENT MANUFACTURE INSTALLATION CO.,LTD.
72: MA, Yunsheng, ZHAO, Liqiu, ZHANG, Ziping, ZHANG, Chenghe, ZHAO, Qingsong, ZHANG,

Chongchong, CHENG, Jiatao, WEI, Shengke, GENG, Xingfei
33: CN 31: 202011637542.1 32: 2020-12-31
54: INTEGRAL SIDE SLOPE STRUCTURE OF SOIL COVERING TANK
00: -
The present disclosure relates to an integral side slope structure of a soil-covered tank, including a tank body, connecting pieces, and reinforcing frameworks. The exterior of the tank body is completely covered with soil, and a side slope is formed after the tank body is covered with the soil; each connecting piece is composed of ribs which are in cross connection to each other; the connecting pieces are connected to the outer wall of the tank body and are laid inside the side slope in the horizontal direction; a single-layer connecting net is formed after a single layer of the connecting pieces is connected to the tank body; a plurality of layers of the connecting pieces are arranged at intervals in the vertical direction, so that a multi-layer connecting net connected to the tank body is formed in the side slope; the tank body and the side slope are connected by the multi-layer connecting net to form an integral structure; the reinforcing frameworks are arranged along the side slope; the side wall of each reinforcing framework is provided with an extension rod; the extension rod extends and is inserted into the side slope; the connecting piece close to the reinforcing framework is provided with a matching hole; and the extension rod penetrates through the matching hole of the connecting piece, so that a cross structure is formed between the side slope and the connecting piece. In this way, the stability of the slide slope is improved in a way that the integral structure is formed by the tank body, the connecting pieces, the reinforcing frameworks, and covering soil.



21: 2022/11727. 22: 2022/10/27. 43: 2022/11/24
51: G06Q
71: Dr.ROHINI ARUNACHALAM, KRISHNA BHIMAAVARAPU, Preeti Nutipalli, Sreelahari Vallamsetla, SURYAKALA ESWARI GAVIREDDY, Dr.SANGEETA VISWANADHAM, YARRAGUNTLA JAYALAKSHMI, KUMARI GORLE, Mariammal Gopal, Srilatha Yelamati, Ravva Ravi
72: Dr.ROHINI ARUNACHALAM, KRISHNA BHIMAAVARAPU, Preeti Nutipalli, Sreelahari Vallamsetla, SURYAKALA ESWARI GAVIREDDY, Dr.SANGEETA VISWANADHAM, YARRAGUNTLA JAYALAKSHMI, KUMARI GORLE, Ravva Ravi, Mariammal Gopal, Srilatha Yelamati
54: A METHOD FOR SOCIAL NETWORK ANALYSIS TO QUANTIFY THE LINK ANALYSIS IN SOCIAL NETWORK
00: -
The present disclosure relates to a method for social network analysis to quantify the link analysis in social network. In the present disclosure, the betweenness centrality of the relationship between nodes in the spatial network is computed, wherein betweenness centrality of the relationship between the nodes can be considered as an accumulation of solving the shortest path of the nodes, wherein practical implications have been validated the range of the network. The main objective of the present disclosure is to measure the accuracy of the probability of two associates of a node in the structural pattern of the social network. In the present disclosure, experiments have been performed for predicting the links in the association of nodes and then the obtained results showed that the proposed weight-based algorithm can find the strength ties in a given network with an accuracy of 98.9%.

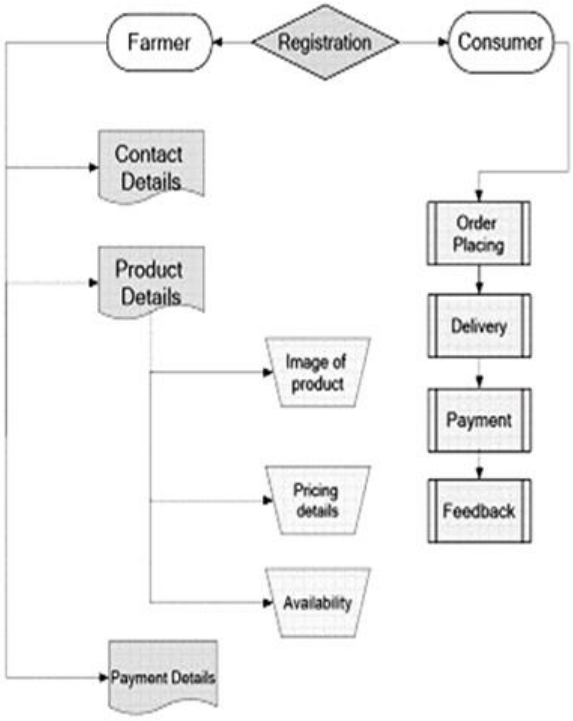


21: 2022/11728. 22: 2022/10/27. 43: 2022/11/24
51: G06Q
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: GHADEKAR, Premanand, MAHAJAN, Chandrashekhar, POL, Madhumati, LADDHA, Krishna, LAGAD, Prathamesh, LAGDIVE, Shivam, LAHARE, Shreyash, LAKHANI, Khushi

54: DIRECT INTERFACE SYSTEM FOR CONNECTING AGRICULTURAL PRODUCERS AND CUSTOMERS

00: -

The present invention relates to a direct interface system for connecting agricultural producers and customers mainly comprises of two interfaces; One is customer interface and other is farmer interface wherein at the consumer interface, when a consumer visits for the first time he also has to complete registration, in that he provides his contact number, address, Delivery location landmarks and all and at farmer's interface when a farmer first visits the Agromart website he has to complete registration on the website by providing basically three types of information namely contact details, Product Details and Payment Details. Following invention is described in detail with the help of Figure 1 of sheet 1 showing block diagram of proposed invention.



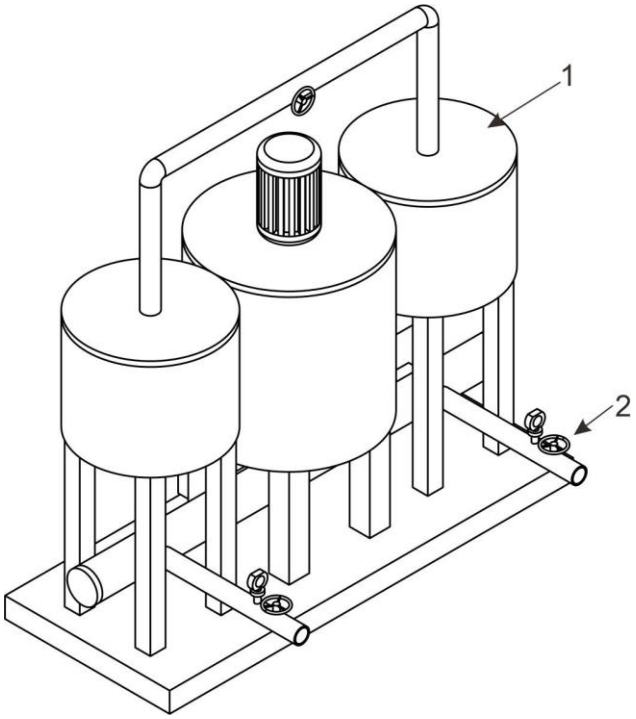
21: 2022/11729. 22: 2022/10/27. 43: 2022/11/23
51: A01K
71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, FENGYANG XIAOGANG MINYI LAND SHARES COOPERATIVES
72: ZHANG, Feng, JIN, Erhui, LIU, Xiaodan, JI, Xu, YIN, Yurong, DU, Min, WANG, Yue

54: INTELLIGENT LIQUID FEEDING SYSTEM FOR PIG BREEDING

00: -

The present invention provides an intelligent liquid feeding system for pig breeding, which comprises a stirring unit and a control unit, wherein the stirring unit comprises a stirring tank and both sides of the stirring tank are symmetrically provided with a material tank and a water storage tank respectively; the bottoms of the material tank and the water storage tank are respectively internally communicated with the stirring tank through a first pipeline; the control unit comprises a temperature regulating component, a flow control component and a control panel; and the temperature regulating component comprises an electric heating block located in the stirring tank. The present invention enables the control panel to control a first flow control valve to proportion a nutrient solution and

water through the nutrition required by piglets, so as to facilitate the growth of the piglets.



21: 2022/11730. 22: 2022/10/27. 43: 2022/11/24
51: C08L
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: MAHAJAN, Chandrashekhar, LAKHOTIA, Bhagyesh J., LAKHKAR, Anish P., LAMBAT, Harsh D., LAMBE, Mansi S., LANGADE, Niranjan R.

54: PROCESS FOR MANUFACTURING BANANA FIBRE

00: -

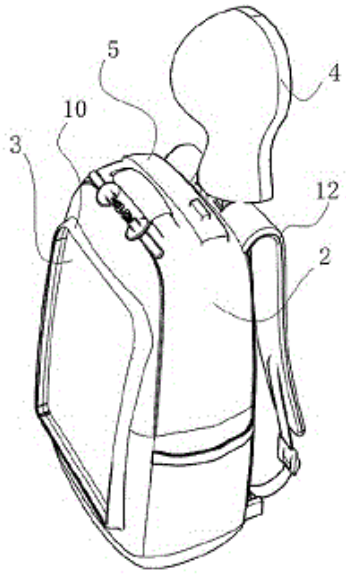
The present invention provides a simplified process for manufacturing banana fibre wherein Banana fibre can be extracted by mechanical aswell as chemical means. In mechanical ways, we extract banana fibre by hand using as crapping tool or use a Raspador machine. Whereas inChemical means, Retting is done. In the process the sheaths are soaked in various solutions, natural(microbial) or in chemicals like NaOH etc. which softens and digests the lignin which helps in fibre separation. In the process firstly we located some harvested banana plants as the fibre obtained in older (that have produced fruit and it has been harvested) plant is comparatively stronger. Then we carefully cut the plant so as not to damage to sucker plants. The plant was then cut in half vertically and we separated the sheaths individually by Hand. Once the sheaths were separated, we started scrapping them using various tools like pocketknife, Chef's Knife and a piece of metal sheet. Slowly the fibres started separating from it but they had some impurities. This is final product after drying and combing can be used to make clothes, and various kinds of fabrics, ropes, handi crafts etc.

21: 2022/11733. 22: 2022/10/27. 43: 2022/11/21
51: A45F
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY
72: DONG, XINWEI , LIU, LILI
33: CN 31: 202111256123.8 32: 2021-10-27

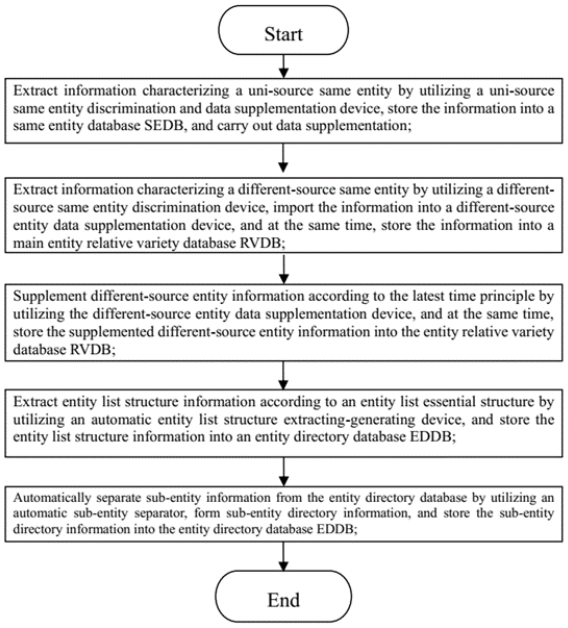
54: OUTDOOR PROTECTION ELECTRIC SHOCK BACKPACK

00: -

The present disclosure provides an outdoor protection electric shock backpack, which belongs to a safety protection product. A solar charging panel is connected to the rear side of a package body; a double-layer hollow headgear is connected to the middle of an upper end of the package body; and a battery module, a small transformer, and an electric air pump are installed in the package body. The solar charging panel is connected to the battery module through a cable, and the battery module is connected to the small transformer and the electric air pump through a cable. The electric air pump is connected to the cavity of the double-layer hollow headgear through a conduit. The small transformer is connected to a discharge wire through a cable, and the discharge wire is arranged on the rear side of the package body. When an emergency accident happens, the headgear of the present disclosure can be worn on the head to protect the head from injury and reduce the risk of injury. A discharge switch can be turned on to supply power to the discharge wire, then, if a stranger or dangerous animal tries to pounce on the user, they will be stunned or numbed by the discharge wire, and the user can take this opportunity to escape quickly and seek help.



21: 2022/11776. 22: 2022/10/28. 43: 2022/11/16
51: G06F
71: HEBEI INSTITUTE OF SCIENCE AND TECHNOLOGY INFORMATION (HEBEI INSTITUTE OF SCIENCE AND TECHNOLOGY INNOVATION STRATEGY)
72: WANG, Hong, LI, Yinsheng, WU, Feng, NIE, Yongchuan, ZHANG, Chaozong, REN, Yan, WU, Pengjie, YANG, Yang
33: CN 31: CN202210592302.7 32: 2022-05-27
54: MULTISOURCE MAIN-SUBSIDIARY ENTITY IDENTITY DISCRIMINATION AND DATA SELF-SUPPLEMENTATION PROCESSING METHOD
00: -
The invention discloses a multisource main-subsidiary entity identity discrimination and data self-supplementation processing method which is applied in the field of big data processing and proposes that multisource data entities are stripped according to main and subsidiary entities, same entity discrimination is performed according to the same scene, entity attribute classification, weights, and the like, and processing and storage are respectively performed for discrimination probabilities. By technical methods such as calculation of the identity probability of the main entity and the subsidiary entity, index supplementation and data merging of the same entity, entity list structure extraction and storage and entity sub-list structure separation, the invention systematically solves the problems of respective processing and collection of main and subsidiary entities according to identity probabilities, cross-source entity merging and data supplementation, unified entity relationship storage, separation of entities as required, etc., and provides a feasible solution for performing multisource and large-scale data association operation.



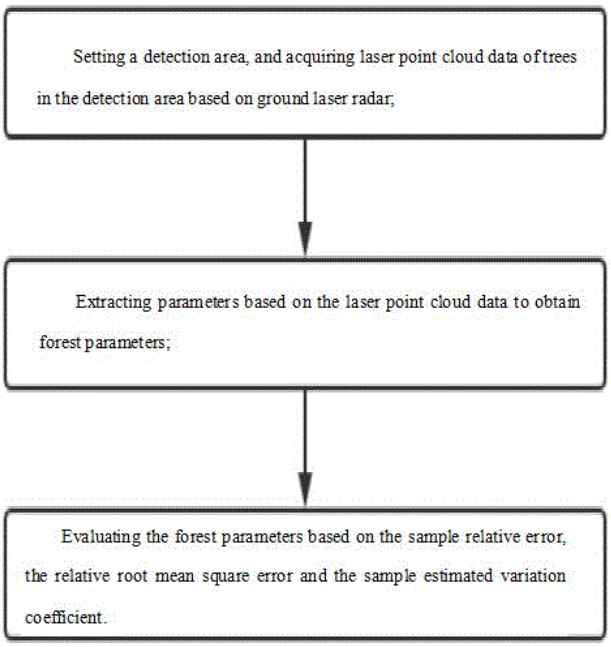
21: 2022/11805. 22: 2022/10/31. 43: 2022/11/30
51: A23K
71: JIANGXI AGRICULTURAL UNIVERSITY
72: SONG Xiaozhen, YANG Xiujiang, CHEN Rongrong, YOU Jinming, QU Mingren, LI Lin, LAN Jian
54: COMPOUND PREPARATION OF TRADITIONAL CHINESE MEDICINE AND PROBIOTICS FOR FATTENING GOATS AND PREPARATION METHOD THEREOF
00: -
The invention belongs to the field of agriculture and relates to a feed additive, in particular to a compound preparation of traditional Chinese medicine probiotics for fattening goats. The traditional Chinese medicine probiotic compound preparation is composed of the following components: Bacillus subtilis, Bacillus licheniformis, yeast, Lactobacillus plantarum, Astragalus polysaccharides and Lycium barbarum polysaccharides of 50-100 parts. Adding the preparation can significantly enhance the immunity of fattening goats, promote the absorption of nutrients by goats, increase the daily gain of goats, improve the tenderness and juiciness of slaughtered mutton, and improve the quality of mutton.

21: 2022/11806. 22: 2022/10/31. 43: 2022/11/30
51: G01B; G01S
71: Central South University of Forestry & Technology
72: SUN Hua, ZHU Jia

54: METHOD FOR SIMPLIFYING FOREST POINT CLOUD AND EXTRACTING PARAMETERS OF GROUND LIDAR

00: -

The invention disclose a method for simplifying and extract parameters of tree point clouds by a ground laser radar, which comprise that following steps: setting a detection area, and acquiring laser point cloud data of trees in the detection area based on the ground laser radar; Extracting parameters based on laser point cloud data to obtain forest parameters; Based on sample relative error, relative root mean square error and sample estimation variation coefficient, the forest parameters were evaluated. Starting with the idea of extracting forest parameters, the invention puts forward the idea of extracting parameters such as tree height, height under branches, diameter at breast height, diameter at any height, crown width, crown volume and the like; On the one hand, it can effectively reduce the amount of original point cloud data and improve the operation efficiency; on the other hand, it can extract forest parameters more quickly and provide basic data for the subsequent tree trunk 3D surface simulation.



21: 2022/11809. 22: 2022/10/31. 43: 2022/11/30
51: C07K
71: Chongqing University Cancer Hospital
72: Li Zheng, Wang Hui, Chu Rui, Zhang Yuhan, Wang Hongling

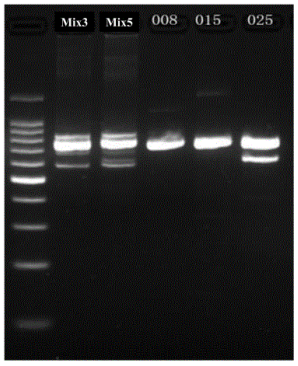
54: THE PREPARATION METHOD OF THE ORGANOID EXTRANODAL NATURAL KILLER (NK)/T-CELL LYMPHOMA, NASAL TYPE , ENKTL

00: -

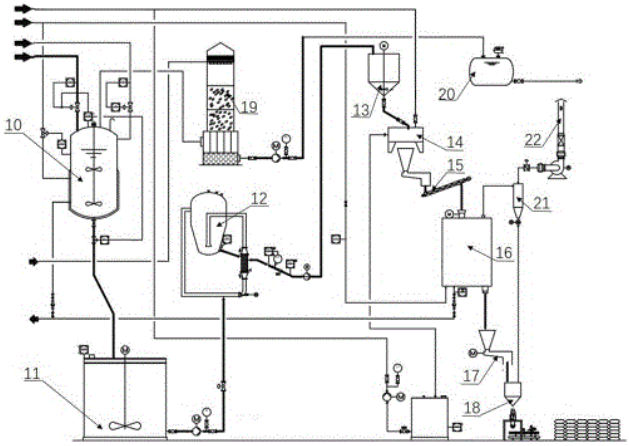
The invention discloses a preparation method of the organoid extranodal natural killer (NK)/T-cell lymphoma, nasal type , ENKTL, which comprises the steps of: 1) collect biopsy tissue of nasal extranodal NK/T cell lymphoma of a patient, then store the tissue sample in culture medium; 2) employ a scissor or scalpel to cut the tissue into small pieces; 3) wash the cells; resuspend the precipitate in the culture medium, then centrifuge the resuspended and filtered cells; 4) aspirate the supernatant to resuspend the precipitate in BME; 5) place the culture plate in the humidification incubator, and then place the culture medium in the water bath; 6) invert the plate and add the organoid medium to each well once the BME droplets solidify; 7) promote the decomposition of the organoid; 8) wash, incubate, microdrops solidify, and place the plate in a humidified incubator after digestion. The newly developed organoid extranodal natural killer (NK)/T-cell lymphoma, nasal type , ENKTL is utilized for drug resistance screening, which can determine the

drug resistance state of the relevant patient beforehand, making it easier for the timely intervention and treatment for the clinical treatment of the patient.

21: 2022/11810. 22: 2022/10/31. 43: 2022/11/30
51: C12N; G01N
71: Hebei Normal University
72: ZHANG, Xiaoman, LIU, Jingze, ZHANG, Shaojun
54: IDENTIFICATION METHOD OF PHYTOPHAGOUS INSECTS DIET BASED ON MULTIPLEX PCR
00: -
The present disclosure provides an identification method of phytophagous insects diet based on multiplex PCR, and belongs to the technical field of genes. In the present disclosure, genes for the multiplex PCR include a CO1 gene barcode for identifying insects and rbcL+ trnL+ ITS genes barcode for identifying plants, which can amplify combined DNA barcodes for identifying animals and plants simultaneously through a multiplex PCR amplification system, and amplification costs can be substantially saved in the case of a large samples. Furthermore, through high-throughput DNA library and subsequent reference gene-based reads mapping of genes, the results that obtained are completely consistent with phytophagous insect species and plant species the insects eat. The multiplex PCR amplification system for identifying phytophagous insects diet provided by the present disclosure can substantially save costs in the case of high accuracy.

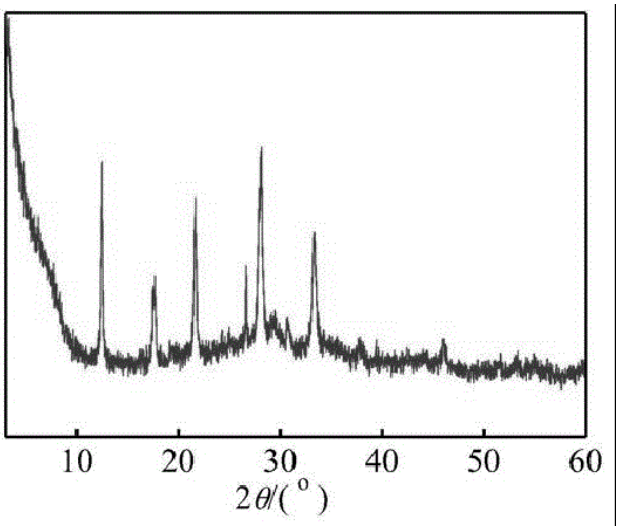


21: 2022/11811. 22: 2022/10/31. 43: 2022/11/30
51: C01D
71: China University of Petroleum (East China), Erdos Guanghui Renewable Resources Co., LTD
72: LIN Aiguo, ZHANG Xiangdong, LU Tao, YANG Miaomiao
54: METHOD FOR PREPARING SODIUM BISULFATE FROM SOLID SLAG SALT OF COAL CHEMICAL INDUSTRY
00: -
The invention discloses a method for preparing sodium bisulfate from solid slag salt of coal chemical industry, belonging to the technical field of resource recovery. The solid slag produced by coal chemical industry is used as raw material to react with sulfuric acid to produce hydrogen chloride and sodium bisulfate crystals, which not only combines the resource characteristics of solid slag salt, makes full use of chemical waste resources and treats hazardous waste, but also turns solid waste miscellaneous salt into chemical products with higher added value, with low investment and easy operation, and meets the requirements of sustainable development of coal chemical industry.



21: 2022/11812. 22: 2022/10/31. 43: 2022/11/30
51: C02F
71: China University of Petroleum (East China), Shaanxi Honglan Litian Environmental Protection Technology Co. , Ltd.
72: LIN Aiguo, ZHANG Xiangdong, DING Xinghua, GAO Mingming, REN Guang
54: PREPARATION METHOD OF POROUS ADSORPTION MATERIAL, PRODUCT AND APPLICATION THEREOF
00: -
The invention discloses a preparation method of porous adsorption material, product and application thereof, and belongs to the technical field of solid waste treatment and resource utilization. Mainly

using coal gasification fine slag solid waste as raw material, the porous adsorption material is prepared by one-step liquid phase reconstruction method, which solves the problems of complex preparation process, high energy consumption and high pollution in the prior art. The obtained porous adsorption material is combined with dye wastewater adsorption, and the removal rate of crystal violet, a pollutant in water, is as high as 99%.

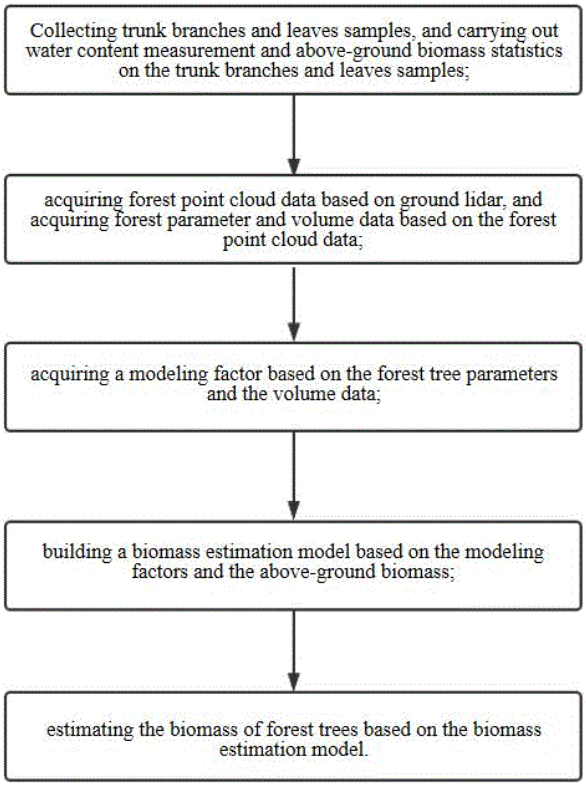


21: 2022/11813. 22: 2022/10/31. 43: 2022/11/30
51: G06K
71: Central South University of Forestry & Technology
72: ZHU Jia, SUN Hua

54: MODELING METHOD OF FOREST BIOMASS GROUND LIDAR

00: -

Disclosed is a modeling method of forest biomass ground lidar, including: collecting trunk branches and leaves samples, and carrying out water content measurement and above-ground biomass statistics on the trunk branches and leaves samples; acquiring forest point cloud data based on ground lidar, and acquiring forest parameter and volume data based on the forest point cloud data; acquiring a modeling factor based on the forest tree parameters and the volume data; building a biomass estimation model based on the modeling factors and the above-ground biomass; and estimating the biomass of forest trees based on the biomass estimation model. The invention provides a field collection and indoor measurement method of biomass samples, puts forward the technical means of accurate estimation of above-ground biomass, carries out the collinearity diagnosis and stepwise regression analysis of modeling factors, and constructs the prediction model from three aspects: branch biomass, trunk biomass and above-ground biomass. Based on the modeling factors extracted from point clouds, the invention better predicts the biomass of branches and leaves, the biomass of trunk and the above-ground biomass, and its prediction accuracy is higher than that of the traditional univariate and binary branches and leaves biomass models.



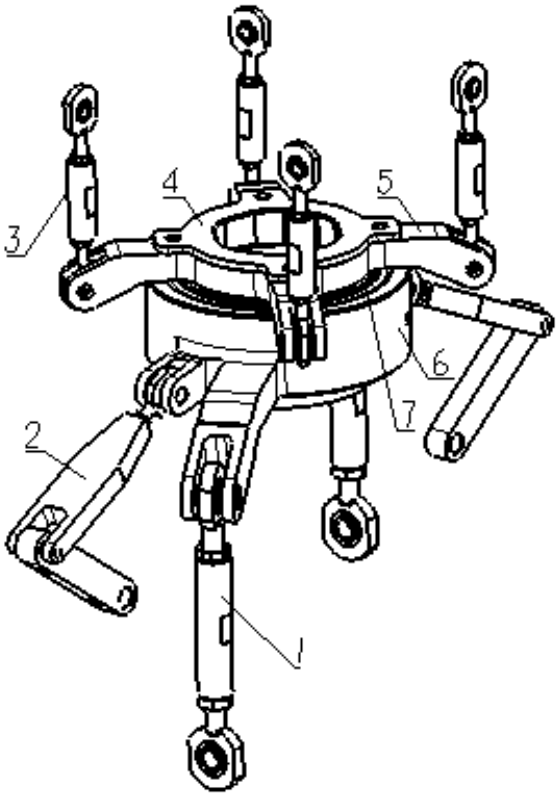
21: 2022/11814. 22: 2022/10/31. 43: 2022/11/30
51: B64C
71: Zhengzhou Machinery Research Institute Co. , Ltd.
72: Xu Wenbo, Huang Hongtao, Wang Feng, Liu Shijun, Zhang Hongzhan, Cai Hua

54: A NEW STRUCTURE OF AUTOMATIC TILTING DEVICE

00: -

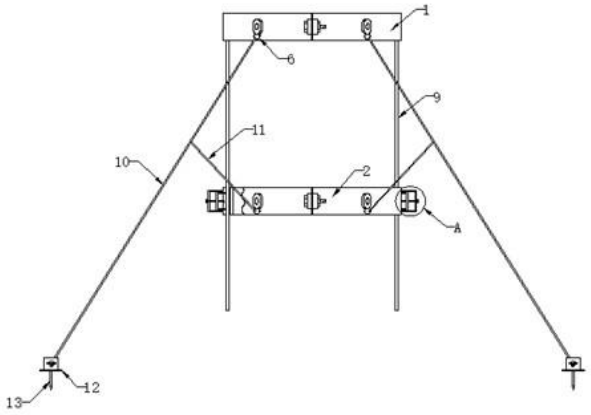
The invention discloses a new structure of automatic tilting device, including a sliding sleeve with the rotor shaft and synchronous rotation, the top and bottom of the sliding sleeve are polygonal and circular combined structure, the rotor shaft and the bottom and top of the sliding sleeve polygonal edge contact

sliding connection, the central part of the sliding sleeve is a cavity structure, the inner wall of the cavity of the sliding sleeve and the rotor shaft is formed between the gap for storing grease. The invention uses a columnar sliding sleeve instead of the traditional complex structure of the central ball, the sliding sleeve and the dynamic ring connection is simple and reliable, reducing processing and manufacturing difficulties; sliding sleeve internal and rotor shaft connection using polygonal connection instead of spline, to achieve synchronous rotation at the same time, greatly reducing processing costs, simple process. The hollow groove in the middle of the sliding sleeve does not directly contact with the rotor shaft but stores grease, which reduces the wear of the sliding sleeve when sliding with the rotor shaft.



21: 2022/11815. 22: 2022/10/31. 43: 2022/11/23
51: A01G
71: NORTHWEST A&F UNIVERSITY
72: GAO, Tianjian
54: WINDPROOF FIXING DEVICE FOR TREE CULTIVATION
00: -

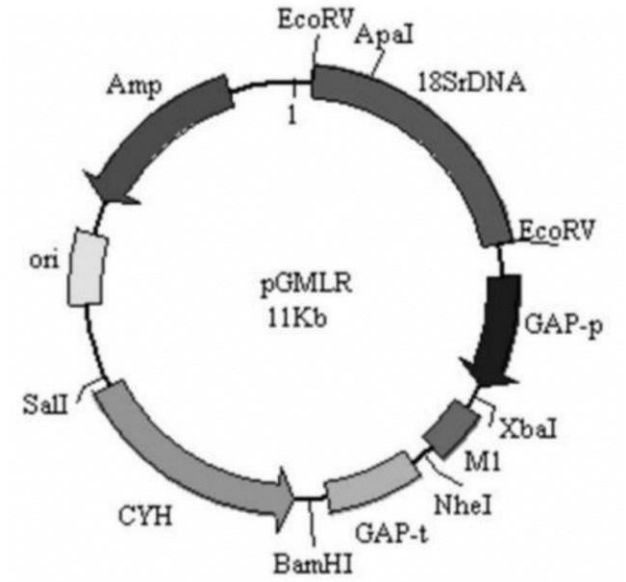
Disclosed is a windproof fixing device for tree cultivation, which comprises a first and a second fixing mechanism. The second fixing mechanism is arranged at a lower end of the first fixing mechanism; the first and second fixing mechanisms comprise two arc-shaped plates; symmetrical fixing blocks are arranged on front and rear side walls of the plates; the fixing blocks are connected by bolts; symmetrical screw blocks are arranged on outer walls of the plates; fixing rings are arranged on lower side walls of the screw blocks; interiors of the screw blocks are in connection with fixing screw rods. The device is formed by assembling a plurality of components, can be randomly adjusted according to a stem diameter of a tree, is firmer through fixation by the first fixing and second fixing mechanisms in two layers, can be disassembled and recycled reused.



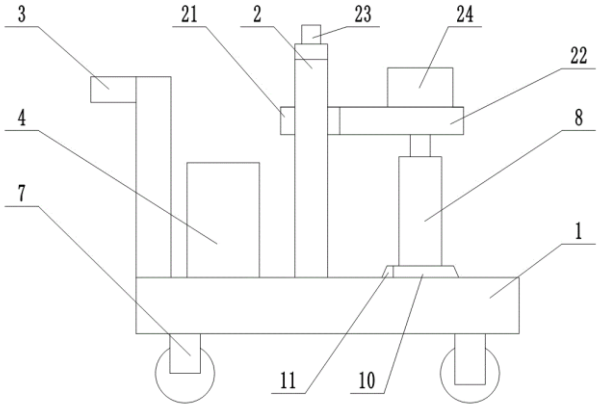
21: 2022/11816. 22: 2022/10/31. 43: 2022/11/30
51: C12N; C12R
71: Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences
72: Huhe, Gaowa, Qiburi, Sachula, SU, Shaofeng, WU, Qinghai, WANG, Yunhua, LIU, Hongkui
54: HOMOLOGOUS INTEGRATIVE EXPRESSION VECTOR OF CANDIDA UTILIS, ENGINEERING BACTERIUM, CONSTRUCTION METHODS, AND USE
00: -

The present disclosure provides a homologous integrative expression vector of Candida utilis, an engineering bacterium, construction methods, and use. The entire expression system has all genetic elements from the probiotic Candida utilis and non-

toxic and harmless fungi. The expression system does not carry antibiotic resistance genes or other toxic protein genes, and have no drift, spread, and integration of resistance genes. The expression system does not bring biological safety hazards to the environment or human beings and animals, and reaches a food grade to be directly added to food and feed. In the present disclosure, the homologous integrative expression vector is constructed and transformed into Candida utilis to form an engineering bacterium; the engineered bacterium still contains a target band when being subcultured for 100 generations, indicating that an exogenous gene is not lost and a relatively high genetic stability is maintained during the subculturing.

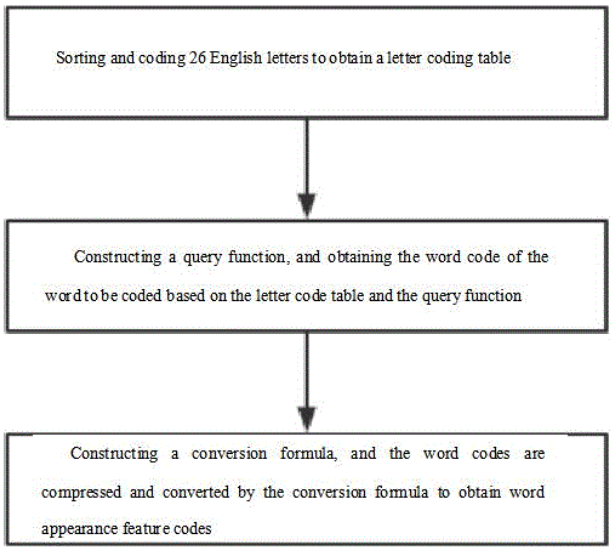


21: 2022/11817. 22: 2022/10/31. 43: 2022/11/30
51: G01N
71: China Resources Land Limited, China University of Mining and Technology, Sinohydro Bureau 12 Co.,LTD
72: PAN Anqi, YAO Wenjie, HE Zhuangzhi
54: HIGH STRENGTH CONCRETE CORE DRILLING SAMPLING DEVICE AND METHOD
00: -
The invention relates to the technical field of sampling devices, in particular to a high strength concrete core sampling device and method. Each fourth groove is provided with a second lifting assembly, wherein one second lifting assembly is fixedly connected with the first clamping assembly, and the other second lifting assembly is fixedly connected with the second clamping assembly; the first clamping assembly and the second clamping assembly are used for clamping the drill core barrel for stable rotation; and the guide assembly is detachably connected with the drill core barrel. The first clamping assembly and the second clamping assembly provided by the invention can clamp the drill core barrel, so that the drill core barrel can rotate stably; meanwhile, the cooling water in the water storage tank can be sent to the outer wall of the drill core barrel through the water inlet assembly provided by the second clamping assembly, so as to cool the drill core barrel; and sand, dust and cooling water generated by the drill core barrel during working are sucked into the sewage storage box through the sewage discharging assembly provided by the first clamping assembly, so that the influence on the working environment during working is avoided.



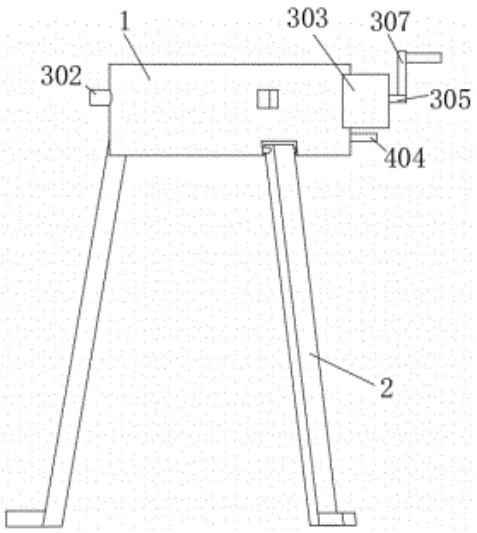
21: 2022/11818. 22: 2022/10/31. 43: 2022/11/30
51: G06F
71: DONGGUAN CITY UNIVERSITY, RUAN Chunyan, Dongguan Stone Bata Intelligent Technology Co., Ltd, LUO Jianfeng, DONGGUAN POLYTECHNIC
72: RUAN Chunyan, LUO Jianfeng
54: METHOD OF GENERATING ENGLISH WORD APPEARANCE SHORT FEATURE CODE
00: -
The invention discloses a simple calculation method of English word appearance feature code, which comprises the following steps: sorting and coding 26 English letters to obtain a letter coding table; Constructing a query function, and obtaining the word code of the word to be coded based on the letter code table and the query function; A

conversion formula is constructed, and the word codes are compressed and converted by the conversion formula to obtain word appearance feature codes. According to the appearance of an English word, the invention calculates its appearance feature code, which expresses the characteristics of the word appearance, and English words with the same feature code have similar appearances. Appearance feature code makes it easier to compare the appearance of English words, and because the number of feature codes is small, the storage space can be saved. If the method of the invention is applied in the field of artificial intelligence, it can realize fast fuzzy recognition of similar words; If it is applied in the field of big data, a similar word retrieval method based on appearance feature code can be realized.



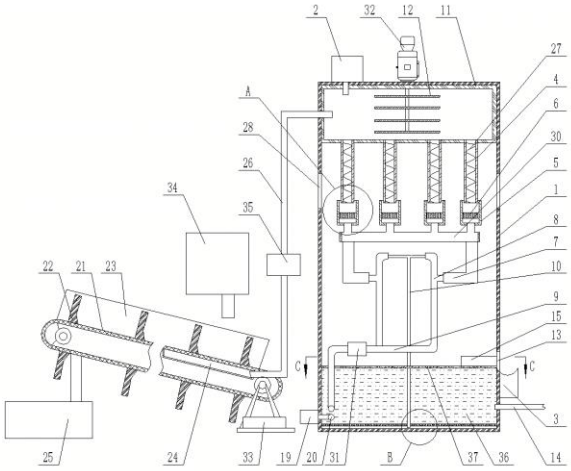
21: 2022/11819. 22: 2022/10/31. 43: 2022/11/30
51: A01G
71: Zhejiang Institute of Garden Plants and Flowers (Zhejiang Xiaoshan Institute of Cotton and Bast Fiber Crops Research), Lu'an Agricultural Science Research Institute, Xinyang Academy of Agricultural Sciences, Zhangjiajie Research Institute of Agricultural Science and Technology, Hangzhou Agricultural Technology Promotion Center
72: AN, Xia, HU, Wanqun, ZHANG, Lixia, DONG, Guoyun, WEI, Jiqian, LUO, Xiahong, LIU, Tingting, LI, Wenlue, ZOU, Lina, ZHU, Guanlin, CHEN, Changli
54: AUXILIARY SUPPORTING DEVICE FOR FIELD PLANTING OF CAMELLIA SEMISERRATA SEEDLINGS
00: -

The invention discloses an auxiliary supporting device for field planting of camellia semiserrata seedlings, and belongs to the field of auxiliary supporting devices for field planting of seedlings. The auxiliary supporting device includes a hoop, a bottom of which is rotatably connected with three supporting legs; an auxiliary clamping mechanism is arranged inside the hoop and includes a first circular-ring flywheel rotatably mounted inside the hoop. According to the invention, a seedling are clamped and supported to prevent seedling lodging; the auxiliary supporting device can adapt to seedlings with different thicknesses, and can also clamp seedlings for subsequent film coverage; the clamping is achieved by means of a restoration force of a spring, which can adapt to the growth of the seedlings; the device can achieve height adjustment, so that the time and labor are saved, and the use experience of the device is greatly enhanced.



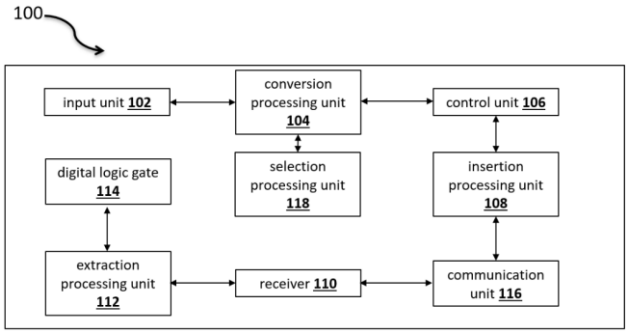
21: 2022/11820. 22: 2022/10/31. 43: 2022/11/30
51: C02F
71: China Institute of Water Resources and Hydropower Research
72: WANG Liang, ZHAO Shilin, LIU Xiaobo, WANG Shiyan, LIU Chang, DU Yanliang, HAN Zhen, MA Xu, LI Kun, LIU Wei, LI Budong
54: IMPROVED SEWAGE TREATMENT DEVICE AND SEWAGE TREATMENT PROCESS THEREOF
00: -

The invention discloses an improved sewage treatment device, which comprises a shell, a filter part arranged outside the shell, a flocculation part, a pressurization part and a stirring part arranged in the shell from bottom to top, wherein the filter part is communicated with the stirring part, and the flocculation part is communicated with the stirring part through the pressurization part; a flocculant storage tank and an impurity collection box are arranged outside the shell, the flocculant storage tank is communicated with the stirring part, and the impurity collection box is communicated with the flocculation part; the pressurizing part comprises a plurality of water guide pipes communicated with the stirring part, a pressurization cylinder is correspondingly arranged below the water guide pipes, an air cushion is arranged in the pressurization cylinder, and the water outlet end of the pressurization cylinder is communicated with a water collecting pipe. The invention can improve the mixing degree of flocculants, further improve the use effect of flocculants, and simultaneously reduce the energy consumption in the process of microbubble generation and impurity collection, thus achieving the effects of low energy consumption and low cost for sewage treatment.



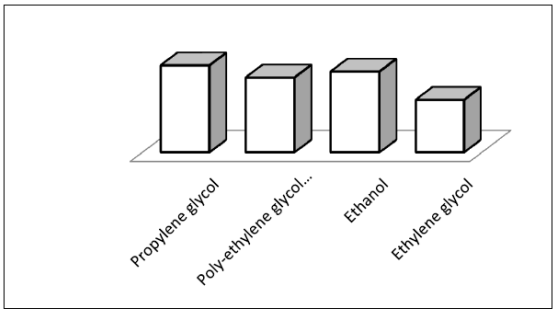
21: 2022/11825. 22: 2022/10/31. 43: 2022/11/30
51: H04N
71: Tapodhir Acharjee, Sudipta Roy, Bhagaban Swain, Ananya Choudhury, Pawan Kumar
72: Tapodhir Acharjee, Sudipta Roy, Bhagaban Swain, Ananya Choudhury, Pawan Kumar
54: A HYBRID AUDIO STEGANOGRAPHY SYSTEM AND ITS METHOD THEREOF
00: -

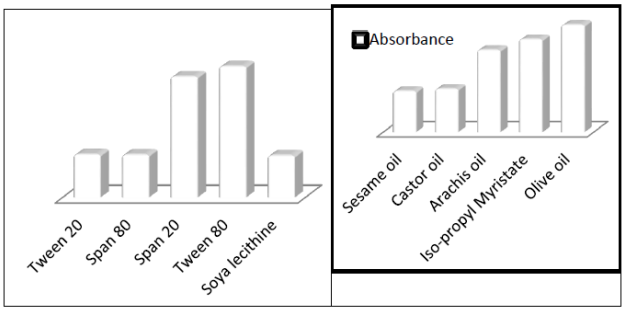
The hybrid audio steganography system comprises an input unit for receiving an audio file and selecting a secret text; a conversion processing unit for converting the secret text ASCII value into binary format; a control unit for generating a Pseudo-Random number using LFSR for every character in the message thereby performing XOR operation between every character with its Pseudo-Random number and providing an embedded message; an insertion processing unit for inserting the embedded message in the audio file using the LSB method and generating a stego-audio file; a receiver for receiving the stego-audio file with the secret keys to an extraction end; an extraction processing unit for selecting the stego-audio file and entering the Secret key to extract the embedded message from stego-audio using LSB extraction technique; and a digital logic gate for performing XOR operation between every character of the embedded message with its Pseudo-Random number to obtain the original message.



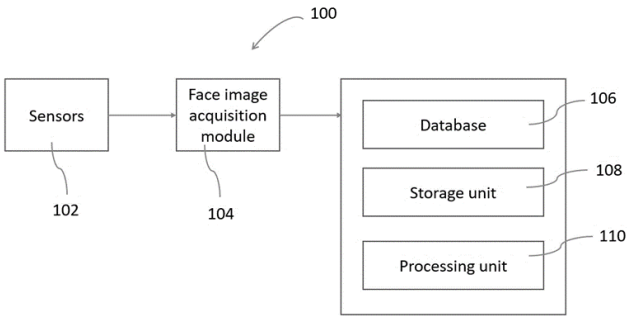
21: 2022/11826. 22: 2022/10/31. 43: 2022/11/30
51: A61K
71: Dr. Shubhrajit Mantry, Ms. Pranita S. Pawar, Dr. Kiran C. Mahajan, Dr. Ganesh Y. Dama, Ms. Vaishali A. Adsare, Ms. Seema Yuvraj Mendhekar, Dr. Swati Sanjay Gaikwad, Mrs. Hina Deepak Mehta, Ms. Joshi Supriya Chandrakant
72: Dr. Shubhrajit Mantry, Ms. Pranita S. Pawar, Dr. Kiran C. Mahajan, Dr. Ganesh Y. Dama, Ms. Vaishali A. Adsare, Ms. Seema Yuvraj Mendhekar, Dr. Swati Sanjay Gaikwad, Mrs. Hina Deepak Mehta, Ms. Joshi Supriya Chandrakant
54: IMPROVE ANTITUMOR EFFICACY OF CYCLOPHOSPHAMIDE NANOEMULSION BY PARENTERAL DRUG DELIVERY SYSTEM AGAINST BREAST CANCER CELL
00: -

The present invention relates to an anticancer pharmaceutical composition. The present invention provides a safe, stable and infinitely dilutable nanoemulsion for treating breast cancer. The said composition comprises of cyclophosphamide, tween 80, propylene glycol, olive oil, phosphate buffer saline ph 7.4 and distilled water. The present invention also provides the method of producing the said composition. The present invention aims to improve anticancer activity of cyclophosphamide-loaded nanoemulsion, improve the drug's efficiency and reduce the dose related side effect of cyclophosphamide when administered intravenously. The composition has at least 93.42% drug release in first 3 hours and a stable sustained drug release for 60 days. The nanoemulsion significantly inhibits the growth of breast cancer cell in dose dependant manner.



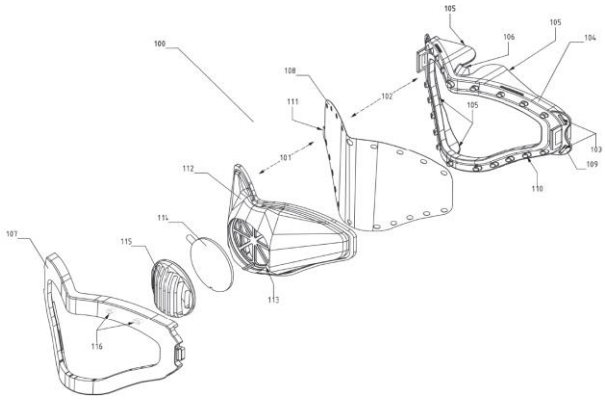


21: 2022/11828. 22: 2022/10/31. 43: 2022/11/30
51: G06N
71: Dr. Kanta Prasad Sharma, Mr. Priyadarshi, Kshitij Joshi, Pujan Soni, Rudra Joshi, Pearl Miglani
72: Dr. Kanta Prasad Sharma, Mr. Priyadarshi, Kshitij Joshi, Pujan Soni, Rudra Joshi, Pearl Miglani
54: INTELLIGENT FACE RECOGNITION SYSTEM USING DEEP RECURRENT NEURAL NETWORK
00: -
The present invention relates to the field of a face recognition system (100), and more specifically, to a face recognition system (100) using a convolutional neural network (CNN) and a recurrent neural network (RNN). The intelligent face recognition system (100) using deep recurrent neural network includes a set of sensors (102) to sense one or more attributes associated with a face of a person, a face image acquisition (104) module operatively coupled to the set of sensors (102), for key generation formed of a convolutional neural network (CNN) and a recurrent neural network (RNN) for outputting a consistent key value by using sample facial images of a person, a database (106) for storing facial record, an individual's credential to access the database (106), a storage unit (108) that facilitates machine-readable medium storing instruction that, when executed by the at least one processing unit (110), a processing unit (110) configure to retrieving data from a database and recognize the face, and a communication module to communicate data regarding face recognition.

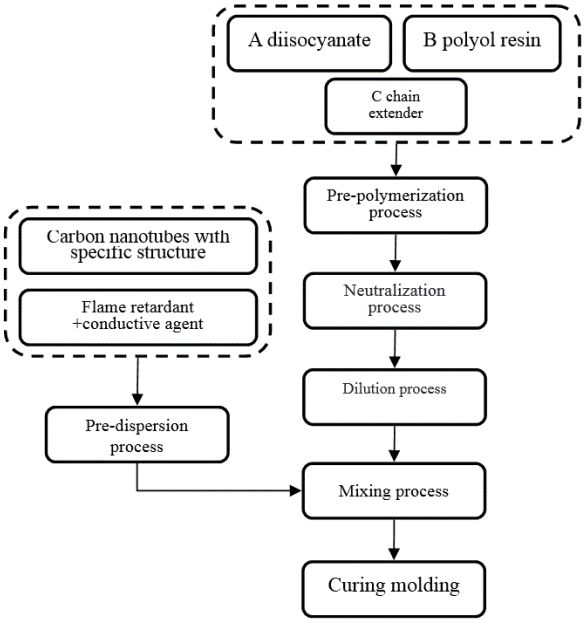


21: 2022/11849. 22: 2022/10/31. 43: 2022/11/30
51: A62B
71: UPBIOCARE S.R.L.
72: MESCHI, Oscar
33: IT 31: 102020000009631 32: 2020-05-04
54: BIDIRECTIONAL REUSABLE FILTERING FACE MASK
00: -
A bidirectional reusable filtering face mask (100) comprises an anatomical base (104) provided with means to promote adherence to the face (105), (106) and pass-through elements (103) for closure by means of ties; a first filtering chamber (102) used to prevent respiratory droplets from spreading and obtained by fixing a removable disposable filter (111) on the outer side of the anatomical base (104); a second filtering chamber (101) comprising a removable dome (112) with a recess (113) in its apical part adapted to accommodate a main removable disposable filter (114); the filter is

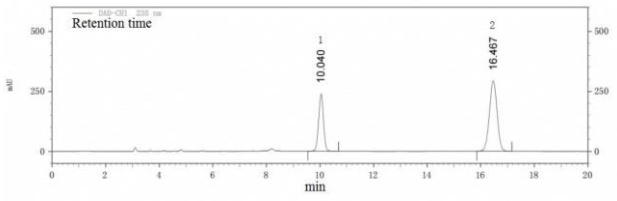
secured to the recess (113) by means of a protective grid (115); means for assembling the components of the second filtering chamber (101) with the first filtering chamber (102).



21: 2022/11875. 22: 2022/11/01. 43: 2022/11/30
51: H01B
71: LI Kexun
72: LI Kexun
54: FLEXIBLE CARBON-BASED/POLYMER COMPOSITE CONDUCTIVE FUNCTIONAL MATERIAL AND PREPARATION METHOD THEREOF
00: -
The invention discloses a flexible carbon-based/polymer composite conductive functional material and its preparation method. According to the invention, the polyurethane resin modification formula is designed based on carbon nano materials with specific structures such as uniform array carbon nanotubes, synchronously adding flame retardant, catalyst, stabilizer, anti-aging agent, etc. to make them well dispersed in the polyurethane resin matrix, so as to obtain the best mixing process treatment conditions, and the conductive shielding function of the carbon nanotubes after being uniformly dispersed and compounded with the resin matrix is mainly realized. Because the metal material is not required, the material of the invention is light in weight and corrosion-resistant. Moreover, the polyurethane-based carbon nano-composite electromagnetic shielding material can be used in the fields of electronic information and household appliances to effectively shield static electricity and electromagnetic radiation (especially in the frequency range of 2 GHz - 18 GHz of electromagnetic waves).

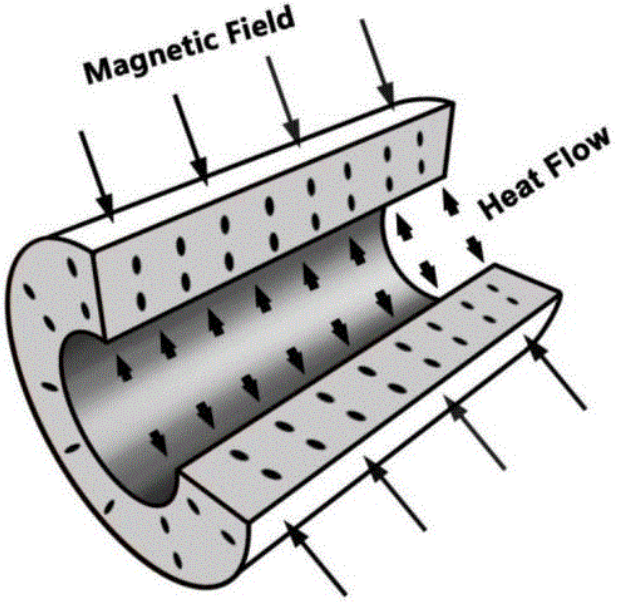


21: 2022/11876. 22: 2022/11/01. 43: 2022/11/30
51: G01N
71: Shandong Academy of Pesticide Sciences
72: LIU Yu, HAN Zengrui, LIU Wei, XU Yumei, WANG Hongyan, LI Ruijuan
54: HLPC METHOD FOR DETECTING MCPA-ISOOCTYL AND FLUROXYPYR-MEPTYL
00: -
The invention belongs to the technical field of pesticide detection, and provides an HLPC method for detecting MCPA-isooctyl and fluroxypyr-meptyl. C18 column is used as chromatographic column, acetonitrile-phosphoric acid aqueous solution with pH of 3-3.5 is used as mobile phase to detect the ultraviolet absorption value at 235 nm, and the mass fraction of MCPA-isooctyl or fluroxypyr-meptyl in the sample solution to be detected is calculated by peak area. The invention can complete that simultaneous detection of MCPA-isooctyl and fluroxypyr-meptyl under the same chromatographic condition, with good separation effect and short peak time, and improves the detection efficiency while ensure the accuracy.

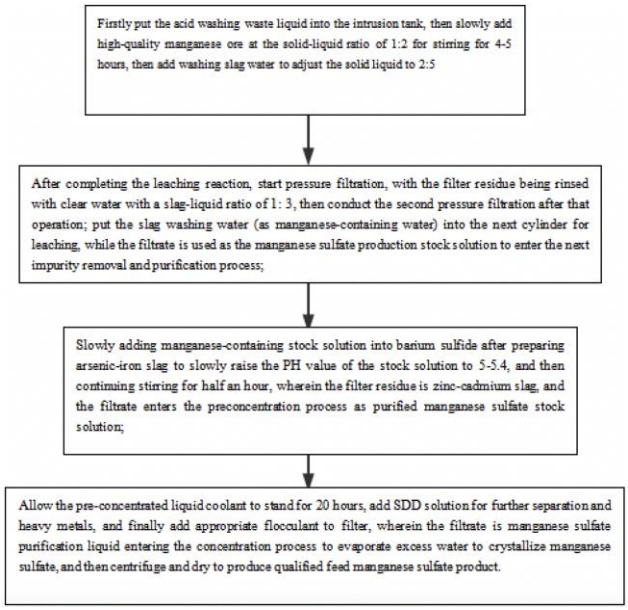


21: 2022/11877. 22: 2022/11/01. 43: 2022/11/30

51: C08L
71: GUANGDONG UNIVERSITY OF TECHNOLOGY
72: ZHANG Jingjing
54: PLASTIC PIPE FOR HIGH-THERMAL CONDUCTIVITY CABLE, PREPARATION METHOD AND APPLICATION THEREOF
00: -
The application belongs to the technical field of plastic pipes, and in particular to a plastic pipe for a high-thermal conductivity cable, a preparation method and application thereof. The preparation method of a plastic pipe for high-thermal conductivity cable, which comprises the following steps: loading Fe3O4 on a heat-conducting filler to obtain a mixture; melt blending and extruding the mixture, the plastic and the coupling agent in a twin-screw extruder to obtain a plastic pipe for high-thermal conductivity cable; the discharge port of the twin-screw extruder is sleeved with an annular electromagnetic device. Fe3O4 can be distributed in the plastic pipe along the radial direction by the annular electromagnetic device. In the application, the prepared thermal conductive filler is directionally arranged in the plastic pipe along the central axis through the induction of the annular magnetic field, so that the radial thermal conductivity and temperature response speed of Fe3O4 magnetic particles in the plastic pipe are improved, and the thermal conductivity of the plastic pipe is improved on the basis of not greatly reducing the mechanical properties of the plastic pipe. The thermal conductive filler can be applied to long-distance power transmission pipelines, which can effectively solve the technical problems of poor thermal conductivity of plastic cables and difficult heat dissipation.



21: 2022/11878. 22: 2022/11/01. 43: 2022/11/30
51: C02F
71: Hunan QingChong New Materials Co., Ltd
72: Wang Jiancun, Chen Changhui
33: CN 31: 202210186508.X 32: 2022-02-28
54: A PROCESS FOR CREATING MANGANESE SULFATE FROM WASTE ACID IN INDUSTRIAL WASTE WATER
00: -
The invention discloses a process for producing manganese sulfate by waste acid in industrial wastewater, a part of technical field of waste water treatment. The process flow comprises the following steps: firstly put the acid washing waste liquid into the intrusion tank, then slowly add high-quality manganese ore at the solid-liquid ratio of 1:2 for stirring for 4-5 hours, then add washing slag water to adjust the solid liquid to 2:5; after the leaching reaction is completed, we start to press the filter. The filtrate is manganese sulfate purification solution and enters into the concentration process to evaporate excess water, and the manganese sulfate crystal is centrifuged and dried to produce qualified feed manganese sulfate product. Manganese sulfate produced by high content manganese ore in the scheme has high added value and less waste residue produced by finished products. In addition, the filter residues in industrial waste water can be concentratedly stacked and layered, and brushed continuously from top to bottom during filtration to ensure that the filtrate adhered to the filter residue is completely discharged.

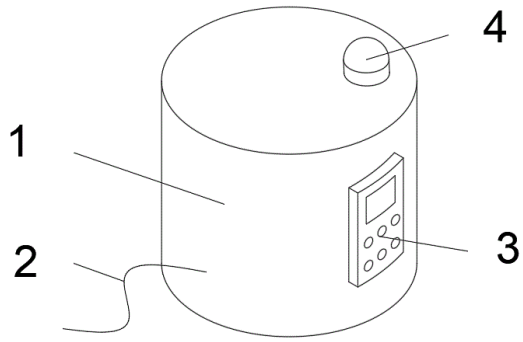


21: 2022/11879. 22: 2022/11/01. 43: 2022/11/30
51: F16M
71: Zhejiang International Maritime College
72: Liu Shuangdong, Yang Qilei, Hao Yongzhi, Zheng Kaiyu, Xu Chao

54: A NEW TYPE OF WATERWAY WATER LEVEL TEST AND ALARM DEVICE

00: -

The invention relates to the technical field of channel water level test, and discloses a novel channel water level test alarm device which comprises a machine body, wherein one side of the machine body is fixedly provided with a connecting line, one side of the connecting line, which is far away from the machine body, is fixedly provided with a detection device, A wat level information comparison module is fixedly arranged at that bottom end of the wat level sensor, a self-discrimination module is fixedly arranged at the bottom end of the water level information comparison module, and a wireless communication module is fixed at the bottom end of a control module. According to the novel channel water level test alarm device disclosed by the invention, the water level is sensed by the water level sensor and then is transmitted to the water level information comparison module for comparison, and then the self-discrimination module is used for self-discrimination of water level conditions; and the sensing is more accurate through the probe, so that the detection accuracy is improved.

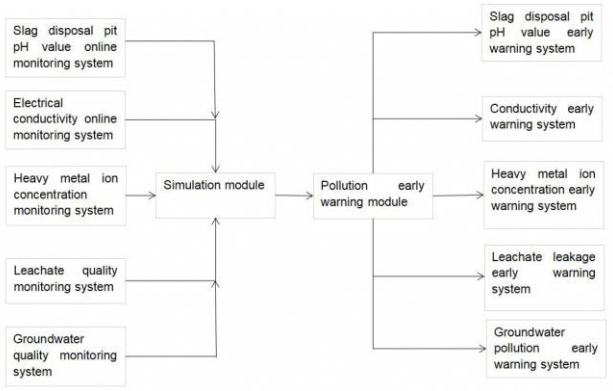


21: 2022/11881. 22: 2022/11/01. 43: 2022/11/30
51: G01N
71: BGRIMM TECHNOLOGY GROUP, China University of Geosciences (Beijing), SINOSTEEL MAANSHAN GENERAL INSTITUTE OF MINING RESEARCH CO., LTD
72: Zhang Hua, Wang Qiong, Yao Jun, Hua Shao Guang, Li Shu Qin, Pei De Jian, Wang Fang, Cui Wei Hua, Wang Da Ya, Yang Yue Qing
33: CN 31: 202210268387.3 32: 2022-03-18

54: AN EARLY WARNING AND EMERGENCY SYSTEM FOR HEAVY METAL POLLUTION IN THE PROCESSING AND SMELTING SLAG DISPOSAL SITE

00: -

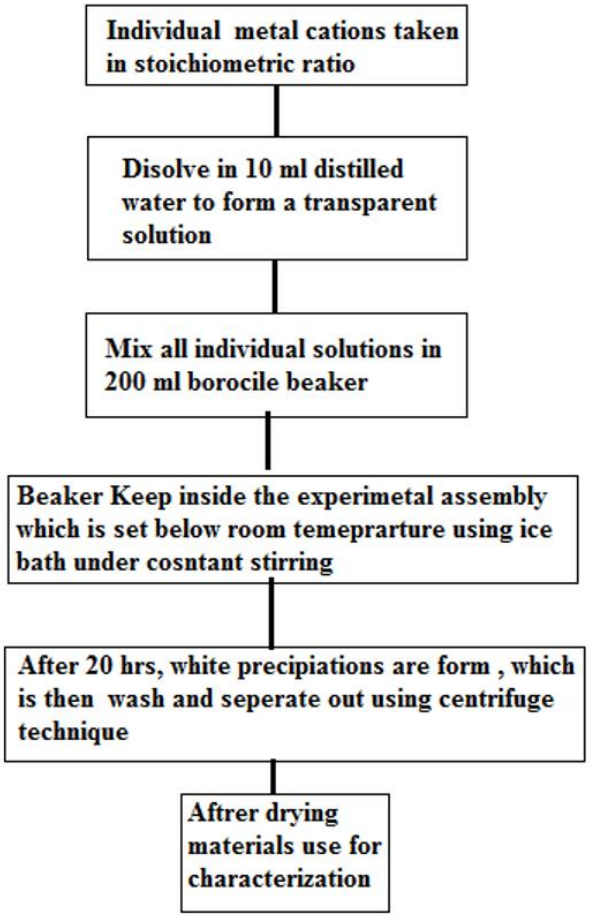
The invention discloses an early warning and emergency system for heavy metal pollution in the processing and smelting slag disposal site, which comprises a pollution online monitoring unit, a pollution early warning unit and a simulation unit; and the online pollution monitoring unit is connected with the pollution early warning unit through the simulation unit. According to the real-time monitoring of the source and surrounding environmental pollution of the southwest nonferrous processing and smelting slag disposal site, the environmental pollution of various slag disposal sites can be warned early in time according to the pollution early warning model of the processing and smelting slag disposal site, so that the environmental pollution risk of the processing and smelting slag disposal site can be timely and effectively controlled.



21: 2022/11882. 22: 2022/11/01. 43: 2022/11/30
51: C09K
71: Beijing General Research Institute of Mining &Metallurgy
72: Wang Fang, Wang Qiong, Zhang Hua, Gao Wenqian, Wu Liangliang
33: CN 31: 202210502195.4 32: 2022-05-09
54: A SOIL IMPROVEMENT MATERIAL, ITS PREPARATION METHOD AND APPLICATION
00: -
The invention provides a soil amendment material, its preparation method and application. Andl the raw materials of the soil improvement materia are calculated in parts by weight, and the raw materials comprise the following: 50-60 parts of the calcined neutralization residue of rare earth separation wastewater treatment, 20-40 parts of biochar and 20-30 parts of bentonite; and the neutralization residue of rare earth separation wastewater treatment refers to the neutralization residue of the lime, and the neutralization residue of the lime is produced by the neutralization treatment of rare earth oxalic acid wastewater with lime. What's more, the method for preparing the soil improvement material comprises the following: mixing the calcined neutralization residue of rare earth separation wastewater treatment, the biochar and the bentonite to obtain the soil improvement material. In addition, the application of the soil improvement material, and the soil improvement material is used for improving acidic soil. The soil improvement material, based on the neutralization residue of rare earth separation wastewater treatment and provided by the application, realizes the resource utilization of mining industrial solid waste, turns waste into treasure, embodies the environmental protection concept of "treating waste with waste", and avoids the occupation of a large amount of land and the environmental impact on the surrounding area by the neutralization residue of rare earth separation wastewater treatment.



21: 2022/11883. 22: 2022/11/01. 43: 2022/11/30
51: B01D
71: SAHOO, Devabrata, SUDE, Shrikant Dnyandev, SALUNKE, Samruddhi Prakash
72: SAHOO, Devabrata, SUDE, Shrikant Dnyandev, SALUNKE, Samruddhi Prakash, SHINDE, Suryapratap Shyam, KHANDELWAL, Ayush
54: A PORTABLE AIR BUBBLE BASED INSECTICIDE DIFFUSER
00: -
The idea of our invention is to spray the crops using bubbles of pesticide solution. This method can directly attack insects which lie on the lower surface of the leaves. The bubbles generated in this diffuser will always try to move upward and the diffuser will be kept at lower heights than crops. This way the bubbles will hit the lower surfaces of leaves and by bursting the insecticide will be spread on the lower surface of the leaves. Above mentioned method is expected to be highly efficient and provide the best results in a minimum time period as the insecticide will be directly in contact with insects. Also it has a very simple mechanism and the PABBID is expected to be very light weight.

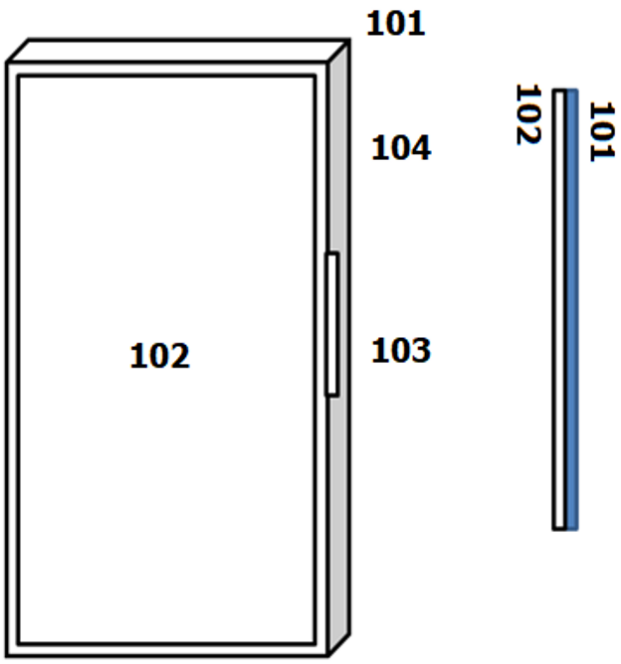


21: 2022/11884. 22: 2022/11/01. 43: 2022/11/30
51: H04W
71: Dr.Buvaneswari Natarajan, Dr.Bose Sundan
72: Dr.Buvaneswari Natarajan, Dr.Bose Sundan

54: MOBILE SAFETY COVER PROTECTION FOR DANGEROUS UNUSABLE MOBILE FREQUENCY

00: -

Mobile is the most significant electronic communication device; it must be used by everyone continuously. Scientists researching mobile technology have found in their study that many types of diseases occur in humans due to the dangerous radiation emanating from mobiles. Considering the technology of mobile, it is essential to solving the above problem; we make such a mobile security cover that is helpful to protect the user from mobile radiation, to protect the user from disease. The present invention disclosed herein is a mobile safety cover protection for dangerous unusable mobile frequency comprising of a rectangular mobile box (101), upper lid (102), opener (103), and copper body (104). The present invention disclosed here protects mobile users from the dangerous unusable frequencies emitted in the form of radiation while using the mobile. The disclosure presents the method of protection by the mobile safety cover from mobile phone radiation and its effects on the mobile user.



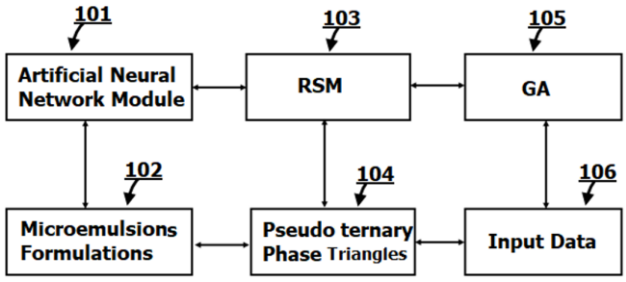
21: 2022/11886. 22: 2022/11/01. 43: 2022/11/30
51: A61K
71: Mr.Satyabrata Jena, Dr.Niranjan Panda, Dr.Satyajit Panda, Dr.Kanchana N.Dussa, Dr.Himansu Bhusan Samal, Mr.Sribatsa Lanchhana Dash, Dr.Bibhuti Bhusana Panigrahi, Mr.Tankadhar Mishra, Dr.Goje Arjun, Mr.Sourab Ghosh
72: Mr.Satyabrata Jena, Dr.Niranjan Panda, Dr.Satyajit Panda, Dr.Kanchana N.Dussa, Dr.Himansu Bhusan Samal, Mr.Sribatsa Lanchhana Dash, Dr.Bibhuti Bhusana Panigrahi, Mr.Tankadhar Mishra, Dr.Goje Arjun, Mr.Sourab Ghosh

54: A DRUG DELIVERY SYSTEM BY USING ARTIFICIAL INTELLIGENCE INTERFACES FOR PREPARING MICROEMULSIONS TO ENHANCE BIOAVAILABILITY

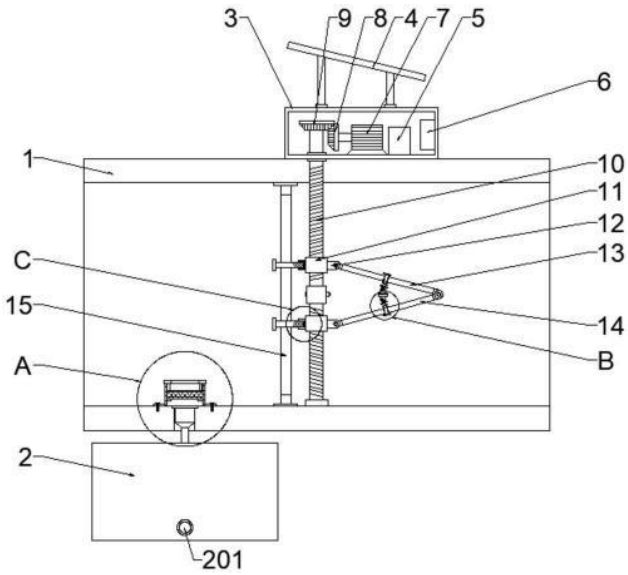
00: -

The present invention discloses a drug delivery system by using Artificial intelligence (AI) interfaces to prepare microemulsions to enhance bioavailability and the working method. In the present invention, developing medication synergy is the first stage. However, the goals of optimization and synergy are fundamentally different; both attempt to improve

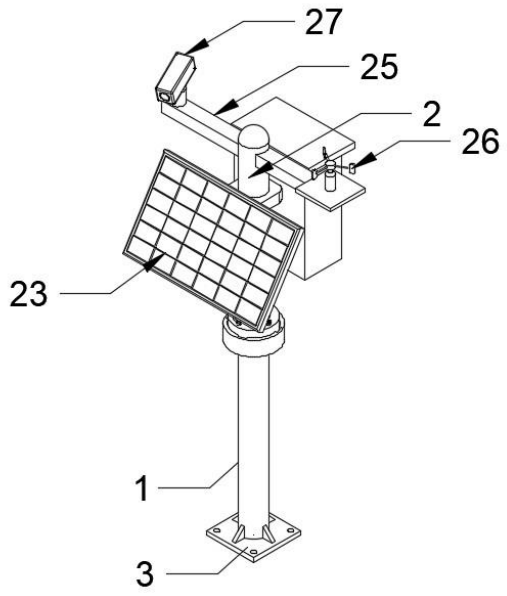
treatment outcomes. The drug and dose parameter space made available by combination therapy design will need to be balanced to optimize treatment globally. The dosages necessary to create therapeutic synergy and the degree of drug exposure required to obtain the most significant therapy outcomes vary widely amongst patients. These elements alter over time for the same patient as well. The advancement of AI will be essential in integrating this region into an efficient treatment response. The current findings mentioned in this study serve as a strong foundation for a redefined combination therapy landscape that will be significantly enhanced.



21: 2022/11915. 22: 2022/11/02. 43: 2022/11/28
51: B01D
71: SHANDAN COUNTY WETLAND PROTECTION STATION
72: CHEN, Yuqin, LU, Yinlu, XU, Fahui, TIAN, Bin, ZHANG, Yuling, MAO, Ying
54: TRENCH-BASED STRUCTURE FOR WETLAND PROTECTION AND RESTORATION AND CONSTRUCTION METHOD THEREOF
00: -
Disclosed is a trench-based structure for wetland protection, restoration and a construction method thereof. The structure comprises a trench body; a water storage tank arranged below the trench body, a water outlet pipe leading from the tank; a shell is arranged at the upper end of the trench body with a solar power generator installed thereon; a battery, a controller and a driving motor are arranged inside the shell; the driving motor is connected with a bevel gear I, which is meshed with a bevel gear II, and the bevel gears are arranged vertically. When in use, an upper and lower filter net rack are rotated, and the angle between the filters increases; thread bushings drive extended bolts to slide along limit holes; and when the angle between the filter is 180°, the motor stops, and the filters blocks impurities in the trench body.



21: 2022/12051. 22: 2022/11/04. 43: 2022/11/23
51: G08B
71: GANSU EARTHQUAKE AGENCY (LANZHOU EARTHQUAKE RESEARCH INSTITUTE), GANSU DESERT CONTROL RESEARCH INSTITUTE
72: WU, Zhen, ZHANG, Huiwen
54: LANDSLIDE MONITORING AND EARLY-WARNING EQUIPMENT
00: -
The present invention provides a landslide monitoring and early-warning equipment, which comprises a bottom supporting body and detection device body. The bottom supporting body comprises a supporting plate fixedly connected with the ground; a supporting column is arranged at the top of the supporting plate; a first connecting block is arranged at the top of the supporting column; a connecting groove is formed in the top of the first connecting block; a fixing groove is formed in the bottom of the connecting groove; a plurality of limiting grooves are further formed in the bottom of the connecting groove in array; clamping grooves are formed in a side wall of the connecting groove in array; the detection device body comprises a mounting column; a fixing block is arranged on a bottom side of the mounting column; a second connecting block is rotationally mounted on a bottom surface of the mounting column.

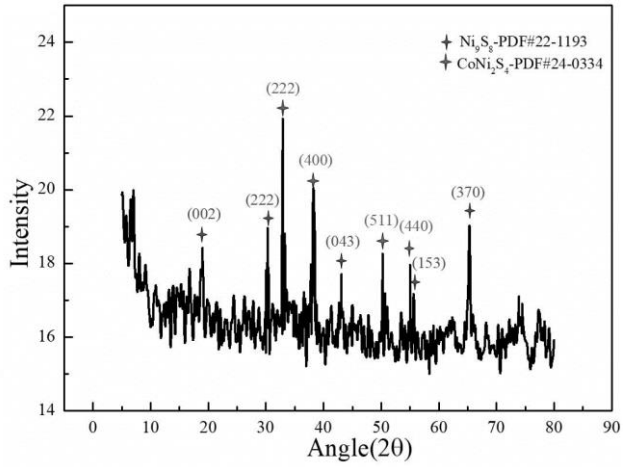


21: 2022/12159. 22: 2022/11/08. 43: 2022/12/05
51: C12N; C12R
71: Xigaze Agricultural and Animal Husbandry Science Research and Extension Center, Shandong Agricultural University, Shandong Province Jinan City Licheng District Ganggou Street Agricultural Comprehensive Service Center, Tibet Gangdise Black Highland Barley Planting Industry Development Co., Ltd.
72: SHI, Xueshuang, ZHANG, Xiaocun, KONG, Fanmei, LI, Shuang, LI, Ping, Bianzhen, LI, Changjie, Pubu Duoji
54: ZINC-ENRICHED LIQUID FERTILIZER FOR HIGHLAND BARLEY IN HIGH-ALTITUDE AREAS
00: -
The present disclosure discloses a zinc-enriched liquid fertilizer for highland barley in high-altitude areas. According to the present disclosure, zinc sulfate heptahydrate, urea, brown sugar and amino acids are weighed according to a certain ratio and added to a fixed amount of water to mix and make liquid fertilizer mother liquor, and diluted according to a certain ratio before use. The prepared diluent is sprayed into the planting environment, so that the diluent can adhere to the leaves of the highland barley seedlings evenly and firmly, so as to achieve the goal of enriching zinc element in the highland barley and improve the nutritional value of crops.

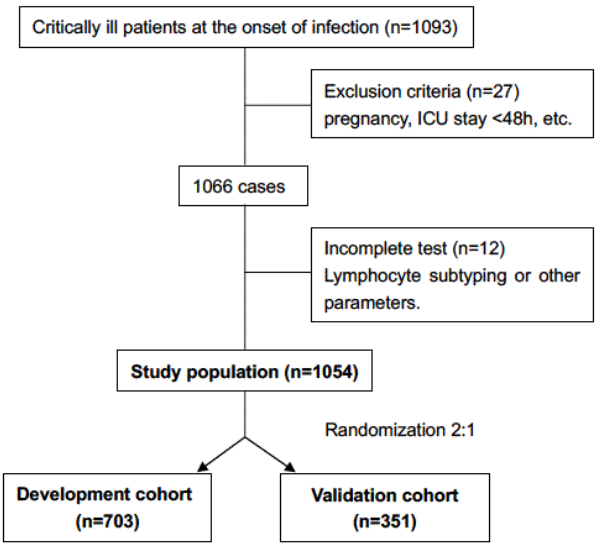
21: 2022/12160. 22: 2022/11/08. 43: 2022/12/05
51: A01C; A01G
71: Xigaze Agricultural and Animal Husbandry Science Research and Extension Center, Shandong Agricultural University, Tibet Gangdise Black Highland Barley Planting Industry Development Co., Ltd.
72: SHI, Xueshuang, ZHANG, Xiaocun, ZHANG, Baoyou, KONG, Fanmei, LI, Shuang, LI, Wenxing, Laba Qiongda, Pubu Duoji
54: SELENIUM-ENRICHED FOLIAR FERTILIZER FOR HIGHLAND BARLEY
00: -
The present disclosure discloses a selenium-enriched foliar fertilizer for highland barley, comprising the following raw materials in parts by weight: 10-20 parts of sodium selenite, 40-100 parts of urea, 20-25 parts of brown sugar, 15-40 parts of amino acids. The selenium-enriched foliar fertilizer of the present disclosure is mainly used for highland barley of high-altitude areas, can quickly supplement nitrogen and selenium elements and provide comprehensive nutrition for crops, and increase the yield and nutritional value of crops.

21: 2022/12161. 22: 2022/11/08. 43: 2022/12/05
51: B01J; C25B
71: Henan University of Urban Construction
72: BAO, Yun, WU, Xuyang, XU, Kaidong, WANG, Jina, WANG, Jin, LU, Wenke
54: METHOD FOR PREPARING TRANSITION METAL PHOSPHIDE OR SULFIDE
00: -
A method for preparing transition metal phosphide or sulfide: weighing a chemical plating agent to form a solution A1; weighing boric acid, NaSO4, transition metal salt and ammonium citrate to form an electroplating solution A2; mixing equal amounts of the solution A1 and the solution A2, stirring to uniformly mix the solutions to form a solution A3; carrying out composite electrodeposition; washing, and drying. In the present disclosure, the catalyst is a needle-like nanomaterial with good crystallinity, and the non-metallic component is only sulfur or phosphorus, which excludes the influence of oxygen or oxygen-containing substances in the electrolyte. A series of efficient, cheap and stable catalysts for hydrogen and oxygen evolution by water electrolysis based on iron, cobalt, nickel, copper and the like are prepared by an electrodeposition method; the series

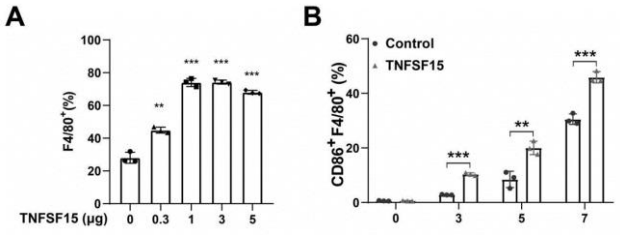
of phosphorus or sulfur doped transition metal carbides are simple to prepare and easy to control.



21: 2022/12163. 22: 2022/11/08. 43: 2022/12/05
51: C12N
71: Peking Union Medical College Hospital, Chinese Academy of Medical Sciences
72: Cui Na, Zhang JiaHui, Du Bin, Li ZunZhu, He HuaiWu, Long Yun, Du Wei, Cheng Wei
54: A RISK SCORING SYSTEM FOR PREDICTING INVASIVE CANDIDIASIS OF CRITICAL PATIENTS BY COMBINING CLINICAL RISK FACTORS AND LYMPHOCYTE SUBTYPES AND ITS ESTABLISHMENT METHOD
00: -
The invention provides the risk scoring establishment method for predicting invasive candidiasis of critical patients by combining clinical risk factors and lymphocyte subtypes, and it relates to the technical field of risk scoring of invasive Candida infection. And the method includes the following steps: S1: studying, designing and selecting the exclusion criteria, and selecting patients' medical records that meet the requirements for research; S2, collecting data, and collecting the detected cell blood sample data; S3, making statistical analysis, and creating a risk scoring system according to the derivation cohort, and validating in the validation cohort. And in the invention, by using the validation cohort to validate the risk scoring system model established according to the derivation cohort, it can effectively expand the generality among various risk prediction models. And by substituting the collected patients data into the model and scoring the risk prediction results of patients, patients can be quickly divided into high-risk group and low-risk group.



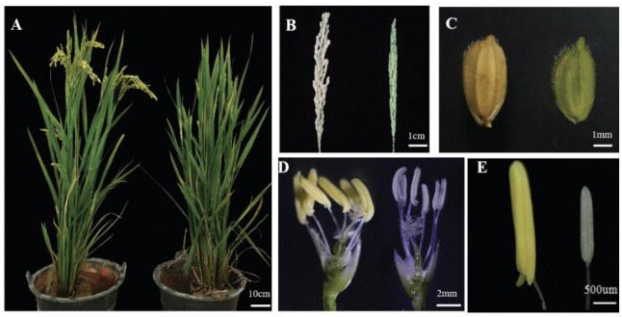
21: 2022/12164. 22: 2022/11/08. 43: 2022/12/05
51: A61K; C12N
71: NANKAI UNIVERSITY
72: ZHANG Qiangzhe, LI Luyuan
54: APPLICATION OF TNFSF15 PROTEIN IN PROMOTING DIFFERENTIATION AND PROLIFERATION OF BONE MARROW STEM CELLS INTO MACROPHAGES
00: -
The invention presents an application of TNFSF15 protein that can promote proliferation of bone marrow stem cells and differentiate them into macrophages. The concentration of the TNFSF15 protein in the proliferation medium is greater than 0, less than or equal to 10 microgram per mL. After obtaining macrophages by using TNFSF15 protein, it can be utilized to perform re-adoptive treatment in clinical related diseases, which provide new ideas for the clinical treatment of macrophage-related diseases in the future.



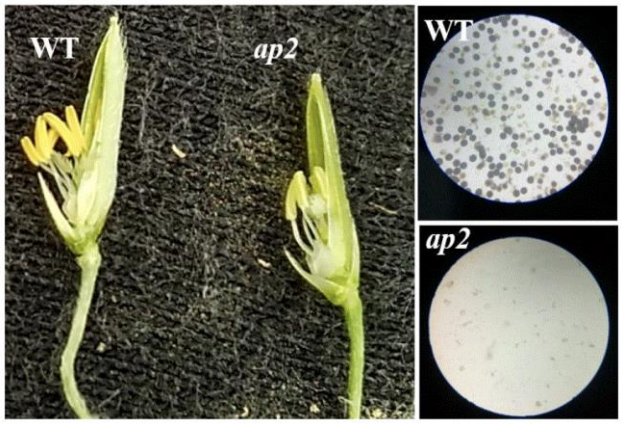
21: 2022/12165. 22: 2022/11/08. 43: 2022/12/05
51: C12N

71: Jiangxi agriculture university
72: He Haohua, Hu xiafei, Hu Lifang, Liu Shiqiang, Jiang Wenxiang, Xu jie, Ouyang Linjuan, Zhou Dahu, Cai Yicong, Li Weixing, Fu Haihui

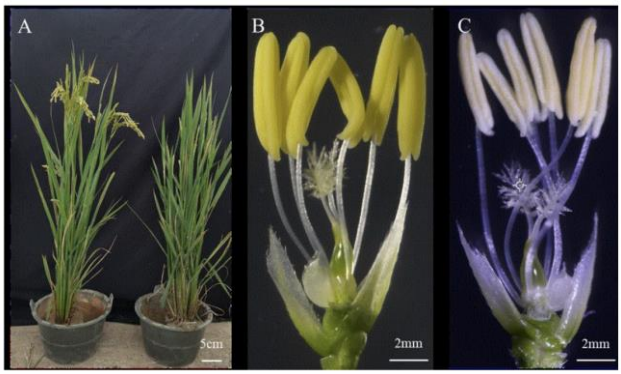
54: A DTP1 GENE SEQUENCE IN CONTROLLING RICE MALE REPRODUCTIVE DEVELOPMENT
00: -
The invention discloses the application of rice male sterility gene DTP1 in regulating the fertility of rice, and belongs to the field of biotechnology. The nucleotide of the male sterile gene DTP1 is shown in SEQ ID NO.1 And the DTP1 gene is changed by conventional methods, so that the expression level of the DTP1 gene is reduced, and then the rice male sterile mutant lines are obtained. The mutant plants with functional defect of DTP1 gene have small white anther, which can't be stained by I2/KI. It can be used as a stable male sterile line and has potential application value in agricultural development.



21: 2022/12166. 22: 2022/11/08. 43: 2022/12/05
51: C12N
71: Jiangxi agriculture university
72: Hu Lifang, Wang Xiaoqing, Liu Shiqiang, He Haohua, Zhou Dahu, Ouyang Linjuan, Xu Jie, Cai Yicong, Fu Haihui, Li Weixing
54: THE APPLICATION OF AP2 GENE IN REGULATING RICE MALE REPRODUCTION
00: -
The invention discloses the application of rice male sterility gene AP2 in regulating the rice fertility, and belongs to the field of biotechnology. The nucleotide of the male sterile gene AP2 is shown in SEQ ID NO.1. By using CRISPR/Cas9 system to construct a plant expression vector with specific knock-out of the target site of rice AP2 gene, the vector is transformed into rice by Agrobacterium, and the mutant plant with functional defect of AP2 gene is obtained. The mutant plant with functional defect of AP2 gene has a small pale yellow anther, which can't be stained by I2/KI. And it can be used as a stable male sterile line and has potential application value in agricultural development.



21: 2022/12167. 22: 2022/11/08. 43: 2022/12/05
51: C12N
71: Jiangxi agriculture university
72: He Haohua, Zhang Zelin, Hu Lifang, Liu Shiqiang, Xu Jie, Cai Yicong, Ouyang Linjuan, Zhou Dahu, Fu Haihui, Li Weixing
54: A DA1 GENE SEQUENCE IN CONTROLLING RICE MALE REPRODUCTIVE DEVELOPMENT
00: -
The invention discloses the application of rice male sterility gene DA1 in regulating the rice fertility, and belongs to the field of biotechnology. The nucleotide of the male sterility gene DA1 is shown in SEQ ID NO.1, and DA1 gene is changed through conventional methods, so that the expression level of DA1 gene is reduced and obtain the rice male sterile mutant line. The mutant plants with defective DA1 gene have small yellow anthers, which can't be stained by I2/KI, so they can be used as the stable male sterile lines, and have potential application value in agricultural development.

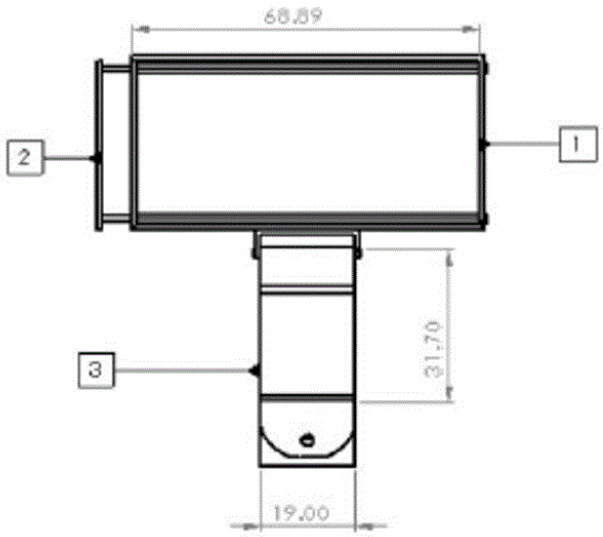


21: 2022/12168. 22: 2022/11/08. 43: 2022/12/05
51: A61B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: SAWARGAONKAR, Samyak, DESHMUKH, Sanket, THAKARE, Vedangini, KORE, Sandeep S., NALAWADE, Dattatraya B., KAMBLE, Dinesh N.

54: MULTIPURPOSE TRAY WITH AN EXTENDABLE HOLDER

00: -

Multipurpose Tray with an Extendable Holder is an invention made to guarantee basic object holding operations which could be easily fitted against a table/study desk. The object basically contains a clamping pin which helps it to stand fitted against the edges of the table/study desk. Further, the device has a small object holding tray and a metal rod having fastening work ensured by the spring fitted inside. The overall system ensures easy fastening of objects and can prove useful to school/college-going students to keep their necessary objects in one place without losing track of them. Besides, as it is having a perk to hold normal-sized things easily in a place together it shows uses in multiple cases beyond doubt.



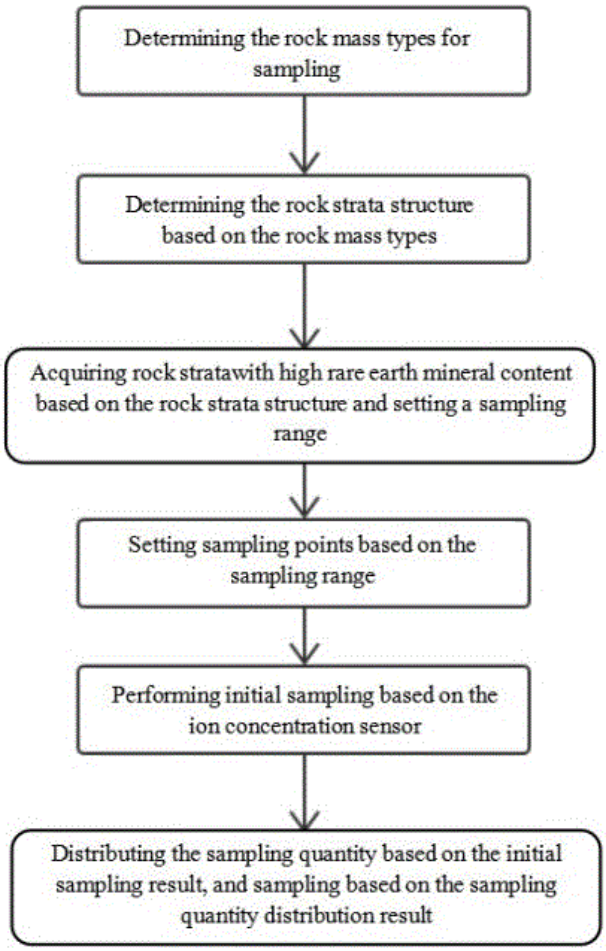
21: 2022/12170. 22: 2022/11/08. 43: 2022/12/05
51: C22B; G01N
71: Guangdong University of Petrochemical Technology, Xianyou Xiandai Middle School of Fujian Province, Guangdong Geological Survey Institute
72: YANG Ruiyi, LI Zitao, YANG Yurong, GUO Min, LIU Jianwei, TAN Junjie, FAN Weiwen, WU Jiewen, XU Xinqi

54: SAMPLING METHOD FOR SIMULATED LEACHING OF RARE EARTH MINERALS

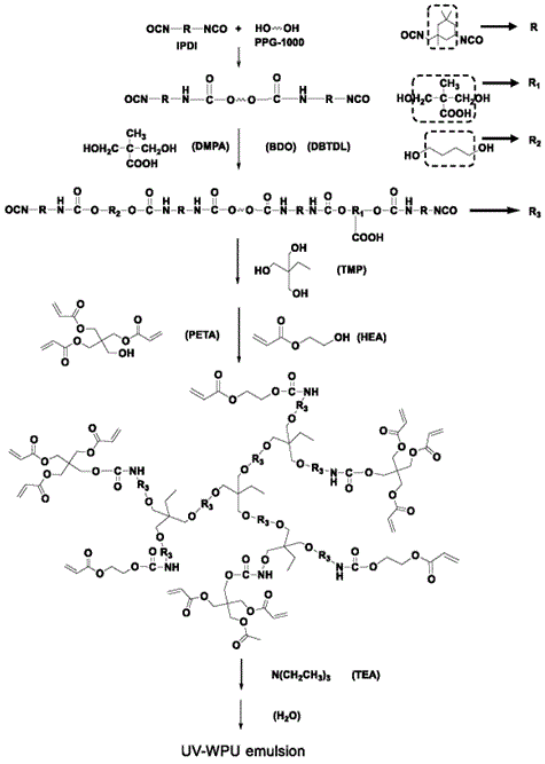
00: -

The invention discloses a sampling method for simulated leaching of rare earth minerals, which comprises the following steps: determining the rock mass types to be sampled; determine rock strata structure based on rock mass types; acquiring rock stratawith high rare earth mineral content based on the rock strata structure and setting a sampling range; setting sampling points based on the sampling range; performing initial sampling based on the ion concentration sensor, distributing the sampling quantity to each sampling point based on the initial sampling result, and sampling based on the sampling quantity distribution result. Firstly, the rock strata structure and rock strata types with high content of ionic rare earth mineral are obtained. By setting the sampling range, the sampling points are set according to the sampling range. When the sampling range is too large, the sampling range is reduced. The ionic solution is diluted to meet the measuring range requirements of the sensor probe, and a curve chart is drawn to show the variation law of each ion in the sampling process. At the same

time, the ratio calculation is carried out after the initial sampling, which is convenient for obtaining accurate ion analysis results.



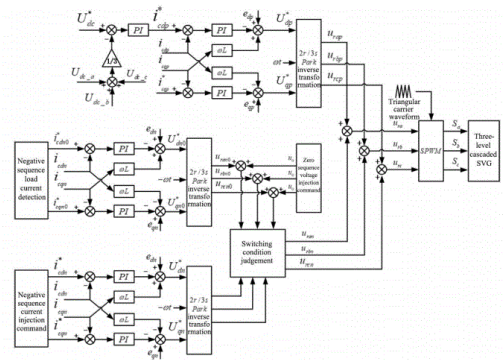
21: 2022/12172. 22: 2022/11/08. 43: 2022/12/05
51: C08L
71: Taiyuan University of Technology, Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering
72: Lan Jia, Nan Yuan, Yanlong Ma, Xiaohong Liang, Heng Zhang
33: CN 31: 202210749627.1 32: 2022-06-28
54: PREPARATION METHOD OF HYPERBRANCHED PHOTO-CURED WATERBORNE POLYURETHANE FILM
00: -
The present disclosure belongs to the technical field of polyurethane film preparation, and particularly relates to a preparation method of a hyperbranched photo-cured waterborne polyurethane film. The preparation method includes two steps of preparing a hyperbranched waterborne polyurethane emulsion and preparing a photo-cured polyurethane film, and the method is simple, and improves a degree of crosslinking. The prepared film is good in mechanical property and high in thermal stability and water resistance, and the application field of waterborne polyurethane coatings is expanded.



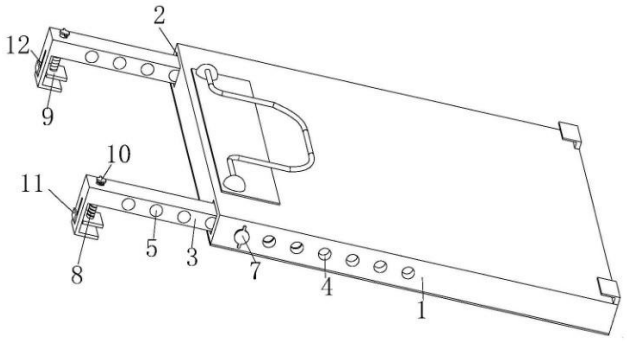
21: 2022/12198. 22: 2022/11/09. 43: 2022/12/05
51: H02J
71: Anhui University of Technology
72: ZHENG, Shicheng, XU, Quanwei, LIU, Hairui, FANG, Si'an, XU, Lei, LANG, Jiahong
54: NOVEL METHOD FOR DC-SIDE VOLTAGE BALANCING CONTROL OF CASCADED SVG
00: -
The present disclosure provides a method for direct current (DC)-side voltage balancing control of a cascaded static var generator (SVG) based on negative sequence current and zero sequence voltage injection. The method includes: initially, subtracting a feedback value of the DC-side voltage of three phases from an average value to get a result; then feeding the result to a PI regulator, and performing a Clark coordinate transformation on the PI regulator's output to obtain a power deviation amount of the three phases; and calculating the

power deviation generated by injected negative sequence current and the zero sequence voltage in the three phases; and then, calculating the expressions of the required injected negative sequence current and the zero sequence voltage.

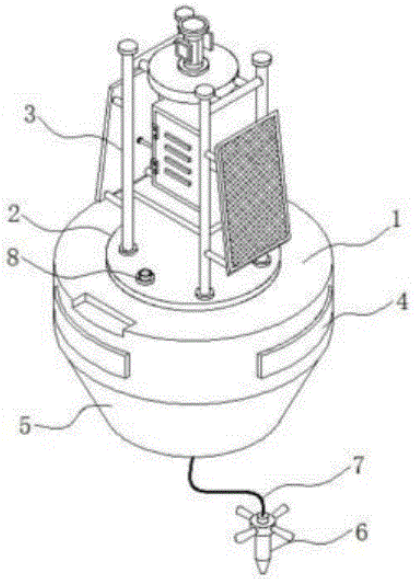
(Figure 2)



21: 2022/12199. 22: 2022/11/09. 43: 2022/11/28
51: G09B
71: CHENG, Yingyue
72: CHENG, Yingyue
54: CHINESE COPYBOOK AUXILIARY BOARD
00: -
Disclosed is a copybook auxiliary board, including a fixed board with fixed grooves on an inner side; each fixed groove is internally connected with a movable rod slidably; a side surface of the board is provided with first mounting holes; the inside of the movable rod is provided with second mounting holes; the first mounting holes and the second mounting holes are internally connected with a fixed threaded rod rotatably through threads; the top of the movable rod is fixedly connected with a fixed lower clamp; the top of the board is fixedly connected with a square block; the side surface of the board is provided with a groove; the top of the board is connected with a bottom block. By arranging the fixed grooves, the rods, and the fixed lower clamps, the board can be adjusted according to specific sizes, to ensure a consistent position.



21: 2022/12200. 22: 2022/11/09. 43: 2022/12/05
51: B63B
71: Ningbo Institute of Oceanography
72: LI, Fan, WANG, Shiwei, MAO, Shuoqian, XU, Yuankai, YANG, Qingchuan, SHAO, Qianwen
54: OCEAN ENVIRONMENT PARAMETER INTEGRATED ADJUSTABLE NAVIGATION MARK MONITORING DEVICE
00: -
The present invention relates to the technical field of monitoring buoys, and particularly to an ocean environment parameter integrated adjustable navigation mark monitoring device comprising a floating platform, a buoy monitoring device body and a floating body, wherein a first opening is provided on an outer wall of the top of the floating platform, an adjustment seat is slidably connected to an inner wall of the first opening, a second sliding groove is provided on both sides of the inner wall of the adjustment seat, a support plate is slidably connected to both inner walls of the second sliding groove, the same support seat is fixedly connected to the top ends of the two support plates, and a second opening is provided on the outer wall of the top of the adjustment seat.



21: 2022/12201. 22: 2022/11/09. 43: 2022/12/05
51: A23B
71: Hainan Tropical Ocean University, Yazhou Bay Innovation Institute Hainan Tropical Ocean University
72: HU Yaqin, XUE Changfeng, PEI Zhisheng, CHIN Yaoxian, HANG Yuyu

54: COMPOSITE PRESERVATIVE FOR INHIBITING MELANOSIS OF LITOPENAEUS VANNAMEI AND APPLICATION METHOD THEREOF

00: -

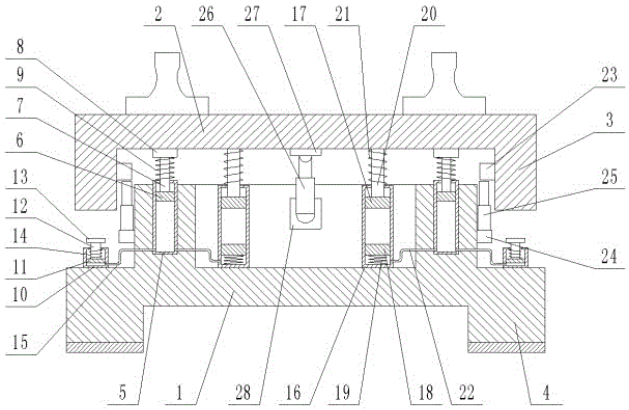
The invention discloses a composite preservative for inhibiting melanosis of Litopenaeus vannamei and application method thereof, and relates to the technical field of aquatic product storage and preservation. The composite preservative is hypotaurine and chitosan, preferably 0.1-20g/L aqueous solution of hypotaurine and 0.2-2 percent acetic acid solution of chitosan. Where, hypotaurine has double effects of oxidation resistance and melanosis resistance, chitosan coating can isolate oxygen, and the combination of the two substances is safe and efficient, which can achieve the inhibition effect of conventional inhibitor sodium metabisulfite. It is an ideal sulfite substitution method, and has a broad market application prospect in the field of aquatic products, especially in the preservation of Litopenaeus vannamei.

21: 2022/12202. 22: 2022/11/09. 43: 2022/12/05
51: E01D
71: China Railway 10th Bureau Group Urban Construction Engineering Co., Ltd., China Railway No.10 Engineering Group Co., Ltd., Shandong University
72: WANG Peng, LUO Mingzu, LIU Jingwang, LIANG Tianle, WANG Peijun, CHU Yanhai, WANG Xiufei, LIU Wei

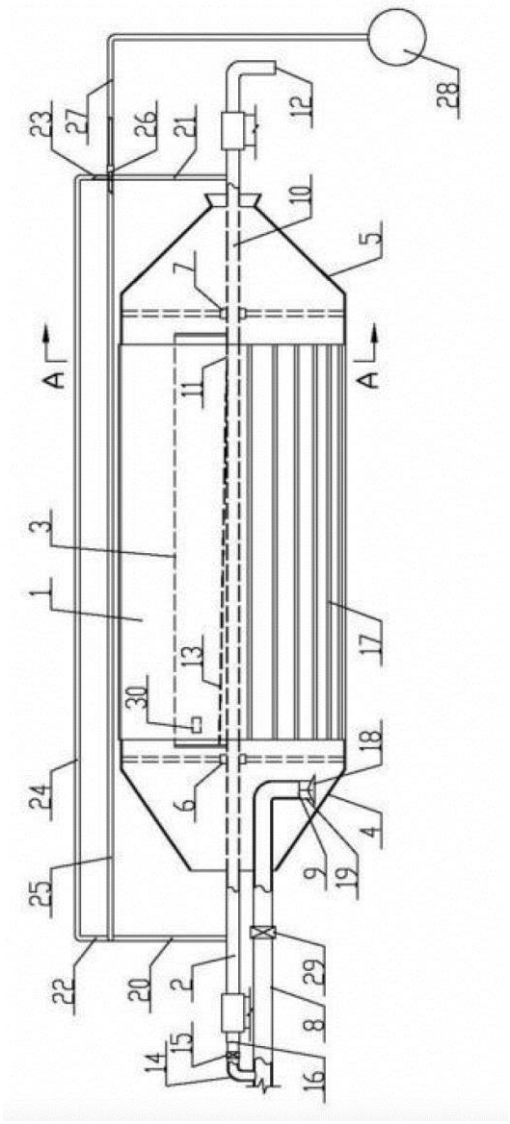
54: SHOCK ABSORBING DEVICE FOR MAIN LINE BRIDGE OF STATION

00: -

The invention discloses a shock absorbing device for main line bridge of a station, which comprises a base plate and a cover plate arranged above the base plate, wherein the bottoms of two opposite ends of the cover plate are fixedly provided with fixed beams, and the opposite side walls of the base plate are provided with protruding parts, and the fixed beams are correspondingly arranged with the protruding parts; the middle part of the top of the base plate is provided with a groove, and the top of the base plate is provided with a plurality of mounting grooves which are all arranged between the groove and the protruding parts, and the first shock absorbing mechanisms are installed in the mounting grooves; a plurality of second shock absorbing mechanisms are installed at the tops of the protruding parts, a plurality of first shock absorbing mechanisms are respectively arranged corresponding to the second shock absorbing mechanisms, and the first shock absorbing mechanisms are communicated with the second shock absorbing mechanisms. Through the arrangement of the first shock absorbing mechanisms and the second shock absorbing mechanisms, the invention can reduce the impact on the floor structure of the station when the train quickly passes through the station, help to prolong the service life of the floor structure of the station, and also reduce the noise caused by the transmission of vibration to the floor structure of the station.

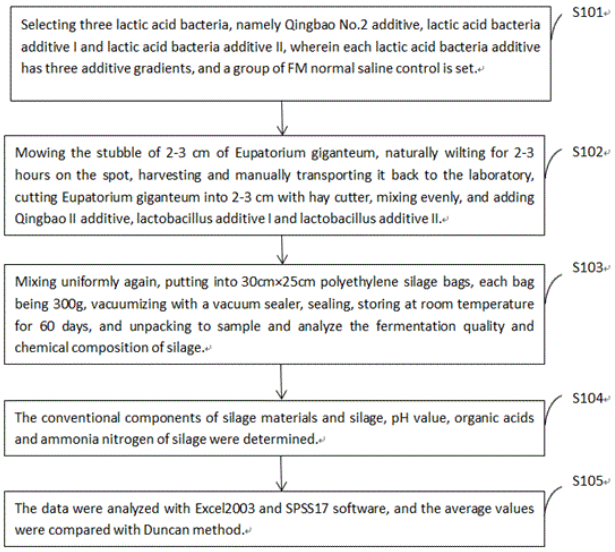


21: 2022/12203. 22: 2022/11/09. 43: 2022/12/05
51: B01D
71: XINJIANG AGRICULTURAL UNIVERSITY
72: TAO Hongfei, LI Qiao, MAHEMUJIANG Aihemaiti, JIANG Youwei, WEI Jianqun
54: SELF-CLEANING DRUM-SHAPED MESH CONTINUOUS FILTER
00: -
The application relates to the technical field of water-saving irrigation filter devices, in particular to a self-cleaning drum-shaped mesh continuous filter, which comprises a filter cylinder, a blowdown rotating shaft, a flushing pipe rack and a sewage collecting groove; the filter cylinder is a transverse cylindrical cylinder whose axis is horizontally arranged; the left end of the filter cylinder is fixed with a left cone ring with a small left and a large right; the right end of the filter cylinder is fixed with a right cone ring with a large left and a small right; a left spindle seat is fixed at the center of the inner cavity at the left end of the left cone ring or filter screen cylinder. The utility model has a reasonable and compact structure, and is convenient to use. The high-pressure water jet from the flushing pipe rack flushes the upper part of the filter screen cylinder and drives it to rotate, which can avoid mesh blockage, prevent the formation of filter cakes, and increase the filtering area. The sewage is continuously discharged through the sewage collecting groove and the blowdown shaft cavity, so that the filtration and blowdown can be carried out at the same time without interference with each other. At the same time, the energy consumption is reduced, and the filtration efficiency is also improved. The utility model can significantly reduce the water head loss and save energy when being used for sediment filtration in front of the pump.



21: 2022/12204. 22: 2022/11/09. 43: 2022/12/05
51: A23C
71: Guizhou University, Sichuan Academy of Grassland Sciences
72: LI, Ping, BAI, Shiqie, CHEN, Chao, CHEN, Liangyin, GOU, Wenlong, YAN, Jiajun, YOU, Minghong, LI, Daxu
54: METHOD FOR INFLUENCING QUALITY OF EUPATORIUM ODORATUM SILAGE BY ADDING DIFFERENT PROPORTIONS OF LACTIC ACID BACTERIA PREPARATION
00: -
The present invention discloses a method for influencing the silage quality of giant grass by adding

different lactic acid bacteria preparations, which comprises the following steps: selecting three lactic acid bacteria, namely Qingbao II additive, lactic acid bacteria additive I and lactic acid bacteria additive II, and setting a group of FM normal saline as a control; Mow stubble 2cm-3cm of Eupatorium fortunei, naturally wilting for 2h-3h on the spot, harvesting and manually transporting back to the laboratory, cutting Eupatorium fortunei into 2cm-3cm with hay cutter, uniformly mixing, and adding Qingbao II additive, lactobacillus additive I and lactobacillus additive II; Mix them evenly again, put them into 30cm×25cm polyethylene silage bags, each bag is 300g, vacuum sealed by vacuum sealing machine, stored at room temperature for 60 days, unpacked and sampled to analyze the fermentation quality and chemical composition of silage; Measuring the conventional components of silage raw materials and silage, pH value, organic acid and ammonia nitrogen of silage; Data were analyzed by Excel2003 and SPSS17, and the average values were compared by Duncan method. The present invention improves the silage efficiency of Eupatorium odoratum.



21: 2022/12207. 22: 2022/11/09. 43: 2022/12/05
51: A23K
71: Henan Agricultural University
72: SHI, Yinghua, LIU, Boshuai, SUN, Yu, CUI, Yalei, XU, Feng, LIU, Mengqi, NIU, Jiakuan, LA, Shaokai, ZHU, Xiaoyan, WANG, Zhichang, SUN, Hao

54: ALFALFA TYPE COMPLETE PELLET FEED CAPABLE OF ENHANCING INTESTINAL MICROECOLOGICAL BALANCE TO REDUCE DIARRHEA RATE OF PIGLETS

00: -

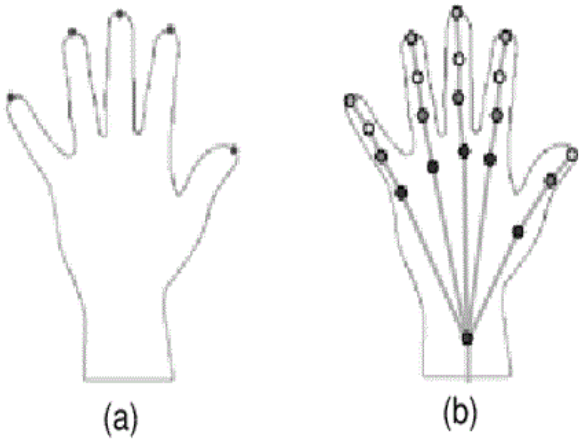
The present disclosure provides an alfalfa type complete pellet feed product for piglets.

21: 2022/12208. 22: 2022/11/09. 43: 2022/12/05
51: G06F
71: TANTARPALE, Sharvari Rita Shrikant, DESHMUKH, Chandrashekhar Nandkumar
72: TANTARPALE, Sharvari Rita Shrikant, DESHMUKH, Chandrashekhar Nandkumar, INGOLE, Vijay Tulsiram, PUND, Mahendra Abarao

54: A PATTERN RECOGNITION METHOD FOR IDENTIFICATION OF DEVNAGARI SCRIPT BASED ON FINGERTIPS AND PALM

00: -

Devanagari is not an alphabet; it is a ‘Syllabary’ (Dwivedi, 1990) or an alpha-syllabary (Bright, 1996). The Devanagari script, composed of 47 primary characters including 14 vowels and 33 consonants, is one of the most adopted writing systems in the world, being used for over 120 languages. It is a current technique which will prove to be more useful for the visually impaired, dumb and deaf individuals. Although, many researchers fail in addressing this concept, so an algorithm is proposed to track palm and fingertips based on images with depth data in real-time. Hand gestures is then recognized by the detected palm and fingertips. The images with depth information are first captured by a Kinect camera. Then foreground and background are separated to pick up the potential hand. The fingertips are then detected by the curvature of the hand boundary. Thus results as a positive outcome on society, communication for such differently able individuals become effortless and innovative.



21: 2022/12209. 22: 2022/11/09. 43: 2022/12/05
51: G06Q
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh M., JANOKAR, Sagar, INGOLE, Tejas, IRAKATE, Swapnil, IRAMANI, Harsh, VENIKAR, Isha, ITHAPE, Sankalpa
54: AN ONLINE SYSTEM FOR LINKING NGOS WITH FAMILIES OF COVID VICTIMS
00: -
In covid pandemic many children and families which are lost their parents and breadwinner. They are not getting the proper help they should be getting in this time of crisis. This is mainly because of the unawareness of the common people about the NGOs and schemes made for helping them. Many such families and orphans are suffering from this everyday To develop an interface system which will act as a bridge between the orphans/families of covid victims and the NGOs which are going to help them.

21: 2022/12210. 22: 2022/11/09. 43: 2022/12/05
51: A01G
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: DESHPANDE, Rupali S., PATWARDHAN, Milind M., THAKUR, Arjun P.
54: SOLAR OBSTACLE AVOIDING VEHICLE WITH SOLAR SPRINKLER
00: -
This invention presents an idea of a water management irrigation model based on solar energy which ensures minimal loss of water. The major focus is to increase the use of smart and clean energy in the field of agriculture. It involves the use of sensors for automation. The sensors are infrared sensors used to avoid the obstacles in the path of vehicles. In the irrigation part of the model, sprinkler heads along with a water pump, a water storage tank, and electromagnetic valve are used. The flow of water through the sprinkler can be controlled as per the requirement using the electromagnetic valve.

21: 2022/12211. 22: 2022/11/09. 43: 2022/12/05
51: G06M
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: SAWANT, Sachin S., BHATELE, Priyanka, MAHAJAN, Divya, MAHAJAN, Bhushan, MAHAJAN, Divesh, MAHAJAN, Nikhil, MAHAJAN, Prasad
54: A NOVEL SYSTEM FOR OBJECT COUNTING
00: -
The present invention is directed to a novel system for object counting. Object counting has huge applications where automation is to be introduced and time of counting is to be reduced. Some of the main applications of object counting are surveillance, crowdedness estimation, product counting, and traffic flow monitoring. Object counting algorithm can be also used to track and detect objects. The model has been tested on various images and videos. This model counts people, vehicles, animals and some other common objects in COCO dataset.

21: 2022/12212. 22: 2022/11/09. 43: 2022/12/05
51: H04L
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: SAWANT, Sachin S., BHATELE, Priyanka, MAHESHWARI, Anay, MAHAJAN, Richa, MAHALE, Swayamprakash, MAHALE, Zelam, MAHANKALIWAR, Shrirang, MAHATME, Tanish
54: A SYSTEM FOR REAL TIME SPEECH RECOGNITION AND TEXT CONVERSION
00: -
Realtime speech recognition, more commonly known as Automatic speech recognition (ASR), is a process of interpreting human speech in a computer. The main goal of the Speech recognition system is to get ways for humans to communicate with computers. Passing on information to the right person and in the correct manner is very important. This research paper, aims to shift the focus from the physical act of writing and typing to that of expression and organization of thoughts and

knowledge and enable everyone to generate text output that better represents their innovative skills using real-time speech to text.

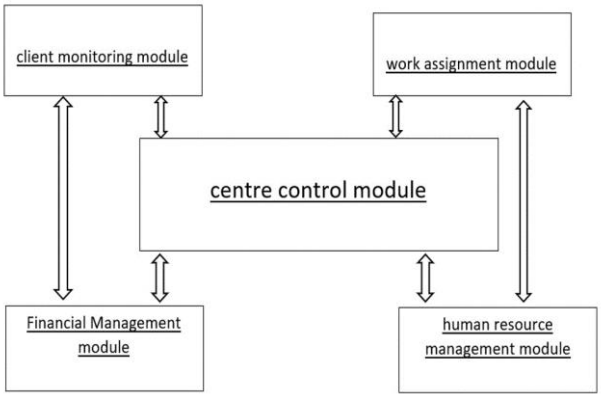
21: 2022/12213. 22: 2022/11/09. 43: 2022/12/05
51: G08B
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh M., BHATELE, Priyanka, KHINVSARA, Pratham, MASKE, Pranita, DHORE, Prathamesh, KORADE, Pratham, BANSODE, Prasannata, JADHAV, Pratik
54: DRIVER DROWSINESS DETECTION SYSTEM
00: -
As we all know that the progress within the industry has made life easier for us, and also risky because the traffic accidents have steadily increased. an outsized number of automobile accidents are caused and thanks to various reasons out of which the most cause is thanks to drowsiness of the driving force. Many drowsiness detection methods are made and tested for the security of the driving force and other people travelling with them. Several feature types are utilized in CNN-based drowsiness detection. during this study, we presented a test using CNN a man-made neural network which is essentially used for image processing, classification, segmentation and also for other auto correlated data. Drowsiness affects people lifestyle that results in inefficient work or car accidents thanks to insomnia resulting damage to life and property. Especially, it can go to pot when it happens to public transportation. because the author works in Department of Land Transport (DLT), drowsiness may be a one among the very best factors causing the car accidents. Therefore, thanks to this concern, effective detection of drowsiness system is performed. the aim of this paper is to develop algorithm to research face structure of the driving force by taking live video media and detecting drowsiness. Also, the system is conducted to look at Algorithm’s efficiency. The result shows that using facial landmarks can help to get eyes component effectively, which may help to make equations to detect drowsiness correctly.

21: 2022/12214. 22: 2022/11/09. 43: 2022/12/05
51: G06Q
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: DHAKE, Rajesh J., BHATELE, Priyanka, KUMAR, Prachi, PRAJAPATI, Ritesh, NANNWARE, Pranay, PRABHU, Parth, POWAR, Sneha
54: A SYSTEM FOR CREDIT CARD FRAUD ANALYSIS USING MACHINE LEARNING
00: -
The identification of credit card fraud is currently the most common problem in the modern world. This is because internet transactions and e-commerce platforms are on the increase. Credit card fraud occurs when a credit card is stolen and used for unlawful reasons, or when a fraudster exploits the credit card information for his own objectives. In today's society, we're dealing with a lot of credit card issues. A credit card fraud detection system was created to detect fraudulent actions. The goal of this research is to concentrate on machine learning methods. The algorithms used are random forest classifier and Kmeans clustering, logistic regression, supervised classifier, unsupervised algorithm. The results of the these algorithms are based on accuracy, precision, recall, outliers area under precision curve. Confusion matrix is plotted based on the prediction score. The supervised and unsupervised algorithms are compared and the algorithm that has the greatest accuracy, precision, recall, and area under precision curve is considered as the best algorithm that is used to detect the fraud. surcharges, and fewer perks. As a result, it is in both the banks' and cardholders' interests to prevent unauthorised credit card use through early fraud identification. Therefore, Data scientists are being approached by credit card firms in order to discover a better answer to this problem. To address this issue, we developed a model that detects fraudulent transactions and alerts businesses and cardholders. Both supervised and unsupervised learning approaches can be used to create this model. To train our system using supervised learning approaches, we require labelled data. We may classify outlier transactions as fraudulent transaction using unsupervised learning algorithms. Worldline and ULB's Machine Learning Group collaborated on big data mining and fraud detection research, using Kaggle datasets to develop a better model for tagging fraudulent credit card transactions, hence we will be doing the same using their dataset.

21: 2022/12215. 22: 2022/11/09. 43: 2022/12/05
51: A01G
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh M., BHATELE, Priyanka, PATIL, Vaishnavi, VANAGE, Varad, DESHPANDE, Vaishnavi, MAHURKAR, Vaishnavi, VAISHNAV, Prathamesh
54: SOIL MONITORING AND WATERING SYSTEM CONTROL BY AN APPLICATION
00: -
The systematic irrigational practices based on the monitoring of the soil moisture provides a large benefit to the farmers by showing the appropriate amount of water in the fields. This paper provides design and development of a soil monitoring and watering system controlled by an application. The response monitoring system measures the moisture present in the soil with the help of an application. It helps to resolve the issues faced by farmers by providing accurate amount of water required to grow the crops.

21: 2022/12216. 22: 2022/11/09. 43: 2022/12/05
51: G08B
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh M., BHATELE, Priyanka, JHAMTANI, Prishita, KAMALAPURE, Prithiviraj, WAGH, Preeti, PUKALE, Priti, WAGHMARE, Pranav, BHISE, Pratik
54: ALCOHOL SENSING ALERT SYSTEM WITH ENGINE LOCK AND ALARM
00: -
We usually bump into drink and driving cases where drunk drivers crash their cars under the influence of alcohol causing damage to property and life. So here we've proposed an innovative system to eliminate such cases. Where the system would be constantly monitoring the person on driver's seat and examine the alcohol content and lock the engine if found more than the certain limit.

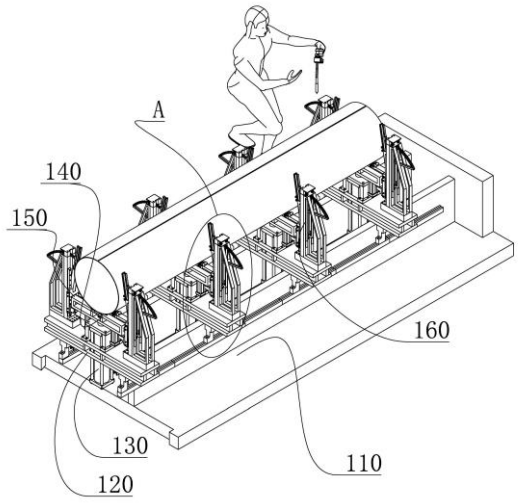
21: 2022/12218. 22: 2022/11/09. 43: 2022/12/05
51: G06F
71: Kakade, Prof. Revannath Babanrao, Joshi, Dr. Apoorva, Jha, Dr. Nishikant, Gautam, Dr. Shikha, Yadav, Dr. Kusum, Reddy, Dr. Algubelly Yashwanth, Azam, Dr. Mohammed, Guntu, Ravi Kumar, Rahi, Dr Pankaj, Sharma, Ambrish Kumar, Jaiswal, Tarun, Tiwari, Mohit, Mamodiya, Udit
72: Kakade, Prof. Revannath Babanrao, Joshi, Dr. Apoorva, Jha, Dr. Nishikant, Gautam, Dr. Shikha, Yadav, Dr. Kusum, Reddy, Dr. Algubelly Yashwanth, Azam, Dr. Mohammed, Guntu, Ravi Kumar, Rahi, Dr Pankaj, Sharma, Ambrish Kumar, Jaiswal, Tarun, Tiwari, Mohit, Mamodiya, Udit
54: INTELLIGENT SYSTEM FOR STRATEGIC FLEXIBLE MANAGEMENT OF FRAMEWORK OF SMALL- AND MEDIUM-SIZED ENTERPRISES BASED ON IOT & MACHINE LEARNING
00: -
The present invention relates to Intelligent system for Strategic Flexible Management of Framework of Small- and Medium-Sized Enterprises based on IOT & Machine Learning. The objective of the present invention is to solve the problems in the prior art technologies related to functionality, data and proceedings computerized management of the small firm.



21: 2022/12219. 22: 2022/11/09. 43: 2022/12/05
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: RAIKWAR, Rajesh G., BHATELE, Priyanka, MAHAJAN, Abhinav, MAHAJAN, Arya, MAGAR, Akshay, MAGDUM, Suyog, MAGAR, Snehal
54: A NOVEL CAR RACING SYSTEM FOR MENTAL EXERCISE
00: -
The present invention relates to a novel car racing system for mental exercise. This is simple and it is developed by using computer programming language - Python. Developing system in Python is easy comparable to any other computer programming language. System improve our concentration level, it is a way of entertainment and

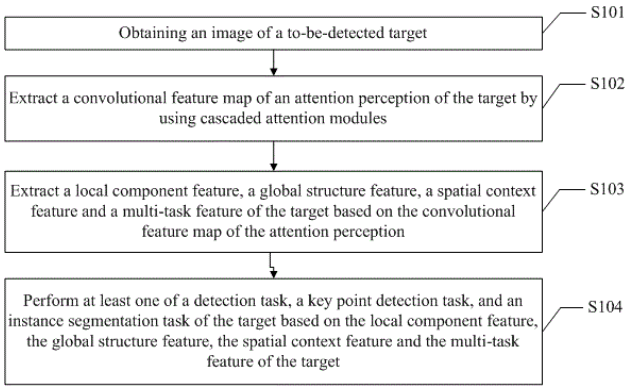
a fun activity to spend time. The system starts as a car runs automatically and the user has to save himself from the enemy cars coming from the opposite direction.

21: 2022/12220. 22: 2022/11/09. 43: 2022/12/05
51: B23K
71: Yiwu Industrial and Commercial College
72: GUANG MA, XUJIANG YU, YANG ZHAO
54: A KIND OF WELDING TOOL FOR LONGITUDINAL SEAM OF THIN-WALLED CYLINDER
00: -
The invention relates to a tool for welding the longitudinal seam of a thin-walled cylinder, which is used for welding and clamping the longitudinal seam of a thin-walled cylinder component, so that the longitudinal seam of the cylinder component is in the upper position, the lower part has support for the cylinder component, and the clamping force is given on both sides, and the clamping devices on both sides and the lower support device operate synchronously to form a self centering clamping device, the main components include a seat, Several jacking clamping mechanisms arranged on the seat body, as well as lifting adjusting members and lateral thrust members arranged in the jacking clamping mechanism. The cylinder welding tooling of the invention has a certain universality, and the adjustment range is linear. It provides simultaneous clamping action at the lower and lateral sides synchronously, and has a mechanical locking structure after clamping. The locking structure is self-locking, that is, the cylinder can be locked automatically with the clamping action, and can be reset without other actions when unlocking. The tooling is open before clamping and after resetting, and provides convenient loading and unloading space.



21: 2022/12239. 22: 2022/11/09. 43: 2022/12/05
51: G06K
71: OBJECTEYE (BEIJING) TECHNOLOGY CO., LTD.
72: Jinqiao WANG, Chaoyang ZHAO, Yousong ZHU
33: CN 31: 202010422038.3 32: 2020-05-18
54: MULTI-TASK OBJECT DETECTION METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM
00: -
The present invention is applied in the technical field of image processing. Disclosed are a multi-task object detection method and apparatus, an electronic device, and a storage medium. An attention-aware convolutional feature map of a target is extracted using cascaded attention modules, so that attention-aware convolutional features of a whole image can be generated from coarse to fine, to suppress interference of background noise. A local component feature, a global structure feature, a spatial context feature, and a multi-task feature of the target are extracted on the basis of the attention-aware convolutional feature map, and at least one of a detection task, a key point detection task, and an instance segmentation task of the target is implemented on the basis of the local component feature, the global structure feature, the spatial context feature, and the multi-task feature of the target. A global structure, local components, and context information of the target can be effectively associated to form a structured feature expression, thereby enhancing the robustness of the features to

shielding, deformation, postures, etc., and improving the multi-task performance.

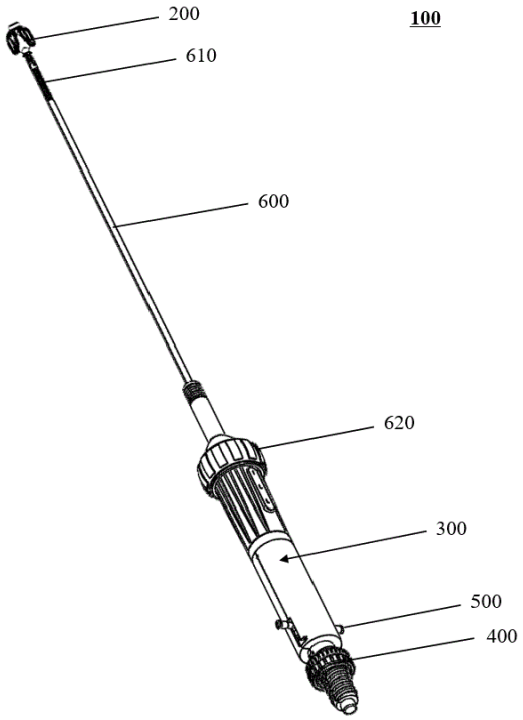


21: 2022/12249. 22: 2022/11/09. 43: 2022/12/05
51: A61F
71: SHANGHAI NEWMED MEDICAL CO., LTD.
72: WANG, Haishan, YU, Qifeng, QIN, Tao
33: CN 31: 202010390972.1 32: 2020-05-11
33: CN 31: 202010581915.1 32: 2020-06-23

54: MITRAL VALVE REPAIR DEVICE AND CONTROL HANDLE THEREOF

00: -

The present disclosure discloses a control handle, which includes an outer clamp arm control mechanism and an inner clamp arm control mechanism. The outer clamp arm control mechanism may be configured to control the movement of an outer clamp arm of a tissue clamping device, and include a sleeve, a first control part, and a sliding part. The sliding part may be disposed in the sleeve. The first control part may rotate to drive the sliding part to move in the sleeve along a length direction of the sleeve, so as to control the opening and closing of the outer clamp arm. The inner clamp arm control mechanism may be configured to control the movement of an inner clamp arm of the tissue clamping device, and include a housing and a second control part. The second control part may pass through and move along a second sliding groove to control the opening and closing of the inner clamp arm relative to the outer clamp arm.



21: 2022/12497. 22: 2022/11/16. 43: 2022/11/30
51: A01G
71: NANCHANG INSTITUTE OF TECHNOLOGY
72: ZHANG, Haina, LU, Xianghui, CHEN, Zhiqi, YANG, Baocheng, GONG, Rongxin

54: A SEED GERMINATION PROMOTER SUITABLE FOR VEGETATION RESTORATION IN RARE EARTH TAILINGS, A PREPARATION METHOD AND A USE METHOD

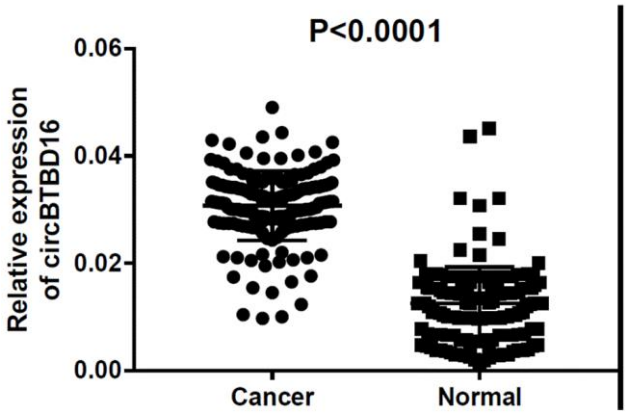
00: -

The present invention belongs to the technical field of plant seed germination promoter, in particular to a preparation method of seed germination promoter and use method thereof. The said seed germination promoter is prepared by the following raw material components in parts by weight: 30-45 parts of animal dung, 30-45 parts of wheat bran, 15-20 parts of rice milk, 1-5 parts of 0.1mol/L PBC buffer solution, 0.01-0.05 part of gibberellin and 0.1-0.3 part of additive; Wherein, the said rice milk is prepared by the steps of evenly mixing rice and water according to a mass ratio of 1:10, boiling for 30-40min, filtering while it is hot and collecting the filtrate; The said additive is a bactericide, activated carbon or a surfactant. The seed germination promoter disclosed by the present invention can improve the germination rate of seeds for vegetation restoration in mining areas, such as festuca

arundinacea, ryegrass, broadleaf paspalum and the like, shorten the required time for germination and has a water retention effect and a pH buffer effect.

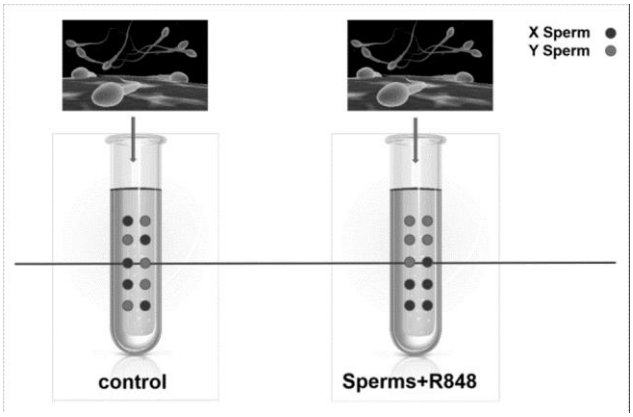
21: 2022/12498. 22: 2022/11/16. 43: 2022/11/30
51: A23L
71: SHANDONG ACADEMY OF GRAPE
72: SHI, Hongmei, GUO, Yayun, LIANG, Hongmin, WANG, Zhe, GAO, Deyan, HE, Yi
54: A PREPARATION METHOD OF FRUIT-FLAVORED GRAPE-MULBERRY HEALTHCARE WINE
00: -
The present invention relates to the technical field of healthcare wine brewing, in particular to a Preparation method of fruit-flavored grape-mulberry healthcare wine. The preparation method of the present invention comprises the steps of: putting completely ripe grapes and mulberries into a sodium bicarbonate solution and soaking for 12-15min, fishing out, washing with clean water; crushing the cleaned and grapes and mulberries to obtain mulberry pulp and grape pulp respectively, uniformly mixing the mulberry pulp and the grape pulp after the fruit stems are removed, adding 20g/HL of active dry yeast, and carrying out fermentation at 15-20°C. The present invention can not only reduce the harm of the pesticide residues to the health of drinkers, but also can ensure the taste of the prepared grape-mulberry healthcare wine.

21: 2022/12547. 22: 2022/11/17. 43: 2022/11/30
51: C12Q
71: ZHENJIANG FIRST PEOPLE'S HOSPITAL
72: Yu FAN, Xiaoyan WANG, Xu GAO, Yakun LANG, Wei XU, Yimeng SUN, Pei WANG, Yu JIE, Baoping ZHU
54: APPLICATION OF CIRCULAR RNA AS MOLECULAR MARKER FOR POOR PROGNOSIS OF GASTRIC CANCER, AND ASSAY KIT AND PRIMER
00: -
The present disclosure relates to the technical field of diagnostic markers and diagnostic systems for cancers, in particular to the application of a circular RNA (cirRNA) as a molecular marker for poor prognosis of a gastric cancer, and an assay kit and a primer. It was found that circBTBD16 was significantly up-regulated in gastric cancer tissues by a study on the differential expression of the cirRNA in gastric cancer tissues and normal tissues adjacent thereto. Following validating the manifestation in large biological samples, the inventor designed a primer pair for Quantitative Real-time Reverse Transcription Polymerase Chain Reaction (RT-qPCR) assay, and established a test method for the cirRNA. It was found that the cirRNA may not only serve as a biomarker for diagnosis of gastric cancer, but also indicate the treatment effect assessment and prognosis of gastric cancer by analysis on clinical indicators. This technical solution overcomes the technical problem that there is a lack of a biomarker for early diagnosis and prognosis of gastric cancer in the prior art. In the technical solution, the test method is simple, the invasion of sample collection is minimal, and the application prospect is broad.



21: 2022/12690. 22: 2022/11/22. 43: 2022/11/30
51: C07K
71: BEIJING UNIVERSITY OF AGRICULTURE, BEIJING REKE ZHONGYI TECHNOLOGY CO., LTD
72: Xiangguo WANG, Longfei XIAO, Xiaojie WANG
54: A UNIVERSAL SEPARATING X- AND Y-BEARING SPERM SEPARATION LIQUID FOR MAMMALS AND A USE METHOD THEREOF
00: -
The present invention relates to the technical field of separating X- and Y-bearing sperms, in particular to a universal separating X- and Y-bearing sperm separation liquid for mammals and a use method thereof. The universal separating X- and Y-bearing sperm separation liquid for mammals provided by the present invention comprises a sex control separation liquid and an insemination auxiliary liquid. The present invention can realize the separation of

X- and Y-bearing sperms rapidly with high efficiency and safety by inhibiting the vitality of X-bearing sperms through the activation of TLR7/8.



21: 2022/12691. 22: 2022/11/22. 43: 2022/11/30
51: C04B
71: SHANDONG JIAOTONG UNIVERSITY
72: WANG, Kun, XU, Hao, HU, Peng, QU, Lu, LI, Xiongao, WU, Qiong, WU, Mingjun, LIN, Yuquan, FAN, Liran, ZHU, Yuzhu

54: A MODIFIED STRAW FIBER AND A PREPARATION METHOD THEREOF AND AN ASPHALT MORTAR PREPARED BY THE MODIFIED STRAW FIBER AND A PREPARATION METHOD OF THE ASPHALT MORTAR

00: -

The present invention relates to the technical field of asphalt mortar, in particular to a modified straw fiber, a preparation method thereof, asphalt mortar prepared from modified straw fiber and a preparation method of asphalt mortar. The modified crop straw fiber asphalt mortar for the road is prepared from modified crop straw, asphalt and mineral powder. The preparation method comprises the steps of straw fiber preparation, straw fiber pretreatment, straw fiber modification and modified asphalt mortar preparation. The obtained modified crop straw fiber asphalt mortar for the road has excellent shear strength, high elastic recovery amount and high softening point temperature.

21: 2022/12692. 22: 2022/11/22. 43: 2022/11/30
51: C04B
71: SHANDONG JIAOTONG UNIVERSITY, SHANDONG HI-SPEED GROUP CO., LTD.
72: HU, Peng, MAN, Xinjie, WANG, Kun, CHANG, Chunzhen, SHI, Tao, WU, Mingjun

54: COLORED PERVIOUS CONCRETE AND PREPARATION METHOD THEREOF

00: -

The colored pervious concrete of the present invention comprises the following components: white cement, stone, silica fume, a water reducing agent, water and a coloring agent, and the coloring agent is one or more than one of a blue coloring agent, a red coloring agent and a green coloring agent; and the blue coloring agent is formed by mixing ultramarine blue pigment Na6Al4Si6S4O20 and iron oxide blue according to a ratio of 1:2 to 1:1, the red coloring agent is formed by mixing silver bead red HgS and iron oxide red according to a ratio of 1:2 to 1:1, and the green coloring agent is art green dye Cr2O3. The colored pervious concrete provided by the present invention solves the problems that an iron oxide pigment is generally selected as a coloring agent for the existing colored pervious concrete, the color is dim, and not bright and eye-catching enough; the required concrete color can be selected or prepared as required, the colored pervious concrete is suitable for forming the required concrete pavement color, has the effect of attractive decoration, and facilitates nature protection, ecological balance maintenance and urban heat island effect relief.

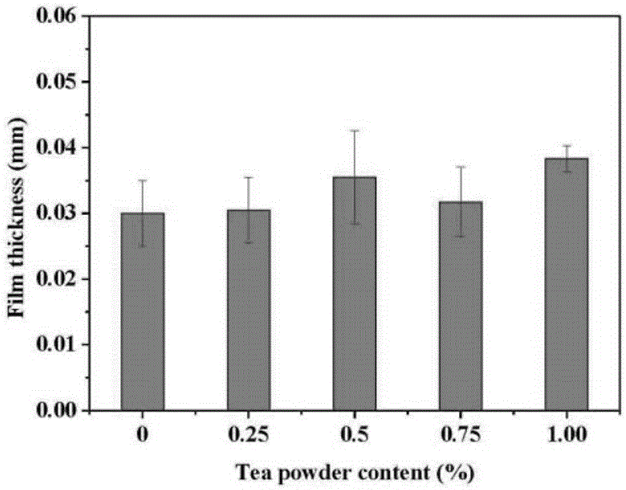
21: 2022/12743. 22: 2022/11/23. 43: 2022/11/30
51: A23L
71: XINYANG NORMAL UNIVERSITY
72: XU, Wei, JIA, Yin, LI, Cuiping, NING, Yuli, JIA, Yongxian

54: A PREPARATION METHOD OF EDIBLE COMPOSITE FILM BASED ON TEA POWDER

00: -

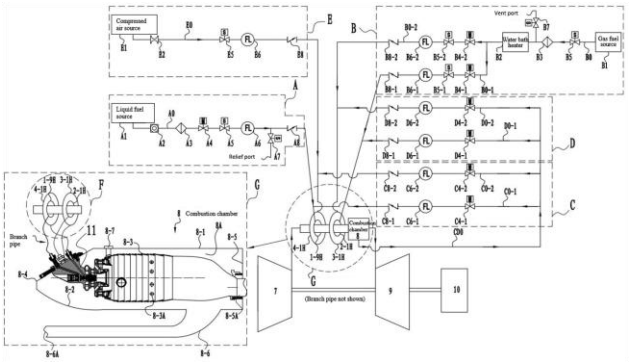
The present invention provides a preparation method of edible composite film based on tea powder, comprising the following steps: Step 1: Acquiring colloid and dispersing into water under room temperature to obtain a colloidal solution; Step 2: Taking tea powder and dispersing into water under room temperature to obtain a tea powder solution; Step 3: Mixing the said colloidal solution in step 1 and the said tea powder solution in step 2 under room temperature to obtain a mixed tea powder-colloid solution, then adding in a plasticizer, stirring evenly, then obtaining a mixed solution by centrifugal degassing; Step 4: Naturally casting the

mixed solution acquired in step 3 into a plastic plate and then performing vacuum drying to obtain the film. According to the present invention, the tea powder contains various natural active substances, the antibacterial and anti-oxidation purposes are achieved by the tea powder and the anti-oxidation and antibacterial functions of the edible composite film are promoted. The edible composite film provided by the invention is simple in preparation method, easy to operate, low in cost, nontoxic, safe to eat and has higher anti-oxidation and antibacterial performances.



21: 2022/12744. 22: 2022/11/23. 43: 2022/11/30
51: A01N
71: GANSU BENCAOYUAN CHINESE HERBAL MEDICINE CO., LTD
72: WEI, Juntuan, GUO, Xinxin, JI, Lijun, HE, Junqing, ZHANG, Hongwei
54: A NOVEL WEEDING TECHNOLOGY FOR HONEYSUCKLE
00: -
A novel weeding technology for honeysuckle belongs to the technical field of the cultivation of a Chinese herbal medicine honeysuckle, and has solved the problems that manual weeding is hard, labor-consuming and the weeds are difficult to be radically eliminated. Summary of the invention: Shaping and pruning the honeysuckle before weeding and making all branches with leaves pruned to over 30cm away from the ground; Spraying with a herbicide after pruning is finished. The herbicide is ammonium glyphosate or a "Dakandao" herbicide. Carrying out weeding after the Frost's Descent before the freeze-up period. Do not plow the land after spraying the herbicide. The present invention ensures that the growth of the honeysuckle will not be damaged, and the yield can be improved by more than 5.7%, the cost of manual weeding is greatly reduced the avoiding of soil and water loss is facilitated.

21: 2022/12930. 22: 2022/11/28. 43: 2022/11/30
51: F23R
71: NO. 703 RESEARCH INSTITUTE OF CSSC, HARBIN ENGINEERING UNIVERSITY
72: LIN, Feng, LI, Mingjia, ZHENG, Hongtao, LI, Yajun, ZHAO, Ningbo, XU, Wenyan, YANG, Honglei, YANG, Qiang, QI, Xiulong, RAN, Junhui, CAO, Tianze, FAN, Liyun
54: LOW-EMISSION NOZZLE, LOW-EMISSION DUAL-FUEL COMBUSTION CHAMBER AND GAS TURBINE GENERATOR SET
00: -
A low-emission nozzle, a low-emission dual-fuel combustion chamber and a gas turbine generator set, which relate to a generator set. The present invention aims to solve the problem that the existing technology is prone to high-temperature carbon deposits. In the present invention, liquid fuel diffusion combustion and gas fuel premix combustion are combined through the integrated design of a dual-fuel low-emission nozzle; when the gas turbine uses gas fuel, the gas fuel are injected through small holes in a low-emission nozzle swirler for good mixing with air, and pollutant emissions are reduced by means of premix combustion; when the gas turbine uses liquid fuel, the problem of poor atomization effect of liquid fuel at low working conditions of the gas turbine is solved by the air-assisted atomization low-emission nozzle in the center of the low-emission nozzle; and a low-emission dual-fuel combustion control system is proposed to supply gas fuel or liquid fuel for the gas turbine machine, and adjust the fuel, and online smooth switching of gas/liquid fuel can also be realized without stopping the machine. The present invention is used for power generation.

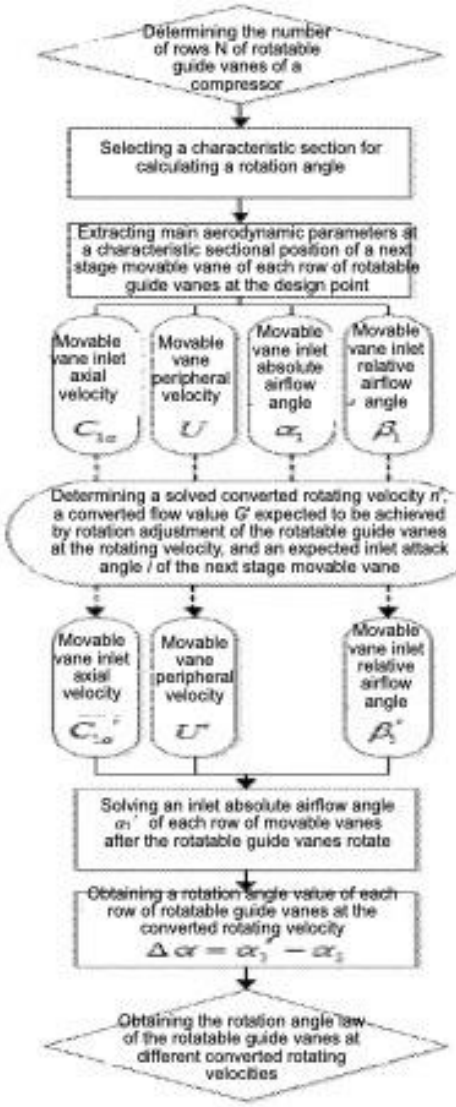


21: 2022/12931. 22: 2022/11/28. 43: 2022/11/30
51: F04D; G06F
71: NO. 703 RESEARCH INSTITUTE OF CHINA SHIPBUILDING INDUSTRY CORPORATION
72: LIN, Feng, WANG, Qi, WAN, Xinchao, LI, Dong, WANG, Ting, REN, Lanxue, ZHANG, Zhou, HONG, Qingsong
33: CN 31: 202011161387.0 32: 2020-10-27

54: AXIAL FLOW COMPRESSOR, GAS TURBINE AND METHOD FOR REGULATING ROTATION ANGLE OF ROTATABLE GUIDE VANE

00: -

The present disclosure provides a method for regulating a rotation angle of a rotatable guide vane under low working conditions of an axial flow compressor of a marine gas turbine, comprising the steps of extracting aerodynamic parameters of the compressor at a characteristic sectional position of a rear row of movable vane adjacent to each row of rotatable guide vanes, solving a converted rotating velocity under low working conditions and a converted rotating velocity at design point of the compressor, and calculating a movable vane peripheral velocity, setting a converted flow value, calculating inlet axial velocity of each row of movable vanes, setting an expected inlet attack angle of a next stage movable vane, obtaining an inlet relative airflow angle of the next stage movable vane after each row of rotatable guide vane rotate, solving the rotation angle of each row of rotatable guide vanes, and obtaining the rotation angle law of the rotatable guide vanes of the compressor at different converted rotating velocities. The method can effectively improve the surge margin index of the compressor under low working conditions.



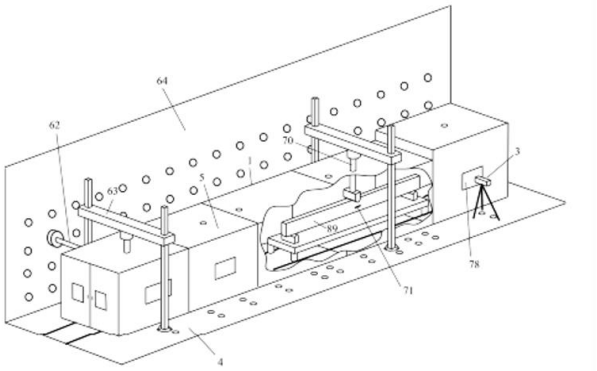
21: 2022/12932. 22: 2022/11/28. 43: 2022/11/30
51: G01N
71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY
72: HUANG, Peiyan, YAO, Guowen, CHEN, Zhanbiao, LI, Bo, LI, Shiya, GUO, Xinyan, LI, Wen
33: CN 31: 202110422122.X 32: 2021-04-20

54: STRUCTURAL FATIGUE/DURABILITY EXPERIMENT SYSTEM AND EXPERIMENTAL METHODS IN THE COMPLEX ENVIRONMENTS

00: -

The present invention discloses a structural fatigue/durability experiment system and the experimental methods in the complex environments. Wherein, the experiment system comprises an environment simulation device, a loading device, a testing device, a ground anchor device and a control

terminal; the said environment simulation device, the loading device and the testing device are all connected with the control terminal; the environment simulation device, the loading device and the testing device are all arranged on the ground anchor device; The said environment simulation device comprises at least one test chamber, all the test chambers are connected in sequence, and a movable partition door is arranged between every two adjacent test chambers; Each test chamber is provided with an independent environment simulation subsystem and a control subsystem, the said environment simulation subsystem is connected with the control subsystem, and the control subsystem is connected with the control terminal. According to the present invention, the environmental fatigue/durability experiments of different full-scale structures and models under the coupling action of various complex environments and (random) loads can be realized, the universality is good, and the application range is wide.

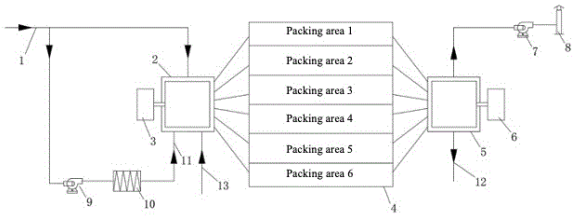


21: 2022/12952. 22: 2022/11/29. 43: 2022/11/30
51: C10L
71: BEIJING ZHONGYUAN BOZHI ENERGY SAVING TECHNOLOGY CO., LTD.
72: WANG, Jianxue, XIAO, Qi
33: CN 31: 202210581963.X 32: 2022-05-26

54: METHOD FOR CONCENTRATION INCREASE AND ENRICHMENT OF VENTILATION GAS

00: -

The present invention provides a method for concentration increase and enrichment of ventilation gas, and belongs to the technical field of treatment and utilization of coal mine gas. A working period is divided into n stages with equal durations. For any stage of a working period, the following conditions are always met: desorption gas is introduced to an inlet of one of packing areas for desorption, and concentrated gas is discharged from an outlet of the one of the packing areas; normal temperature air is introduced to an inlet of another one of the packing areas for cooling, and clean exhaust gas is discharged from an outlet of the another one of the packing areas; and then ventilation gas is introduced to inlets of the remaining packing areas for adsorption, and clean exhaust gas is discharged from outlets of the remaining packing areas. According to the present invention, heat obtained by oxidation of a product gas can be used as energy for concentration increase and enrichment, and the method has advantages of low energy consumption, great economic performance, high reliability, and a long service life of an adsorption material.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES



PRACTICE NOTICE NO.05: PATENTS STAKEHOLDERS

PRACTICE NOTE: ISSUANCE OF NOTICES OF ACCEPTANCE & OFFICIAL ACTIONS IN RESPECT OF PATENT APPLICATIONS; AND e-FILING OF OUTSTANDING DOCUMENTS ACCOMPANYING PATENT APPLICATIONS

1. This Practice Notice is applicable to issuance of Notices of Acceptance & Official Actions in respect of patent applications; and e-filing of outstanding documents accompanying patent applications (i.e. late lodgement on form P5).

2. Regulation 38 of the Patents Act 57 of 1978 prescribes for the lodgement on form P5 of a document which did not accompany an application in terms of regulation 22(1). The Patents Division of the CIPC ("the Patent Office") will introduce new e-filing functionality on IPonline, to enable applicants to electronically submit outstanding documents accompanying patent applications with effect from **12 December 2022.** The new functionality will allow patent applicants to lodge documents listed in **Annexure A** of this Notice. The new e-filing functionality can be accessed at http://iponline.cipc.co.za/.

3. The Patent Office will, from **12 December 2022**, issue Notices of Acceptance and Official Actions in respect of patent applications via the email address functionality. Patent applicants will be able to use the e-mailed link to download Notices of Acceptance and Official Actions.

4. The operational requirements in respect of e-filing of outstanding documents are detailed at: https://iponline.cipc.co.za/Publications/Notices/Patents_Lodge%20Documents_User%20Guide.pdf.

5. The operational requirements in respect of receiving Notices of Acceptance and Official Actions via email address functionality are detailed at:

https://iponline.cipc.co.za/Publications/Notices/Patents_View%20Download%20via%20email_User%20Guide.pdf.

6. A transition period is provided until end of January 2023 in respect of this e-filling and e-mail address functionality. From **01 February 2023**, the Patent Office will no longer accept nor process late lodgements (P5 forms) which are not submitted via the new e-filing functionality.

7. Furthermore, from **01 February 2023**, the Patent Office will no longer issue hardcopies of Notices of Acceptance or Official Actions in respect of patent applications.



Adv Rory Voller

CIPC Commissioner
9 Dec 2022



ANNEXURE A

Outstanding documents which may be electronically filed using the new functionality via IPonline (http://iponline.cipc.co.za/:

(a) Declaration and Power of Attorney on Form P3

(b) Form P8, including abstract and drawing(s)

(c) A statement in terms of section 30(3A) on Form P 26

(d) Proof in terms of regulation 33A(2)

(e) Proof of assignment of invention

(f) Proof of assignment of priority rights

(g) Priority document(s)

(h) Verified translation of priority document(s)

(i) Specification which complies with regulations 13, 14, 15, 16, 17, 18 or 19

(j) Translation of specification in terms of section 30(6)(c)

(k) Translation of the international application in terms of section 43E(1)(b) and regulations 67C, 67D and 67E

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 2022/11/28 -

A2022/01527 - NOVA USA WOOD PRODUCTS, LLC Class 8. CLIP

F2022/01526 - NOVA USA WOOD PRODUCTS, LLC Class 8. CLIP

F2022/01529 - UNIVERSITY OF JOHANNESBURG Class 9. BLANKS FOR BOXES

A2022/01528 - UNIVERSITY OF JOHANNESBURG Class 9. BOXES

A2022/01525 - Kashimbi Precious Ilunga Class 15. ELECTRIC XLP DOZER

. - APPLIED ON 2022/11/29 -

A2022/01532 - Chery Automobile Co., Ltd. Class 12. CARS

A2022/01534 - FERRARI S.P.A. Class 21. TOY CAR

A2022/01530 - ROAD RAGE 4x4 SA (PTY) LTD Class 12. VEHICLE WHEEL RIMS

F2022/01531 - Minenhle Morgan Ngubo Class 09. PACKAGING FOR INTATHAKUSA DAILY BREAD

A2022/01533 - FERRARI S.P.A. Class 12. CAR

. - APPLIED ON 2022/11/30 -

A2022/01539 - Alexander Dennis Limited Class 12. BUSES

A2022/01538 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2022/01540 - Alexander Dennis Limited Class 12. BUSES

A2022/01535 - KYOCERA DOCUMENT SOLUTIONS INC. Class 18. TONER CARTRIDGE

A2022/01536 - KYOCERA DOCUMENT SOLUTIONS INC. Class 18. TONER CARTRIDGE

A2022/01537 - PIMMS Group (Pty) Ltd Class 13. CABLE ENCLOSURE

A2022/01541 - Alexander Dennis Limited Class 12. BUSES

. - APPLIED ON 2022/12/01 -

A2022/01552 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01566 - THREE NIGHT OWLS Class 20. A DISPLAY DEVICE

F2022/01570 - THREE NIGHT OWLS (PTY) LTD Class 20. A CLIP FOR A DISPLAY DEVICE

A2022/01563 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01562 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01556 - JJ Govender Class 25. THE WALL - DUBAI'S WALL OF SUSTENANCE/LIVELIHOOD

A2022/01555 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

A2022/01554 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01553 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01550 - Johan Hendrik Georg van der Merwe Class 03. HOLSTER

F2022/01545 - Triple A Finance GmbH & Co. KG Class 28. ANTI-WRINKLE APPLIANCES

A2022/01544 - Triple A Finance GmbH & Co. KG Class 28. ANTI-WRINKLE APPLIANCES

F2022/01543 - Triple A Finance GmbH & Co. KG Class 28. ANTI-WRINKLE APPLIANCES

A2022/01571 - THREE NIGHT OWLS (PTY) LTD Class 20. A CLIP FOR A DISPLAY DEVICE

F2022/01564 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

A2022/01542 - Triple A Finance GmbH & Co. KG Class 28. ANTI-WRINKLE APPLIANCES

A2022/01561 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01560 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01558 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01568 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

A2022/01567 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

A2022/01549 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01547 - Triple A Finance GmbH & Co. KG Class 28. ANTI-WRINKLE APPLIANCES

F2022/01551 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01548 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICEQ

A2022/01546 - Triple A Finance GmbH & Co. KG Class 28. ANTI-WRINKLE APPLIANCES

A2022/01559 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

F2022/01557 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

A2022/01565 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

A2022/01569 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPLAY DEVICE

. - APPLIED ON 2022/12/02 -

F2022/01573 - AZTEC AGRI SYSTEMS PTY LTD Class 09. MODULAR HYDROPONIC TOWER

A2022/01572 - AZTEC AGRI SYSTEMS PTY LTD Class 09. MODULAR HYDROPONIC TOWER

. - APPLIED ON 2022/12/05 -

A2022/01576 - VANESCP (PTY) LTD Class 12. TROLLY

A2022/01577 - HENRY PHILLIP ACKHURST Class 12. A METHOD FOR IMPROVING FUEL MONITORING INSIDE VEHICLES USING AN ELECTRONIC FUEL MEASURING DEVICE

A2022/01574 - HONDA MOTOR CO., LTD. Class 12. MOTORCYCLE

F2022/01575 - VANESCO (PTY) LTD Class 12. TROLLEY

F2022/01578 - HENRY PHILLIP ACKHURST Class 10. A METHOD FOR IMPROVING FUEL MONITORING INSIDE VEHICLES USING AN ELECTRONIC FUEL MEASURING DEVICE

. - APPLIED ON 2022/12/06 -

A2022/01579 - APPLE INC. Class 13. ADAPTER

. - APPLIED ON 2022/12/07 -

F2022/01580 - SMT SCHARF AFRICA (PTY) LTD Class 13. BATTERY MODULE

A2022/01582 - VOS, Carlo Class 25. PROFILED SHEETS

F2022/01583 - VOS, Carlo Class 25. PROFILED SHEETS

F2022/01581 - SMT SCHARF AFRICA (PTY) LTD Class 13. BATTERY PACK

. - APPLIED ON 2022/12/08 -

F2022/01585 - ALU-CAB HOLDINGS (PTY) LTD Class 21. TABLE FOR ROOFTOP TENT

A2022/01587 - DART INDUSTRIES INC. Class 7. COVER FOR A FOOD DISH

F2022/01588 - Timrite (Pty) Ltd Class 25. LOAD SUPPORT BAGS

A2022/01591 - SKULPOD (PTY) LTD Class 25. A SHELTER

A2022/01592 - SKULPOD (PTY) LTD Class 25. A SHELTER

F2022/01584 - ALU-CAB HOLDINGS (PTY) LTD Class 21. BACKREST FOR ROOFTOP TENT

F2022/01590 - Polyoak Packaging (Pty) Ltd Class 07. TUB

A2022/01589 - Polyoak Packaging (Pty) Ltd Class 07. TUB

A2022/01586 - HITACHI HIGH-TECH CORPORATION Class 24. CUVETTE

. - APPLIED ON 2022/12/09 -

A2022/01593 - COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN Class 14. GRAPHIC USER INTERFACE

A2022/01596 - Les Mills International Limited Class 21. WEIGHT PLATES

A2022/01598 - DETPAK SOUTH AFRICA Class 9. SEALABLE BAG

A2022/01594 - COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN Class 14. GRAPHIC USER INTERFACE

A2022/01595 - COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN Class 14. GRAPHIC USER INTERFACE

A2022/01597 - DETPAK SOUTH AFRICA Class 9. GRAPE BAG

F2022/01599 - DETPAK SOUTH AFRICA Class 9. SEALING STRIP FOR BAG

. - APPLIED ON 2022/12/12 -

F2022/01605 - FLENDER GMBH Class 12. GEAR CASING

F2022/01608 - PIMMS Group (Pty) Ltd Class 13. CABLE MANAGEMENT TRAY

A2022/01617 - NU LIFE SCIENCES (PROPRIETARY) LIMITED Class 09. ROLLER APPLICATOR

A2022/01618 - NU LIFE SCIENCES (PROPRIETARY) LIMITED Class 09. ROLLER APPLICATOR

A2022/01613 - SCHOELLER ALLIBERT GMBH Class 9. BOTTLE CRATE

A2022/01601 - FLENDER GMBH Class 12. GEAR CASING

F2022/01602 - FLENDER GMBH Class 12. GEAR CASING

F2022/01603 - EVERITT, Sandra Class 06. FOLDABLE CHAIRS

A2022/01604 - FLENDER GMBH Class 12. GEAR CASING

F2022/01614 - FLENDER GMBH Class 12. GEAR CASING

A2022/01610 - FLENDER GMBH Class 12. GEAR CASING

A2022/01606 - PIMMS Group (Pty) Ltd Class 13. CABLE ENCLOSURE

F2022/01600 - EKSTEEN, Ehren Cronje Class 24. WOUND BED ACCESS DEVICES

A2022/01615 - FLENDER GMBH Class 12. GEAR CASING

F2022/01616 - FLENDER GMBH Class 12. GEAR CASING

A2022/01607 - FLENDER GMBH Class 12. GEAR CASING

F2022/01609 - FLENDER GMBH Class 12. GEAR CASING

F2022/01611 - FLENDER GMBH Class 12. GEAR CASING

A2022/01612 - FLENDER GMBH Class 12. GEAR CASING

. - APPLIED ON 2022/12/13 -

F2022/01638 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPENSING DEVICE

A2022/01634 - Cilag GmbH International Class 24. STAPLE CARTRIDGES

A2022/01633 - Cilag GmbH International Class 24. RETAINERS FOR STAPLE CARTRIDGES

A2022/01632 - Cilag GmbH International Class 24. RETAINERS FOR STAPLE CARTRIDGES

A2022/01631 - Cilag GmbH International Class 24. RETAINERS FOR STAPLE CARTRIDGES

A2022/01630 - Cilag GmbH International Class 24. STAPLE CARTRIDGES

A2022/01629 - Cilag GmbH International Class 24. STAPLE CARTRIDGES

A2022/01628 - Cilag GmbH International Class 24. STAPLE CARTRIDGES

A2022/01627 - Cilag GmbH International Class 24. LINEAR SURGICAL STAPLERS

A2022/01626 - Cilag GmbH International Class 24. SURGICAL STAPLERS

F2022/01623 - NU LIFE SCIENCES (PROPRIETARY) LIMITED Class 09. ROLLER APPLICATOR

F2022/01622 - NU LIFE SCIENCES (PROPRIETARY) LIMITED Class 09. ROLLER APPLICATOR

A2022/01639 - THREE NIGHT OWLS (PTY) LTD Class 20. A DISPENSING DEVICE

A2022/01645 - THREE NIGHT OWLS (PTY) LTD Class 20. A HANG TAB

A2022/01641 - THREE NIGHT OWLS (PTY) LTD Class 20. A HANG TAB

A2022/01625 - Cilag GmbH International Class 24. LINEAR SURGICAL STAPLERS

A2022/01624 - Cilag GmbH International Class 24. LINEAR SURGICAL STAPLERS

F2022/01621 - MAG. AUF, Wolfgang Class 24. MEDICAL DEVICE

F2022/01619 - I.T.S. GMBH Class 24. MEDICAL DEVICE

F2022/01644 - THREE NIGHT OWLS (PTY) LTD Class 20. A HANG TAB

A2022/01643 - THREE NIGHT OWLS (PTY) LTD Class 20. A HANG TAB

F2022/01642 - THREE NIGHT OWLS (PTY) LTD Class 20. A HANG TAB

A2022/01620 - HERMANUS PIETER VAN DER MERWE Class 22. FISHING SINKER

F2022/01640 - THREE NIGHT OWLS (PTY) LTD Class 20. A HANG TAB

. - APPLIED ON 2022/12/14 -

F2022/01636 - KIRSTEN, Samuel John Class 7. FOOD STORAGE CONTAINERS

A2022/01637 - TVS MOTOR COMPANY LIMITED Class 12. A TWO WHEELED VEHICLE

F2022/01635 - SIZWE NHLANHLA ZWANE, THUTHUKA ZWANE Class 21. TWELVE CHANCES

. - APPLIED ON 2022/12/15 -

A2022/01650 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01662 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01658 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01654 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01664 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01661 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01653 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01652 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01665 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01656 - NantMobility, LLC Class 12. PERSONAL TRANSPORT VEHICLES

A2022/01655 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01649 - MÖLNLYCKE HEALTH CARE AB Class 9. PACKAGING CARTON

A2022/01648 - MÖLNLYCKE HEALTH CARE AB Class 9. PACKAGING CARTON

A2022/01647 - MÖLNLYCKE HEALTH CARE AB Class 9. PACKAGING CARTON

A2022/01646 - MAISON PSYCHÉ Class 9. PERFUME BOTTLE

A2022/01651 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01657 - NantMobility, LLC Class 12. PERSONAL TRANSPORT VEHICLES

A2022/01663 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01660 - Cilag GmbH International Class 14. USER INTERFACES

A2022/01659 - Cilag GmbH International Class 14. USER INTERFACES

CHANGE OF NAME IN TERMS OF REGULATION 24

No records available

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgement. **(23)** release date (if applicable). **(DR)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

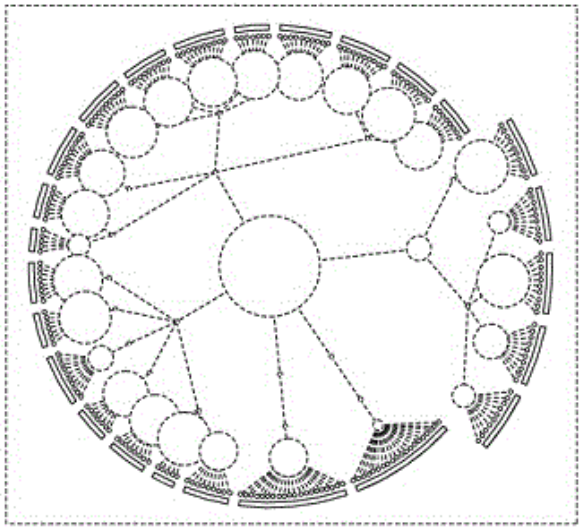
21: A2019/01147 22: 2019-08-22 23: 2019-05-17
43: 2022-10-10
52: Class 25 24: Part A
71: KOLKOL LEISURE LIVING CC
54: A BUILDING
57: The design is applied to a building. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the building, substantially as illustrated in the accompanying representations.



21: A2019/01765 22: 2019-12-09 23: 2019-05-17
43: 2022-10-14
52: Class 14. 24: Part A
71: BOSTONGENE CORPORATION
33: US 31: 29/694,302 32: 2019-06-10

54: Display Screen or Portion Thereof With Graphical User Interface

57: The design relates to a display screen or portion thereof with a graphical user interface. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

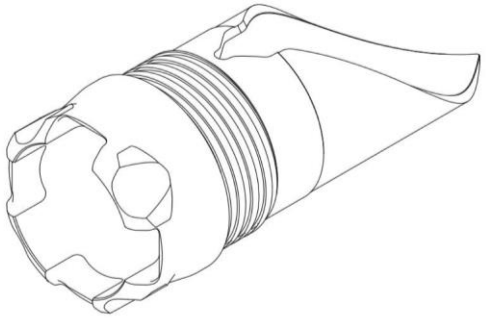


FRONT VIEW

21: A2020/00232 22: 2020-02-26 23: 2019-05-17
43: 2022-10-27
52: Class 08 24: Part A
71: Reflex Instruments Asia Pacific Pty Ltd
33: AU 31: 201914985 32: 2019-08-30

54: DRILLING TOOLS

57: The design relates to drilling tools, specifically to a drive sub for a drilling assembly. The drive sub has a tubular body defining a central passage and two opposed ends. A first end is in the form of a downhole end, which comprises a castellated edge with a plurality of lugs separated from each other by a plurality of circumferentially spaced recesses. An opposed end defines a mule shoe edge having a rounded peak which smoothly curves in opposite directions about the tubular body leading to a socket, the socket and peak being diametrically opposed. The drive sub further includes a screw thread connection formation intermediate of its length. The tubular body has a curved profile from the castellated edge to the screw thread and axial channels extending through the lugs. The drive sub is attachable to a drill string, and configured to receive a tool on the downhole end.



A front perspective view

21: A2020/00883 22: 2020-06-23 23: 2019-05-17
43: 2022-10-05
52: Class 12. 24: Part A
71: SUMITOMO RUBBER INDUSTRIES, LTD.
33: JP 31: 2020-003817 32: 2020-02-28

54: Tire for a Motorcycle

57: The design relates to a tire for a motorcycle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

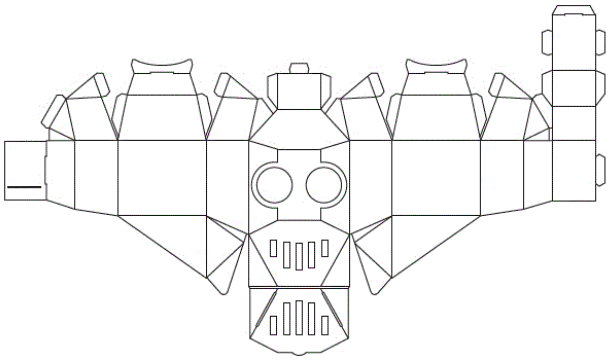
21: A2020/01019 22: 2020-07-24 23: 2019-05-17
43: 2022-09-19
52: Class 9 24: Part A
71: GCS German Capsule Solution GmbH
33: EM 31: 007570379-0001 32: 2020-01-29

54: BEVERAGE PODS

57: The drawing shows a bottom perspective view of a beverage pod showing the overall appearance thereof.



21: A2020/01181 22: 2020-09-02 23: 2019-05-17
43: 2022-09-19
52: Class 21 24: Part A
71: CARDBOARD WORLD PRODUCTS (PTY) LTD
54: A BLANK FOR A MASK
57: The drawing shows a top view of a blank for a mask in accordance with the present design showing the overall appearance thereof.



21: A2020/01413 22: 2020-10-30 23: 2019-05-17
43: 2020-05-01
52: Class 26 24: Part A
71: Honda Motor Co., Ltd.
33: JP 31: 2020-008941 32: 2020-05-01
54: HEADLIGHTS FOR VEHICLES
57: The design is for a headlight for a vehicle which has a housing with an outer contour that is based on a deformed quadrilateral shape in the front elevation view. A lamp section has a horizontally elongate deformed quadrilateral shape like a knife edge, with a generally "U" shaped compartment in the center. The lamp section is divided into three compartments and a reflector is arranged inside each compartment. Above the lamp section is a peg-like member, which becomes gradually thicker from a left side to the right and swells out above a right end.



21: A2020/01414 22: 2020-10-30 23: 2019-05-17
43: 2020-05-01
52: Class 12 24: Part A
71: Honda Motor Co., Ltd.
33: JP 31: 2020-008942 32: 2020-05-01
54: BUMPERS FOR VEHICLES
57: The design is for a bumper for a vehicle which has a generally flat U shape in top plan view, and a roughly horizontally long rectangular shape with an elongated flat inverted trapezoidal opening above the center and a horizontally long flat trapezoidal notch in the center of the lower edge of the bumper in front elevation view. The portion between the opening and the notch and both sides thereof swells frontward. From both sides of the lower edge of the opening, character lines extend horizontally outward and then bend and extend downward. The lower parts of both sides of the horizontally long flat trapezoidal notch are lying-L shaped, and roughly rectangular openings are formed between the lying-L shaped lower parts and frame edges projecting downward in a shape of lying-L.

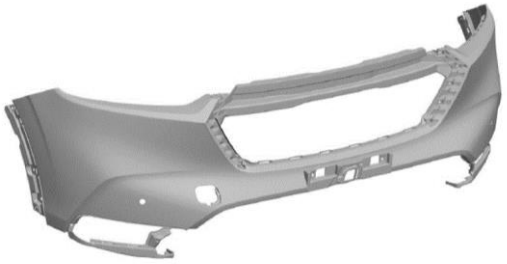


Figure 1

Three-dimensional view

21: A2020/01473 22: 2020-11-12 23: 2019-05-17
43: 2022-09-19
52: Class 14 24: Part A
71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-010090 32: 2020-05-22
54: STAND FOR ELECTRONIC DEVICE
57: The design is applied to a stand for an electronic device and is shown in perspective front, top, and right side view in the drawing showing the overall appearance thereof.

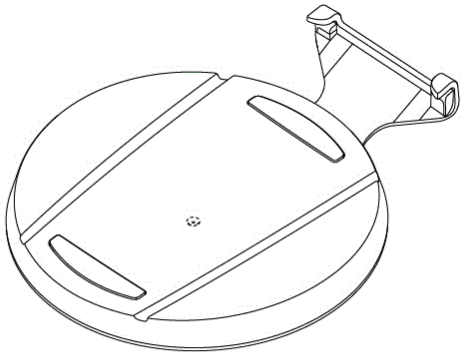
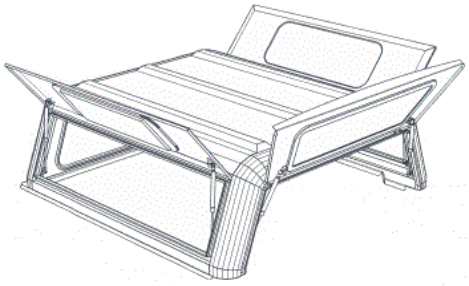


FIG. 1

21: A2020/01515 22: 2020-11-24 23: 2019-05-17
43: 2021-06-09
52: Class 12 24: Part A
71: RLD DESIGN (PTY) LTD.
54: A CANOPY
57: The design is applied to a canopy having a rear panel door and a pair of side panel doors each of which is hingedly mounted to the canopy frame portion. Struts are included for controlling up and downward movement of the panel doors. The frame portion further includes rounded corner formations having a roof portion defined therein between. The features of the design for which protection is claimed include the shape, pattern, configuration and/or ornamentation of the canopy as shown in the drawings, showing the overall appearance thereof.



21: A2021/00369 22: 2021-04-09 23: 2019-05-17
43: 2022-10-14
52: Class 2. 24: Part A
71: KARATONIS, MICHAEL
54: Footwear Cover
57: The design relates to a footwear cover. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW IN USE

21: A2021/00727 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0001 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion.

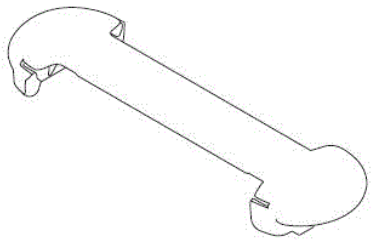


Figure 1
Three-dimensional view

21: A2021/00728 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0002 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion. An upper, outer part of the slender, central portion comprises a pattern of elongate, curved stripes and a series of diamond shaped openings at an intermediate part of the slender portion.

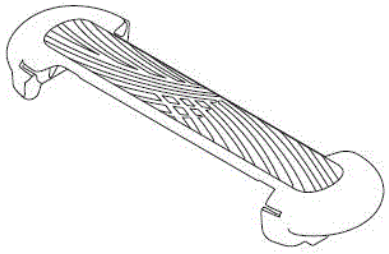


Figure 1
Three-dimensional view

21: A2021/00729 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/763,316 32: 2020-12-22
54: ORAL CARE IMPLEMENTS
57: The design is applied to an oral care implement handle. The oral care implement handle comprises an end having an end surface from which extends a longitudinally extending connection arrangement. The connection arrangement comprises three longitudinally spaced, concentric members of different dimensions, wherein each member has substantially a part frusto-conical shape.



Figure 1
Three-dimensional view

21: A2021/00730 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0003 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion. An upper, outer part of the slender, central portion comprises a pattern of diamond shaped formations of varying sizes, with smaller formations provided towards the ends of the slender portion, and medium to larger formations being provided across the major part of the slender portion.

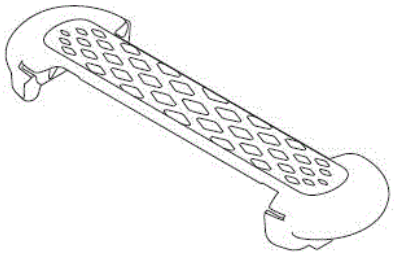


Figure 1
Three-dimensional view

21: A2021/00731 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0004 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion. An upper, outer part of the slender, central portion comprises several, longitudinally extending rows comprising miniature square shaped formations and truncated square shaped formations being provided along the ends of the rows.

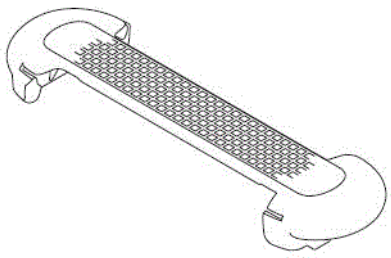


Figure 1
Three-dimensional view

21: A2021/00732 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0005 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion. An upper, outer part of the slender, central portion comprises a plurality of elongate, diagonally arranged, intermeshing strips which define a series of diamond shaped formations.

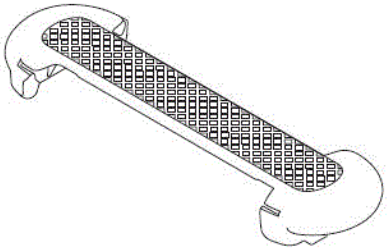


Figure 1
Three-dimensional view

21: A2021/00733 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0006 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion. An upper, outer part of the slender, central portion comprises a plurality of ellipsoid, longitudinally spaced formations which protrude from the slender, central portion.

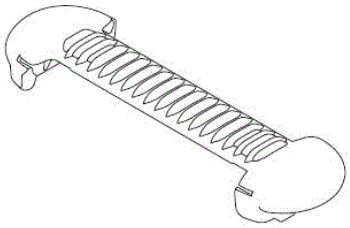


Figure 1
Three-dimensional view

21: A2021/00734 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008360812-0017 32: 2020-12-22
54: CAPS FOR SHAVER BLADES
57: The design is applied to a cap for a shaver blade. The cap includes an elongate body having a slender, central portion and a bulbous first and second ends on either ends of the slender, central portion. Each of the bulbous ends defines a receiving formation in the form of a slot for receiving and accommodating a shaver blade therein, which shaver blade is arranged to lie in the slots defined by the bulbous portions and abut against an inner part of the slender, central portion. An upper, outer part of the slender, central portion comprises a blank intermediate section that is surrounded on both sides thereof by a plurality of elongate, diagonally arranged, intermeshing strips which define a series of diamond shaped formations.

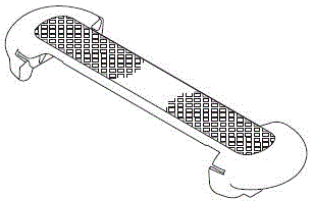


Figure 1
Three-dimensional view

21: A2021/00735 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 4 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/763,316 32: 2020-12-22
54: ORAL CARE IMPLEMENTS
57: The design is applied to an oral care implement handle. The oral care implement handle comprises a slightly domed end surface having a circular profile; and a connection arrangement projecting from the end surface. The end surface comprises a lower extremity portion tending towards the handle and an opposite higher extremity portion at a higher elevation. The connection arrangement comprises a series of longitudinally extending concentrically arranged frustro-conical members which terminate at an elongate cylindrical member having a dome shaped free end. A generally square shaped member projects radially from the connection arrangement between a lowermost concentric member and the higher extremity portion of the end surface. Opposite the square shaped member, a longer elongate generally rectangular member with a curved end projects radially from the connection arrangement, between the lower extremity portion of the raised surface and one of the concentric members.



Figure 1

Three-dimensional view

21: A2021/00736 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 4 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/763,316 32: 2020-12-22
54: ORAL CARE IMPLEMENTS
57: The design is applied to an oral care implement handle. The oral care implement handle comprises an end having an end surface from which extends a

longitudinally extending connection arrangement. The connection arrangement comprises three longitudinally spaced, concentric members of different dimensions, wherein each member has substantially a part frusto-conical shape.



Figure 1

Three-dimensional view

21: A2021/00737 22: 2021-06-21 23: 2019-05-17
43: 2020-12-22
52: Class 28 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/763,316 32: 2020-12-22
54: ORAL CARE IMPLEMENTS
57: The design is applied to an oral care implement handle. The oral care implement handle comprises a slightly domed end surface having a circular profile; and a connection arrangement projecting from the end surface. The end surface comprises a lower extremity portion tending towards the handle and an opposite higher extremity portion at a higher elevation. The connection arrangement comprises a series of longitudinally extending concentrically arranged frustro-conical members which terminate at an elongate cylindrical member having a dome shaped free end. A generally square shaped member projects radially from the connection arrangement between a lowermost concentric member and the higher extremity portion of the end surface. Opposite the square shaped member, a longer elongate generally rectangular member with a curved end projects radially from the connection arrangement, between the lower extremity portion of the raised surface and one of the concentric members.



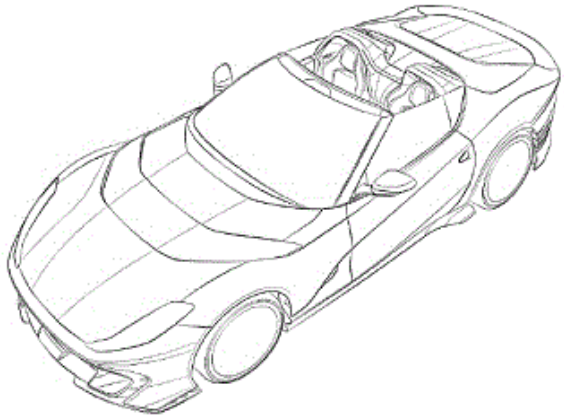
Figure 1

Three-dimensional view

21: A2021/00835 22: 2021-07-19 23: 2019-05-17
43: 2022-09-19
52: Class 25 24: Part A
71: FIRMABUILD HOLDINGS (PTY) LTD
54: A PRE-FABRICATED LIVING UNIT
57: The representation shows a left side and front view of a pre-fabricated living unit showing the overall appearance thereof.



21: A2021/00942 22: 2021-08-06 23: 2019-05-17
43: 2022-10-03
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: IB 31: DM/213994 32: 2021-02-09
54: Toy Car
57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2021/00950 22: 2021-08-05 23: 2019-05-17
43: 2021-02-05
52: Class 14 24: Part A
71: Peloton Interactive, Inc.
33: US 31: 29/769,583 32: 2021-02-05
54: HUBS FOR MEDIA SYSTEMS
57: The design is applied to a hub for a media system. The hub comprises a tapered obround cylindrical body having an obround front wall and an opposite obround rear wall which is smaller than the front wall. A tapered side wall extends peripherally between the front and rear walls. The side wall has a pair of elongate planar side portions and semicircular end portions. A longitudinally extending, half-cylindrical shaped mounting member is provided substantially centrally along the length of one of the elongate side portions of the side wall.

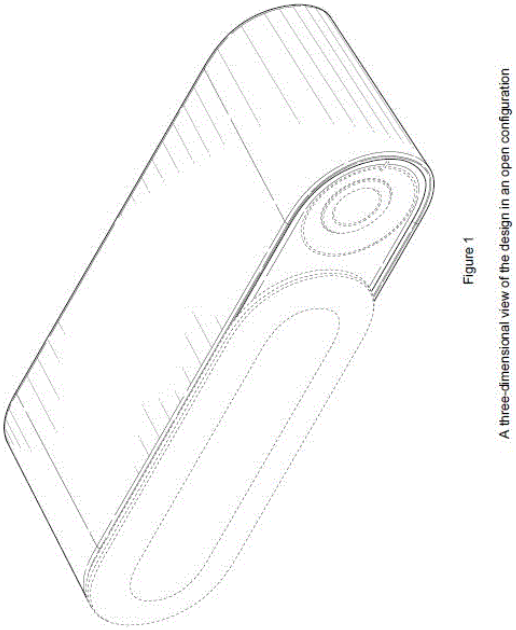


Figure 1
A three-dimensional view of the design in an open configuration

21: A2021/00951 22: 2021-08-05 23: 2019-05-17
43: 2021-02-05
52: Class 14 24: Part A
71: Peloton Interactive, Inc.
33: US 31: 29/769,583 32: 2021-02-05
54: MOUNTS FOR MEDIA SYSTEMS
57: The design is applied to a mount for a media system. The mount includes an upper face having a central section from which a cylindrical dome shaped mounting member protrudes. The upper face being inclined downwardly outwardly away from the central section towards a periphery of the face.

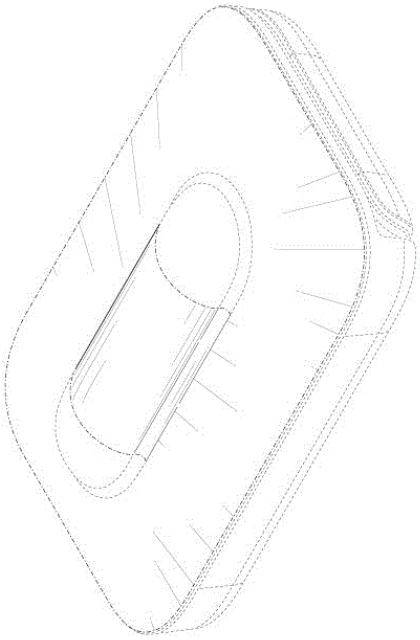


Figure 1

Three-dimensional view of the design in a closed configuration

21: A2021/00952 22: 2021-08-05 23: 2019-05-17
43: 2021-02-05
52: Class 14 24: Part A
71: Peloton Interactive, Inc.
33: US 31: 29/769,583 32: 2021-02-05
54: MEDIA SYSTEMS
57: The design is applied to a media system. The media system includes a mount an upper face of which has a central section from which a cylindrical dome shaped mounting member protrudes. The upper face is inclined downwardly outwardly away from the central section towards a periphery of the face. The media system also comprises a hub comprising a tapered obround cylindrical body having an obround front wall and an opposite obround rear wall which is smaller than the front wall. A tapered side wall extends peripherally between the front and rear walls. The side wall has a pair of elongate planar side portions and semicircular end portions. A longitudinally extending opening is provided substantially centrally along the length of one of the elongate side portions of the side wall. The mounting member on the mount is accommodated within the opening to allow the hub to pivot relative to the mount.

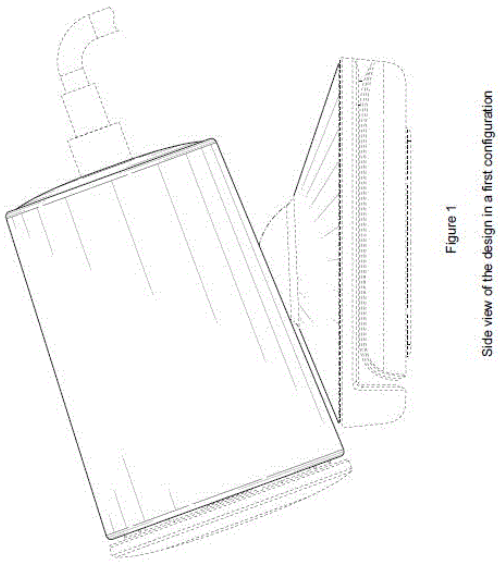


Figure 1

Side view of the design in a first configuration

21: A2021/00953 22: 2021-08-05 23: 2019-05-17
43: 2021-02-05
52: Class 13 24: Part A
71: Peloton Interactive, Inc.
33: US 31: 29/769,583 32: 2021-02-05
54: POWER SUPPLY UNITS
57: The design is applied to a power supply unit. The power supply unit comprises a body which is generally rectangular cylindrical in shape with rounded corners. The body comprises a front face and an opposite parallel rear face; a pair of peripherally extending opposite and parallel end faces; and a pair of peripherally extending opposite side faces. Each of the front face and rear face has a circular formation that is located substantially centrally thereon.

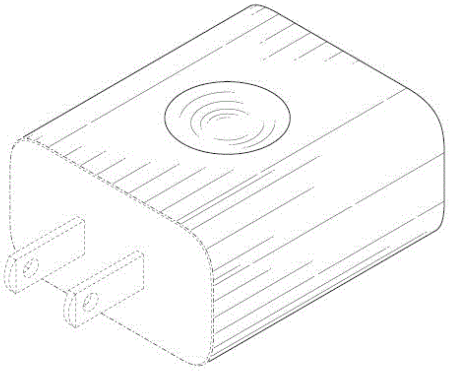
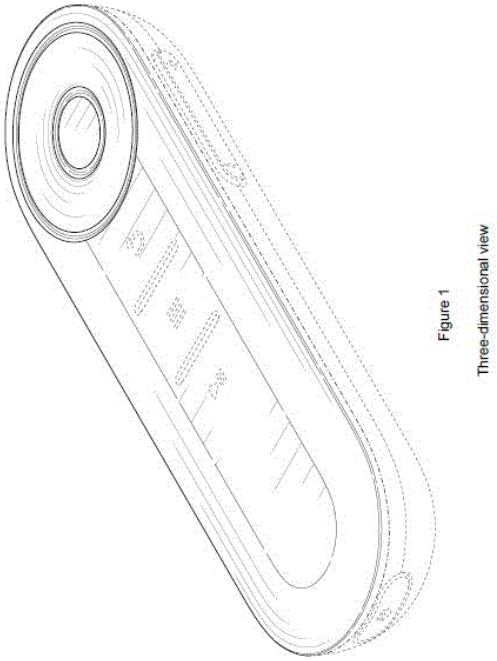


Figure 1

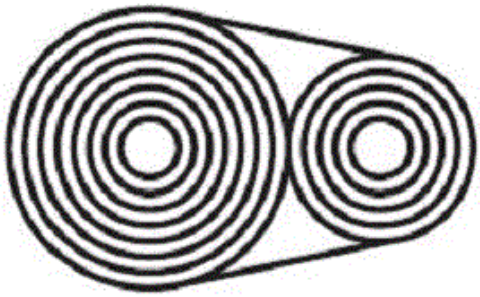
Three-dimensional view

21: A2021/00954 22: 2021-08-05 23: 2019-05-17

43: 2021-02-05
52: Class 14 24: Part A
71: Peloton Interactive, Inc.
33: US 31: 29/769,583 32: 2021-02-05
54: REMOTES FOR MEDIA SYSTEMS
57: The design is applied to a remote for a media system. The remote comprises an elongate body having an obround front face. The front face has a generally obround central portion and a side portion which curves gently outwardly downwardly away from the central portion. A pair of concentric larger and smaller circles is provided proximate one end of the front face. The smaller circle is recessed relative to the larger circle.



21: A2021/00969 22: 2021-08-16 23: 2019-05-17
43: 2022-10-03
52: Class 32. 24: Part A
71: THE ADDAX AND ORYX GROUP PLC
54: Logo
57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW

21: A2021/00970 22: 2021-08-16 23: 2019-05-17
43: 2022-10-03
52: Class 32. 24: Part A
71: THE ADDAX AND ORYX GROUP PLC
54: Logo
57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW

21: A2021/00971 22: 2021-08-16 23: 2019-05-17
43: 2022-10-03
52: Class 32. 24: Part A
71: THE ADDAX AND ORYX GROUP PLC
54: Logo
57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



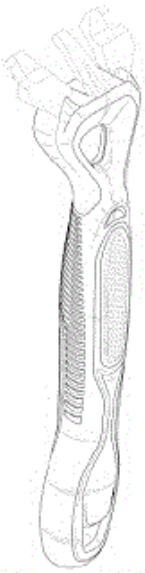
PLAN VIEW

21: A2021/00973 22: 2021-08-17 23: 2019-05-17
43: 2022-10-03
52: Class 12. 24: Part A
71: SUMITOMO RUBBER INDUSTRIES, LTD.
54: Tire for an Automobile
57: The design relates to a tire for an automobile. The features of the design are those of shape and/or configuration and/or pattern.



PERSPECTIVE VIEW

21: A2021/00974 22: 2021-08-18 23: 2019-05-17
43: 2022-10-03
52: Class 28. 24: Part A
71: DORCO CO., LTD.
33: KR 31: 30-2021-0008708 32: 2021-02-22
54: Razor Handle
57: The design relates to a razor handle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2021/00975 22: 2021-08-19 23: 2019-05-17
43: 2021-02-19
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/771,133 32: 2021-02-19
54: FOOTWEAR
57: The present design consists of a sandal that has features that make it new and original. The present design consists of a low sandal characterized by a slip-on-type construction consisting of two upper straps connected by a middle portion on either end and a sole beneath the straps and middle portion. The upper straps include a plurality of raised ridges on the outer surface thereof. Textual material can be included on the outer middle portion, where the upper portion of the textual material is formed by an opening through the middle portion.



Figure 1

Three-dimensional view

21: A2021/01023 22: 2021-09-03 23: 2019-05-17
43: 2021-03-03
52: Class 13 24: Part A
71: Clearvue Technologies Ltd
33: AU 31: 202111182 32: 2021-03-03
54: PANELS WITH SOLAR CELL BORDERS
57: The design relates to a glass panel that incorporates an inset solar cell around its border. The solar cell is incorporated into the glass panel during manufacture. When incorporated into a window, the glass panel enables the window to act as a solar panel.

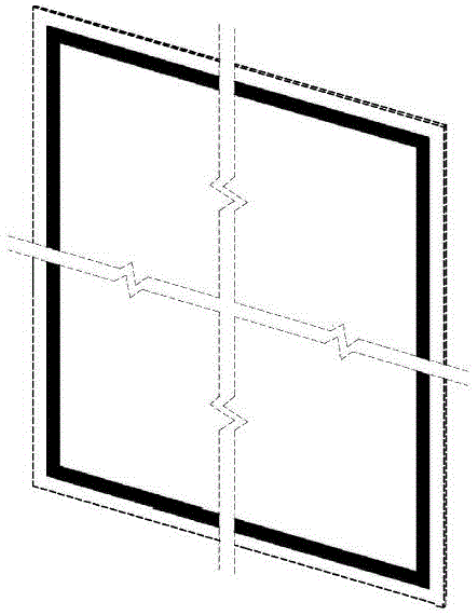


Figure 1

Three-dimensional view

21: A2021/01024 22: 2021-09-03 23: 2019-05-17
43: 2021-03-03
52: Class 13 24: Part A
71: Clearvue Technologies Ltd
33: AU 31: 202111191 32: 2021-03-03
54: PANELS WITH SOLAR CELL BORDERS
57: The design relates to a glass panel that incorporates an inset solar cell around its border. The solar cell is incorporated into the glass panel during manufacture. When incorporated into a window, the glass panel enables the window to act as a solar panel.

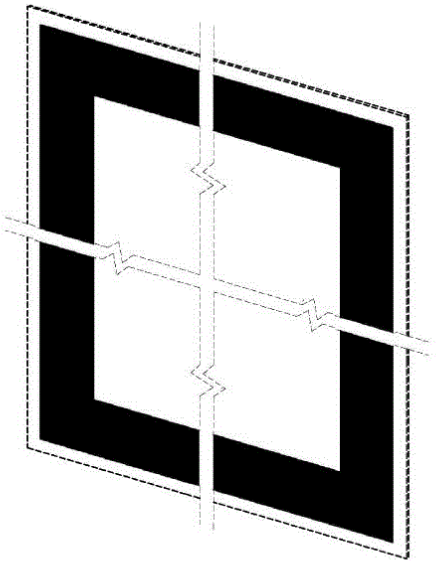
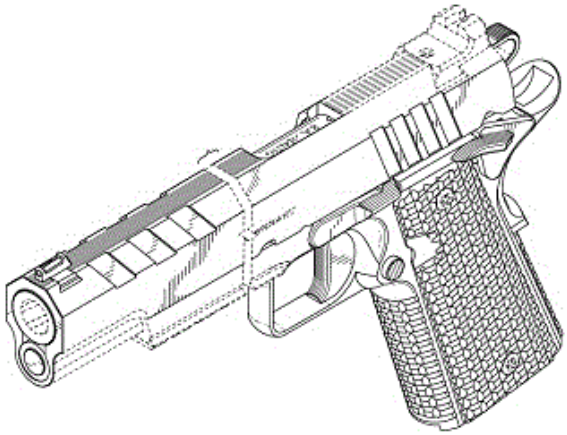


Figure 1

Three-dimensional view

21: A2021/01239 22: 2021-10-06 23: 2019-05-17
43: 2022-10-03
52: Class 22. 24: Part A
71: SPRINGFIELD, INC.
33: US 31: 29/777,383 32: 2021-04-06
54: Pistol
57: The design relates to a pistol. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP AND FRONT PERSPECTIVE VIEW

21: A2021/01275 22: 2021-10-08 23: 2019-05-17
43: 2021-04-09
52: Class 12 24: Part A
71: Piëch IP AG
33: DE 31: 40 2021 100 334.7 32: 2021-04-09
33: DE 31: 40 2021 100 333.9 32: 2021-04-09
54: AUTOMOBILES
57: The design is for an automobile in the form of a two-door coupe. A centrally disposed elongated oval shaped opening is provided in a front bumper. End portions of the bumper are inclined rearwardly away from the opening. A meshed grille is provided below the opening and a pair of vent openings are provided on either side thereof above a splitter. A pair of laterally spaced, rearwardly diverging elongate bulges is provided on a bonnet. Oval shaped headlights are disposed on either side of the automobile. A roof slopes downwardly rearwardly and the width of the roof tapers rearwardly such that bulging haunches extend outwardly above the rear wheels. A generally obround recess is provided in and extends for almost the full width of a rear bumper.



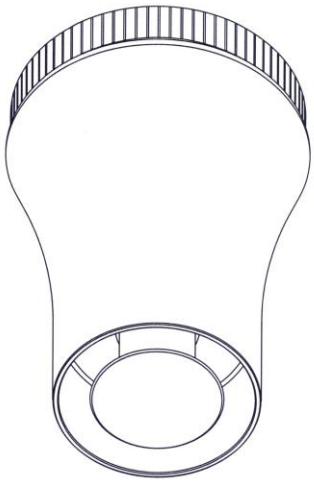
21: A2021/01471 22: 2021-11-24 23: 2019-05-17
43: 2022-09-14
52: Class 09 24: Part A
71: FINTZ, Nissim Isaac
54: CONTAINER
57: The novelty of the design resides in the shape or configuration of a container substantially as shown in the accompanying drawing.



21: A2021/01473 22: 2021-11-24 23: 2019-05-17
43: 2022-09-14
52: Class 09 24: Part A
71: FINTZ, Nissim Isaac

54: CONTAINER

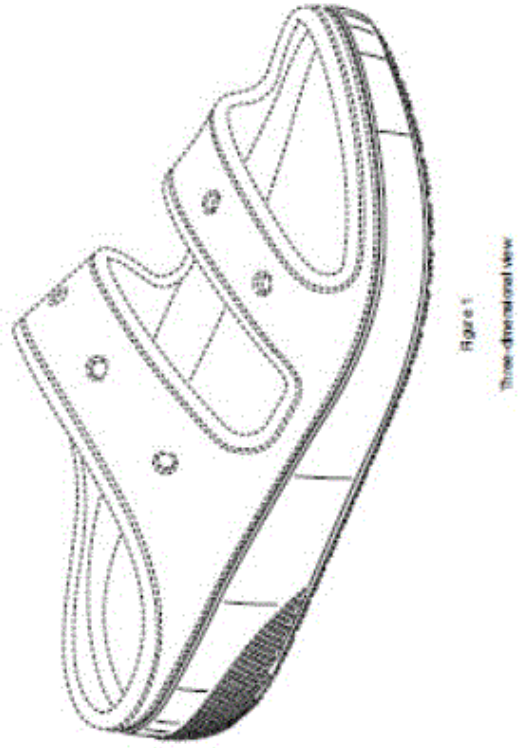
57: The novelty of the design resides in the shape or configuration of a container substantially as shown in the accompanying drawing, irrespective of the height H and the width W of the body B.



21: A2021/01493 22: 2021-12-01 23: 2019-05-17
43: 2021-06-01
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/786,628 32: 2021-06-01

54: FOOTWEAR

57: The present design includes a sole for footwear that has features that make it new and original. The present design includes a sole having a toe portion, a heel portion, and a central portion extending between the toe and heel portion. The sole has a generally wedgelike shape that is taller at the heel portion than at the toe portion. The sole includes a plurality of rows of raised bumps extending from the lower part of the heel portion to the left and right sides of the central portions. The rows of raised bumps curve downwardly at the central portion of the sole. The central portion of the sole has generally flat walls that extend vertically. The bottom of the toe and heel portions of the sole taper upwardly. The top of the sole tapers inwardly.



21: A2021/01494 22: 2021-12-01 23: 2019-05-17
43: 2021-06-01
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/786,630 32: 2021-06-01

54: FOOTWEAR

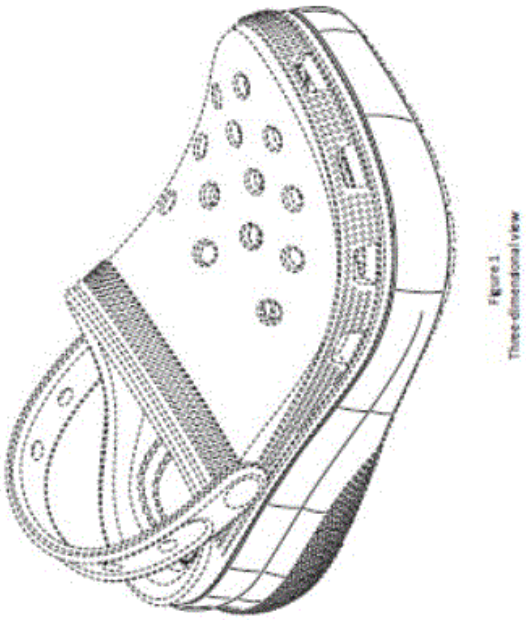
57: The present design includes a low sandal characterized by a slip-on type construction consisting of a sole, and two upper straps. The intersection of the sole and the vamp is characterized by a thin groove. The two upper straps are characterized by rounded holes. There is a first circular groove extending from and around the rear side of the rear-most upper strap to and around the heel portion. There is a second circular groove extending from and around a front portion of the rear-most upper strap, to and around the rear portion of a front-most upper strap, and around the vamp portion connecting the rear-most and front-most upper straps. There is a third circular groove extending from and around the front side of the front-most upper strap, to and around the toe portion of the vamp.



Figure 1

Three-dimensional view

21: A2021/01495 22: 2021-12-01 23: 2019-05-17
43: 2021-06-01
52: Class 02 24: Part A
71: Crocs, Inc.
33: US 31: 29/786,639 32: 2021-06-01
54: FOOTWEAR
57: The present design includes a sole for footwear that has features that make it new and original. The present design includes a sole having a toe portion, a heel portion, and a central portion extending between the toe and heel portion. The heel portion is taller than the toe portion, and the top of the central portion extends between the taller heel portion and the shorter toe portion with a curved upper edge. The sole includes a groove around the back of the sole to the central portion on either side of the sole. The portions of the heel portion above and below the groove have convex profiles. The portion of the heel portion below the groove has raised bumps extending around the back of the sole to the central portion on either side of the sole.



21: A2021/01496 22: 2021-12-02 23: 2019-05-17
43: 2021-06-03
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/786,985 32: 2021-06-03
54: BUCKET SHROUDS
57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a bucket shroud, also known as a wear member, which can be attached to a bucket for ground engaging machinery.

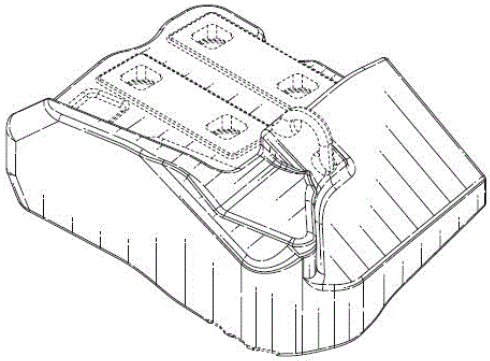


Figure 1

Three-dimensional view

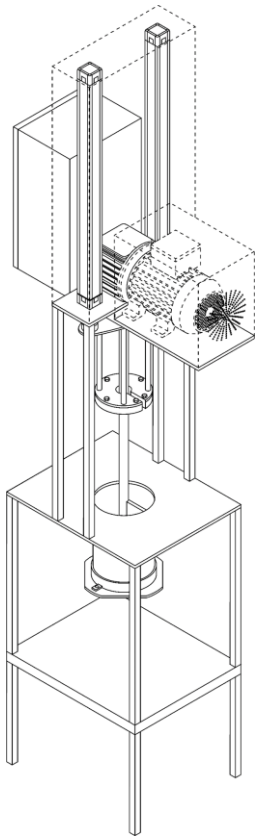
21: A2021/01497 22: 2021-12-03 23: 2019-05-17
43: 2021-06-04
52: Class 2 24: Part A

71: Crocs, Inc.
33: US 31: 29/787,259 32: 2021-06-04
54: FOOTWEAR
57: The footwear includes a top and a sole. The top is implemented in the form of a Y-shaped strap, a V-shaped upper part of which is implemented widened and having round openings on each component and a groove along front and rear edges on its upper side. The sole decreases in height from back to front. An upper side of the sole features a curvature from front to back. On rear and intermediate portions of an upper side of the sole there are figured frames, located one inside the other, polygonal frames, located one inside the other, and curved lines, the said frames and lines being formed by alternating round and stripe-shaped protrusions. On an intermediate portion of a rear side of the sole there is a longitudinal groove. On a lower side of the sole there is a row of stripe-shaped protrusions. Along edges of the front and rear portions there are asymmetrical oval inserts surrounded by a border. Along lateral edges of an intermediate portion of the lower side of the sole there is a cutout.

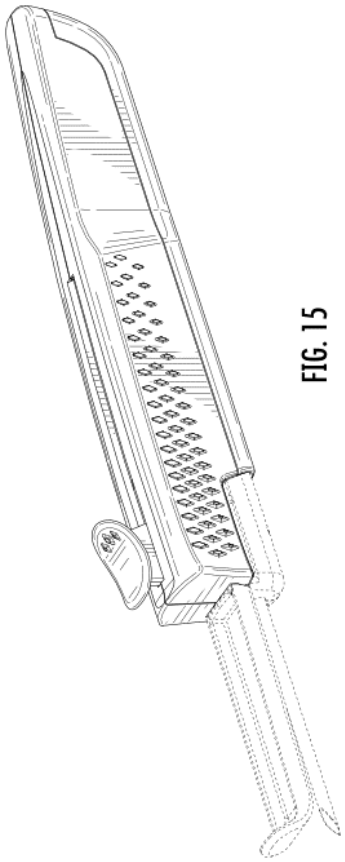


Figure 1
Three-dimensional view

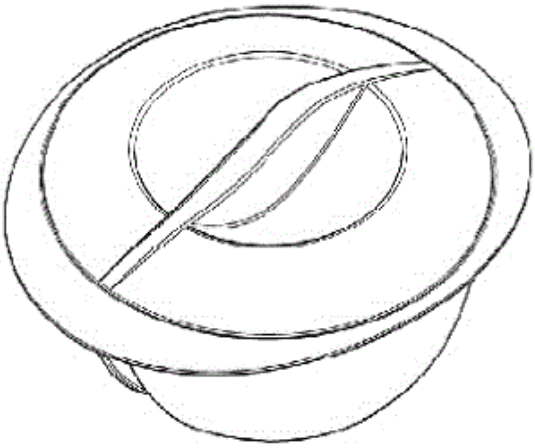
21: A2021/01532 22: 2021-12-15 23: 2019-05-17
43: 2022-10-10
52: Class 31 24: Part A
71: KRIGE, Grove
54: A FOOD PROCESSING MACHINE
57: The design is applied to a food processing machine. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the food processing machine, substantially as illustrated in the accompanying representation. Features of the food processing machine shown in broken lines do not form part of the design and are disclaimed.



21: A2022/00005 22: 2022-01-03 23: 2019-05-17
43: 2022-10-10
52: Class 24 24: Part A
71: LUPIN INC.
33: US 31: 29/797,810 32: 2021-07-02
54: APPLICATOR FOR IMPLANTABLE DRUG DELIVERY
57: The design is applied for an applicator for implantable drug delivery. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation for an applicator for implantable drug delivery, substantially as illustrated in the accompanying representation.



21: A2022/00116 22: 2022-02-03 23: 2019-05-17
43: 2022-10-03
52: Class 7. 24: Part A
71: CHANGING TIDES 1350 CC
54: Bowl
57: The design relates to a bowl. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW OF BOWL

21: A2022/00126 22: 2022-02-09 23: 2019-05-17
43: 2021-12-07
52: Class 7 24: Part A
71: Jura Elektroapparate AG
33: HSIRID(CH) 31: DM/217902 32: 2021-12-07
54: COFFEE MAKERS
57: The design is for a coffee machine comprising a parallelepiped body with a central front wall flanked by convexly curved front walls, a pair of side walls, a convexly curved rear wall with a door and an electrical slot, a roof and a base. The central wall includes a downwardly slanting top wall and a second lower wall. A rectangular member with a round operating button protrudes from the second wall. A pair of cylindrical nozzles protrude from a bottom of the member. A concavely curved lower portion of the central wall leads to a concavely curved drip tray defining horizontal vents. An elongate oblong formation with a round operating button and a cylindrical nozzle protrudes from a front wall. A front of a side wall includes a rectangular arrangement of horizontal vents. The roof includes a pair of raised rectangular members each defining a round recess at a rear and a rectangular vent and a cover flanked by round dials at a front.

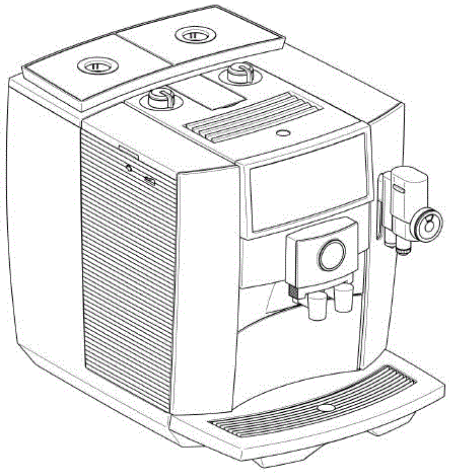
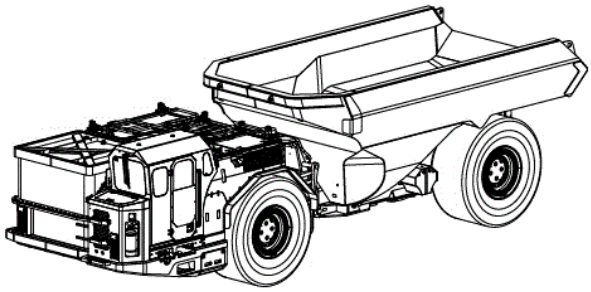


Figure 1

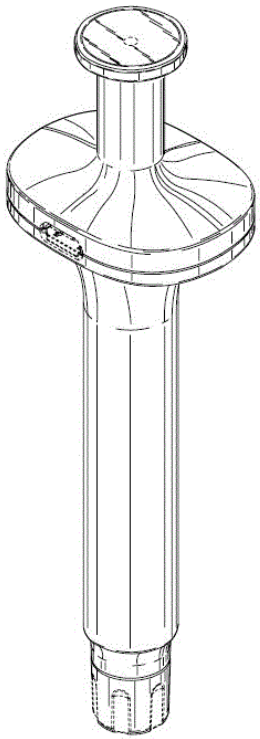
Three-dimensional view

21: A2022/00176 22: 2022-02-21 23: 2019-05-17
43: 2022-09-15
52: Class 15 24: Part A
71: SANDVIK MINING AND CONSTRUCTION OY
33: US 31: 29/805,131 32: 2021-08-25
54: MINING TRUCK
57: The design for which protection is claimed relates to a mining truck shown in perspective front

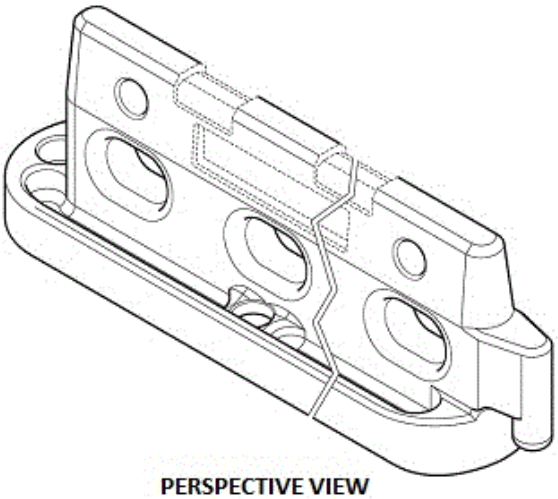
view in the drawing showing the overall appearance thereof.



21: A2022/00202 22: 2022-02-25 23: 2019-05-17
43: 2021-08-27
52: Class 24 24: Part A
71: Janssen Pharmaceutica NV
33: US 31: 29/805,655 32: 2021-08-27
54: PHARMACEUTICAL INGREDIENT MIXING DEVICES
57: The design is for a pharmaceutical ingredient mixing device having an elongate tubular body extending between a top end and a bottom end. The top portion of the body has a flange projecting outwardly from the body. The upper body diameter between the flange and the top end is slightly narrower than the lower body diameter between the flange and the bottom end. The bottom end has a tip diameter that is narrower than the lower body diameter. The top end has a tip diameter that is wider than the upper body diameter.

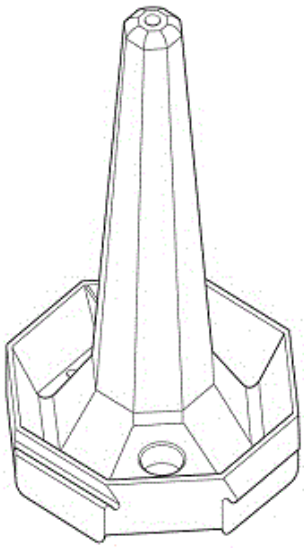


21: A2022/00231 22: 2022-03-07 23: 2019-05-17
43: 2022-10-03
52: Class 25. 24: Part A
71: AFFIRM MANUFACTURING SERVICES (PROPRIETARY) LIMITED T/A ROTOTANK
54: Barrier
57: The design relates to a barrier. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00232 22: 2022-03-07 23: 2019-05-17
43: 2022-10-03
52: Class 25. 24: Part A
71: AFFIRM MANUFACTURING SERVICES (PROPRIETARY) LIMITED T/A ROTOTANK
54: Cone Barrier
57: The design relates to a cone barrier. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2022/00242 22: 2022-03-10 23: 2019-05-17
43: 2022-02-09
52: Class 9 24: Part A
71: Courvoisier S.A.S.
33: US 31: 29/826,133 32: 2022-02-09
54: BOTTLES
57: The design is for a bottle which is axially symmetrical and has a body and neck. The body has a wide circular base and a sidewall which gradually diverges upwardly between the base and a continuous shoulder of the body. The shoulders merge continuously with the neck terminating in an upwardly open round mouth. The body is relatively wide, having a diameter about 80% its height. The neck is nearly as tall as the body is. A circular protrusion (an exception to the axial symmetry) is provided on a portion of the shoulder and is about the same size as the mouth.

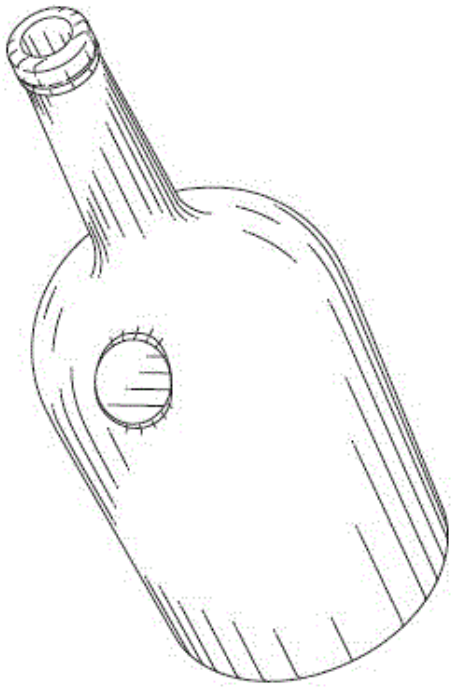


Figure 1

Three-dimensional view

21: A2022/00243 22: 2022-03-10 23: 2019-05-17
43: 2022-02-09
52: Class 9 24: Part A
71: Courvoisier S.A.S.
33: US 31: 29/826,136 32: 2022-02-09
54: BOTTLES
57: The design is for a bottle which is axially symmetrical and has a body and neck. The bottle has a circular base and an upright sidewall which extends between the base and a continuous shoulder of the body. The shoulder gently curves upwardly inwardly towards an upright, elongate cylindrical neck. A mouth defining an opening is provided at the end of the neck. The body is about three times a height of the neck. A circular protrusion (an exception to the axial symmetry) is provided on a portion of the shoulder and is about the same size as the mouth.

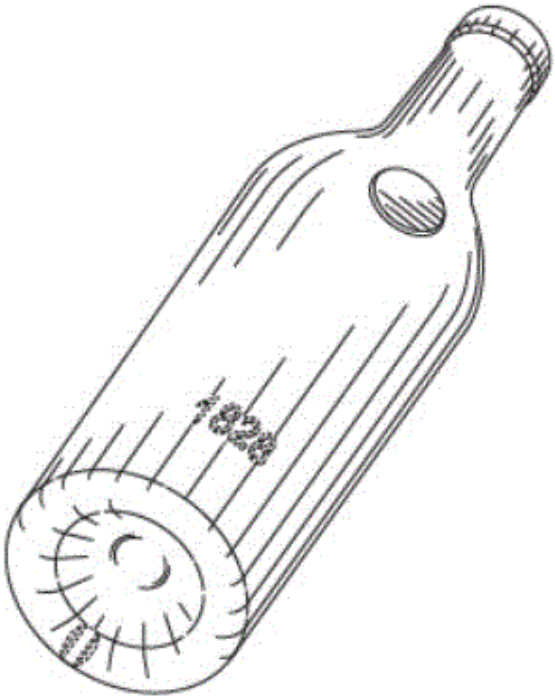


Figure 1

Three-dimensional view

21: A2022/00244 22: 2022-03-10 23: 2019-05-17
43: 2022-02-09
52: Class 9 24: Part A
71: Courvoisier S.A.S.
33: US 31: 29/826,137 32: 2022-02-09
54: BOTTLES
57: The design is for a bottle which is teardrop-shaped and flattened from front to back; it is symmetrical about an upright plane. The bottle has a hexagonal base with opposite rounded vertices. Flat front and rear faces and outwardly curved, ornate sidewalls extend between the base and a neck of the bottle. A series of laterally spaced outwardly curved recesses or large flutes are provided on sidewalls and follow the overall shape of the bottle. The bottle gently curves shoulderlessly towards a short cylindrical neck. A mouth having a flanged rim is provided atop the neck.

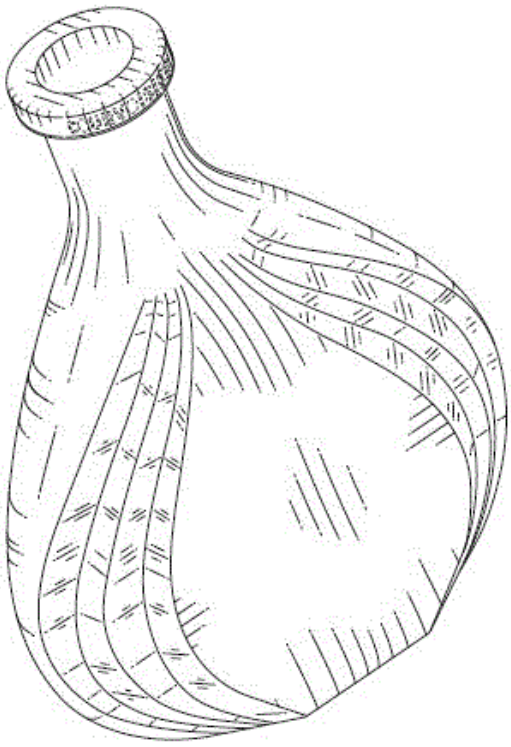


Figure 1

Three-dimensional view

21: A2022/00260 22: 2022-03-14 23: 2019-05-17
43: 2021-09-30
52: Class 16 24: Part A
71: Blaser Group GmbH
33: EM(DE) 31: 008710446-0001 32: 2021-09-30
54: CAMERAS
57: The design is for a camera, and in particular a thermal imaging camera, comprising a cylindrical body having a first and a second round end defining a circular recess accommodating a lens, and a wall extending therebetween. The first end includes a zoom ring with a ridged surface and a focussing ring with spaced-apart trapezoid extensions. A top surface of the wall includes a capsule-shaped raised member housing three operating buttons. A first and second square-shaped member with curved edges is positioned at opposite sides of the wall with a top section slanting inwardly towards the wall. The first member includes a three-sided frame defining a recess housing a lever. The second member includes a square cover attached by an oval clasp. The cover includes an oval element. The second end includes a plurality of concentric rings leading to the lens. A ring with spaced-apart rectangular recesses is positioned towards the second end.

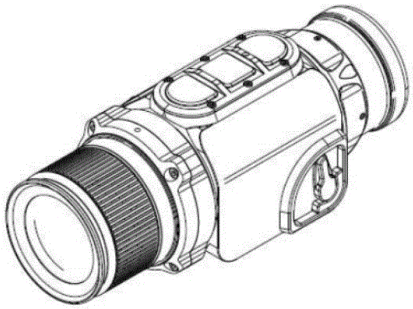


Figure 1

Three-dimensional view

21: A2022/00266 22: 2022-03-16 23: 2019-05-17
43: 2021-09-16
52: Class 13 24: Part A
71: Clearvue Technologies Ltd
33: AU 31: 202115643 32: 2021-09-16
54: GLASS PANELS
57: The design is for a glass panel. The glass panel comprises a rectangular body having a major glass panel portion that is delineated by a peripheral, rectangular inner border. The inner border is in the form of an inset solar cell. The glass panel also has a peripheral outer border that is rectangular in shape. A peripheral minor glass panel portion is provided between the outer border and inner border.

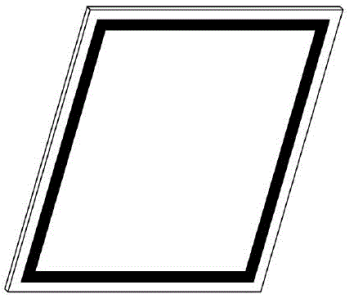
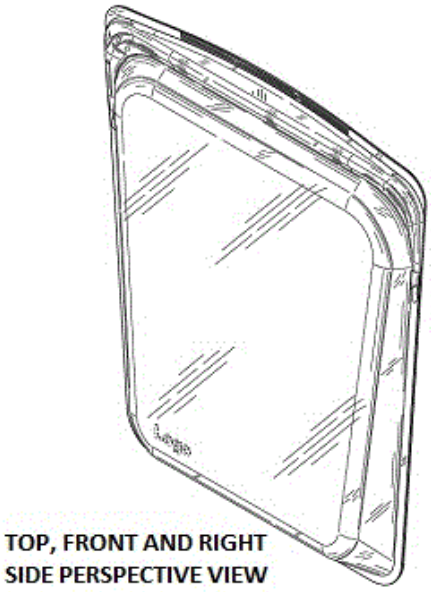


Figure 1

Three-dimensional view

21: A2022/00275 22: 2022-03-18 23: 2019-05-17
43: 2022-10-19
52: Class 7. 24: Part A
71: STASHER, INC.
33: US 31: 29/810,114 32: 2021-10-01
54: Container
57: The design relates to a container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP, FRONT AND RIGHT SIDE PERSPECTIVE VIEW

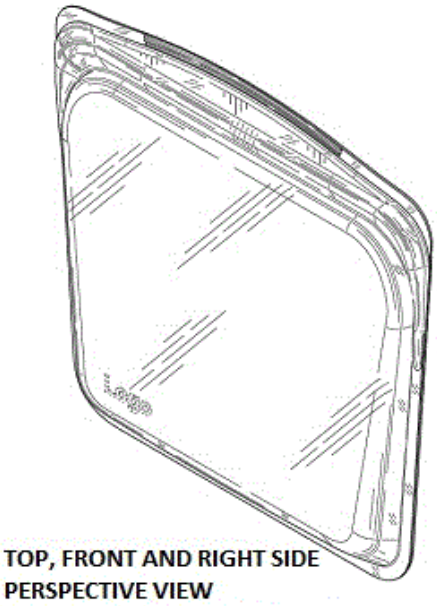
21: A2022/00276 22: 2022-03-18 23: 2019-05-17
43: 2022-10-07
52: Class 7. 24: Part A
71: STASHER, INC.
33: US 31: 29/810,115 32: 2021-10-01
54: Container
57: The design relates to a container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP, FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2022/00277 22: 2022-03-18 23: 2019-05-17
43: 2022-10-07
52: Class 7. 24: Part A
71: STASHER, INC.

33: US 31: 29/810,116 32: 2021-10-01
54: Container
57: The design relates to a container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP, FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2022/00279 22: 2022-03-22 23: 2019-05-17
43: 2022-10-07
52: Class 09 24: Part A
71: HALEWOOD INTERNATIONAL BRANDS LIMITED
33: WO 31: WIPO114051 (International Hague Application) 32: 2022-02-24
54: BOTTLE
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 bottle substantially as illustrated in the accompanying representations. Protection is further claimed for the colour of the bottle.



Figure 1

Front view

21: A2022/00280 22: 2022-03-22 23: 2019-05-17
43: 2022-10-07
52: Class 09 24: Part A
71: HALEWOOD INTERNATIONAL BRANDS LIMITED
33: WO 31: WIPO114051 (International Hague Application) 32: 2022-02-24
54: BOTTLE
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 bottle substantially as illustrated in the accompanying representations. Protection is further claimed for the colour of the bottle.



Figure 1

Front view

21: A2022/00297 22: 2022-03-24 23: 2019-05-17
43: 2022-10-07
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: BR 31: BR302021004788-8 32: 2021-09-28
33: BR 31: BR302021004809-4 32: 2021-09-29
54: A Pouch Container
57: The design relates to a pouch container. The features of the design are those of pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2022/00298 22: 2022-03-24 23: 2019-05-17
43: 2022-10-07
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: BR 31: BR302021004787-0 32: 2021-09-28
33: BR 31: BR302021004808-6 32: 2021-09-29
54: A Pouch Container
57: The design relates to a pouch container. The features of the design are those of pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

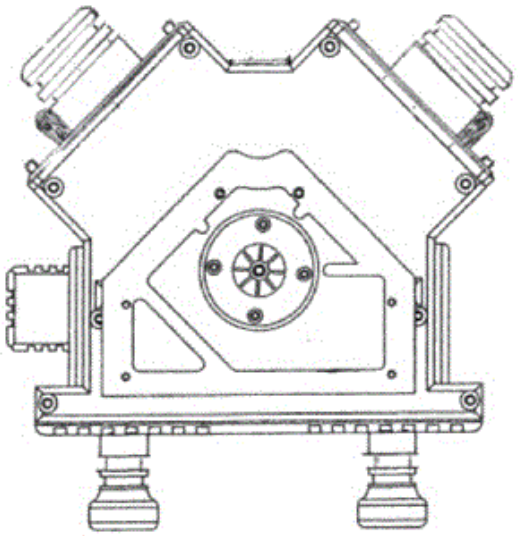
21: A2022/00299 22: 2022-03-24 23: 2019-05-17
43: 2022-10-07
52: Class 9. 24: Part A

71: UNILEVER GLOBAL IP LIMITED
33: BR 31: BR302021004780-2 32: 2021-09-28
33: BR 31: BR302021004786-1 32: 2021-09-28
54: A Pouch Container
57: The design relates to a pouch container. The features of the design are those of pattern and/or ornamentation.



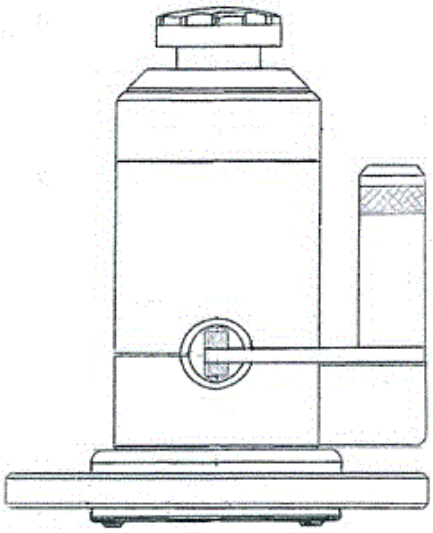
FRONT PERSPECTIVE VIEW

21: A2022/00306 22: 2022-03-25 23: 2019-05-17
43: 2022-10-07
52: Class 7. 24: Part A
71: THE ALESSIO TRUST
54: Cup Warmer
57: The design relates to cup warmer. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT VIEW

21: A2022/00307 22: 2022-03-25 23: 2019-05-17
43: 2022-10-07
52: Class 31. 24: Part A
71: THE ALESSIO TRUST
54: Milk Frother
57: The design relates to milk frother. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT VIEW

21: A2022/00312 22: 2022-03-25 23: 2019-05-17
43: 2021-09-28
52: Class 14 24: Part A
71: Sky CP Limited
33: GB 31: 6165976 32: 2021-09-28

54: TELEVISIONS

57: The design is for a television and comprises a rectangular housing with a flat front and rear face separated by opposing sidewalls, a top wall and a bottom wall. The housing encapsulates a prominent rectangular screen that occupies most of the front face. A bottom portion of the front face includes a centrally positioned elongate element. The rear face includes a centrally positioned rectangular cover with rounded corners. A bottom corner of the rear face defines a rectangular recess. A bottom portion of a first sidewall includes a rectangular port and two circular ports. A bottom portion of a second sidewall includes a rectangular vent.

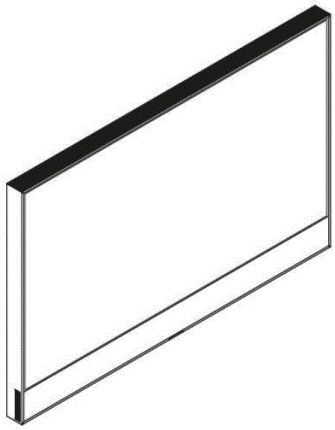


Figure 1

Three-dimensional view

21: A2022/00313 22: 2022-03-25 23: 2019-05-17
43: 2021-09-28
52: Class 14 24: Part A
71: Sky CP Limited
33: GB 31: 6165977 32: 2021-09-28

54: TELEVISION STANDS

57: The design is for a television stand and comprises a flat rectangular base plate having rounded corners, an elongate arm protruding upwardly from a rectangular recess at a rear portion of the base, a short rectangular neck extending forwardly from an upper portion of the arm, and a flat rectangular upright member attached to the neck, perpendicular to the base plate. The arm has a rectangular cross section with rounded corners. The rectangular member defines a rectangular recess within which an end of the neck is received, the recess including a band that extends transversely across the recess. The band defines four circular apertures. The rectangular member defines a circular aperture at each corner.

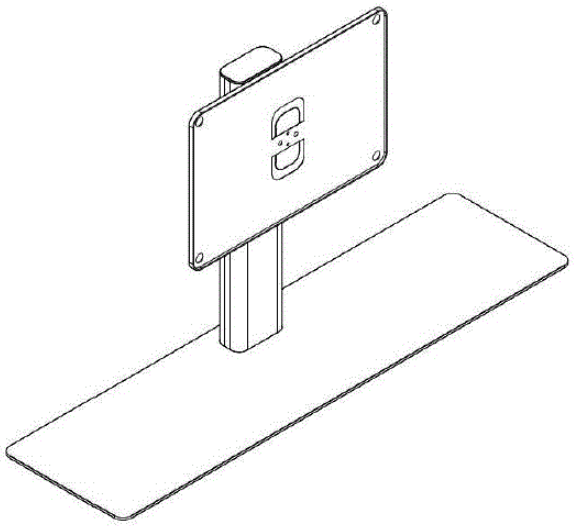


Figure 1

Three-dimensional view

21: A2022/00314 22: 2022-03-25 23: 2019-05-17
43: 2021-09-28
52: Class 14 24: Part A
71: Sky CP Limited
33: GB 31: 6165978 32: 2021-09-28

54: TELEVISIONS WITH STANDS

57: The design is for a television with stand, comprising a television having a rectangular housing with a flat front and rear face separated by opposing sidewalls, a top wall and a bottom wall. The housing encapsulates a prominent rectangular screen that occupies most of the front face. A bottom portion of the front face includes a centrally positioned elongate element. A bottom corner of the rear face defines a rectangular recess. A bottom portion of a first sidewall includes a rectangular port and two circular ports. A bottom portion of a second sidewall includes a rectangular vent. The rear face is attached to a stand, a rectangular member with rounded corners attaching to a corresponding recess defined in the rear face. A short rectangular neck extends rearwardly from the rectangular member to an elongate arm. The arm extends downwardly and received in a rectangular recess of a flat rectangular base plate having rounded corners.

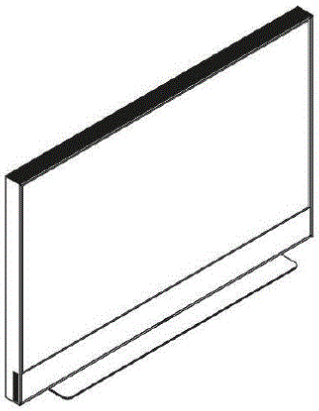


Figure 1

Three-dimensional view

21: A2022/00315 22: 2022-03-25 23: 2019-05-17
43: 2021-09-28
52: Class 14 24: Part A
71: Sky CP Limited
33: GB 31: 6165979 32: 2021-09-28
54: TELEVISION FASCIAS
57: The design is for television fascias and comprises a flat rectangular member having a front face and a rear face. The rear face includes an irregular hexagonal shaped member towards each end and a centrally positioned circular member. Adjacent to the circular member, the rear face defines a recess having a central rectangular shape flanked by a pair of dome-shapes that are joined to the rectangular shape by short bridges.

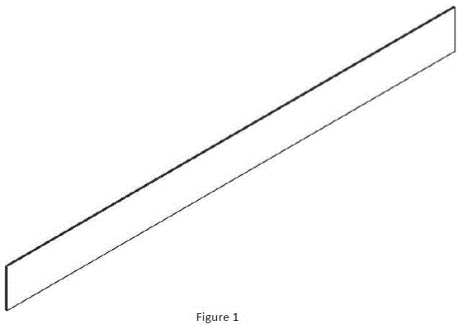
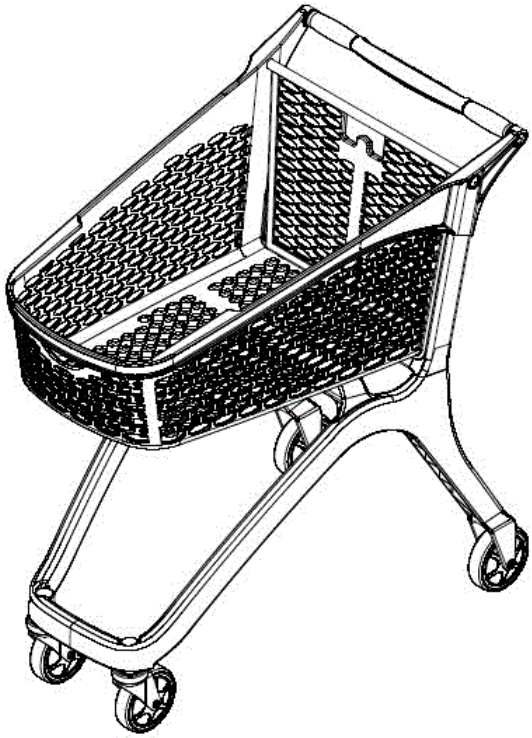


Figure 1

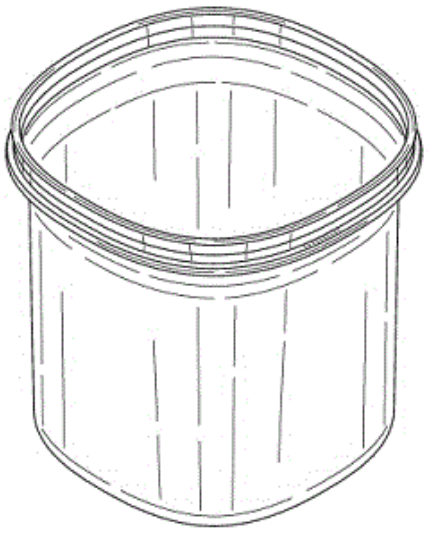
Three-dimensional view

21: A2022/00318 22: 2022-03-25 23: 2019-05-17
43: 2022-03-25
52: Class 12 24: Part A
71: SUPERCART SOUTH AFRICA (PTY) LTD
54: TROLLEY
57: The design is applied to a trolley, and in particular to an all plastic shopping trolley. The features of the design for which protection is claimed include the shape and/or configuration of a trolley, substantially as illustrated in the accompanying representations.



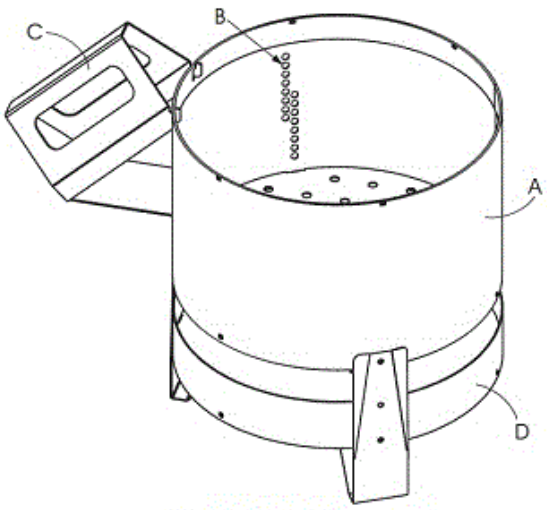
Three-dimensional view from front

21: A2022/00338 22: 2022-03-31 23: 2019-05-17
43: 2022-10-07
52: Class 7. 24: Part A
71: DART INDUSTRIES INC.
33: US 31: 29/814,610 32: 2021-11-08
54: Storage Container
57: The design relates to a storage container. The features of the design are those of shape and/or configuration and/or ornamentation.



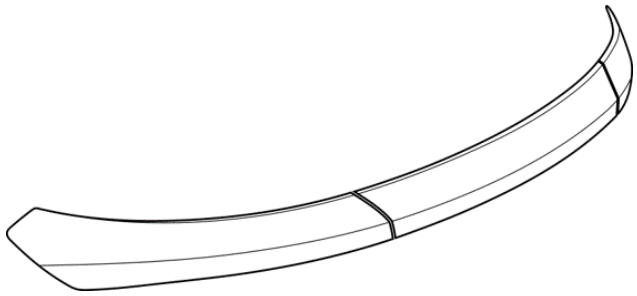
TOP, FRONT AND LEFT SIDE PERSPECTIVE VIEW

21: A2022/00339 22: 2022-03-31 23: 2019-05-17
43: 2022-10-07
52: Class 23. 24: Part A
71: CMDK PROJECTS (PTY) LTD
54: A Portable Fire Pit
57: The design relates to a portable fire pit. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/00357 22: 2022-04-05 23: 2019-05-17
43: 2022-10-19
52: Class 12 24: Part A
71: KIRKLAND, John Sebastian Turner
54: MOTOR VEHICLE STICKER SET
57: The design is applied to a motor vehicle sticker set. The features of the design for which protection is claimed are those of the shape and/or configuration and/or ornamentation of the motor vehicle sticker set, substantially as illustrated in the accompanying representation.



21: A2022/00360 22: 2022-04-06 23: 2019-05-17
43: 2021-10-07
52: Class 9 24: Part A
71: Johnson & Johnson Consumer Inc.
33: US 31: 29/810,662 32: 2021-10-07
54: BOTTLES
57: The design is for a bottle which comprises a generally rectangular body having upper, middle and lower portions, in front view. The body is generally oval in cross section and has a base with an inclined or bevelled edge, bulging front and rear walls spaced apart by a pair of side walls extending upwardly from the base and an inwardly inclined or tapering shoulder portion extending from the walls. The bottle's middle portion is marginally indented relative to its upper and lower portions.

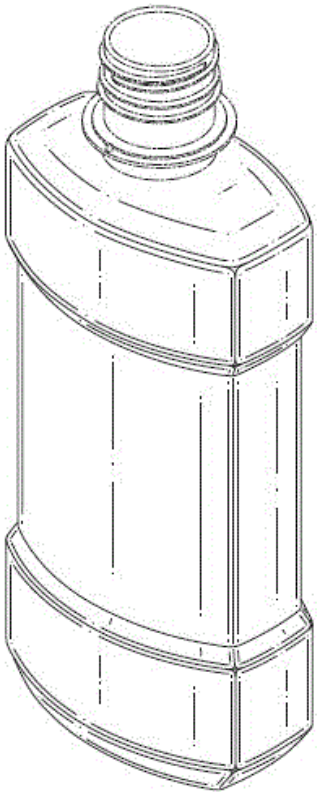


Figure 1

Three-dimensional view

21: A2022/00361 22: 2022-04-06 23: 2019-05-17
43: 2021-10-07
52: Class 32 24: Part A
71: Johnson & Johnson Consumer Inc.
33: US 31: 29/810,665 32: 2021-10-07
54: GRAPHIC DESIGNS
57: The design is for a graphic design comprising an illustration of a side view of a cap (as in Fig. 5) having two opposing platform segments (for applying manual pressure) with illustrative V-shaped recesses and two narrow spaced-apart extensions along its lower wall. Arrows are shown fitting into each illustrative V-shaped recess showing direction (for manual pressure). A third arrow curves from a lower portion of a left side towards a second of the two extensions on a right side (showing direction for turning illustrated cap).

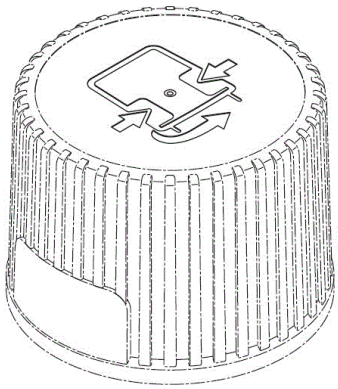


Figure 1

Three-dimensional view

21: A2022/00362 22: 2022-04-06 23: 2019-05-17
43: 2021-10-07
52: Class 09 24: Part A
71: Johnson & Johnson Consumer Inc.
33: US 31: 29/810,663 32: 2021-10-07
54: CAPS
57: The design is for a cap comprising a cylindrical body having a peripheral side wall extending between a flat top surface and a bottom open end. The bottom end includes a peripheral collar. The side wall includes a plurality of closely spaced-apart longitudinally extending members extending upward from the collar. The side wall further defines a pair of diagonally opposing U-shaped gripping surfaces positioned immediately above the collar.

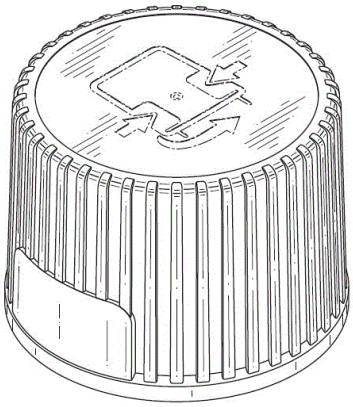


Figure 1

Three-dimensional view

21: A2022/00363 22: 2022-04-06 23: 2019-05-17
43: 2021-10-07
52: Class 9 24: Part A

71: Johnson & Johnson Consumer Inc.
33: US 31: 29/810,661 32: 2021-10-07
54: BOTTLES
57: The design is for a bottle which comprises a generally rectangular body having upper, middle and lower portions, in front view. The body is generally oval in cross section and has a base with an inclined or bevelled edge, bulging front and rear walls spaced apart by a pair of side walls extending upwardly from the base and an inwardly inclined or tapering shoulder portion extending from the walls. The bottle'smiddle portion is marginally indented relative to its upper and lower portions.

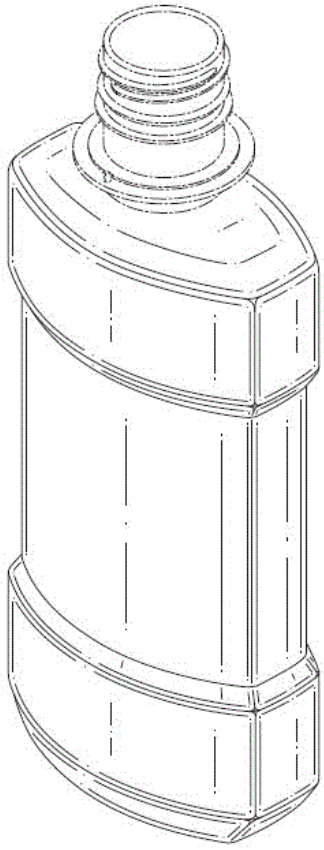


Figure 1

Three-dimensional view

21: A2022/00364 22: 2022-04-06 23: 2019-05-17
43: 2021-10-07
52: Class 9 24: Part A
71: Johnson & Johnson Consumer Inc.
33: US 31: 29/810,659 32: 2021-10-07
54: BOTTLES
57: The design is for a bottle which comprises a generally rectangular body having upper, middle and lower portions, in front view. The body is generally oval in cross section and has a base with an inclined or bevelled edge, bulging front and rear walls spaced apart by a pair of side walls extending upwardly from the base and an inwardly inclined or tapering shoulder portion extending from the walls. The bottle's middle portion is marginally indented relative to its upper and lower portions.

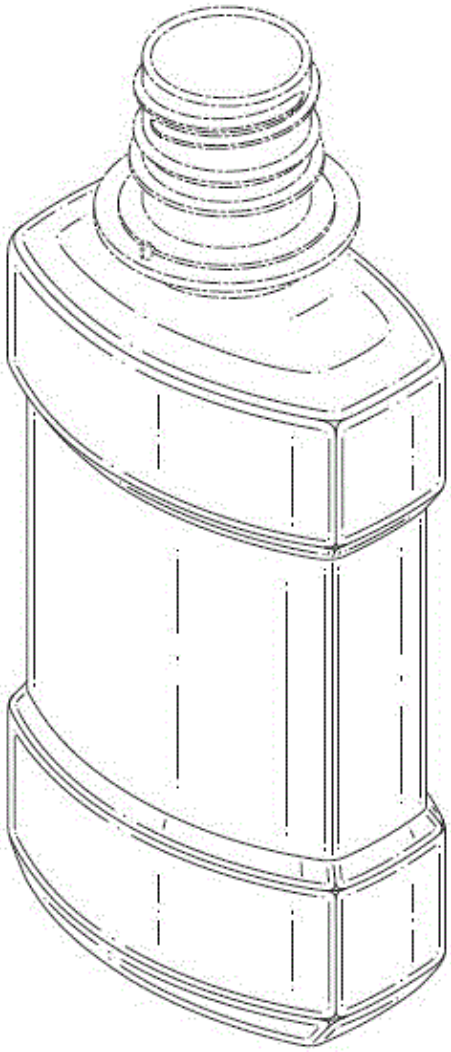
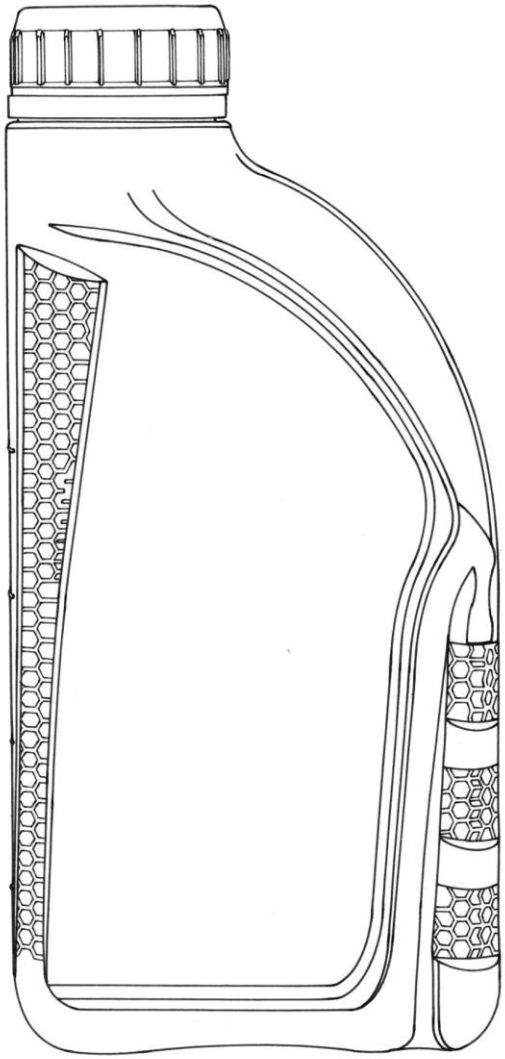


Figure 1

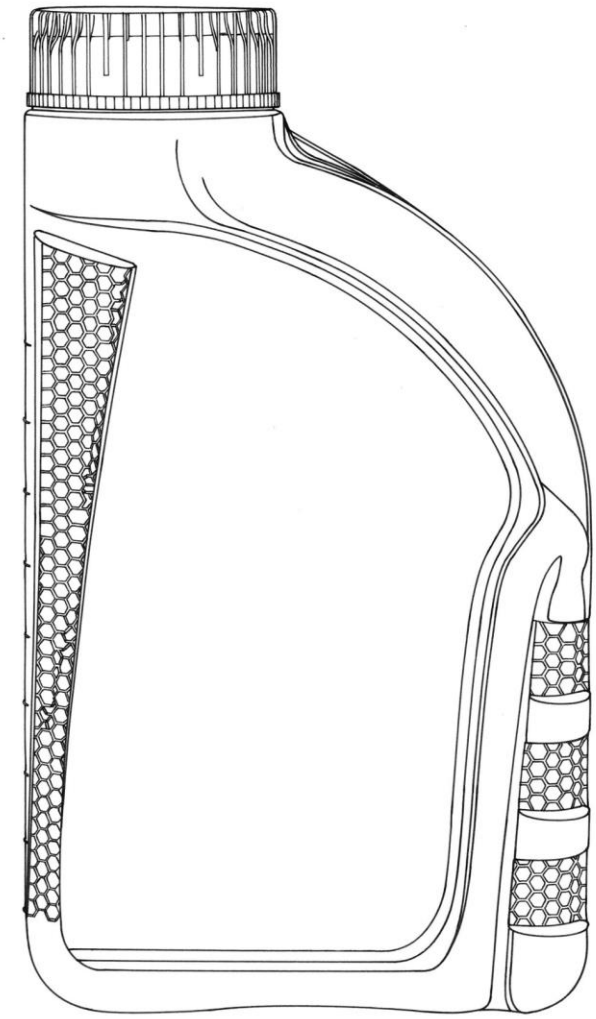
Three-dimensional view

21: A2022/00375 22: 2022-04-07 23: 2019-05-17
43: 2022-10-19
52: Class 09 24: Part A
71: FUCHS PETROLUB SE
33: WO 31: DM/217914 32: 2021-11-01
54: STORAGE CAN FOR OIL

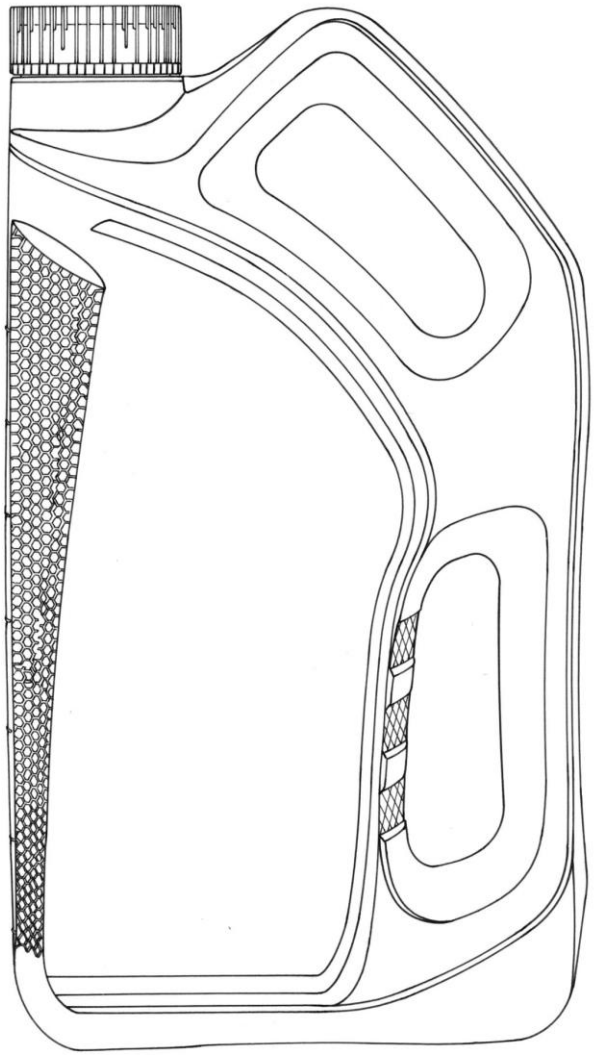
57: The design is applied to a storage can for oil. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the storage can for oil, substantially as illustrated in the accompanying representation.



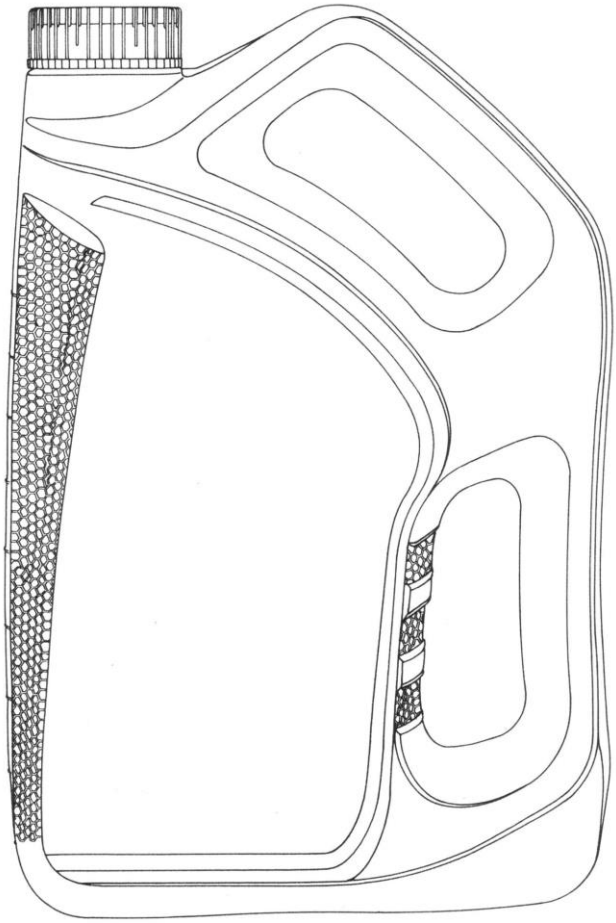
21: A2022/00376 22: 2022-04-07 23: 2019-05-17
43: 2022-10-19
52: Class 09 24: Part A
71: FUCHS PETROLUB SE
33: WO 31: DM/217914 32: 2021-11-01
54: STORAGE CAN FOR OIL
57: The design is applied to a storage can for oil. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the storage can for oil, substantially as illustrated in the accompanying representation.



21: A2022/00377 22: 2022-04-07 23: 2019-05-17
43: 2022-10-19
52: Class 09 24: Part A
71: FUCHS PETROLUB SE
33: WO 31: DM/217914 32: 2021-11-01
54: STORAGE CAN FOR OIL
57: The design is applied to a storage can for oil. 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 storage can for oil, substantially as illustrated in the accompanying representation.



21: A2022/00378 22: 2022-04-07 23: 2019-05-17
43: 2022-10-19
52: Class 09 24: Part A
71: FUCHS PETROLUB SE
33: WO 31: DM/217914 32: 2021-11-01
54: STORAGE CAN FOR OIL
57: The design is applied to a storage can for oil. 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 storage can for oil, substantially as illustrated in the accompanying representation.



21: A2022/00388 22: 2022-04-11 23: 2019-05-17
43: 2021-10-12
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402021100935.3 32: 2021-10-12
54: MOTOR VEHICLES
57: The design is for a motor vehicle comprising a front face with a pair of octagonal kidney grilles with horizontal slats which are flanked by a pair of slim headlights. A lower portion of the front face is recessed with upper corners extending into slanted side walls and flanked by a pair of elongate air-intake grilles. A central front portion of a bonnet is recessed to accommodate a badge. Sides of the bonnet are recessed. A longitudinal swage line runs along each side below each window, slanting upwards at a rear. A prominent elongate recess extends along a lower portion of the sides. A central portion of the roof is recessed and diverges toward the rear window with slanted surfaces. A rear face includes a pair of elongate slim taillights with ends curving upwardly along each side to a prominent triangular feature. A pair of sharply defined triangular

recesses accommodate a pair of two vertically stacked hexagonal exhaust tailpipes.

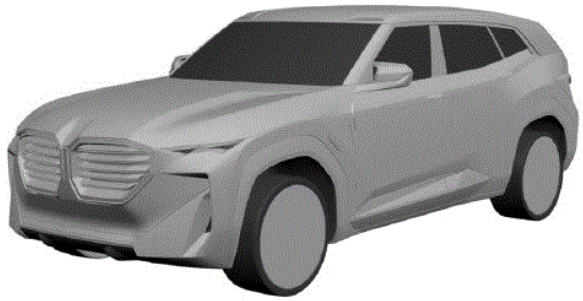
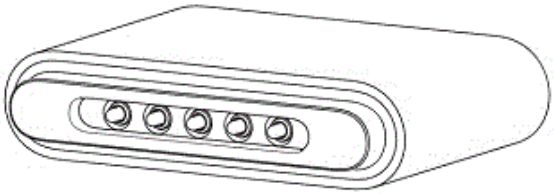


Figure 1

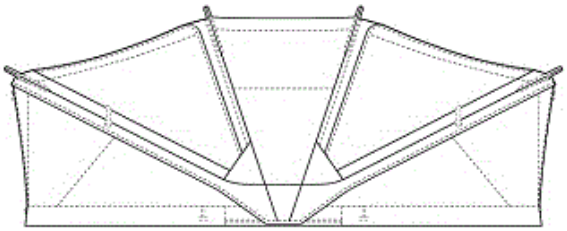
Three-dimensional view

21: A2022/00398 22: 2022-04-13 23: 2019-05-17
43: 2022-10-19
52: Class 13. 24: Part A
71: APPLE INC.
33: US 31: 29/811,979 32: 2021-10-18
54: Connector
57: The design relates to a connector. The features of the design are those of shape and/or configuration and/or ornamentation.



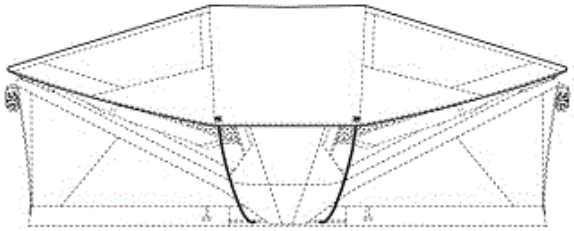
PERSPECTIVE VIEW

21: A2022/00424 22: 2022-04-21 23: 2019-05-17
43: 2022-10-19
52: Class 21. 24: Part A
71: THULE SWEDEN AB
33: US 31: 29/813,948 32: 2021-11-02
54: Tent
57: The design relates to a tent. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT VIEW

21: A2022/00425 22: 2022-04-21 23: 2019-05-17
43: 2022-10-19
52: Class 21. 24: Part A
71: THULE SWEDEN AB
33: US 31: 29/813,948 32: 2021-11-02
54: Part of a Tent
57: The design relates to a part of a tent. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT VIEW

21: A2022/00427 22: 2022-04-21 23: 2019-05-17
43: 2021-10-22
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA
33: HSIRID(CH) 31: DM/217036 32: 2021-10-22
54: CASES, DIALS AND ALL OTHER ACCESSORIES AND PARTS, FOR WATCHES
57: The design is for a watch. The watch has a casing, a window through which a dial is visible and a bezel surrounding the window. An outer edge of the bezel is in the form of a regular dodecagon, each side having a series of indentations. The watch includes hour, minute and second hands. The dial is circular and includes an outer ring of second markings and hour markings positioned inside the ring of second markings. The face of the dial inside the second markings includes a pattern of horizontally arranged, vertically spaced apart lines. A date window is positioned at the six o'clock hour marking. Pairs of lugs protrude from opposite ends of the casing. A ribbed crown protrudes from a side of the casing. The casing has a circular rear face

that has a centrally disposed octagram that is connected to two concentric polygonal shapes provided thereon.

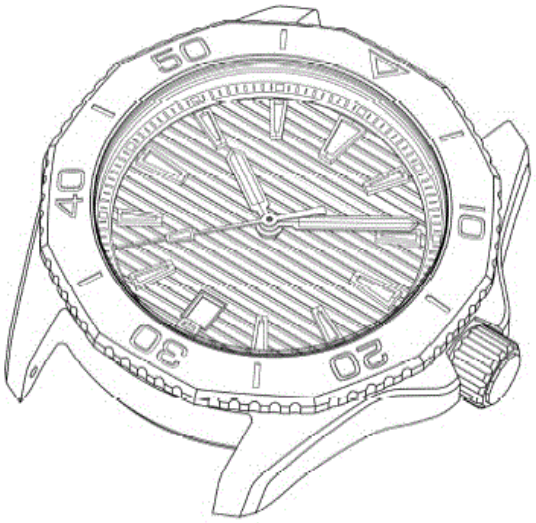
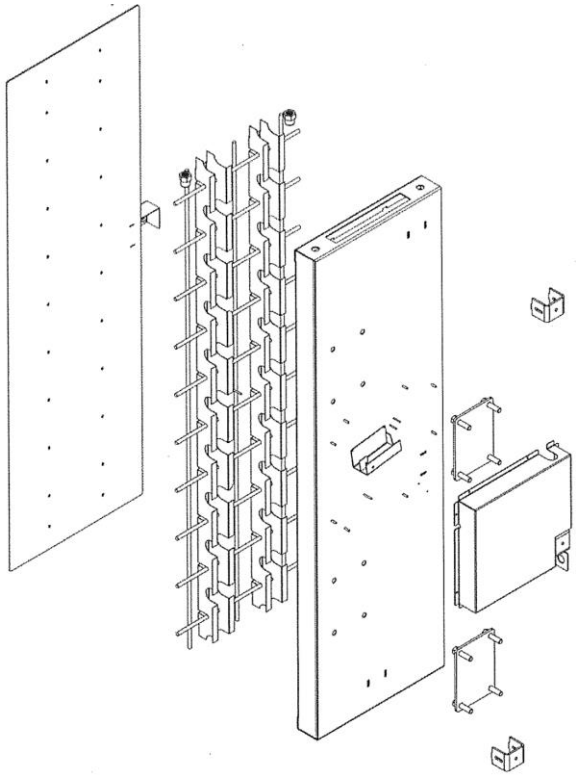


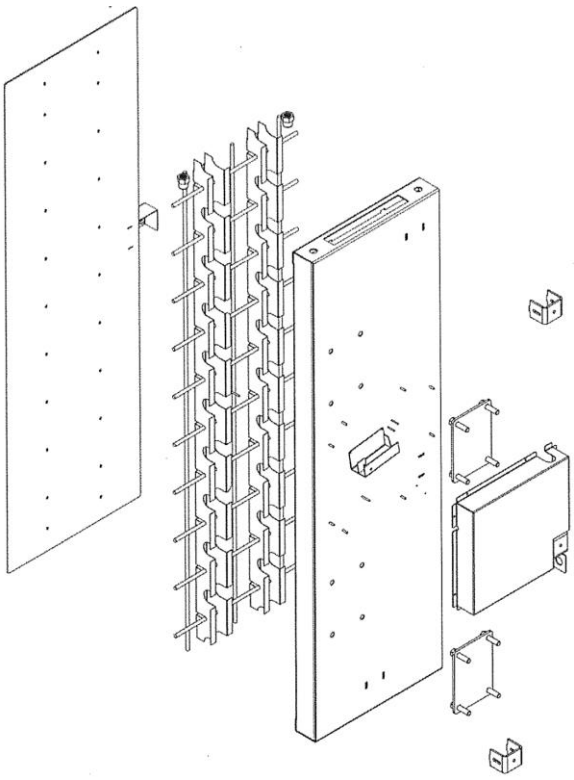
Figure 1

Three-dimensional view

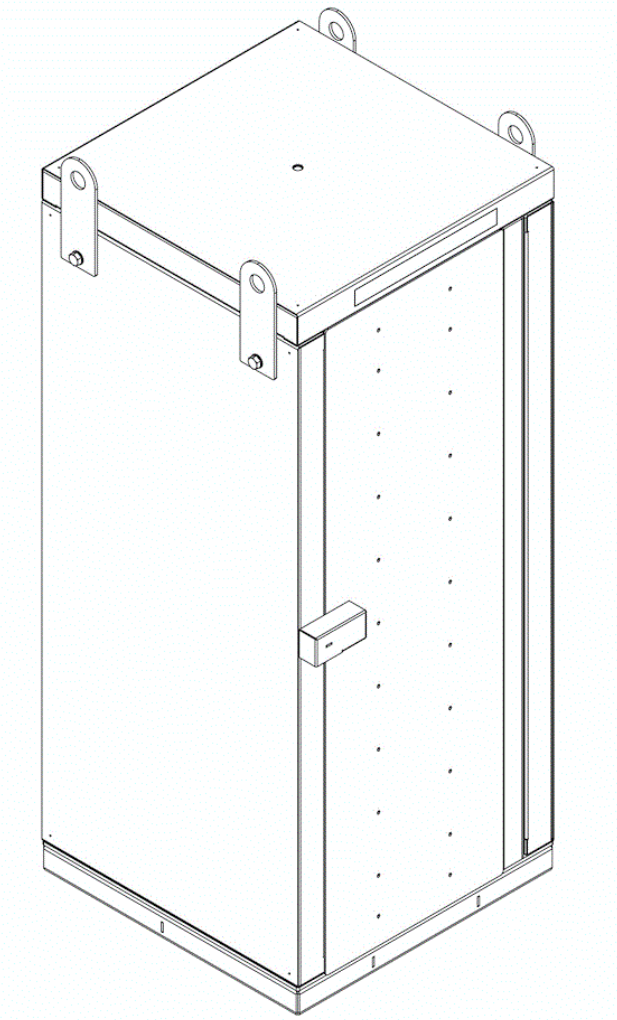
21: A2022/01204 22: 2022-10-05 23: 2019-05-17
43: 2022-11-16
52: Class 25 24: Part A
71: NATIONAL STAILESS STEEL CENTER, NALEDI TELECOMS (PTY) LTD
54: PANELS FOR A MODULAR SECURITY CABINET
57: Protection is claimed for the features of pattern, configuration, shape and/or ornamentation of panels for a modular security cabinet substantially as shown in the accompanying representations.



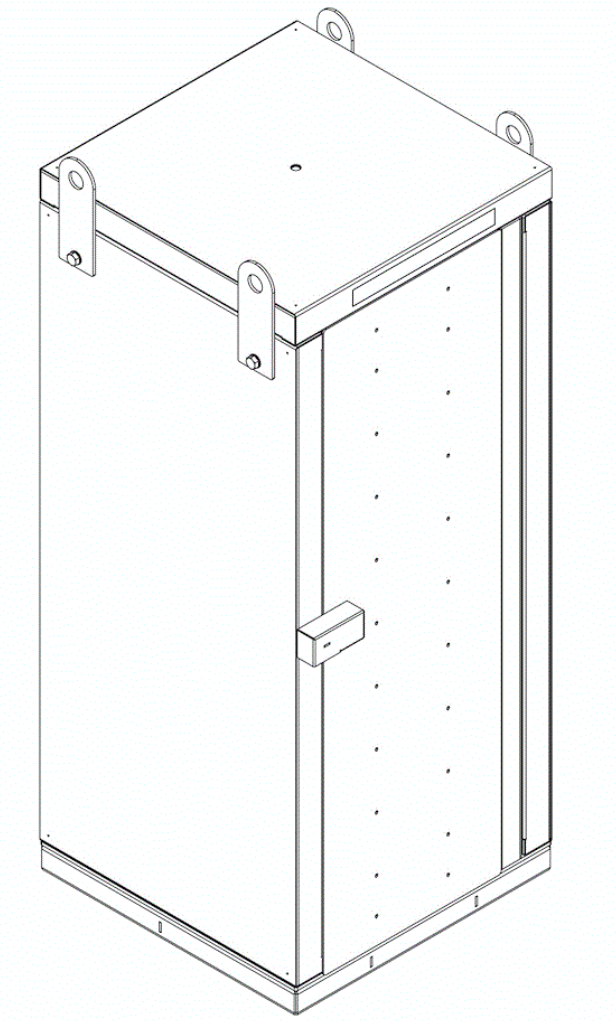
21: A2022/01205 22: 2022-10-05 23: 2019-05-17
43: 2022-11-16
52: Class 06 24: Part A
71: NATIONAL STAILESS STEEL CENTER, NALEDI TELECOMS (PTY) LTD
54: PANELS FOR A MODULAR SECURITY CABINET
57: Protection is claimed for the features of pattern, configuration, shape and/or ornamentation of panels for a modular security cabinet substantially as shown in the accompanying representations.



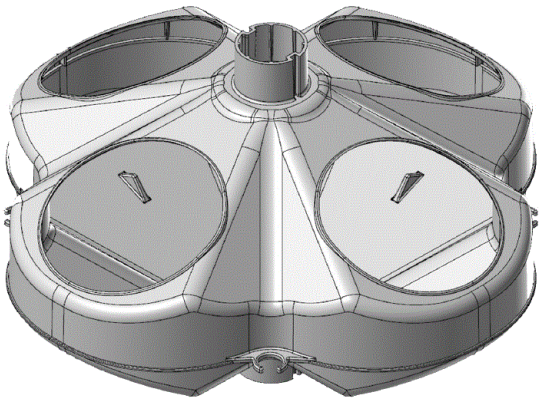
21: A2022/01206 22: 2022-10-05 23: 2019-05-17
43: 2022-11-16
52: Class 06 24: Part A
71: NATIONAL STAINLESS STEEL CENTRE (Pty) Ltd, NALEDI TELECOMS (Pty) Ltd
54: MODULAR SECURITY CABINET
57: The design relates to a Modular security cabinet. The features of the design are those of shape and/or pattern and/or configuration.



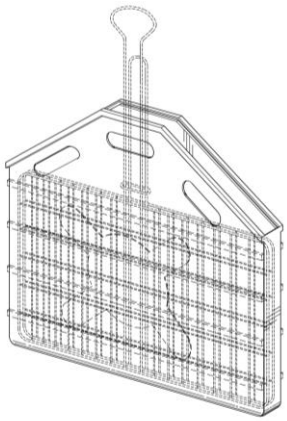
21: A2022/01207 22: 2022-10-05 23: 2019-05-17
43: 2022-11-03
52: Class 25 24: Part A
71: NATIONAL STAINLESS STEEL CENTRE (Pty) Ltd, NALEDI TELECOMS (Pty) Ltd
54: MODULAR SECURITY CABINET
57: The design relates to a Modular security cabinet. The features of the design are those of shape and/or pattern and/or configuration.



21: A2022/01391 22: 2022-11-04 23: 2019-05-17
43: 2022-11-22
52: Class 8 24: Part A
71: Louis Wilken
54: PLANT HOLDER
57: The design relates to a Plant holder. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



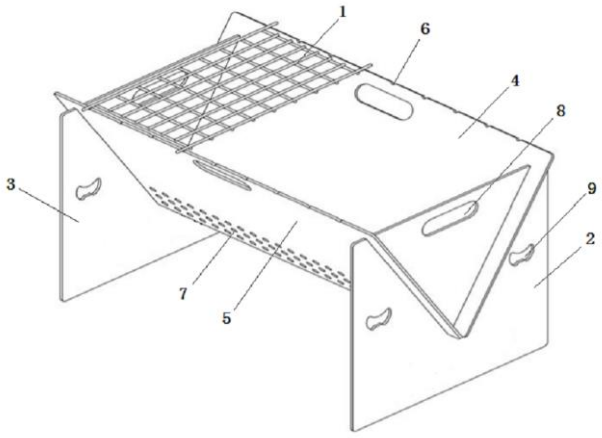
21: F2018/01628 22: 2018-10-22 23: 2019-05-17
43: 1900-01-01
52: Class 07 24: Part F
71: VERWEY, Phillipus Martienus
54: BRAAI GRID CARRY CASES
57: The design is for a carry case for a braai grid. The carry case is in the form of a rigid rectangular prism sleeve with tapered sides and an opening in a top end of the carry case. The carry case is shaped and dimensioned to enclose a braai grid which is insertable through the opening in the top end. The carry case includes three sets of carry handle cutouts to allow a user to transport the enclosed braai grid with ease. The three sets of carry handle cutouts are positioned along the tapered sides and the top end of the rigid sleeve. A bottom section of the carry case is liquid tight for holding a cleaning liquid.



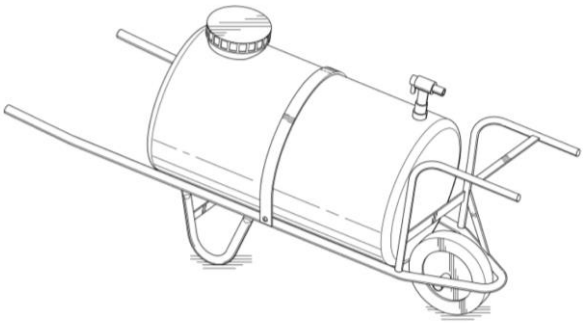
Three-dimensional view in use

21: F2019/01614 22: 2019-10-29 23: 2019-05-17
43: 2022-09-02
52: Class 07 24: Part F
71: SUVDOORSTEP PTY LTD
54: AN OUTDOOR PORTABLE OVEN

57: The novelty of the design as applied to a portable oven resides in the features of shape and/or configuration and/or pattern as applied to the article as shown in the representations.



21: F2019/01620 22: 2019-10-30 23: 2019-05-17
43: 1900-01-01
52: Class 12 24: Part F
71: VERWEY, Phillipus Martienus
54: WHEELBARROWS
57: The design is for a wheelbarrow. Specifically, the design is for a wheelbarrow for transporting fluids. The wheelbarrow includes a frame, which defines a wheel receiving formation at a front end of the wheelbarrow and two V-shaped supports at a rear end of the wheelbarrow. The frame further defines spaced-apart handles which extend rearwards from the two V-shaped supports. At the front end of the wheelbarrow, the frame defines two front-facing legs on which the wheelbarrow can stand in an upright position. The wheelbarrow also includes a fluid tank which is supported by the frame, between the V-shaped supports and the front-facing legs. The fluid tank includes an inlet for receiving fluid when the wheelbarrow is in a horizontal position and an outlet for releasing fluid when in the upright position.



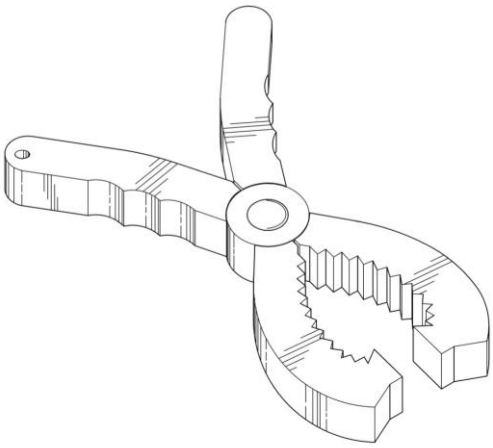
Three-dimensional view

21: F2020/01020 22: 2020-07-24 23: 2019-05-17
43: 2022-09-19
52: Class 9 24: Part F
71: GCS German Capsule Solution GmbH
33: EM 31: 007570379-0001 32: 2020-01-29
54: BEVERAGE PODS
57: The drawing shows a bottom perspective view of a beverage pod showing the overall appearance thereof.



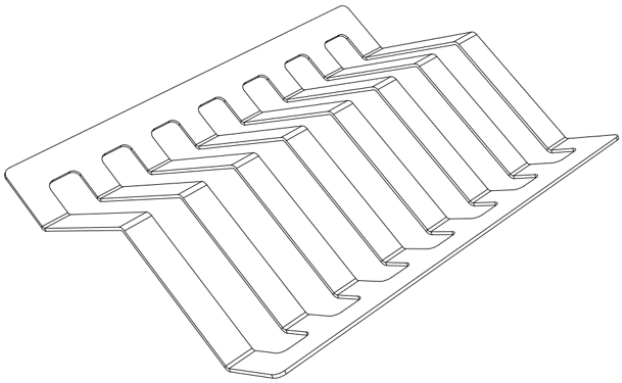
21: F2020/01109 22: 2020-08-14 23: 2019-05-17
43: 2022-10-27
52: Class 08 24: Part F
71: VILJOEN, Calla
54: HAND TOOLS
57: The design is for a hand tool for opening screw lids of industrial containers. The hand tool includes two movable arms, each arm includes a central

attachment portion, separating each arm into a front gripping portion and a rear handling portion. The two central attachment portions are aligned and pivotally connected to each other to provide a pivot point on the hand tool. The gripping portion of the arms are curved inwardly to form a pair of jaws having a plurality of teeth. The pair of jaws functions as a set of tongs which can grip onto a lid when placed there over and pushed towards each other. The rear handling portions of the arms form a handgrip. When the handling portions are pushed together, the jaws move towards each other to grip the lid, by then applying a rotational force to the handgrip, the lid can be rotated.

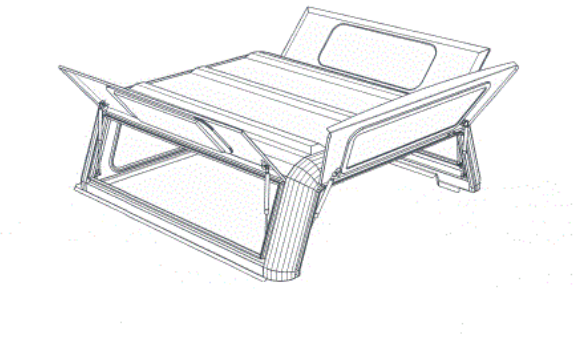


Three-dimensional view

21: F2020/01340 22: 2020-10-08 23: 2019-05-17
43: 2022-10-10
52: Class 23 24: Part F
71: G.LEE DESIGN CONSULTING (PTY) LTD
54: FIRE STARTER
57: The design is applied to a fire starter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the fire starter, substantially as illustrated in the accompanying representation. The features of the vents of the fire starter do not form part of the design and are disclaimed. Features shown in broken lines do not form part of the design and are disclaimed.

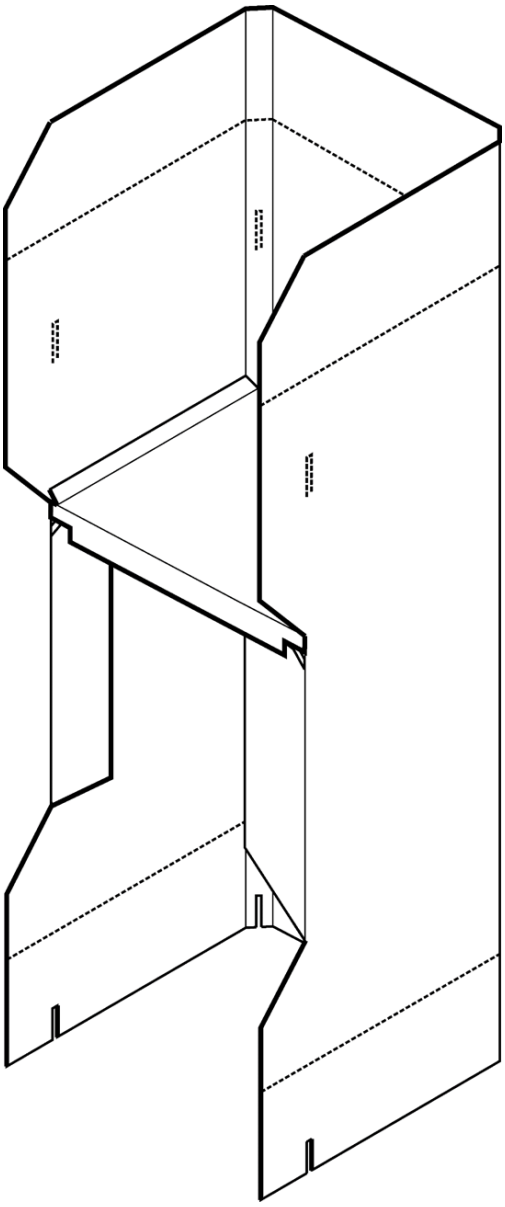


21: F2020/01514 22: 2020-11-24 23: 2019-05-17
43: 2021-06-09
52: Class 12 24: Part F
71: RLD DESIGN (PTY) LTD.
54: A CANOPY
57: The design is applied to a canopy having a rear panel door and a pair of side panel doors each of which is hingedly mounted to the canopy frame portion. Struts are included for controlling up and downward movement of the panel doors. The frame portion further includes rounded corner formations having a roof portion defined therein between. The features of the design for which protection is claimed include the shape, pattern and/or configuration of the canopy as shown in the drawings, showing the overall appearance thereof.

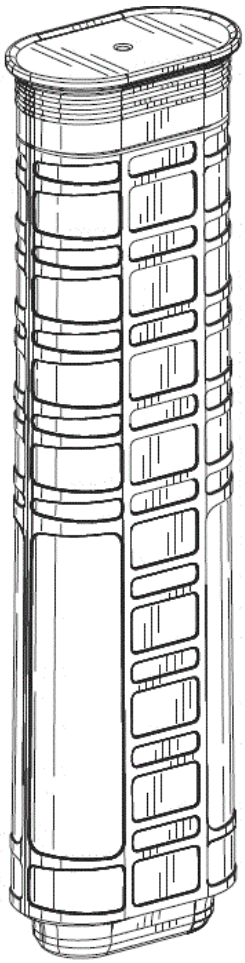


21: F2021/00755 22: 2021-06-25 23: 2019-05-17
43: 2022-10-10
52: Class 06 24: Part F
71: GED 263 (VAN 180) VAALDAM SETTLEMENT (PTY) LTD
54: VOTING BOOTH
57: The design is applied to a voting booth. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the voting booth, substantially as illustrated in the accompanying representation.

Features shown in broken lines do not form part of the design and are disclaimed.



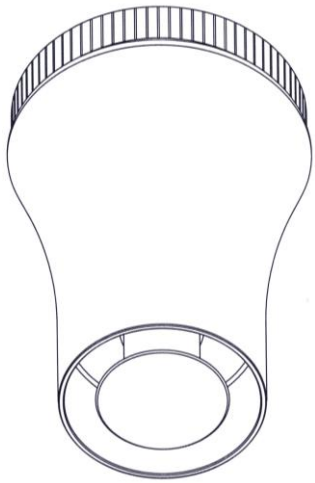
21: F2021/00986 22: 2021-08-24 23: 2019-05-17
43: 2022-03-08
52: Class 24 24: Part F
71: EMERGENT PRODUCT DEVELOPMENT GAITHERSBURG INC.
33: US 31: 29/771,928 32: 2021-02-25
54: AUTOINJECTOR
57: The design for which protection is claimed relates to an autoinjector shown in perspective top front view in the drawing showing the overall appearance thereof.



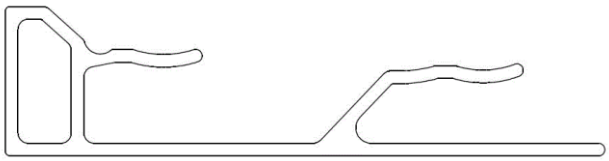
21: F2021/01470 22: 2021-11-24 23: 2019-05-17
43: 2022-12-07
52: Class 09 24: Part F
71: FINTZ, Nissim Isaac
54: CONTAINER
57: The novelty of the design resides in the shape or configuration of a container substantially as shown in the accompanying drawing.



21: F2021/01472 22: 2021-11-24 23: 2019-05-17
43: 2022-09-14
52: Class 09 24: Part F
71: FINTZ, Nissim Isaac
54: CONTAINER
57: The novelty of the design resides in the shape or configuration of a container substantially as shown in the accompanying drawing, irrespective of the height H and the width W of the body B.

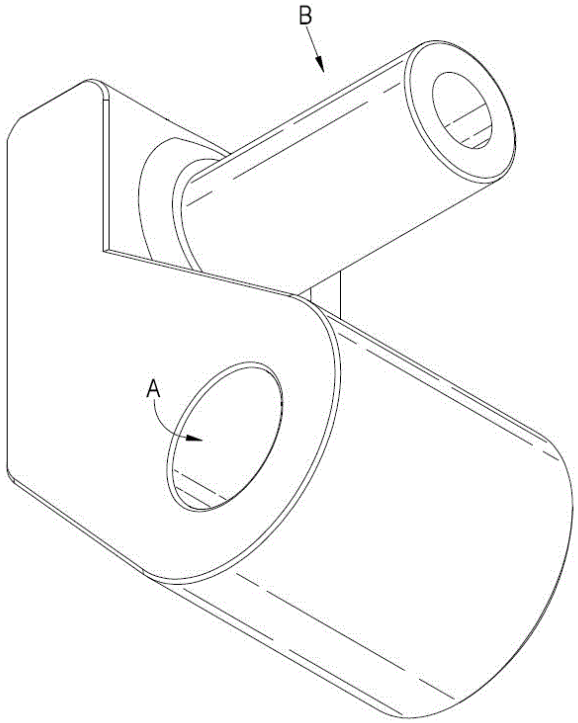


21: F2022/00109 22: 2022-02-01 23: 2019-05-17
43: 2022-02-01
52: Class 8 24: Part F
71: ODENDAL, Nico DeWet
54: Connectors
57: The design relates to a connector having a pair of L-shaped clipping formations for over-centre clipping engagement with similar clipping formations of a complementary connector for connecting articles such as furniture to one another.

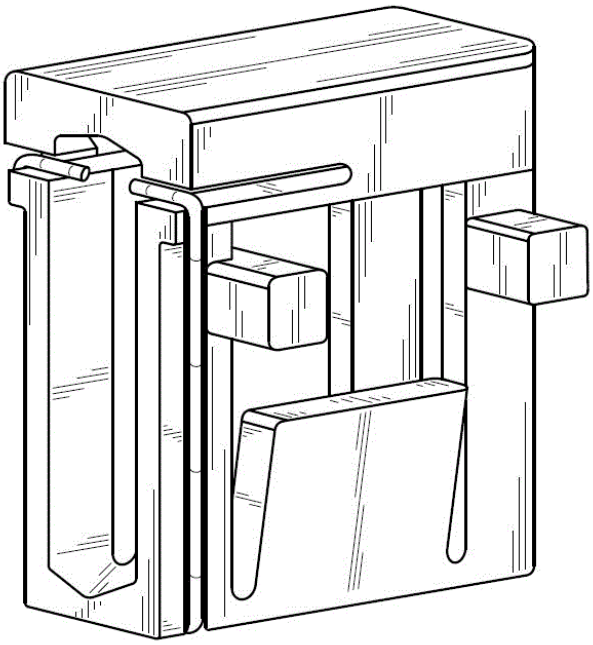


End view

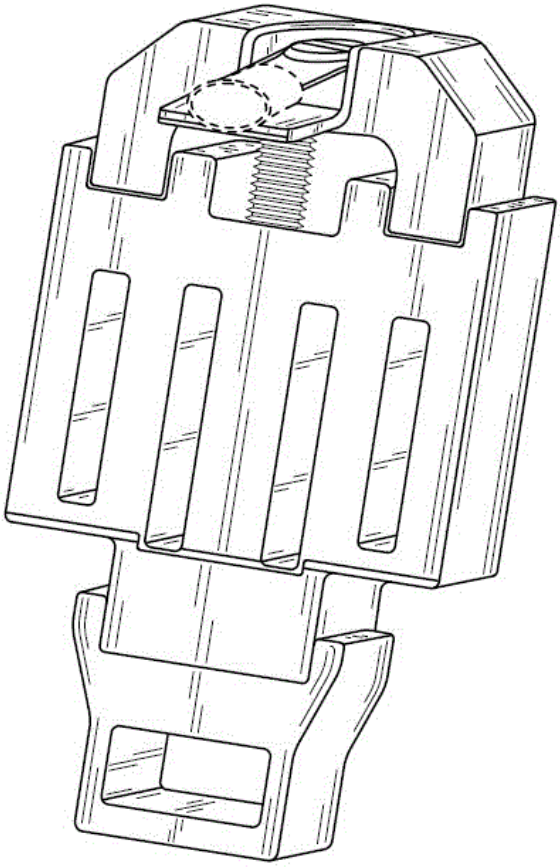
21: F2022/00221 22: 2022-02-28 23: 2019-05-17
43: 2022-02-28
52: Class 8 24: Part F
71: VICTOR, Paul
54: MOUNTING DEVICE FOR A SHOCK ABSORBER FOR A VEHICLE
57: The design is for a mounting device for a shock absorber for a vehicle, substantially as shown in the accompanying representations.



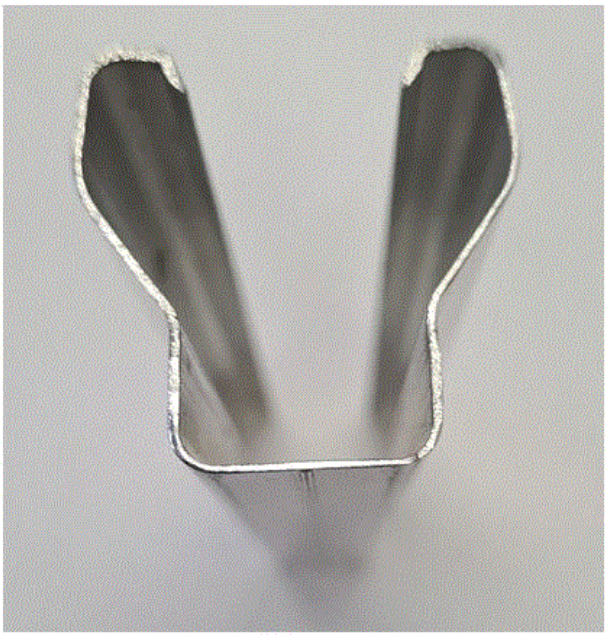
21: F2022/00268 22: 2022-03-16 23: 2019-05-17
43: 2022-10-19
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: SOLAR PANEL BRACKET 1
57: The design relates to a Bracket for Mounting Solar Panels. The features of the design are those of shape and/or configuration. Protection is not claimed for the parts shown in dashed lines.



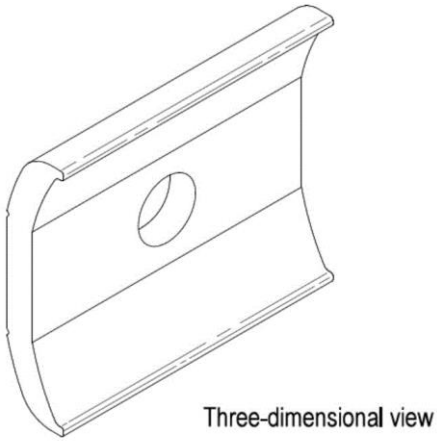
21: F2022/00269 22: 2022-03-16 23: 2019-05-17
43: 2022-10-19
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: SOLAR PANEL BRACKET 2
57: The design relates to a Bracket for Mounting Solar Panels. The features of the design are those of shape and/or configuration. Protection is not claimed for the parts in dashed lines or marked A and B.



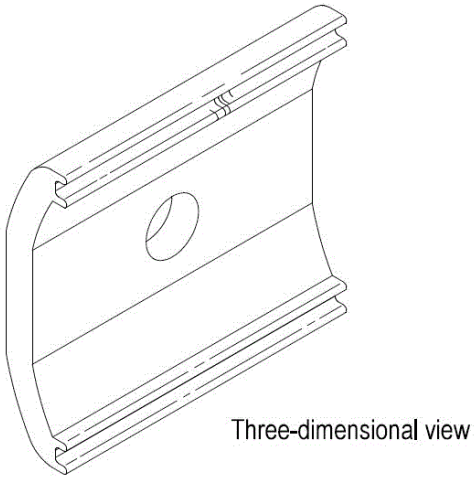
21: F2022/00270 22: 2022-03-16 23: 2019-05-17
43: 2022-10-19
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: SOLAR PANEL RAIL
57: The design relates to a Rail for Mounting Solar Panels. The features of the design are those of shape and/or configuration.



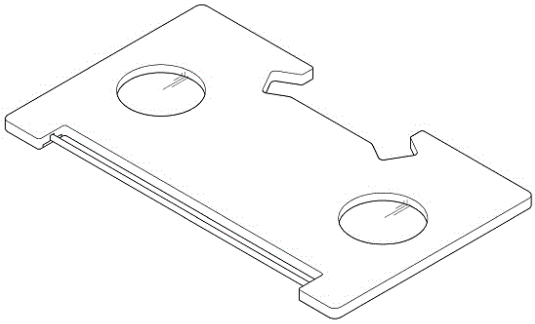
21: F2022/00271 22: 2022-03-16 23: 2019-05-17
43: 2022-03-16
52: Class 25 24: Part F
71: KELLER, Izaan Louis
54: PRESSURE SPREADING DEVICE
57: The design is applied to a pressure spreading device for a corner connector arrangement for a fenestration system. The features of the design for which protection is claimed include the shape and/or configuration of a pressure spreading device, substantially as illustrated in the accompanying representations.



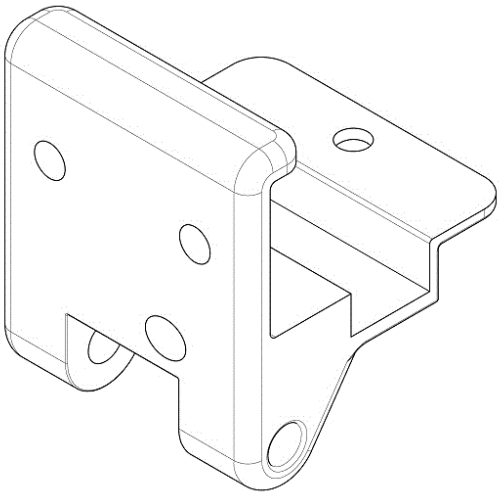
21: F2022/00272 22: 2022-03-16 23: 2019-05-17
43: 2022-03-16
52: Class 25 24: Part F
71: KELLER, Izaan Louis
54: PRESSURE SPREADING DEVICE
57: The design is applied to a pressure spreading device for a corner connector arrangement for a fenestration system. The features of the design for which protection is claimed include the shape and/or configuration of a pressure spreading device, substantially as illustrated in the accompanying representations.



21: F2022/00282 22: 2022-03-23 23: 2019-05-17
43: 2022-10-07
52: Class 6 24: Part F
71: iKAMPER CO., LTD.
33: KR 31: 30-2021-0045447 32: 2021-09-24
54: CAMPING TABLE
57: The drawing shows a perspective view of a camping table in accordance with the present design showing the overall appearance thereof.



21: F2022/00283 22: 2022-03-23 23: 2019-05-17
43: 2022-10-07
52: Class 21 24: Part F
71: iKAMPER CO., LTD.
33: KR 31: 30-2022-0009151 32: 2022-03-08
54: TENT FRAME CONNECTORS
57: The drawing shows a perspective view of a tent frame connector in accordance with the present design showing the overall appearance thereof.



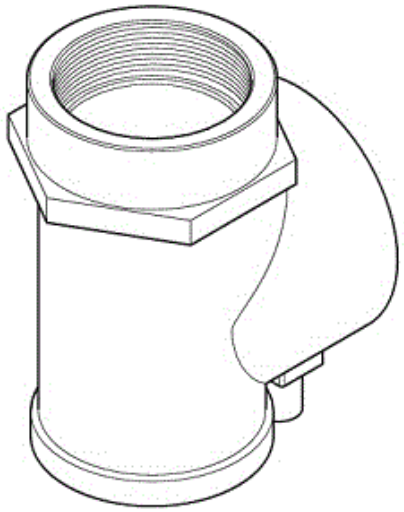
21: F2022/00284 22: 2022-03-23 23: 2019-05-17
43: 2022-10-07
52: Class 7 24: Part F
71: iKAMPER CO., LTD.
33: KR 31: 30-2021-0045450 32: 2021-09-24
54: COOKING UTENSIL HANGER FOR CAMPING
57: The drawing shows a perspective view of a cooking utensil hanger for camping in accordance with the present design showing the overall appearance thereof.



21: F2022/00285 22: 2022-03-23 23: 2019-05-17
43: 2022-10-07
52: Class 7 24: Part F
71: iKAMPER CO., LTD.
33: KR 31: 30-2021-0045448 32: 2021-09-24
54: COOKING UTENSIL HANGER FOR CAMPING
57: The drawing shows a perspective view of a cooking utensil hanger for camping in accordance with the present design showing the overall appearance thereof.

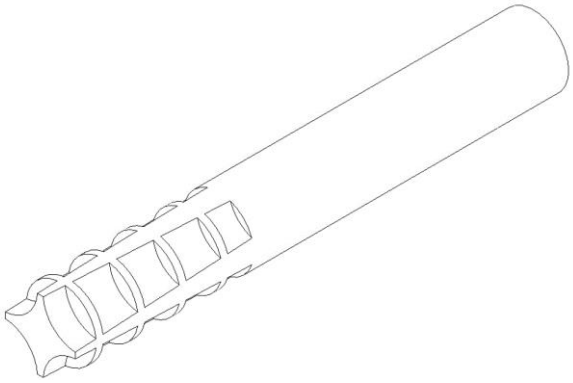


21: F2022/00308 22: 2022-03-25 23: 2019-05-17
43: 2022-10-07
52: Class 23. 24: Part F
71: WOODLANDS ENGINEERING (PTY) LIMITED
54: Hydrant
57: The design relates to a hydrant. The features of the design are those of shape and/or configuration.

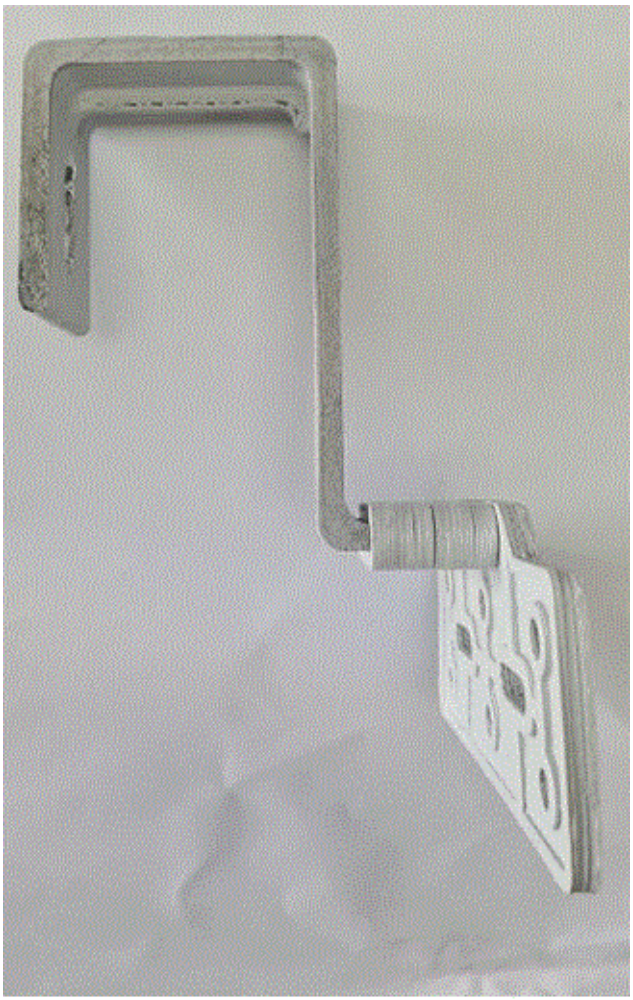


REAR BOTTOM PERSPECTIVE VIEW

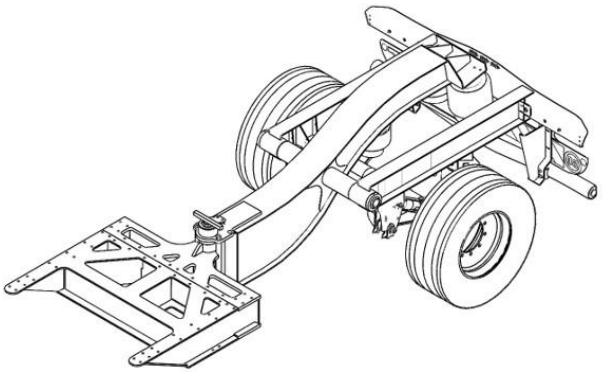
21: F2022/00387 22: 2022-04-11 23: 2019-05-17
43: 2022-10-19
52: Class 25 24: Part F
71: THE TREVOR CHARLES FROST FAMILY TRUST (IT 3642/95)
54: A MINE PROP
57: The design is applied to a mine prop for supporting a hanging wall in an underground passageway or stoping area. The features of the design for which protection is claimed reside in the shape and/or configuration of a mine prop substantially as shown in the accompanying representations, showing the overall appearance thereof. In particular, the features of the design for which protection is claimed reside in the plurality of circumferentially spaced apart sets of recesses defined in an end region of the mine prop, which recesses increase in width and depth towards the end region of the mine prop.



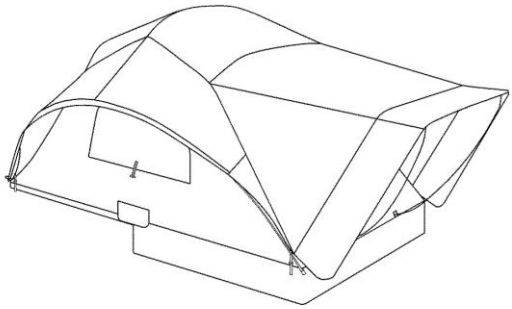
21: F2022/00395 22: 2022-04-13 23: 2019-05-17
43: 2022-10-19
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: BRACKET FOR MOUNTING SOLAR PANEL RAILS ON TILED ROOFS
57: The design relates to a Bracket for Mounting Solar Panel Rails on tiled Roof. The features of the design are those of shape and/or configuration.



21: F2022/00413 22: 2022-04-19 23: 2019-05-17
43: 2022-10-19
52: Class 12 24: Part F
71: ROUTE HOLDINGS (PTY) LTD
54: TRAILER
57: The design is applied to a trailer. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the trailer, substantially as illustrated in the accompanying representation.



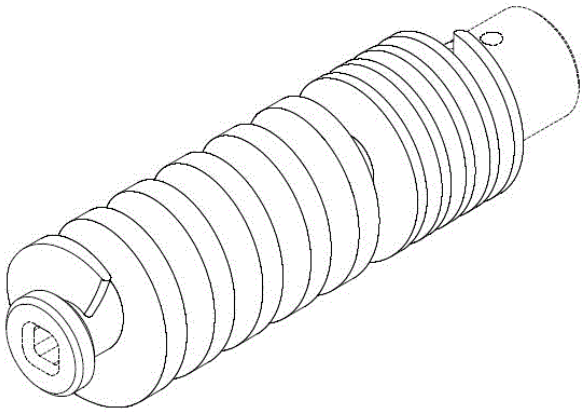
21: F2022/00414 22: 2022-04-20 23: 2019-05-17
43: 2022-10-19
52: Class 21 24: Part F
71: iKAMPER CO., LTD.
33: KR 31: 30-2021-0049767 32: 2021-10-21
54: TENT FOR CAMPING
57: The drawing shows a perspective view of a tent for camping in accordance with the present design showing the overall appearance thereof.



21: F2022/00422 22: 2022-04-21 23: 2019-05-17
43: 2022-04-21
52: Class 23 24: Part F
71: NORTHSWAN ENGINEERING (PTY) LTD.
54: RADIATORS
57: The design is for a radiator for use in an industrial autoclave. The radiator is configured to convey a heated oil through an interior of the autoclave in order to heat up air inside the autoclave which in turn heats up a product. The radiator includes a pair of bifurcating manifolds comprising a reducing, stepped inlet manifold and a diffusing, stepped outlet manifold. The manifolds are connected in parallel and in fluid flow communication to a pair of spaced apart, upwardly and inwardly inclined heat exchangers. Each heat exchanger includes 31 finned heating elements which are arranged in parallel in alternating up and down fashion. The radiator is symmetrical about a longitudinal midline.

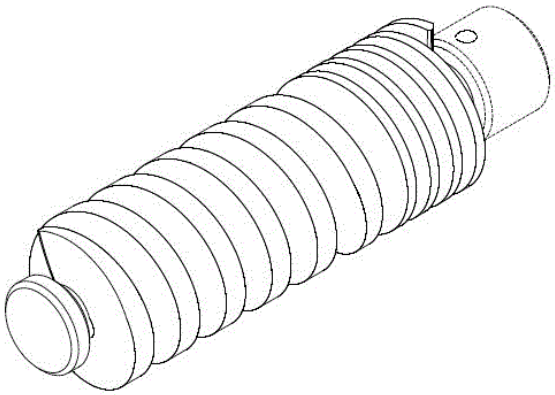


21: F2022/00428 22: 2022-04-21 23: 2019-05-17
43: 2022-04-21
52: Class 31 24: Part F
71: FREDDY HIRSCH GROUP PROPRIETARY LIMITED
54: Screw Conveyors
57: The design relates to a screw conveyor substantially as shown in the accompanying representations, but the aspects depicted by the equi-spaced broken lines are optional and do not form an essential part of the design.



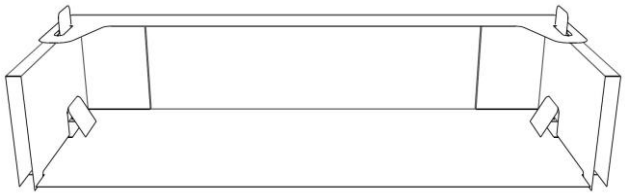
Three-dimensional view

21: F2022/00429 22: 2022-04-21 23: 2019-05-17
43: 2022-04-21
52: Class 31 24: Part F
71: FREDDY HIRSCH GROUP PROPRIETARY LIMITED
54: Screw Conveyors
57: The design relates to a screw conveyor substantially as shown in the accompanying representations, but the aspects depicted by the equi-spaced broken lines are optional and do not form an essential part of the design.

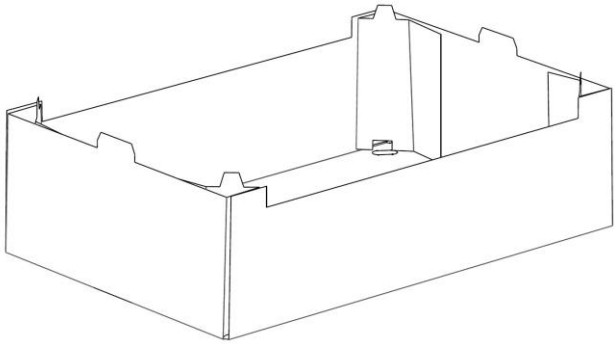


Three-dimensional view

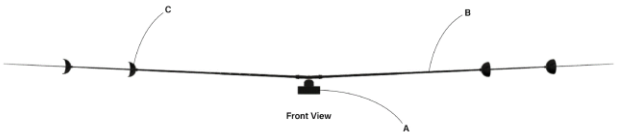
21: F2022/00442 22: 2022-04-26 23: 2019-05-17
43: 2022-11-03
52: Class 09 24: Part F
71: APL CARTONS (PTY) LTD
54: CONTAINER
57: The design is for a rectangular container with a bottom wall and upright walls, with slanted tabs spanning between the bottom and upright walls, partially covering apertures.



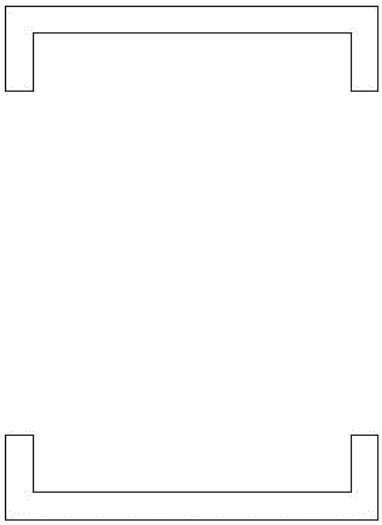
21: F2022/00443 22: 2022-04-26 23: 2019-05-17
43: 2022-11-03
52: Class 09 24: Part F
71: APL CARTONS (PTY) LTD
54: CONTAINER
57: The design is for a rectangular container with inwardly slanted walls and upright triangular pillars in its corners, with a stacking tab protruding upwards from a gusset of each pillar, said tab being receivable in an angled slot defined in a bottom of another identical container when the containers are stacked on top of each other.



21: F2022/00462 22: 2022-04-28 23: 2019-05-17
43: 2022-11-03
52: Class 22 24: Part F
71: John Abraham Kotze jnr.
54: BIRD REPELLENT DEVICE
57: The design relates to a Bird repellent device. The features of the design are those of shape and/or pattern and/or configuration.

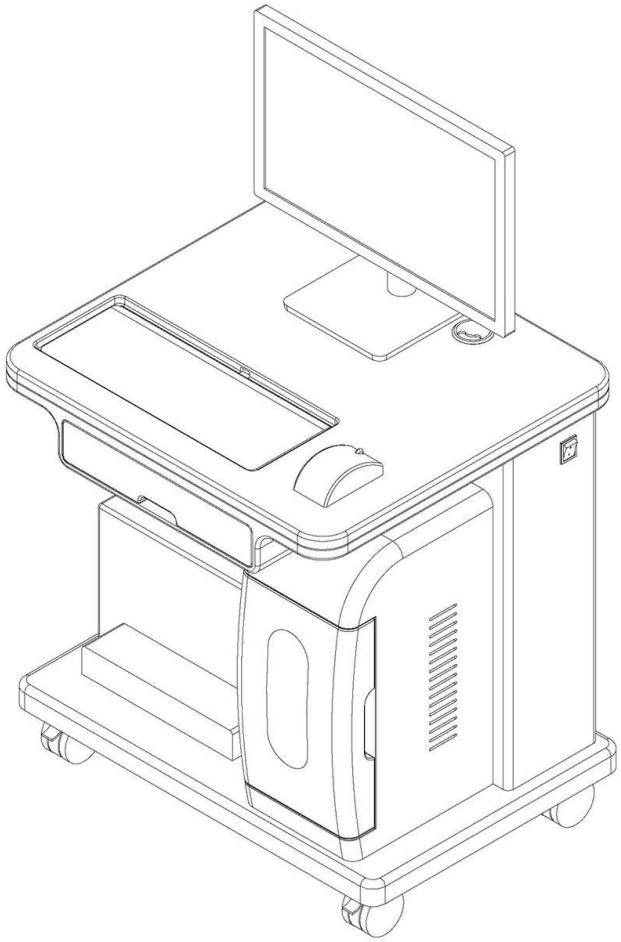


21: F2022/00506 22: 2022-05-12 23: 2019-05-17
43: 2022-11-14
52: Class 6 24: Part F
71: HARTLEY, David Barrow
54: FRAMES
57: The design relates to frames. The features of the design are those of shape and/or configuration and/or pattern.

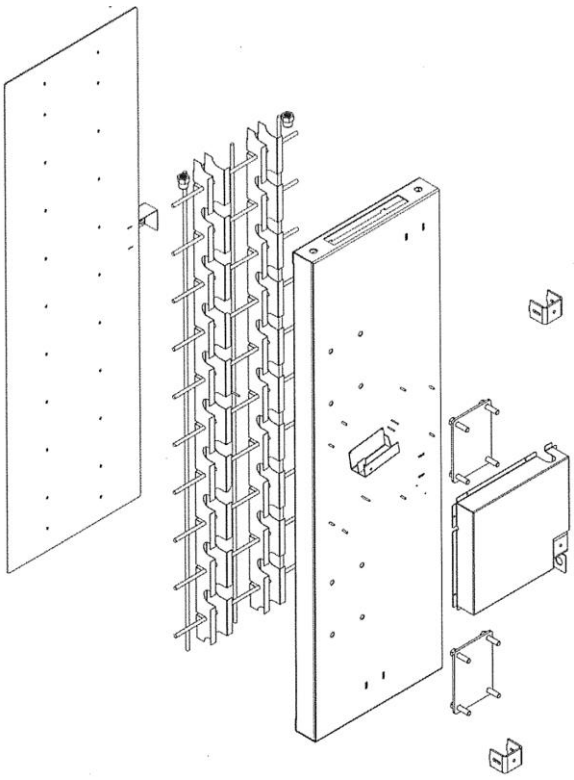


FRONT VIEW

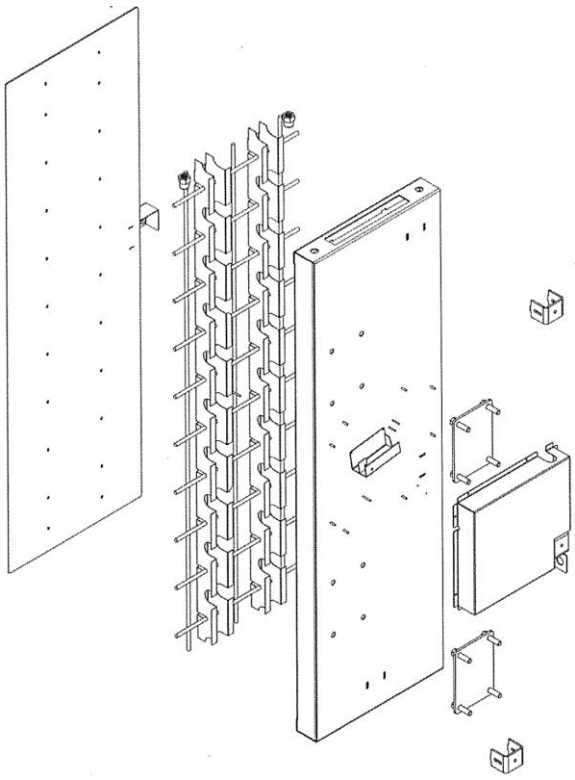
21: F2022/01083 22: 2022-09-15 23: 2019-05-17
43: 2022-09-26
52: Class 24 24: Part F
71: GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD
54: PHYSICAL AND MENTAL HEALTH ASSESSMENT DEVICE
57: The design relates to a physical and mental health assessment device. The features of the design for which protection is claimed reside in the pattern and/or shape and/or configuration of the physical and mental health assessment device, substantially as illustrated in the accompanying representations.



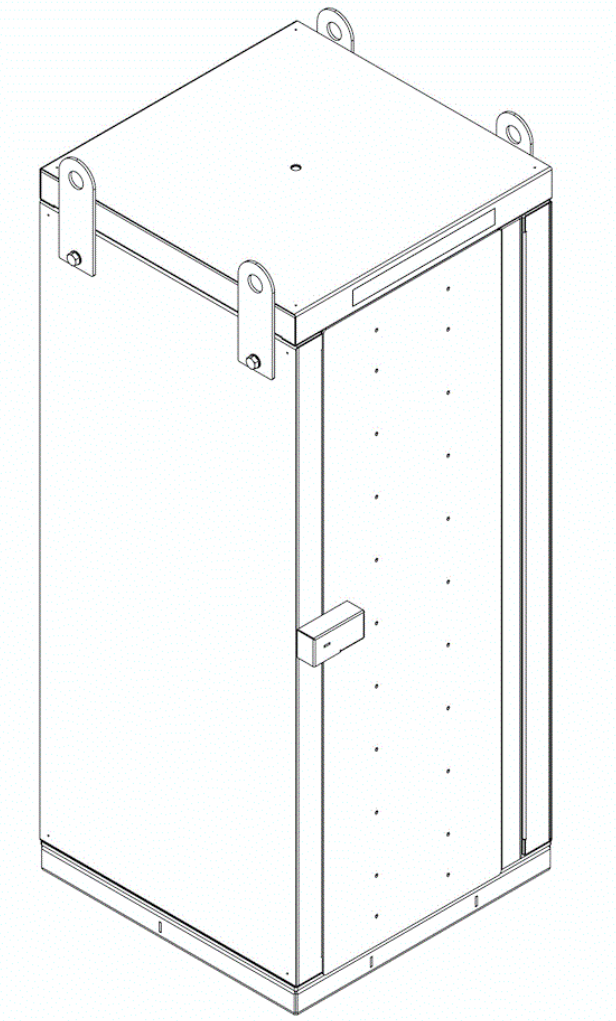
21: F2022/01202 22: 2022-10-05 23: 2019-05-17
43: 2022-11-16
52: Class 25 24: Part F
71: NATIONAL STAILESS STEEL CENTER, NALEDI TELECOMS (PTY) LTD
54: PANELS FOR A MODULAR SECURITY CABINET
57: Protection is claimed for the features of pattern, configuration and/or shape of panels for a modular security cabinet substantially as shown in the accompanying representations.



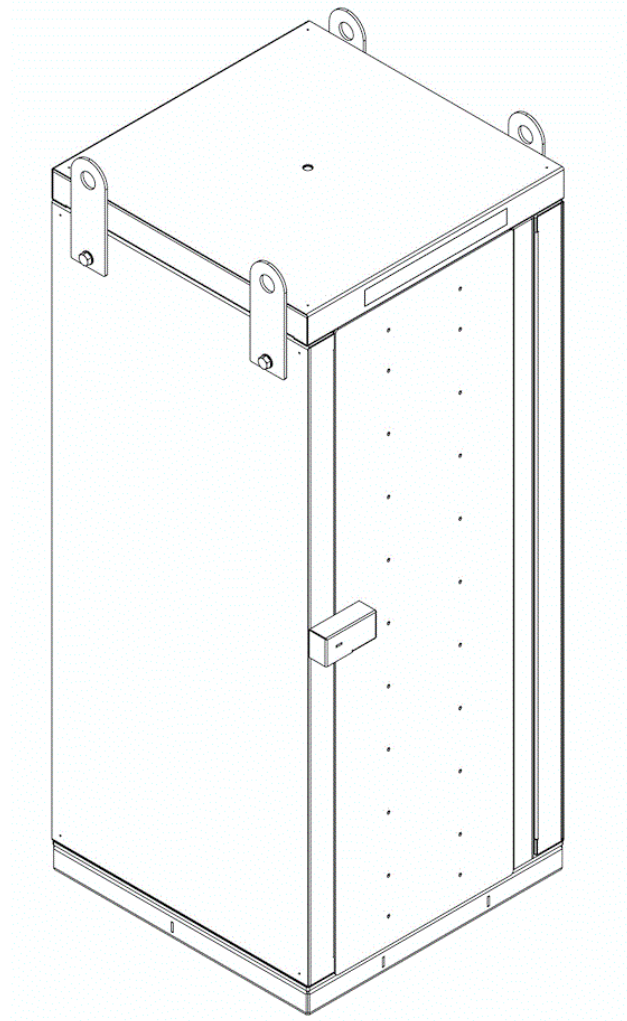
21: F2022/01203 22: 2022-10-05 23: 2019-05-17
43: 2022-11-16
52: Class 06 24: Part F
71: NATIONAL STAILESS STEEL CENTER, NALEDI TELECOMS (PTY) LTD
54: PANELS FOR A MODULAR SECURITY CABINET
57: Protection is claimed for the features of pattern, configuration and/or shape of panels for a modular security cabinet substantially as shown in the accompanying representations.



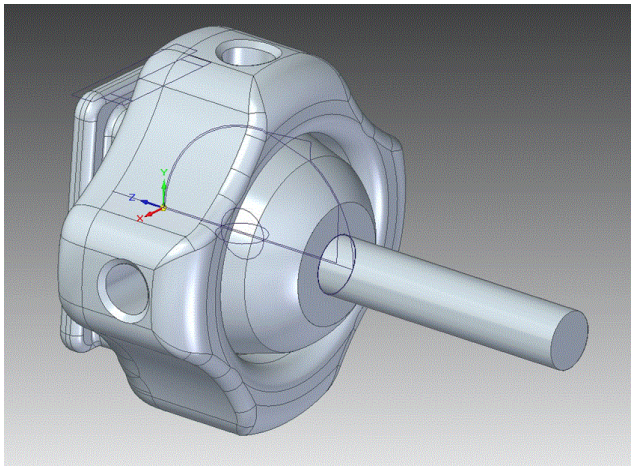
21: F2022/01208 22: 2022-10-05 23: 2019-05-17
43: 2022-11-16
52: Class 06 24: Part F
71: NATIONAL STAINLESS STEEL CENTRE (Pty) Ltd, NALEDI TELECOMS (Pty) Ltd
54: MODULAR SECURITY CABINET
57: The design relates to a Modular security cabinet. The features of the design are those of shape and/or pattern and/or configuration.



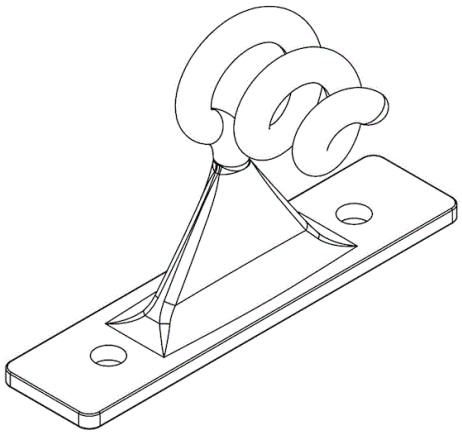
21: F2022/01209 22: 2022-10-05 23: 2019-05-17
43: 2022-11-03
52: Class 25 24: Part F
71: NATIONAL STAINLESS STEEL CENTRE (Pty) Ltd, NALEDI TELECOMS (Pty) Ltd
54: MODULAR SECURITY CABINET
57: The design relates to a Modular security cabinet. The features of the design are those of shape and/or pattern and/or configuration.



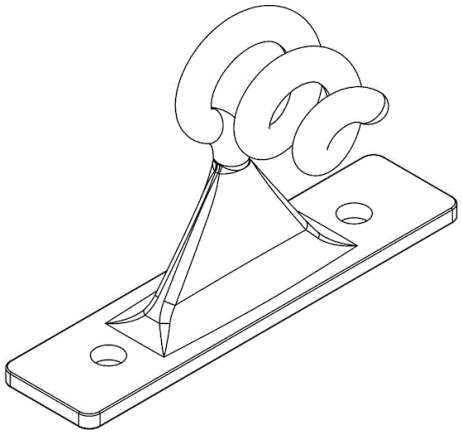
21: F2022/01280 22: 2022-10-13 23: 2019-05-17
43: 2022-11-03
52: Class 8 24: Part F
71: Julie Horn
54: WALL MOUNT FOR UNDERGROUND LASER
57: The design relates to a Wall mount for underground laser. The features of the design are those of shape and/or pattern and/or configuration.



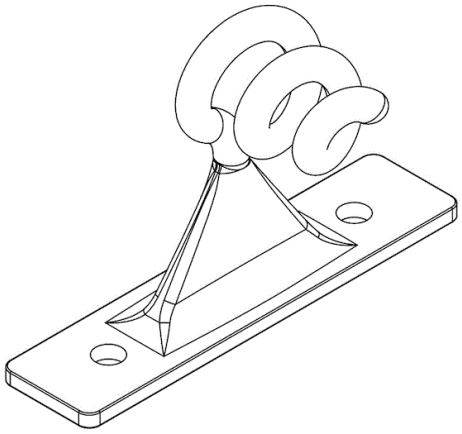
21: F2022/01339 22: 2022-10-24 23: 2019-05-17
43: 2022-11-22
52: Class 8 24: Part F
71: Amos Phologe TABANE
54: LIFELINE MOUNT
57: The design relates to a Lifeline Mount. The features of the design are those of shape and/or pattern and/or configuration.



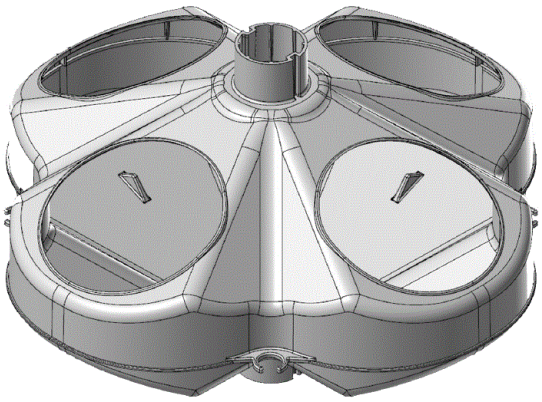
21: F2022/01341 22: 2022-10-24 23: 2019-05-17
43: 2022-11-22
52: Class 29 24: Part F
71: Amos Phologe TABANE
54: LIFELINE MOUNT
57: The design relates to a Lifeline Mount. The features of the design are those of shape and/or pattern and/or configuration.



21: F2022/01340 22: 2022-10-24 23: 2019-05-17
43: 2022-11-22
52: Class 26 24: Part F
71: Amos Phologe TABANE
54: LIFELINE MOUNT
57: The design relates to a Lifeline Mount. The features of the design are those of shape and/or pattern and/or configuration.



21: F2022/01387 22: 2022-11-02 23: 2019-05-17
43: 2022-11-08
52: Class 8 24: Part F
71: Louis Wilken
54: PLANT HOLDER
57: The design relates to a Plant holder. The features of the design are those of shape and/or pattern and/or configuration.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

21: 2021/00024. 22: 2021/11/25 43: 2021/11/25
24: 1986/10/24 to 1986/12/18; Qokli Hill
25: 1986/12/19; Qokli Hill
71: Oscar Sandile Mngadi
10365 Madlelo Road, St. Wendolins, Marianhill, 3069, South Africa
75: Oscar Sandile Mngadi10365 Madlelo Road, St. Wendolins, Marianhill, ZA, 3069, Phone: 079 371 5503, Email: minenhlengema930704@gmail.com;
76: Oscar Sandile Mngadi
77: Oscar Sandile Mngadi
54: **QOKLI HILL**
78: Shaka Zulu, Nandi, Ndlela ka Sompisi, Mgobhozi kaMsane, Nqoboka wakwaSokhulu, Njikiza kaNgcolosi
26: N/A
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: The film is about the battle on Qokli Hill which took place at Qokli between the Chief of the Zulu's and his warriors against King Zwide of the Ndwandwe, who were pitted against the great Shaka and his Zulus.

58: AC

21: 2022/00001. 22: 2022/02/17 43: 2022/02/17
24: 2017/08/10 to 2018/01/11; Fayette County, Georgia; Atlanta, Georgia; Dutchess and Ulster counties, New York; St Abbs, Scotland; Durham, England during 24 April 2019.
25: 2019/04/24; Australia
71: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, US, 91521, Email: Doris.M.Tang@disney.com
76: Kevin Feige
77: Anthony Russo; Joe Russo
54: **AVENGERS: ENDGAME**
78: Robert Downey Jr. - Tony Stark/Iron Man; Chris Evans - Steve Rogers/Captain America; Mark Ruffalo - Bruce Banner/Hulk; Chris Hemsworth - Thor; Scarlett Johansson - Natasha Romanoff/Black Widow; Jeremy Renner - Clint, Barton/Hawkeye/Ronin; Don Cheadle -James Rhodes/War Machine; Paul Rudd - Scott Lang/Ant-Man; Brie Larson - Carol Danvers/Captain Marvel; Karen Gillan - Nebula; Danai Gurira - Okoye; Benedict Wong - Wong; Jon Favreau - Happy Hogan; Bradley Cooper - Rocket; Gwyneth Paltrow - Pepper Potts; Josh Brolin – Thanos
26: N/A
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: The epic conclusion to the Infinity Saga that became a critically acclaimed worldwide phenomenon, this dramatic showdown pits the Avengers against Thanos. After devastating events wiped out half the world's population and fractured their ranks, the remaining heroes struggle to move forward. But they must come together to restore order and harmony in the universe and bring their loved ones back.

58: DR

21: 2022/00002. 22: 2022/02/17 43: 2022/02/17

24: 2019/05/28 to 2019/10/06; Norway; Budapest; Morocco; England; Macon, Georgia; Atlanta, Georgia; Rome, Georgia during 07 July 2021.
25: 2021/07/07; United Kingdom
71: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, US, 91521, Email: Doris.M.Tang@disney.com
76: Kevin Feige
77: Cate Shortland
54: **BLACK WIDOW**
78: Scarlett Johansson - Natasha Romanoff / Black Widow; Florence Pugh - Yelena Belova / Black Widow; David Harbour - Alexei Shostakov / Red Guardian; Rachel Weisz - Melina Vostokoff / Black Widow; O-T Fagbenle - Rick Mason; Olga Kurylenko - Antonia Dreykov / Taskmaster; William Hurt - Thaddeus Ross
26: N/A
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: In Marvel Studios' action-packed spy thriller "Black Widow," Natasha Romanoff aka Black Widow confronts the darker parts of her ledger when a dangerous conspiracy with ties to her past arises. Pursued by a force that will stop at nothing to bring her down, Natasha must deal with her history as a spy and the broken relationships left in her wake long before she became an Avenger.

58: DR

21: 2022/00003. 22: 2022/02/18 43: 2022/02/18
24: 2019/07/01 to 2020/02/04; Buckinghamshire, England; Canary Islands; Oxford, England; London, England during 11 March 2021.
25: 2021/03/11; France
71: MVL FILM FINANCE LLC
500 South Buena Vista Street., Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC500 South Buena Vista Street., Burbank, California, US, 91521, Email: Doris.M.Tang@disney.com
76: Kevin Feige; Nate Moore
77: Chloe Zhao
54: **ETERNALS**
78: Gemma Chan - Sersi; Richard Madden - Ikaris; Kumail Nanjiani - Kingo; Lia McHugh - Sprite; Brian Tyree Henry - Phastos; Lauren Ridloff - Makkari; Barry Keoghan - Druig; Don Lee - Gilgamesh; Harish Patel - Karun; Kit Harington - Dane Whitman; Salma Hayek - Ajak; Angelina Jolie - Thena
26: N/A
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Marvel Studios' Eternals features an exciting new team of Super Heroes in the Marvel Cinematic Universe, ancient aliens who have been living on Earth in secret for thousands of years. Following the events of Avengers: Endgame, an unexpected tragedy forces them out of the shadows to reunite against mankind's most ancient enemy, the Deviants.

58: DR

21: 2022/00004. 22: 2022/02/18 43: 2022/02/18
24: 2009/04/06 to 2009/07/18; Los Angeles, California; Monaco.
25: 2010/04/28; Sweden
71: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, US, 91521, Email: Doris.M.Tang@disney.com
76: Kevin Feige
77: Jon Favreau
54: **IRON MAN 2**
78: Robert Downey Jr. - Tony Stark / Iron Man; Gwyneth Paltrow - Virginia "Pepper" Potts; Don Cheadle - James "Rhodey" Rhodes / War Machine; Scarlett Johansson - Natasha Romanoff / Black Widow; Sam Rockwell - Justin Hammer; Mickey Rourke - Ivan Vanko / Whiplash; Samuel L. Jackson - Nick Fury
26: N/A
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: With the world now aware that he is Iron Man, billionaire inventor Tony Stark faces pressure from all sides to share his technology with the military. He is reluctant to divulge the secrets of his armored suit, fearing the information will fall into the wrong hands. With Pepper Potts and "Rhodey" Rhodes by his side, Tony must forge new alliances and confront a powerful new enemy.

58: DR

21: 2022/00005. 22: 2022/02/18 43: 2022/02/18
24: 2020/02/01 to 2020/10/24; Sydney, Australia; San Francisco, California.
25: 2021/09/01; France
71: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, 91521, United States of America

75: MVL FILM FINANCE LLC 500 South Buena Vista Street., Burbank, California, US, 91521, Email: Doris.M.Tang@disney.com
76: Kevin Feige; Jonathan Schwartz
77: Destin Daniel Cretton
54: **SHANG-CHI AND THE LEGEND OF THE TEN RINGS**
78: Simu Liu - Xu Shang-Chi / Shaun; Awkwafina - Katy; Meng'er Zhang - Xu Xialing; Fala Chen - Ying Li; Florian Munteanu - Razor Fist; Benedict Wong - Wong; Michelle Yeoh - Ying Nan; Ben Kingsley - Trevor Slattery; Tony Leung - Xu Wenwu; Ronny Chieng - Jon Jon
26: N/A
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Marvel Studios' "Shang-Chi and The Legend of The Ten Rings" stars Simu Liu as Shang-Chi, who must confront the past he thought he left behind when he is drawn into the web of the mysterious Ten Rings organization. The film also stars Tony Leung as Wenwu, Awkwafina as Shang-Chi's friend Katy and Michelle Yeoh as Jiang Nan, as well as Fala Chen, Meng'er Zhang, Florian Munteanu and Ronny Chieng.

58: DR

21: 2022/00007. 22: 2022/03/16 43: 2022/03/16
24: 2020/01/01 to 2021/01/01; Los Angeles, California, United States of America
25: 2021/11/24; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: : WALT DISNEY ANIMATION STUDIOS an alternate designation of WALT DISNEY PICTURES, a California Corporation 500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: Yvett Merino and Clark Spencer
77: Jared Bush and Byron Howard
54: **ENCANTO**
78: Stephanie Beatriz, Noemi Joselina Flores, Maria Cecilia Botero, John Leguizamo, Mauro Castillo, Jessica Darrow, Angie Cepeda, Carolina Gaitán, Diane Guerrero, Wilmer Valderrama, Adassa, Rhenzy Feliz, Ravi-Cabot Conyers, Maluma and Alan Tudyk
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Walt Disney Animation Studios' "Encanto" tells the tale of an extraordinary family, the Madrigals, who live hidden in the mountains of Colombia, in a magical house, in a vibrant town, in a wondrous, charmed place called an Encanto. The magic of the Encanto has blessed every child in the family with a unique gift from super strength to the power to heal—every child except one, Mirabel (voice of Stephanie Beatriz). But when she discovers that the magic surrounding the Encanto is in danger, Mirabel decides that she, the only ordinary Madrigal, might just be her exceptional family's last hope.

58: CA

21: 2022/00008. 22: 2022/03/16 43: 2022/03/16
24: 2017/07/01 to 2017/11/01; Iver, England; Bedfordshire, England
25: 2019/03/27; France
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, California, 91521, United States of America
75: MEDICI PRODUCTIONS LTD., a limited company incorporated under the laws of England and Walesa limited company incorporated under the laws of England and Wales, 3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Justin Springer, Ehren Kruger, Katterli Frauenfelder and Derek Frey
77: Tim Burton
54: **DUMBO**
78: Collin Farrell, Michael Keaton, Danny DeVito, Eva Green, Alan Arkin, Nico Parker and Finley Hobbins
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: From Disney and visionary director Tim Burton, the all-new grand live-action adventure "Dumbo" expands on the beloved classic story where the differences are celebrated, family is cherished and dreams take flight. Circus owner Max Medici (Danny DeVito) enlists former star Holt Farrier (Colin Farrell) and his children Milly (Nico Parker) and Joe (Finley Hobbins) to care for a newborn elephant whose oversized ears make him a laughingstock in an already struggling circus. But when they discover that Dumbo can fly, the circus makes an incredible comeback, attracting persuasive entrepreneur V.A. Vandevere (Miachael Keaton) who recruits the peculiar pachyderm for his newest, larger-than-life entertainment venture Dreamland. Dumbo soars to new heights alongside a charming and spectacular aerial artist, Colette Marchant (Eva Green), until Holt learns that beneath its showy veneer, Dreamland is full of dark secrets.

58: AC

21: 2022/00009. 22: 2022/03/16 43: 2022/03/16
24: 2014/08/04 to 2014/10/31; Surrey, England; Gloucester, England
25: 2016/05/25; Sweden
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: ABSOLEM PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Joe Roth, Suzanne Todd, Jennifer Todd and Tim Burton
77: James Bobin
54: **ALICE THROUGH THE LOOKING GLASS**
78: Mia Wasikowska, Jonny Depp, Helena Bonham Carter, Anne Hathaway, Sacha Baron Cohen, Rhys Ifans, Matt Lucas, Lindsay Duncan, Leo Bill, Geraldine James, Andrew Scott, Richard Armitage, Ed Speleers, Alan Rickman, Timothy Spall, Paul Whitehouse, Stephen Fry and Barbara Windsor
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Alice (Mia Wasikowska) has spent the past few years following in her father's footsteps and sailing the high seas. Upon her return to London, she comes across a magical looking glass that takes her to the fantastical realm of Underland and her friends. There she discovers that the Mad Hatter (Jonny Depp) has lost his Muchness, so the White Queen (Anne Hathaway) sends her on a quest to borrow Chronosphere, a metallic globe inside the chamber of the Grand Clock that powers all time. Returning to the past, she embarks on a perilous race to save the Hatter before time runs out.

58: AC

21: 2022/00010. 22: 2022/03/16 43: 2022/03/16
24: 2018/03/12 to 2019/01/01; England; Scotland; Italy and Vietnam
25: 2020/06/12; United States of America

71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: TIME FREEZE PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, US, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Kenneth Branagh and Judy Hofflund
77: Kenneth Branagh
54: **ARTEMIS FOWL**
78: Ferdia Shaw, Lara McDonnell, Josh Gad, Tamara Smart, Nonso Anozie, Colin Farrel, Judi Dench, Nikesh Patel, Joshua McGuire, Chi-Lin Nim, Lewy Xing, Adrian Scarborough, Vincenzo Nicoli and Conor MacNeill
26: On Appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Disney's "Artemis Fowl" is based on the beloved book by Eoin Colfer, is a fantastical spellbinding adventure that follows the journey of a 12-year-old genius Artemis Fowl, a descendant of a long line of criminal masterminds, as he desperately tries to save his father who has been kidnapped. In order to pay his ransom, Artemis must infiltrate an ancient, underground civilization - the amazingly advanced world of fairies – and bring the kidnapper the Aculos, the fairies' most powerful and coveted magical device. To locate the elusive object, cunning Artemis concocts a dangerous plan – so dangerous that he ultimately finds himself in a perilous war of wits with the all-powerful fairies.

58: AC

21: 2022/00011. 22: 2022/03/16 43: 2022/03/16
24: 2017/09/06 to 2018/01/24; Surrey, England; Wadi Rum, Jordan
25: 2019/05/22; United Kingdom
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: MAGIC LAMP PRODUCTIONS LIMITED, a limited liability company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, WE 9PE, Email: kagisho.manyashi@adams.africa
76: Dan Lin and Jonathan Eirich
77: Guy Ritchie
54: **ALADDIN**
78: Will Smith, Meena Massoud, Naomi Scott, Marwan Kenzari, Navid Negahban, Nasim Pedrad, Billy Magnussen, Numan Acar, Alan Tudyk and Frank Welker
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: From Disney comes the thrilling and vibrant live-action adaptation of the animated classic, Aladdin, the exciting tale of the charming street rat Aladdin, the self-determined Princess Jasmine and the Genie who may be key to their future.

58: MU

21: 2022/00012. 22: 2022/03/17 43: 2022/03/17
24: 2009/01/01 to 2010/01/01; Los Angeles, California, United States of America
25: 2010/09/03; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: WALT DISNEY PICTURES., a California Corporation500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: Helen Kalafatic and Margot Pipkin
77: Bradley Raymond
54: **TINKER BELL AND THE GREAT FAIRY RESCUE**
78: Mae Whitman, Pamela Adlon, Lauren Mote, Michael Sheen, Lucy Lui, Raven-Symoné, Kristin Chenoweth and Angela Bartys
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: What would you do if you met a fairy? Witness the historical moment when Tinker Bell first meets a human being, and it's not who you think. Years before meeting Wendy and the lost boys, tinker bell met Lizzy, a little girl with a steadfast belief in the power of pixie dust and the magic land of fairies. During the fairies' summer visit to the flowering meadows of England, two very different worlds unite for the first time and Tink develops a good special bond with a curious child in need of a friend. As her fellow fairies launch a daring rescue, Tinker Bell takes a huge risk, putting her own safety and the future of all fairykind in jeopardy. Experience Disney's astonishing all-new movie about the true power of faith and friendship. Bursting within excitement and imagination, Tinker Bell and the Great Fairy Rescue is magical entertainment for the whole family. You might learn to fly.

58: CA

21: 2022/00013. 22: 2022/03/17 43: 2022/03/17
24: 2016/10/01 to 2017/01/01; South Kensington, England; Iver, England
25: 2018/10/31; Philippines'
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: MISTLETOE PICTURES LIMITED, a limited liability company incorporated under the laws of England and Wales3 Queen Caroline Street, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Mark Gordon and Larry Franco
77: Lasse Hallström and Joe Johnston
54: **THE NUTCRACKER AND THE FOUR REALMS**
78: Mackenzie Foy, Jayden Fowora-Knight, Keira Knightley, Helen Mirren, Morgan Freeman, Eugenio Derbez, Richard E. Grant, Misty Copeland, Matthew Macfayden, Anna Madeley and Sergei Polunin
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: All Clara (Mackenzie Foy) wants is a key – a one-of-a kind key that will unlock a box that holds a picture a priceless gift from her late mother. A golden thread, presented to her at godfather Drosselmeyer's (Morgan Freeman) annual holiday party, leads her to the coveted key – which promptly disappears into a strange and mysterious parallel world. It's there that Clara encounters a soldier named Phillip (Jayden Fowora-Knight), a gang of mice and the regents who preside over three Realms: Land of Snowflakes, Land of Flowers and Land of Sweets. Clara and Phillip must brave the ominous Fourth Realm, home to the tyrant Mother Ginger (Hellen Mirren), to retrieve Clara's key and hopefully return harmony to the unstable world.

58: AC

21: 2022/00014. 22: 2022/03/17 43: 2022/03/17
24: 2017/01/01 to 2018/01/01; Los Angeles, California, United States of America
25: 2019/07/12; China
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: ICEBERG PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Jon Favreau, Jeffrey Silver and Karen Gilchrist
77: Jon Favreau
54: **THE LION KING**
78: Donald Glover, JD McCray, Seth Rogen, Chiwetel Ejiofor, Alfre Woodard, Billy Eichner, John Kani, John Oliver, Beyoncé Knowles-Carter, Shahadi Wright Joseph, James Earl Jones, Florence Kasumba, Keegan-Michael Key and Eric André
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Disney's film journeys to the African savanna where a future king is born. Simba idolizes his father, King Mufasa, and takes to his heart his own royal destiny. But not everyone in the Kingdom celebrates the new cub's arrival. Scar, Mufasa's

brother – and former heir to the throne-has plans of his own. The battle for Pride Rock is ravaged with betrayal, tragedy and drama, ultimately resulting in Simba's exile. With the help of a curious pair of newfound friends, Simba will have to figure out how to grow up and take back what is rightfully his. The all-star cast includes Donald Clover as Simba, Beyoncé Knowles-Carter as Nala, James Earl Jones as Mufasa, Chiwetel Ejiofor as Scar, Seth Rogen as Pumbaa and Billy Eichner as Timon, and utilizes pioneering filmmaking techniques to bring treasured characters to life in a whole new way.

58: MU

21: 2022/00015. 22: 2022/03/17 43: 2022/03/17
24: 2015/01/26 to 2015/04/30; New Zealand
25: 2016/08/10; Switzerland
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: ABERNATHY PRODUCTIONS, INC., a California Corporation500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: James Whitaker
77: David Lowery
54: **PETE'S DRAGON**
78: Byrce Dallas Howard, Oakes Fegley, Levi Alexander, Wes Bentley, Karl Urban, Oona Laurence and Robert Redford
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: In Pete's Dragon, a remaining of Disney's cherished family film, old wood carver Mr. Meacham (Robert Redford) has delighted local children for years with his tales of the fierce dragon that resides deep in the woods of the Pacific Northwest. To his daughter, Grace (Bryce Dallas Horward), who works as a forest ranger, these stories are little more than tall tales...until she meets Pete (Oakes Fegley). Pete is a mysterious 10-year-old with no family and no home who claims to live in the woods with a giant, green dragon named Elliot. And from Pete's descriptions, Elliot seems remarkably similar to the dragon from Mr. Meacham's stories. With the help of Natalie (Oona Laurence), a 11-year-old girl whose father Jack (Wes Bentley) owns a local lumber mill, Grace sets out to determine where Pete came from, where he belongs, and the truth about his dragon.

58: AC

21: 2022/00016. 22: 2022/03/17 43: 2022/03/17
24: 2019/08/01 to 2019/11/01; London, England
25: 2021/05/26; Switzerland
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: BADDUNS PRODUCTIONS LIMITED3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Andrew Gunn, Marc Platt and Kristin Burr
77: Craig Gillepsie
54: **CRUELLA**
78: Emma Stone, Emma Thompson, Joel Fry, Paul Walter Hauser, Emily Beecham, Kirby Howell-Baptiste and Mark Strong
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Academy Award winner Emma Stone ("La La Land") stars in Disney's Cruella, an all-new live-action feature film about the rebellious early days of one of cinemas most notorious – and notoriously fashionable – villains, the legendary Cruella de Vil. "Cruella" which is set in 1970s London amidst the punk rock revolution, follows a young grifter named Estella, a clever and creative girl determined to make a name for herself with her designs. She befriends a pair of young thieves who appreciate her appetite for mischief, and together they are able to build life for themselves on the London streets. One day, Estella's flair for fashion catches the eye of the Baroness von Hellman, a fashion legend who is devastatingly chic and terrifyingly haute, played by two-time Oscar winner Emma Thompson ("Howards End", "Sense & Sensibility"). But their relationship sets in motion a course of events and revelations that will cause Estella to embrace her wicked side and become the raucous, fashionable and revenge-bent Cruella.

58: DR

21: 2022/00017. 22: 2022/03/17 43: 2022/03/17
24: 2018/09/01 to 2019/02/01; Cochrane, Alberta, Canada
25: 2019/12/20; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation South Buena Vista Street, Burbank, California, 91521, United States of America
75: RELAY PRODUCTIONS, INC., a California Corporation500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: Kim Zubick
77: Ericson Core
54: **TOGO**
78: Willem Dafoe, Diesel, Riptide, Christopher Heyerdahl, Michael Greyeyes, Michael Gaston,

Julianne Nicholson, Richard Dormer and Michael McElhatton
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Based on a true adventure in the Alaskan tundra, this story takes place in 1925, when an epidemic of diphtheria breaks out in a remote Alaskan town, causing countless children to fall gravely ill. The necessary antitoxin is hundreds miles away, across treacherous terrain with a massive storm on the horizon. As the crisis grows more desperate, the village leaders realize their only hope lies with one man – Leonhard Seppala (Willem Dafoe) and his sled dog, Togo.

58: DR

21: 2022/00018. 22: 2022/03/18 43: 2022/03/18
24: 2018/08/18 to 2018/11/25; New Zealand and China
25: 2020/09/04; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: ABERNATHY PRODUCTIONS, INC., a California Corporation500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: Chris Bender, Jake Weiner and Jason Reed
77: Niki Caro
54: **MULAN**
78: Yifei Liu, Donnie Yen, Gong Li, Jason Scott Lee, Yoson An, Jet Li, Tzi Ma, Rosalind Chao, Xana Tang, Elena Askin, Ron Yuan, Jun Yu, Jimmy Wong, Chen Tang, Doua Moua, Nelson Lee, Cheng Pei-Pei and Arka Das
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Acclaimed filmmaker Niki Caro brings the epic tale of China's legendary warrior to life in Disney's "Mulan", in which a fearless young woman risks everything out of love for her family and country to become one of the greatest warriors China has ever known. When the Emperor of China issues a decree that one man per family must serve in the imperial Army to defend the country from Northern invaders, Hua Mulan, the eldest daughter of an honored warrior, steps in to take the place of her ailing father. Masquerading as a man, Hua Jun, she is tested every step of the way and must harness her inner-strength and embrace her true potential. It is an epic journey that will transform her into an honored warrior and earn her the respect of a grateful nation...and a proud father.

58: DR

21: 2022/00019. 22: 2022/03/18 43: 2022/03/18
24: 2017/02/01 to 2017/07/01; Surrey, England; London, England
25: 2018/12/19; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: CHERRY TREE LANE PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Rob Marshall, John DeLuca and Marc Platt
77: Rob Marshall
54: **MARY POPPINS RETURNS**
78: Emily Blunt, Lin-Manuel Miranda, Ben Whishaw, Emily Mortimer, Julie Walters, Pixie Davies, Nathanael Saleh, Joel Dawson, Colin Firth, Meryl Streep, David Warner, Jim Norton, Jeremy Swift, Kobna Holdbrook-Smith, Angela Lansbury and Dick Van Dyke
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: In Depression—era London, a now-grown Jane and Michael Banks, along with Michael's three children, are visited by an enigmatic Mary Poppins following a personal loss. Through her unique magical skills, and with the aid of her friend Jack, she helps the family rediscover the joy and wonder missing in their lives.

58: MU

21: 2022/00020. 22: 2022/03/18 43: 2022/03/18
24: 2018/05/29 to 2018/08/24; Buckinghamshire, England
25: 2019/10/16; France
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: MERRYWEATHER PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales,3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Angelina Jolie and Duncan Henderson
77: Joachim Rønning
54: **MALEFICENT: MISTRESS OF EVIL**
ALTERNATE TITLE: MAL
78: Angelina Jolie, Elle Fanning, Michelle Pfeiffer, Chiwetel Ejiofor, Sam Riley, Ed Skrein and Harris Dickinson
26: On appointment with Adams & Adams

55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: “Maleficent: Mistress of Evil” is a fantasy adventure that picks up several years after “Maleficent”, in which audiences learned of events that hardened the heart of Disney’s most notorious villain and drove to curse a baby Princess Aurora. The film continues to explore the complex relationship between the horned fairy and the soon to be Queen as they form new alliances and face new adversaries in their struggle to protect the moors and the magical creatures that reside within.

58: AC

21: 2022/00021. 22: 2022/03/18 43: 2022/03/18
24: 2018/05/16 to 2018/09/14; Kauai Hawaii; Atlanta, Georgia; Oxford, Georgia
25: 2021/07/28; France
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: CROCUS PRODUCTIONS, INC., a California Corporation500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa;
76: John Davids, John Fox, Dany Garcia, Beau Flynn, Dwayne Johnson and Hiram Garcia
77: Jaume Collet-Serra
54: **JUNGLE CRUISE**
78: Dwayne Johnson, Emily Blunt, Édgar Ramirez, Jack Whitehall, Jesse Plemons and Paul Giamatti
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Join fan favourites Dwayne Johnson and Emily Blunt for the adventure of a lifetime on Disney’s Jungle Cruise, a rollicking thrill-ride down the Amazon with wisecracking skipper Frank Wolff and intrepid researcher Dr. Lily Houghton. Lily travels from London, England to the Amazon jungle and enlist Frank’s questionable services to guide her downriver on La Quila – his ramshackle-but-charming boat. Lily is determined to uncover an ancient tree with unparalleled healing abilities – possessing the power to change the future of medicine. Thrust on this epic quest together, the unlikely duo encounters innumerable dangers and supernatural forces, all lurking in the deceptive beauty of the lush rainforest. But as the secrets of the lost tree unfolds, the stakes reach even higher for Lily and Frank and their fate – and mankind’s – hangs in the balance.

58: AC

21: 2022/00022. 22: 2022/03/18 43: 2022/03/18
24: 2017/01/01 to 2019/01/01; Los Angeles, California, United States of America
25: 2019/11/20; Philippines
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: WALT DISNEY ANIMATION STUDIOS., an alternate designation of WALT DISNEY PICTURES, a California Corporation500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: Peter Del Vecho
77: Chris Buck and Jennifer Lee
54: **FROZEN II**
78: Kristen Bell, Idina Menzel, Josh Gad, Jonathan Groff, Martha Plimpton, Sterling K. Brown, Jason Ritter, Rachel Matthews, Evan Rachel Wood, Delaney Rose Stein, Alfred Molina, Jackson Stein, Jeremy Sisto, Ciarán Hinds, Aurora, Alan Tudyk and Paul Briggs
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Why was Elsa born with magical powers? What truths about the past await Elsa as she ventures into the unknown to the enchanted forests and dark seas beyond Arendelle? The answers are calling her but also threatening her kingdom. Together with Anna, Kristoff, Olaf and Sven, she’ll face a dangerous but remarkable journey in “Frozen”, Elsa feared her powers were too much for the world. In “Frozen 2” she must hope they are enough.

58: CA

21: 2022/00023. 22: 2022/03/31 43: 2022/03/31
24: 2018/08/01 to 2019/02/15; Buckinghamshire, England; Wadi Rum, Jordan.
25: 2019/12/18; France
71: LUCASFILM LTD. LLC, a California limited liability company One Letterman Drive, Bldg. B, San Francisco, California, 94129, United States of America
75: LUCASFILM LTD. LLC, a California limited liability companyOne Letterman Drive, Bldg. B, San Francisco, California, US, 94129, Email: kagisho.manyashi@adams.africa
76: Kathleen Kennedy, J.J. Abrams and Michelle Rejwan
77: J.J. Abrams
54: **STAR WARS: THE RISE OF SKYWALKER**
78: Daisy Ridley, Adam Driver, John Boyega, Oscar Isaac, Carrie Fisher, Mark Hamill, Anthony Daniels,

Naomi Ackie, Domhnall Gleeson, Richard E. Grant, Lupita Nyong'o, Keri Russell, Joonas Suotamo, Kelly Marie Tran, Ian McDiarmid and Dee Williams
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Lucasfilm and director J.J. Abrams join forces once more to take viewers on an epic journey to a galaxy far, far away with STAR WARS: THE RISE OF SKYWALKER. Experience the riveting conclusion of the landmark Skywalker saga, in which new legends will be born- and the final battle for freedom is yet to come.

58: DR

21: 2022/00024. 22: 2022/03/31 43: 2022/03/31
24: 2007/07/13 to 2008/01/01; Puerto Valiarta, Mexico; Guadalajara, Mexico; Mexico City, Mexico.
25: 2008/10/03; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: SOUTH OF THE BORDER PRODUCTIONS, INC., a California domestic subsidiary500 South Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa
76: David Hoberman, Todd Lieberman, John Jacobs and Richard Del Rio.
77: Raja Gosnell
54: **BEVERLY HILLS CHIHUAHUA**
78: Andy Garcia, Drew Barrymore, Cheech Marin, George Lopez, Eddie "Piolin" Sotelo, Jesus Ochoa, Loretta Devine, Edward James Olmos, Michael Urie, Piper Perabo, Jose Maria Yazpik, Luis Guzman, Monolo Cardona, Jamie Lee Curtis, Placido Domingo and Paul Rodriguez
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Chloe, a diamond-clad ultra-pampered Beverly Hills Chihuahua, gets lost while on vacation in Mexico and Papi (voiced by George Lopez), an amusing Chihuahua who's crazy about Chloe, springs into action and heads south of the border to rescue her. Meanwhile, Chloe gets help from Delgado (voiced by Andy Garcia), her newfound friend and self-appointed protector.

58: CO

21: 2022/00025. 22: 2022/03/31 43: 2022/03/31
24: 2013/09/01 to 2013/11/27; Surrey, England
25: 2014/10/24; South Korea
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: FIVE BEANS PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Rob Marshall, John DeLuca, Marc Platt and Callum McDougall
77: Rob Marshall
54: **INTO THE WOODS**
78: Meryl Streep, Emily Blunt, James Corden, Anna Kendrick, Chris Pine, Tracey Ullman, Christine Baranski, Johnny Depp, Lilla Crawford, Daniel Huttlestone, MacKenzie Mauzy, Billy Magnussen, Tammy Blanchard, Lucy Punch, Frances de la Tour, Richard Glover, Joanna Riding, Annette Crosbie, Simon Russell Beale and Tug
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: From the director of Chicago and the producer of Wicked comes a modern twist on the beloved fairy tales you thought you knew. Meryl Streep stars in this epic musical saga about daring to venture Into The Woods. Iconic characters, such as Cinderella, Little Red Riding Hood, Jack and the Beanstalk and Rapunzel, find their fates intertwined with a humble baker and his wife, whose longing to have a child sends them on a quest to reverse a witch's (Streep) curse. With an all-star cast, this spellbinding adventure is everything you could ever wish for!

58: MU

21: 2022/00026. 22: 2022/03/31 43: 2022/03/31
24: 2015/02/17 to 2015/07/21; Queensland, Australia
25: 2017/05/24; Switzerland
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, South Africa
75: CORONATION BAY PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa;
76: Jerry Bruckheimer
77: Joachim Rønning and Espen Sandberg
54: **PIRATES OF THE CARIBBEAN: DEAD MEN TELL NO TALES**
78: Johnny Depp, Javier Bardem, Geoffrey Rush, Brenton Thwaites, Kaya Scodelario and Kevin McNally

26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Johnny Depp returns to the big screen as the iconic, swashbuckling anti-hero Jack Sparrow in the all-new “Pirates of the Caribbean: Dead Men Tell No Tales.” The rip-roaring adventure finds down-on-his-luck Captain Jack feeling the winds of ill-fortune blowing strongly his way when deadly ghost sailors, led by the terrifying Captain Salazar (Javier Bardem), escape from the Devil's Triangle bent on killing every pirate at sea—notably Jack. Jack's only hope of survival lies in the legendary Trident of Poseidon, but to find it he must forge an uneasy alliance with Carina Smyth (Kaya Scodelario), a brilliant and beautiful astronomer, and Henry (Brenton Thwaites), a headstrong young sailor in the Royal Navy. At the helm of the Dying Gull, his pitifully small and shabby ship, Captain Jack seeks not only to reverse his recent spate of ill fortune, but to save his very life from the most formidable and malicious foe he has ever faced.

58: AC

21: 2022/00027. 22: 2022/03/31 43: 2022/03/31
24: 2014/08/01 to 2015/01/01; Los Angeles, California, United States of America
25: 2016/04/07; Australia
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: RAKSHA PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Jon Favreau and Brigham Taylor
77: Jon Favreau
54: **THE JUNGLE BOOK**
78: Neel Sethi, Ritesh Rajah, Bill Murray, Ben Kingsley, Idris Elba, Scarlett Johansson, Christopher Walken, Giancarlo Esposito and Lupita Nyong'o
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Directed by Jon Favreau ("Iron Man"), based on Rudyard Kipling's timeless stories and inspired by Disney's classic animated film, "The Jungle Book" is an all-new live-action epic adventure about Mowgli (newcomer Neel Sethi), a man-cub who's been raised by a family of wolves. But Mowgli finds he is no longer welcome in the jungle when fearsome tiger Shere Khan (voice of Idris Elba), who bears the scars of Man, promises to eliminate what he sees as a threat. Urged to abandon the only home he's ever known, Mowgli embarks on a captivating journey of self-discovery, guided by panther-turned-stern mentor Bagheera (voice of Ben Kingsley), and the free-spirited bear Baloo (voice of Bill Murray). Along the way, Mowgli encounters jungle creatures who don't exactly have his best interests at heart, including Kaa (voice of Scarlett Johansson), a python whose seductive voice and gaze hypnotizes the man-cub, and the smooth-talking King Louie (voice of Christopher Walken), who tries to coerce Mowgli into giving up the secret to the elusive and deadly red flower: fire.

58: MI

21: 2022/00028. 22: 2022/04/01 43: 2022/04/01
24: 2013/09/23 to 2013/12/01; Buckinghamshire, England
25: 2015/03/12; Switzerland
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America
75: DARK FOREST PRODUCTIONS LIMITED, a limited company incorporated under the laws of England and Wales3 Queen Caroline Street, Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa
76: Simon Kinberg, Allison Shearmur and David Barron
77: Kenneth Branagh
54: **CINDERELLA**
78: Lily James, Cate Blanchett, Richard Madden, Helena Bonham Carter, Holliday Grainger, Sophie McShera, Stellan Skarsgärd Derek Jacobi
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: The story of "Cinderella" follows the fortunes of young Ella (Lily James) whose merchant father remarries following the death of her mother. Eager to support her loving father, Ella welcomes her new stepmother (Cate Blanchett) and her daughters Anastasia (Holliday Grainger) and Drisella (Sophie McShera) into the family home. But, when Ella's father unexpectedly passes away, she finds herself at the mercy of a jealous and cruel new family. Finally relegated to nothing more than a servant girl covered in ashes, and spitefully renamed Cinderella, Ella could easily begin to lose hope. Yet, despite the cruelty inflicted upon her, Ella is determined to honor her mother's dying words and to "have courage and be kind." She will not give in to despair nor despise those who mistreat her. And then there is the dashing stranger she meets in the woods. Unaware that he is really a prince, not merely an apprentice at the Palace, Ella finally feels

she has met a kindred soul. It appears her fortunes may be about to change when the Palace sends out an open invitation for all maidens to attend a ball, raising Ella's hopes of once again encountering the charming Kit (Richard Madden). Alas, her stepmother forbids her to attend and callously rips apart her dress. But, as in all good fairy tales, help is at hand, and a kindly beggar woman (Helena Bonham Carter) steps forward and - armed with a pumpkin and a few mice - changes Cinderella's life forever.

58: MI

21: 2022/00031. 22: 2022/05/18 43: 2022/05/18
24: 2020/01/01 to 2021/01/01; Emeryville, California, United States of America
25: 2021/06/17; Israel
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, California, 94608, United States of America
75: PIXAR, a California Corporation1200 Park Avenue, Emeryville, California, US, 94608, Phone: 0124326000, Email: kagisho.manyashi@adams.africa
76: Andrea Warren
77: Enrico Casarosa
54: **LUCA**
78: Jacob Tremblay (voice), Jack Dylan Grazer (voice), Emma Berman (voice), Saverio Raimondo (voice), Maya Rudolph (voice), Marco Barricelli (voice) and Jim Gaffigan (voice)
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Set in a beautiful seaside town on the Italian Riviera, Disney and Pixar’s original feature film “Luca” is a coming-of-age story about one young boy experiencing an unforgettable summer filled with gelato, pasta and endless scooter rides. Luca shares these adventures with his newfound best friend, but all the fun is threatened by a deeply-held secret: they are sea monsters from another world just below the water’s surface.

58: CA

21: 2022/00032. 22: 2022/05/18 43: 2022/05/18
24: 2018/01/01 to 2019/01/01; Emeryville, California
25: 2020/03/04; France
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, California, 94608, United States of America
75: PIXAR, a California Corporation1200 Park Avenue, Emeryville, California, US, 94608, Phone: 0124326000, Email: kagisho.manyashi@adams.africa
76: Kori Rae
77: Dan Scanlon
54: **ONWARD**
78: Tom Holland, Chris Pratt, Julia Louis-Dreyfus, Octavia Spencer, Kyle Bornheimer, Mel Rodriguez, Lena Waithe, Ali Wong, Grey Griffin, Tracey Ullman, Wilmer Valderrama, George Psarras and John Ratzenberger
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: In Disney and Pixar’s ONWARD, two teenage elf brothers, Ian and Barley Lightfoot (voices of Tom Holland and Chris Pratt), get an unexpected opportunity to spend one more day with their late dad and embark on an extraordinary quest aboard Barley’s epic van Guinevere. Like any good quest, their journey is filled with magic spells, cryptic maps, impossible obstacles, and unimaginable discoveries. But when the boys’ fearless mom Laurel (voice of Julia Louis-Dreyfus) realizes that her sons are missing, she teams up with a part-lion, part-bat, part-scorpion, former warrior – aka The Manticore (voice of Octavia Spencer) – and heads off to find them. Perilous curses aside, this one magical day could mean more than any of them ever dreamed

58: CA

21: 2022/00033. 22: 2022/05/18 43: 2022/05/18
24: 2020/01/01 to 2021/01/01; Emeryville, California, United States of America
25: 2022/03/10; Philippines
71: DISNEY ENTERPRISES, INC., a Delaware Corporation, 500 South Buena Vista St., Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, California, 94608, United States of America
75: PIXAR, a California Corporation1200 Park Avenue, Emeryville, California, US, 94608, Phone: 0124326000, Email: kagisho.manyashi@adams.africa
76: Lindsey Collins
77: Domee Shi
54: **TURNING RED**
78: Rosalie Chiang (voice), Sandra Oh (voice), Ava Morse (voice), Maitreyi Ramakrishnan (voice), Hyein Park (voice), Orion Lee (voice), Wai Ching

Ho (voice), Tristan Allerick Chen (voice), James Hong (voice), James Hong (voice), Addie Chandler (voice), Sasha Roiz (voice) and Lily Sanfelippo (voice)
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Turning Red introduces Mei Lee, a confident, dorky 13year-old torn between staying her mother's dutiful daughter and the chaos of adolescence. And as if changes to her interests, relationships and body weren't enough, whenever she gets too excited (which for a teenager is practically ALWAYS), she "poofs" into a giant red panda.

58: CA

21: 2022/00034. 22: 2022/05/18 43: 2022/05/18
24: 2018/03/19 to 2018/07/06; Los Angeles, California; Baton Rouge, Louisiana; New Orleans, Louisiana
25: 2019/03/06; France
71: MVL FILM FINANCE LLC a Delaware Corporation 500 South Buena Vista St., Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC a Delaware Corporation500 South Buena Vista St., Burbank, California, US, 91521, Phone: 0124326000, Email: kagisho.manyashi@adams.africa
76: Kevin Feige
77: Anna Boden and Ryan Fleck
54: **CAPTAIN MARVEL**
78: Brie Larson, Samuel L. Jackson, Ben Mendelsohn, Djimon Hounsou, Lee Pace, Lashana Lynch, Gemma Chan, Rune Temte, Algenis Perez Soto, Annette Bening, Clark Gregg and Jude Law
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Set in the 1990s, Marvel Studios' "Captain Marvel" is an all-new adventure from a previously unseen period in the history of the Marvel Cinematic Universe that follows the journey of Carol Danvers as she becomes one of the universe's most powerful heroes. While a galactic war between two alien races reaches Earth, Danvers finds herself and a small cadre of allies at the center of the maelstrom.

58: DR

21: 2022/00035. 22: 2022/05/18 43: 2022/05/18
24: 2018/01/01 to 2019/01/01; in Emeryville, California, United States of America
25: 2019/06/20; Philippines
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, California, 94608, United States of America
75: PIXAR, a California Corporation1200 Park Avenue, Emeryville, California, US, 94608, Phone: 0124326000, Email: kagisho.manyashi@adams.africa;
76: Jonas Rivera and Mark Nielsen
77: Josh Cooley
54: **TOY STORY 4**
78: Tom Hanks (voice), Tim Allen (voice) ,Annie Potts (voice),Tony Hale (voice), Keegan-Michael Key (voice), Madeleine Mcgraw (voice) , Christina Hendricks (voice), Jordan Peele (voice), Keanu Reeves (voice), Ally Maki (voice), Jay Hernandez (voice), Joan Cusack (voice), Bonnie Hunt (voice), Kristen Schaal (voice), Emily Davis (voice), John Ratzenberger (voice), Blake Clark (voice) and Wallace Shawn (voice)
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Woody (voice of Tom Hanks) has always been confident about his place in the world, and that his priority is taking care of his kid, whether that's Andy or Bonnie. So when Bonnie's beloved new craft-project-turned-toy, Forky (voice of Tony Hale), declares himself as "trash" and not a toy, Woody takes it upon himself to show Forky why he should embrace being a toy. But when Bonnie takes the whole gang on her family's road trip excursion, Woody ends up on an unexpected detour that includes a reunion with his long-lost friend Bo Peep (voice of Annie Potts). After years of being on her own, Bo's adventurous spirit and life on the road belie her delicate porcelain exterior. As Woody and Bo realize they're worlds apart when it comes to life as a toy, they soon come to find that's the least of their worries.

58: CA

21: 2022/00039. 22: 2022/09/30 43: 2022/09/30
24: 2020/11/01 to 2021/04/01; London, England; Surrey, England; Somerset, England
25: 2022/05/04; France
71: MVL FILM FINANCE LLC.
500 South Buena Vista St., Burbank, Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC500 South Buena Vista St., Burbank, Burbank, California, 91521, Phone: 0124326000, Email: kagisho.manyashi@adams.africa
76: Kevin Feige
77: Sam Raimi

54: **DOCTOR STRANGE IN THE MULTIVERSE OF MADNESS**
78: Benedict Cumberbatch, Elizabeth Olsen, Chiwetel Ejiofor, Benedict Wong, Xochitl Gomez, Michael Stuhlbarg and Rachel McAdams
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: In Marvel Studios' "Doctor Strange in the Multiverse of Madness," the MCU unlocks the Multiverse and pushes its boundaries further than ever before. Journey into the unknown with Doctor Strange, who, with the help of mystical allies both old and new, traverses the mind-bending and dangerous alternate realities of the Multiverse to confront a mysterious new adversary.

58: DR

21: 2022/00040. 22: 2022/09/30 43: 2022/09/30
24: 2021/01/26 to 2021/06/01; Sydney, Australia
25: 2022/07/06; Australia
71: MVL FILM FINANCE LLC.
500 South Buena Vista St., Burbank, Burbank, California, 91521, United States of America
75: MVL FILM FINANCE LLC.500 South Buena Vista St., Burbank, Burbank, California, US, 91521, Phone: 0124326000, Email: kagisho.manyashi@adams.africa
76: Kevin Feige and Brad Winderbaum
77: Taika Waititi
54: **THOR: LOVE AND THUNDER**
78: Chris Hemsworth, Christian Bale, Tessa Thompson, Jaimie Alexander, Taika Waititi, Russell Crowe and Natalie Portman
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Marvel Studios' "Thor: Love and Thunder" finds the God of Thunder on a journey unlike anything he's ever faced—one of self-discovery. But his efforts are interrupted by a galactic killer known as Gorr the God Butcher, who seeks the extinction of the gods. To combat the threat, Thor enlists the help of King Valkyrie, Korg and ex-girlfriend Jane Foster, who—to Thor's surprise—inexplicably wields his magical hammer, Mjolnir, as the
Mighty Thor.

58: DR

21: 2022/00041. 22: 2022/09/30 43: 2022/09/30
24: 2001/01/01 to 2002/01/01; New York City, New York, U.S.A.
25: 2002/12/25; United States of America
71: HOSTAGE PRODUCTIONS, INC., a domestic subsidiary of DISNEY ENTERPRISES, INC.
500 South Buena Vista St., Burbank, Burbank, California, 91521, United States of America
75: 25TH HOUR PRODUCTIONS, INC.10966 Strathmore Drive #6, Los Angeles, California, US, 90024
76: Tobey Maguire, Julia Chasman, Spike Lee and Jon Kilik
77: Spike Lee
54: **25TH HOUR**
78: Edward Norton, Philip Seymour Hoffman, Barry Pepper, Rosario Dawson, Anna Paquin, Brian Cox, Tony Siragusa, Levan Uchaneishvili, Tony Devon, Misha Kuznetsov, Isiah Whitlock Jr., Michael Genet, Patrice O'Neal, Al Palagonia, Aaron Stanford, Marc H. Simon and Armando Riesco
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: The clock is ticking on Monty Brogan's (academy award nominee Edward Norton) freedom -- in 24 hours, he goes to prison for seven long years. Once a king of Manhattan, Monty is about to say goodbye to the life he knew -- a life that opened doors to New York's swankiest clubs but also alienated him from the people closest to him. In his last day on the outside, Monty tries to reconnect with his father (Brian Cox), who's never given up on his son, and gets together with his two closest friends from the old days, Jacob (Philip Seymour Hoffman) and Slaughter (Barry Pepper). Also in the mix is his girlfriend, Naturelle (Rosario Dawson), who might (or might not) have been the one that tipped off the cops. Monty's not sure of much these days...but with time running out, there are choices to be made. Acclaimed director Spike Lee sheds light on a man who's unsure of how his life has led him to this point as he struggles to redeem himself in the 25th hour.

58: DR

21: 2022/00042. 22: 2022/09/30 43: 2022/09/30
24: 2014/09/08 to 2014/12/01; Quincy, Massachusetts; Chatham, Massachusetts; Marshfield, Massachusetts.
25: 2016/01/27; Belgium
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, Burbank, California, 91521, United States of America
75: NOR'EASTER PRODUCTIONS, INC.,., a California corporation500 South Buena Vista St., Burbank, Burbank, California, US, 91521, Phone: 0124326000, Email: kagisho.manyashi@adams.africa

76: Jim Whitaker and Dorothy Aufiero
77: Craig Gillespie
54: **THE FINEST HOURS**
78: Chris Pine, Casey Affleck, Ben Foster, Holliday Grainger, Holliday Grainger, Graham McTavish, Kyle Gallner, Michael Raymond James, John Magaro, Abraham Benrubi, Keiynan Lonsdale, John Ortiz, Beau Knapp, Josh Stewart, Rachel Brosnahan, Matthew Maher and Benjamin Koldyke
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: On February 18, 1952, a massive nor'easter struck New England, pummeling towns along the Eastern seaboard and wreaking havoc on anything caught in its destructive path, including two 500-foot oil tankers. The SS Pendleton and SS Fort Mercer, bound for Boston, Massachusetts and Portland, Maine, respectively, were both ripped in half, trapping their crews inside. For the senior officer aboard the stern of the Pendleton, first assistant engineer Ray Sybert (Casey Affleck), he quickly realizes that it is up to him to take charge of the frightened crew and encourage them to work together to keep the ship afloat for as long as possible. The U.S. Coast Guard Station in Chatham, Massachusetts was busy helping local fishermen protect their boats from the storm when they received word that the damaged ships were adrift in nearby waters. Warrant Officer Daniel Cluff (Eric Bana), the recently-appointed station chief, immediately dispatches the CG 36500 lifeboat under the command of Captain Bernie Webber (Chris Pine) to search for survivors. Webber and his crew of three men on board the 36-foot motorized, wooden lifeboat, set off on the perilous mission with bleak prospects at best, and before they even clear the harbor, the boat's windshield and compass are destroyed. Yet the men persevere, and despite hurricane-force winds, 70-foot waves, frigid temperatures and zero visibility, miraculously locate the Pendleton and rescue 32 of its 33 men in the midst of the turbulent storm. Facing the worst of Mother Nature, they head back into the belly of the beast, returning a total of 36 men home on their battered 12-seat lifeboat.

58: DR

21: 2022/00043. 22: 2022/10/02 43: 2022/10/02
24: 2019/01/01 to 2020/01/01; Emeryville, California, United States of America
25: 2020/12/25; United States of America
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, Emeryville, California, 94608, United States of America
75: PIXAR, a California Corporation,1200 Park Avenue, Emeryville, Emeryville, California, US, 94608
76: Dana Murray
77: Pete Docter
54: **SOUL**
78: Jamie Foxx, Tina Fey, Graham Norton, Rachel House, Alice Braga, Richard Ayoade, Wes Studi, Fortune Feimster, Zenobia Shroff, Phylicia Rashad, Donnell Rawlings, Ahmir "Questlove" Thompson, Angela Bassett and Daveed Diggs
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: What is it that makes you...YOU? Pixar Animation Studios' all-new feature film SOUL introduces Joe Gardner (voice of Jamie Foxx) – a middle-school band teacher who gets the chance of a lifetime to play at the best jazz club in town. But one small misstep takes him from the streets of New York City to The Great Before – a fantastical place where new souls get their personalities, quirks and interests before they go to Earth. Determined to return to his life, Joe teams up with a precocious soul, 22 (voice of Tina Fey), who has never understood the appeal of the human experience. As Joe desperately tries to show 22 what's great about living, he may just discover the answers to some of life's most important questions. Directed by Academy Award® winner Pete Docter ("Inside Out," "Up"), co-directed by Kemp Powers ("One Night in Miami"), written by Kemp Powers & Mike Jones, and produced by Academy Award nominee Dana Murray (Pixar short "Lou"), SOUL also stars the voice talents of Phylicia Rashad, Questlove and Daveed Diggs. It features original jazz music by globally renowned musician Jon Batiste, and Oscar® winners Trent Reznor and Atticus Ross ("The Social Network"), from Nine Inch Nails, composed an original score that drifts between the real and soul worlds.

58: CA

21: 2022/00044. 22: 2022/10/02 43: 2022/10/02
24: 2021/01/01 to 2022/01/01; Emeryville, California, United States of America
25: 2022/06/15; Philippines
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista St., Burbank, Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, Emeryville, California, 94608, United States of America

75: PIXAR, a California Corporation1200 Park Avenue, Emeryville, California, Emeryville, California, US, 94608
76: Galyn Susman
77: Angus MacLane
54: **LIGHTYEAR**
78: Chris Evans, Keke Palmer, Peter Sohn, Taika Waititi, Dale Soules, James Brolin, Uzo Aduba, Mary McDonald-Lewis, Isiah Whitlock Jr., Angus MacLane, Bill Hader and Efren Ramirez
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: From Disney and Pixar comes an animated sci-fi action adventure — the definitive origin story of Buzz Lightyear (voice of Chris Evans), the hero who inspired the toy. “Lightyear” follows the legendary space ranger on an intergalactic adventure alongside ambitious recruits, Izzy, Mo and Darby, and his robot companion Sox. As this motley crew embark on their toughest mission yet, they must learn to work as a team to escape the evil Zurg and his dutiful robot army who are never far behind.

58: CA

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

The trade mark under application number **2017/22744** was advertised in the May 2022 journal without the associated application number which read as **2017/15884.** The whole advertisement should have appeared as the one below but the 25/05/2022 will remain as the valid publication date.

2017/22744 in Class 09: Computer monitors; LCD large-screen displays; large size electronics digital displays, namely, digital signage; interactive whiteboards; touch panel; software. in the name of SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea. Address for service: Von Seidels, 1 Park Close, Central Park, Century City, 7441, SOUTH AFRICA

SAMSUNG FLIP

Associated with: 2017/15884
FILED: 2017-08-08

The trade mark under application number **2018/08723** was advertised in the November 2022 journal with an incorrect depiction of the mark which appeared as **DIRECT FULL ARRAY ELITE** and it should have appeared as **Direct Full Array Elite**. The whole advertisement should have appeared as the one below but the **30/11/2022** will remain as the valid publication date.

2018/08723 in Class 09: Televisions. in the name of SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea. Address for service: Von Seidels, 1 Park Close, Central Park, Park Lane, Century City, 7441, SOUTH AFRICA

Direct Full Array Elite

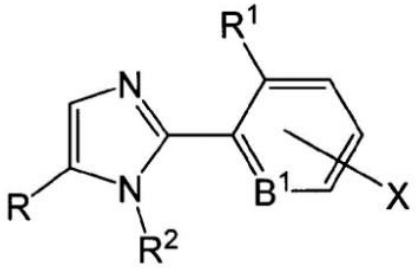
Associated with: 2018/08720
Registration of this trade mark shall give no right to the exclusive use of the words "FULL" and "ELITE", separately and apart from the mark.
Priority is claimed by virtue of trade mark no: 40-2017-0137727 filed in KR on 2017-10-31
FILED: 2018-04-03

PATENT CORRECTION NOTICES

The patent under application number **2021/02374** was advertised in the September 2022 journal without the publication drawing and it should have appeared as the one below but the publication date will remain the **28/09/2022.**

21: 2021/02374. 22: 2021/04/12. 43: 2022/07/07
51: A01N; A61K; C07D; A61P; A01P
71: NIPPON SODA CO., LTD.
72: SAKANISHI, Keita, SAKIYAMA, Norifumi, AOYAMA, Hikaru, MATSUI, Maki, IWASA, Takao, KOBAYASHI, Tomomi, USHIJIMA, Daisuke, AZUMA, Keita, SUMINO, Masanori, ASHIKARI, Yasuhiko, SHIBAYAMA, Kotaro, TAGUCHI, Riho
33: JP 31: 2018-202998 32: 2018-10-29
54: (HETERO) ARYLIMIDAZOLE COMPOUND AND HARMFUL ORGANISM CONTROL AGENT
00: -
The present invention addresses the problem of providing a (hetero)arylimidazole compound which has an excellent harmful organism controlling activity, particularly an excellent insecticidal activity and/or an excellent acaricidal activity, also has excellent safety, and can be synthesized industrially advantageously. The (hetero)arylimidazole compound according to the present invention is a compound represented by formula (I), or

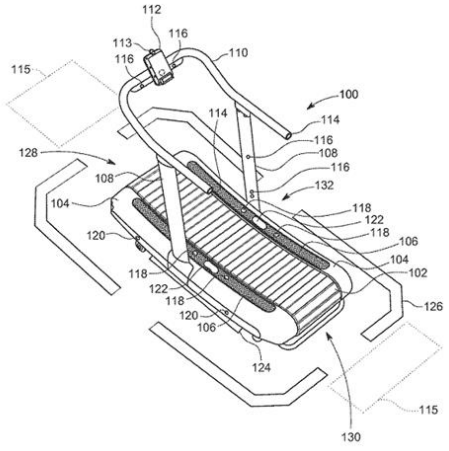
an N-oxide compound, a stereoisomer, a tautomer or a hydrate of the compound, or a salt of the compound, the N-oxide compound, the stereoisomer, the tautomer or the hydrate. In formula (I), B1 represents a nitrogen atom or CH; X represents a substituted or unsubstituted C3-8 cycloalkyl group; R1 represents a substituted or unsubstituted C1-6 alkylthio group or a substituted or unsubstituted C1-6 alkylsulfonyl group; R2 represents a substituted or unsubstituted C1-6 alkyl group; and R represents a substituted or unsubstituted C2-6 alkenyl group.



(I)

The patent under application no: **2021/03995** was advertised in the September 2022 journal with incorrect sequence of priority information and they should have appeared as **33: US 31: 62/919,155 32: 2019-02-28 33: US 31: 16/418,234 32: 2019-05-21 33: US 31: PCT/US2019/033304 32: 2019-05-21** but the publication date will remain the **28 September 2022.** The entire publication should have appeared as the one below:

21: **2021/03995**. 22: 2021/06/10. 43: 2022/07/08
51: A63B
71: THE GIOVANNI PROJECT LLC
72: FIMA, Giovanni, Raoul
33: US 31: 62/919,155 32: 2019-02-28
33: US 31: 16/418,234 32: 2019-05-21
33: US 31: PCT/US2019/033304 32: 2019-05-21
54: LOCKING AND BRAKING SYSTEMS FOR A TREADMILL
00: -
A locking system for a treadmill includes a locking mechanism having a locked configuration that prevents the tread from rotating in a front-to-rear direction and an unlocked configuration which allows the tread to rotate in the front-to-rear direction. A presence sensor and a weight sensor are each configured to detect the user on the treadmill, and a display is configured to receive an inputted code indicating the user is on the treadmill. The controller is configured to move the locking mechanism to the unlocked configuration in response to the controller receiving signals from at least two of the presence sensor, the weight sensor and the display indicating that the user is on the treadmill, and move the locking mechanism to the locked configuration in response to receiving signals from both of the presence sensor and the weight sensor indicating the user is not on the treadmill.



The patent under application number **2021/00320** was errornelously accepted and published in the December 2021 journal therefore the publication of this patent **(2021/00320)** is ***null and void*** based on the form P4 of Withdrawal and Delay of acceptance which was filed on the **07/09/2021.**

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for December 2022

Number of Advertised Patents: 909

Application Number	Patent Title	Filing Date
2011/00753	GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES	2011/01/28
2013/04499	ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES,AND METHODS OF USING SAME FOR IMPROVING PLANT PROPERTIES	2013/06/19
2013/08339	SPECTROSCOPIC ANALYSER	2013/11/06
2014/03570	BINDING MOLECULES SPECIFIC FOR HER3 AND USES THEREOF	2014/05/16
2014/04593	ION EXCHANGE MEMBRANE CHROMATOGRAPHY	2014/06/23
2014/05511	PHARMACEUTICAL COMPOSITIONS CONTAINING DIMETHYL FUMARATE	2014/07/25
2014/06274	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2014/08/27
2014/08587	HAPLOTYPES ASSOCIATED WITH IMPROVED STACKED TRAIT PERFORMANCE IN TRANSGENIC PLANTS	2014/11/12
2015/01022	SKIN CARE	2015/02/13
2015/04597	METHOD FOR COATING METALLIC SURFACES OF SUBSTRATES, AND OBJECTS COATED ACCORDING TO SAID METHOD	2015/06/25
2015/09299	SWITCH ASSEMBLY WITH ROTATABLE OPERATIONAL PART	2015/12/22
2015/09300	PUSH-BUTTON SWITCH ASSEMBLY, AND OPERATIONAL PART	2015/12/22
2015/09303	SWITCH ASSEMBLY, SYSTEM AND METHOD	2015/12/22
2016/00312	THERAPEUTIC AGENTS FOR USE IN THE PROPHYLAXIS AND/OR TREATMENT OF HYPERKINETIC MOVEMENT DISORDERS	2016/01/14
2016/02151	THERAPY WITH CELLS FROM HUMAN PLACENTA AND HEMATOPOIETIC CELLS	2016/03/31
2016/03160	USE OF PESTICIDAL ACTIVE CARBOXAMIDE DERIVATIVE IN SOIL AND SEED APPLICATION AND TREATMENT METHODS	2016/05/11
2016/03211	INSECTICIDAL ACTIVE MIXTURES COMPRISING CARBOXAMIDE COMPOUND	2016/05/12
2016/03213	AGRICULTURAL MIXTURES COMPRISING CARBOXAMIDE COMPOUND	2016/05/12
2016/04740	ANTIBODY MOLECULES TO LAG-3 AND USES THEREOF	2016/07/11
2016/05424	CRYSTALLINE SOLID FORMS OF N-{4-[(6,7-DIMETHOXYQUINOLIN-4-YL)OXY]PHENYL}-N'-(4-FLUOROPHENYL) CYCLOPROPANE-1, 1-DICARBOXAMIDE, PROCESSES FOR MAKING, AND METHODS OF USE	2016/08/02

Application Number	Patent Title	Filing Date
2016/06745	ANTAGONIST ANTIBODIES DIRECTED AGAINST CALCITONIN GENE-RELATED PEPTIDE AND METHODS USING SAME	2016/09/29
2017/00672	OPTIONALLY FUSED HETEROCYCLYL-SUBSTITUTED DERIVATIVES OF PYRIMIDINE USEFUL FOR THE TREATMENT OF INFLAMMATORY, METABOLIC, ONCOLOGIC AND AUTOIMMUNE DISEASES	2017/01/26
2017/02762	REDUCING VISCOSITY OF PHARMACEUTICAL FORMULATIONS	2017/04/19
2017/03083	METHODS OF SELECTING T CELL LINE AND DONOR THEREOF FOR ADOPTIVE CELLULAR THERAPY	2017/05/04
2017/03350	METHODS AND PRODUCTS FOR PRODUCT TRACING AND AUTHENTICATION USING CONDUCTIVE INKS	2017/05/15
2017/03505	ENGINEERED GAMMA DELTA T-CELLS	2017/05/22
2017/04157	GENERATION OF PEROXYFORMIC ACID THROUGH POLYHYDRIC ALCOHOL FORMATE	2017/06/19
2017/04977	USE OF SHORT CHAIN FATTY ACIDS IN CANCER PREVENTION	2017/07/21
2017/05303	ANTIBODIES DIRECTED AGAINST LYMPHOCYTE ACTIVATION GENE 3 (LAG-3)	2017/08/04
2017/06410	IMAGE DECODING APPARATUS	2017/09/22
2017/06915	METHODS AND COMPOSITIONS FOR THE TREATMENT OF CELLULOSIC BIOMASS AND PRODUCTS PRODUCED THEREBY	2017/10/12
2017/07217	TRANSMISSION APPARATUS AND TRANSMISSION METHOD OF AN AGGREGATE PHYSICAL LAYER PROTOCOL DATA UNIT	2017/10/25
2017/07445	NON-COMBUSTIBLE SMOKING DEVICE AND ELEMENTS THEREOF	2017/11/02
2017/08412	NEUROACTIVE STEROID SOLUTIONS AND THEIR METHODS OF USE	2017/12/12
2018/00692	ANTI-PD-1 ANTIBODIES, ACTIVATABLE ANTI-PD-1 ANTIBODIES, AND METHODS OF USE THEREOF	2018/02/01
2018/01656	METHODS OF TREATING MULTIPLE MYELOMA AND PLASMA CELL LEUKEMIA BY T CELL THERAPY	2018/03/09
2018/01673	OPTIMIZED ANTI¿CD3 BISPECIFIC ANTIBODIES AND USES THEREOF	2018/03/12
2018/01961	SMOOTHING ROLLER ASSEMBLY	2018/03/23
2018/01962	METHOD AND APPARATUS FOR CAN EXPANSION	2018/03/23
2018/02456	HEPATITIS B CORE PROTEIN MODULATORS	2018/04/13
2018/02461	MULTIPLEXED GENOME EDITING	2018/04/13
2018/02534	ZIRCONIA-BASED COMPOSITIONS FOR USE AS THREE WAY CATALYSTS	2018/04/17
2018/02584	ANTI-5T4 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES	2018/04/18
2018/02608	ORAL CARE COMPOSITIONS COMPRISING ZINC AMINO ACID HALIDES	2018/04/19
2018/02807	ANTIBODIES THAT BIND HUMAN CANNABINOID 1 (CB1) RECEPTOR	2018/04/26

Application Number	Patent Title	Filing Date
2018/03096	AXMI554 DELTA-ENDOTOXIN GENE AND METHODS FOR ITS USE	2018/05/11
2018/03097	HIGH-DOSE STATINS FOR AGE-RELATED MACULAR DEGENERATION	2018/05/11
2018/03099	HYDROGEN PEROXIDE BOOSTER SYSTEM FOR ENHANCED TEETH WHITENING	2018/05/11
2018/03144	A WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE	2018/05/14
2018/03166	COMBINATION THERAPY FOR TREATING MALIGNANCIES	2018/05/14
2018/03414	FILTER DEVICE	2018/05/23
2018/03423	SULFUR DIOXIDE SCRUBBING SYSTEM AND PROCESS FOR PRODUCING POTASSIUM PRODUCTS	2018/05/23
2018/03502	AUTOMATED SYSTEM FOR PRODUCING INDUCED PLURIPOTENT STEM CELLS OR DIFFERENTIATED CELLS	2018/05/28
2018/03648	PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL FROM SUGARS	2018/05/31
2018/03700	ATTENUATED INFECTIOUS BRONCHITIS VIRUS	2018/06/04
2018/03848	AUTOGYRO ROTOR BLADE FOR GENERATING LIFT BY AUTOROTATION	2018/06/08
2018/04328	TETRAVALENT ANTI-PSGL-1 ANTIBODIES AND USES THEREOF	2018/06/27
2018/04354	PHARMACEUTICAL COMPOSITION COMPRISING BISPECIFIC ANTIBODY CONSTRUCTS	2018/06/28
2018/04381	TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	2018/06/29
2018/04514	BISPECIFIC T CELL ENGAGING ANTIBODY CONSTRUCTS	2018/07/06
2018/04593	MAYTANSINOID DERIVATIVES, CONJUGATES THEREOF, AND METHODS OF USE	2018/07/10
2018/04634	CLOQUINTOCET SALTS FOR SAFENING PYROXSULAM COMPOSITIONS	2018/07/11
2018/04660	TREATMENT OF INTRAHEPATIC CHOLESTASIS AND RELATED LIVER DISEASES	2018/07/12
2018/04966	2-OXINDOLE COMPOUNDS	2018/07/24
2018/05003	COUPLING HAVING TABBED RETAINER	2018/07/25
2018/05741	PHARMACEUTICAL COMPOSITIONS AND METHODS FOR COUNTERING CHEMOTHERAPY INDUCED CARDIOTOXICITY	2018/08/28
2018/05782	FUEL OIL / PARTICULATE MATERIAL SLURRY COMPOSITIONS AND PROCESSES	2018/08/29
2018/06511	GLYCOALKALOID COMBINATIONS AND VARIOUS USES THEREOF	2018/10/01
2018/06960	FEMTOSECOND LASER BASED METHOD FOR FABRICATION OF MICRO- AND NANO-CONSTRICTION TYPE STRUCTURES ON A YBA2CU3O7-X SUPERCONDUCTING THIN FILM	2018/10/18
2018/08387	IMPROVED PROCESS FOR THE PREPARATION OF CARBAMATES	2018/12/12

Application Number	Patent Title	Filing Date
2018/08499	ANTI-ANDROGENS FOR THE TREATMENT OF NON-METASTATIC CASTRATE-RESISTANT PROSTATE CANCER	2018/12/18
2019/00303	APPARATUS AND METHOD FOR JETTING A CABLE INTO A DUCT	2019/01/16
2019/00398	ELECTRICAL PROTECTIVE CIRCUIT ARRANGEMENT	2019/01/21
2019/00445	PERSONAL CARE GEL AND METHOD	2019/01/22
2019/00509	BLOCKCHAIN-IMPLEMENTED METHOD AND SYSTEM	2019/01/24
2019/00532	PRESERVATION OF MICROORGANISMS	2019/01/25
2019/00536	BLOCKCHAIN-IMPLEMENTED METHOD AND SYSTEM	2019/01/25
2019/00795	RNA EDITING AS BIOMARKERS FOR MOOD DISORDERS TEST	2019/02/07
2019/00836	DISTRIBUTED TRANSACTION PROCESSING AND AUTHENTICATION SYSTEM	2019/02/08
2019/01431	SUBSTITUTED PYRROLIZINE COMPOUNDS AND USES THEREOF	2019/03/07
2019/01456	SIGHT GLASS	2019/03/08
2019/01597	TRIMER STABILIZING HIV ENVELOPE PROTEIN MUTATIONS	2019/03/14
2019/01893	DECK FRAMING SYSTEM	2019/03/27
2019/01982	ORAL CARE COMPOSITIONS	2019/03/29
2019/01992	CONVEYOR BELT DEFLECTION APPARATUS	2019/03/29
2019/02228	PATCH COMPRISING POTASSIUM PERMANGANATE FOR THE TREATMENT OF SKIN DISORDER	2019/04/09
2019/02232	PYRIDINE COMPOUND	2019/04/09
2019/02268	ORAL CARE COMPOSITIONS AND METHODS OF USE	2019/04/10
2019/02328	METHOD AND SYSTEM FOR MODULATING THE BRAIN ELECTRICAL ACTIVITY	2019/04/12
2019/02562	PYRAZOLO [1,5-A]PYRIDINE DERIVATIVES AND THEIR USE AS PESTICIDES	2019/04/23
2019/02618	NOVEL ANTI-HUMAN TRANSFERRIN RECEPTOR ANTIBODY CAPABLE OF PENETRATING BLOOD-BRAIN BARRIER	2019/04/25
2019/02622	ORAL CARE COMPOSITION	2019/04/25
2019/02623	Oral Care Composition	2019/04/25
2019/02868	SYNTHETIC CHIMERIC POXVIRUSES	2019/05/07
2019/02870	FRATAXIN EXPRESSION CONSTRUCTS	2019/05/07
2019/02954	NETWORK NODE, WIRELESS DEVICE AND METHODS THEREIN IN A COMMUNICATIONS NETWORK	2019/05/10
2019/02956	ANTIMICROBIAL FORMULATIONS FOR THE IMPROVED TREATMENT OF VETERINARY HOOF INFECTIONS	2019/05/10
2019/02976	ATTACHMENT STATUS MONITORING OF GROUND ENGAGING TOOLS (GET) AT HEAVY MACHINERY	2019/05/13
2019/03020	A COATING SYSTEM	2019/05/14
2019/03157	MANUFACTURING OPTIMIZATION OF GL-2045, A MULTIMERIZING STRADOMER	2019/05/20

Application Number	Patent Title	Filing Date
2019/03367	AUTONOMOUS AND MOVABLE DEVICE FOR GENERATING, STORING AND DISTRIBUTING ELECTRICAL POWER	2019/05/28
2019/03378	ORAL CARE COMPOSITION	2019/05/28
2019/03379	ORAL CARE COMPOSITIONS	2019/05/28
2019/03381	TWO-PHASE ORAL CARE WHITENING COMPOSITIONS	2019/05/28
2019/03390	MODULATION OF TRANSGENE EXPRESSION IN PLANTS	2019/05/28
2019/03426	ORAL VACCINE AGAINST RUMINANT RESPIRATORY DISEASE COMPRISING POLYVINYLPYRROLIDONE	2019/05/29
2019/03427	PET FOOD COMPOSITIONS	2019/05/29
2019/03431	ORAL CARE COMPOSITIONS	2019/05/29
2019/03451	ORAL CARE COMPOSITIONS	2019/05/30
2019/03457	ORAL CARE COMPOSITION AND METHODS FOR WHITENING TEETH	2019/05/30
2019/03460	ORAL CARE COMPOSITIONS	2019/05/30
2019/03461	ORAL CARE COMPOSITIONS AND METHODS OF USE	2019/05/30
2019/03467	TRANSDERMAL DELIVERY OF LARGE AGENTS	2019/05/31
2019/03468	PYRIMIDINE COMPOUNDS CONTAINING ACIDIC GROUPS	2019/05/31
2019/03482	PRODUCTION OF DESATURATED FATTY ALCOHOLS AND DESATURATED FATTY ACYL ACETATES IN YEAST	2019/05/30
2019/03597	BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME	2019/06/05
2019/03665	3-SUBSTITUTED PROPIONIC ACIDS AS ALPHA V INTEGRIN INHIBITORS	2019/06/07
2019/03669	SWITCHGEAR CABINET WITH PROTECTIVE SWITCH DEVICE	2019/06/07
2019/03869	COMPOSITION AND METHOD FOR THE CHROMIUM-FREE PRETREATMENT OF ALUMINIUM SURFACES	2019/06/14
2019/03874	WOOD PRESERVATIVE AND METHOD FOR PRODUCING SAME	2019/06/14
2019/03879	OVERCURRENT AND SHORT CIRCUIT DETECTOR	2019/06/14
2019/03938	PROLIFIC FLOWERING WATERMELON	2019/06/18
2019/03940	EXON SKIPPING OLIGOMER CONJUGATES FOR MUSCULAR DYSTROPHY	2019/06/18
2019/03954	MIXTURES OF BEFLUBUTAMID OR OPTICALLY ENRICHED FORMS THEREOF WITH A SECOND HERBICIDE	2019/06/18
2019/03977	PET FOOD COMPOSITIONS AND METHODS FOR THE SAME	2019/06/19
2019/03979	PET FOOD COMPOSITIONS AND METHODS FOR THE SAME	2019/06/19
2019/03983	OLEA EUROPAEA POMACE EXTRACT AND METHOD FOR PRODUCING THE EXTRACT	2019/06/19
2019/04001	PET FOOD COMPOSITIONS	2019/06/20
2019/04002	ORAL CARE COMPOSITION FOR LONG-LASTING PEROXIDE DELIVERY	2019/06/20

Application Number	Patent Title	Filing Date
2019/04004	POLY-ADP RIBOSE POLYMERASE (PARP) INHIBITORS	2019/06/20
2019/04042	UNDERWATER CRAFT LESS LIKELY TO BE DETECTED ACROSS GREAT DISTANCES	2019/06/21
2019/04045	GROOVED STACKABLE PANEL FOR FLOATING CULTIVATION OF PLANTS	2019/06/21
2019/04051	PEPTIDE FOR TREATING AGE-RELATED MACULAR DEGENERATION	2019/06/21
2019/04058	HYBRID CABLE AND ASSOCIATED COMMUNICATION SYSTEM	2019/06/21
2019/04062	MODULATOR OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, PHARMACEUTICAL COMPOSITIONS, METHODS OF TREATMENT, AND PROCESS FOR MAKING THE MODULATOR	2019/06/21
2019/04184	METHOD AND DEVICE FOR ROLLING METAL STRIPS	2019/06/26
2019/04188	COMBINATION THERAPY FOR THE TREATMENT OF CANCER	2019/06/26
2019/04269	PYRROLOBENZODIAZEPINE-ANTIBODY CONJUGATES	2019/06/28
2019/04273	COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR GENERATING AND EXTRACTING USER RELATED DATA STORED ON A BLOCKCHAIN	2019/06/28
2019/04298	VEHICLE SLIDE DETECTION	2019/06/28
2019/04316	METHODS OF TREATING CANCER WITH ANTI-PD-1 ANTIBODIES	2019/06/28
2019/04400	BONE REGENERATION MATERIAL	2019/07/04
2019/04862	AMMONIA PROCESS USING ADVANCED SHIFT PROCESS	2019/07/24
2019/04922	UREA PROCESS WITH CONTROLLED EXCESS OF CO2 AND/OR NH3	2019/07/26
2019/04965	HIGH ENERGY-EFFICIENT DEVICE, SYSTEM AND METHOD FOR THE USE OF THERMAL ENERGY OF SOLAR ORIGIN	2019/07/29
2019/05091	RIDING SURFACE AND METHOD FOR CONSTRUCTING A RIDING SURFACE	2019/07/31
2019/05095	MOLECULAR SWITCHES	2019/07/31
2019/05142	METHOD AND APPARATUS FOR RANGE DERIVATION IN CONTEXT ADAPTIVE BINARY ARITHMETIC CODING	2019/08/02
2019/05339	BP005 TOXIN GENE AND METHODS FOR ITS USE	2019/08/13
2019/05495	PARTICLES HAVING A SINTERABLE CORE AND A POLYMERIC COATING, USE THEREOF, AND ADDITIVE MANUFACTURING METHOD USING THE SAME	2019/08/20
2019/05677	GLYCAN-INTERACTING COMPOUNDS AND METHODS OF USE	2019/08/28
2019/05977	A METHYLATION CLASSIFIER FOR DETECTION OF HPV-INDUCED INVASIVE CANCERS, NONHPV-INDUCED GYNAECOLOGICAL AND ANOGENITAL	2019/09/10

Application Number	Patent Title	Filing Date
	CANCERS AND THEIR HIGH-GRADE PRECURSOR LESIONS	
2019/06326	ANALOGS OF DEUTETRABENAZINE, THEIR PREPARATION AND USE	2019/09/25
2019/06348	FLUE GAS EMISSIONS REDUCTION TECHNOLOGY	2019/09/26
2019/06378	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	2019/09/27
2019/06658	APPARATUS FOR TREATING MIXED WASTE AND METHOD THEREOF	2019/10/09
2019/06802	METHOD OF MANUFACTURING A HOLLOW RAILWAY AXLE	2019/10/15
2019/06959	ATOMISER FOR VAPOUR PROVISION DEVICE	2019/10/22
2019/07176	OCULAR FORMULATIONS FOR DRUG-DELIVERY TO THE POSTERIOR SEGMENT OF THE EYE	2019/10/30
2019/07948	ROCK DRILLING MACHINE, ROCK DRILLING RIG AND MEASURING METHOD	2019/11/29
2019/08158	NOVEL METHOD FOR SYNTHESIZING AMANITINS	2019/12/09
2019/08573	WAVE POWERED GENERATOR	2019/12/23
2020/00236	A FROTH FLOTATION ARRANGEMENT AND A FROTH FLOTATION METHOD	2020/01/14
2020/01832	ANALYTICAL METHODS	2020/03/23
2020/01983	LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS	2020/05/04
2020/01985	ANTI-HTRA1 ANTIBODIES AND METHODS OF USE THEREOF	2020/05/04
2020/01986	LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS	2020/05/04
2020/01987	LAYERED CODING AND DATA STRUCTURE FOR COMPRESSED HIGHER-ORDER AMBISONICS SOUND OR SOUND FIELD REPRESENTATIONS	2020/05/04
2020/02054	PROCESSES FOR IMPROVING THE EFFICIENCY OF HYDROCARBON PRODUCTION	2020/05/04
2020/02086	ALCOHOL-RESISTANT ORAL PHARMACEUTICAL COMPOSITIONS OF LORAZEPAM	2020/05/04
2020/02104	INLINER	2020/05/04
2020/02125	CONTAINER MADE FROM POLYBUTYLENE TEREPHTHALATE HAVING A LOW OXYGEN PERMEABILITY	2020/05/04
2020/02156	LIPASE VARIANTS AND MICROCAPSULE COMPOSITIONS COMPRISING SUCH LIPASE VARIANTS	2020/05/04
2020/02292	METHODS OF TREATING HEART FAILURE WITH PRESERVED EJECTION FRACTION	2020/05/04
2020/02296	PRODUCTION OF POLYHYDROXYBUTYRATE IN WOOD-LJUNGDAHL MICROORGANISMS	2020/05/04
2020/02299	SYNERGISTIC PESTICIDAL COMPOSITIONS AND METHODS FOR DELIVERY OF ACTIVE INGREDIENTS	2020/05/04
2020/02319	METHODS FOR BIOLOGICAL PROCESSING OF HYDROCARBON-CONTAINING SUBSTANCES AND SYSTEM FOR REALIZATION THEREOF	2020/05/04

Application Number	Patent Title	Filing Date
2020/02329	PEPTIDE COMPOSITION FOR TREATING EXCITATORY NEUROTOXICITY RELATED INJURIES	2020/05/04
2020/02377	PERSISTENT WRITES FOR NON-VOLATILE MEMORY	2020/05/04
2020/02392	ELECTRONIC TAG	2020/05/04
2020/02470	STAPHYLOCOCCUS AUREUS LEUKOCIDINS, THERAPEUTIC COMPOSITIONS, AND USES THEREOF	2020/05/06
2020/02535	METHOD FOR CONVERTING A NATURALLY-ASPIRATED FLOTATION CELL TO A FORCED-GAS FLOTATION CELL, AND APPARATUS THEREOF	2020/05/07
2020/02585	FILTER PRESS AND METHOD FOR SEPARATING THE SOLID COMPONENTS FROM THE LIQUID COMPONENTS OF A SLURRY	2020/05/08
2020/02652	ALPHA-1 ANTITRYPSIN (AAT) RNAI AGENTS, COMPOSITIONS INCLUDING AAT RNAI AGENTS, AND METHODS OF USE	2020/05/11
2020/02655	ON TRIGGERING MEASUREMENTS IN LTE-NR INTERWORKING	2020/05/11
2020/02685	DRILL BIT WITH WEAR SHIELD	2020/05/12
2020/02898	ANTICANCER AGENTS	2020/05/18
2020/02899	METHOD AND SYSTEM FOR CONTROLLING COMMUNICATION OF A MINING AND/OR CONSTRUCTION MACHINE	2020/05/18
2020/02923	CD47 ANTIBODIES AND USES THEREOF FOR TREATING CANCER	2020/05/19
2020/02955	HAIR CARE COMPOSITION	2020/05/20
2020/03023	BENZOTHIOPHENE-BASED SELECTIVE ESTROGEN RECEPTOR DOWNREGULATORS	2020/05/22
2020/03107	A METHOD FOR MINING AND PROCESSING OF AN ORE	2020/05/26
2020/03171	METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS	2020/05/28
2020/03184	DRIP EMITTER	2020/05/28
2020/03200	COMPOSITIONS, METHODS, AND SYSTEMS FOR THE SYNTHESIS AND USE OF IMAGING AGENTS	2020/05/29
2020/03322	NOBLE METAL CATALYSTS AND PROCESSES FOR REFORMING OF METHANE AND OTHER HYDROCARBONS	2020/06/03
2020/03323	PROCESSES AND SYSTEMS FOR REFORMING OF METHANE AND LIGHT HYDROCARBONS TO LIQUID HYDROCARBON FUELS	2020/06/03
2020/03347	SYSTEM AND METHOD FOR UNDERGROUND WIRELESS SENSOR COMMUNICATION	2020/06/04
2020/03374	DEHYDRATED BINDERS IN SOLID FORM, PRODUCTION METHOD THEREOF, AND METHOD FOR REHYDRATING SAME	2020/06/05
2020/03375	DEHYDRATED COATING COMPOSITIONS IN SOLID FORM, PRODUCTION METHOD THEREOF, AND METHOD FOR REHYDRATING SAME	2020/06/05

Application Number	Patent Title	Filing Date
2020/03404	PYROLYSIS REACTOR AND METHOD OF PYROLYZING BIOMASS WASTE RESIDUE	2020/06/08
2020/03511	FLUID DECONTAMINATION APPARATUS	2020/06/11
2020/03514	COMBINATION TREATMENTS COMPRISING ADMINISTRATION OF 1H-PYRAZOLO[4,3-B]PYRIDINES	2020/06/11
2020/03516	COMBINATION TREATMENTS COMPRISING ADMINISTRATION OF 1H-PYRAZOLO[4,3-B]PYRIDINES	2020/06/11
2020/03526	A PROCESS AND METHOD FOR PRODUCING TITANIUM AND TITANIUM ALLOY BILLETS, SPHERICAL AND NON-SPHERICAL POWDER	2020/06/12
2020/03542	ANTI-ALPHA-SYNUCLEIN ANTIBODIES	2020/06/12
2020/03545	AN AQUACULTURE PROCESS FOR THE PRODUCTION OF SALMON EGGS	2020/06/12
2020/03634	SYSTEM AND METHODS FOR NETWORK MARKETING COMPENSATION	2020/06/17
2020/03646	METHODS AND APPARATUS FOR UNIFIED SPEECH AND AUDIO DECODING QMF BASED HARMONIC TRANSPOSER IMPROVEMENTS	2020/06/17
2020/03685	A NANOPARTICLE-BASED TELOMERASE ASSAY	2020/06/18
2020/03778	HETEROCYCLIC COMPOUNDS AS PRMT5 INHIBITORS	2020/06/22
2020/03784	PROCESS OF PRODUCING ALPHA-HYDROXY COMPOUNDS AND USES THEREOF	2020/06/22
2020/03785	USE OF CORIOBACTERIIA TO PROMOTE GUT HEALTH	2020/06/22
2020/03845	FUSION PROTEINS	2020/06/24
2020/03867	BASE STATION APPARATUS, TERMINAL APPARATUS, AND COMMUNICATION METHOD	2020/06/25
2020/03870	METHOD OF PRODUCING LACTUCA PLANT SEED USING A MEGACHILE BEE	2020/06/25
2020/03916	REFRIGERATION CYCLE APPARATUS	2020/06/26
2020/03944	OPHTHALMIC TOPICAL COMPOSITION COMPRISING DOBESILIC ACID FOR TREATING DISEASES OF THE POSTERIOR SEGMENT OF THE EYE	2020/06/29
2020/03954	HIGH MOBILITY GROUP BOX-1 (HMGB1) IRNA COMPOSITIONS AND METHODS OF USE THEREOF	2020/06/29
2020/03971	SYSTEM AND METHOD FOR TREATING ZINC-CONTAINING WASTE LIQUID	2020/06/30
2020/04121	MECHANICALLY-GASSED EMULSION EXPLOSIVES AND METHODS RELATED THERETO	2020/07/06
2020/04123	EXPLOSIVE COMPOSITIONS FOR USE IN REACTIVE GROUND AND RELATED METHODS	2020/07/06
2020/04180	METHOD AND DEVICE FOR GROUPING FLOATING ARTICLES INTO BATCHES, WITH DYNAMIC HYDRAULIC SUPERIMPOSITION OF THE ARTICLES	2020/07/08
2020/04261	METHODS FOR PROTOCOL ENHANCEMENTS IN 5G NAS	2020/07/10
2020/04410	ADJUSTABLE CLOCK FREQUENCY IN AN INJECTOR HEAD ASSEMBLY FOR AN MRI SYSTEM	2020/07/17

Application Number	Patent Title	Filing Date
2020/04431	WOUND DRESSING DEVICE, ASSEMBLY AND METHOD	2020/07/17
2020/04457	ULTRASOUND APPARATUS FOR MECHANICALLY APPLYING ULTRASOUND WAVES EFFICIENTLY	2020/07/20
2020/04510	SYNTHETIC FIBER ROPE	2020/07/21
2020/04531	COMPOSITIONS CONTAINING THYMOHYDROQUINONE AND THEIR METHOD OF PREPARATION	2020/07/22
2020/04575	DIAGNOSTIC SUPPORT PROGRAM	2020/07/23
2020/04802	HAEMOSTATIC MATERIAL	2020/08/03
2020/04932	METHODS AND COMPOSITIONS FOR MODULATING SPLICING	2020/08/11
2020/04970	METHOD FOR PRODUCING MOULDED PARTS CONSISTING OF A POROUS MATERIAL INPREGNATED WITH POLYSULFIDE	2020/08/12
2020/05022	METHOD AND SYSTEM FOR EXTRACTING PURE HELIUM	2020/08/13
2020/05593	MECHANICAL WOUND CLEANING DEVICE	2020/09/09
2020/05596	AN EDGE WEAR PROTECTOR SYSTEM	2020/09/09
2020/05677	A RADIO NETWORK NODE, A WIRELESS DEVICE AND METHODS THEREIN FOR TRANSMISSION AND RECEPTION OF POSITIONING SYSTEM INFORMATION	2020/09/11
2020/05739	METHOD FOR ARTICLE AUTHENTICATION	2020/09/16
2020/05835	GROUND STABILISATION	2020/09/21
2020/05890	IN VITRO METHOD FOR DETECTING INTESTINAL BARRIER FAILURE IN ANIMALS	2020/09/23
2020/05990	CONTAINER FOR STORING AND TRANSPORTING LIQUEFIED GAS	2020/09/28
2020/06113	INJECTABLE COMPOSITION	2020/10/02
2020/06206	FLOW METER	2020/10/07
2020/06209	DETERMINATION FOR CONDITIONAL HANDOVER FAILURE	2020/10/07
2020/06248	DISTRIBUTED COMPUTING SYSTEM WITH A SYNTHETIC DATA AS A SERVICE FRAMESET PACKAGE STORE	2020/10/08
2020/06251	PROCESSOR FEATURE ID RESPONSE FOR VIRTUALIZATION	2020/10/08
2020/06371	A PHARMACEUTICAL DRY POWDER COMPOSITION FOR INHALATION COMPRISING A THYROID HORMONE	2020/10/14
2020/06372	PHOTOVOLTAIC MICROCELL ARRAY WITH MULTI-STAGE CONCENTRATING OPTICS	2020/10/14
2020/07017	DEVICE FOR PROTECTING A DIAPHRAGM PUMP FROM PRESSURE DIFFERENTIAL	2020/11/11
2020/07191	MULTI-ACTION TRANSACTION SYSTEM AND METHOD	2020/11/18
2020/07404	SOLID-LIQUID CRUDE OIL COMPOSITIONS AND PROCESSES	2020/11/27
2020/07477	A SANITIZING APPARATUS	2020/12/01
2020/07664	RE-USABLE SENSOR MODULE FOR USE WITH A DISPENSER OF A HAND HYGIENE PRODUCT	2020/12/09

Application Number	Patent Title	Filing Date
2020/07668	CROSS-LINK INTERFERENCE MEASUREMENTS FOR NR	2020/12/09
2020/07804	MISSILE WARNER AND METHOD FOR WARNING OF A MISSILE	2020/12/15
2020/07819	APHRODISIAC COMPOSITION AND MANAGEMENT OF MALE SEXUAL DYSFUNCTION	2020/12/15
2020/07863	TRICKLE FLOW WATER METER	2020/12/17
2020/07965	TOPICAL PHARMACEUTICAL COMPOSITIONS	2020/12/21
2021/00280	CROSS-LINKED PYRROLOBENZODIAZEPINE DIMER (PBD) DERIVATIVE AND ITS CONJUGATES	2021/01/14
2021/00509	INHIBITING CREB BINDING PROTEIN (CBP)	2021/01/25
2021/00616	CONTROL ARRANGEMENT	2021/01/28
2021/00747	A LOW-COST SYSTEM FOR INSPECTING THE INTEGRITY OF A WHEEL RIM	2021/02/03
2021/00790	A BURNING APPARATUS	2021/02/04
2021/00804	A MOUNTING AID	2021/02/05
2021/00942	A SEALING DEVICE FOR USE WITH A CENTRIFUGAL PUMP, AND A METHOD OF SEALING A CENTRIFUGAL PUMP	2021/02/11
2021/01238	A MINING SYSTEM	2021/02/24
2021/01366	PROCESSING SYSTEM FOR PROCESSING CRYPTOCURRENCIES AND METHOD FOR PROCESSING CRYPTOCURRENCIES	2021/02/26
2021/01505	PROCESS FOR SMELTING AND SEPARATING RARE EARTH CONCENTRATE USING COMBINATION METHOD	2021/03/04
2021/01993	METHOD AND DEVICE FOR THE CLEANING OF ELECTRODE CELLS WHICH ARE USED FOR WASTE WATER TREATMENT BY ELECTROCOAGULATION	2021/03/24
2021/02140	SUSTAINED-RELEASE INJECTABLE ANTIBIOTICAL FORMULATION	2021/03/30
2021/02228	METHOD AND APPARATUS FOR INTERPOLATION FILTERING FOR INTRA- AND INTER-PREDICTION IN VIDEO CODING	2021/04/01
2021/02345	PLASTIC CONTAINER	2021/04/09
2021/02378	WALL BLOCK, RANGE OF WALL BLOCKS, AND FORMWORK FOR PRODUCING A WALL BLOCK	2021/04/12
2021/02400	A SYSTEM FOR AND A METHOD OF ASSISTING PRIMARY SCHOOL LEARNERS WITH HOMEWORK	2021/04/09
2021/03082	SYSTEMS AND METHODOLOGY FOR CONSTRUCTION MANAGEMENT AND EQUIPMENT POSITIONING VIA BUILDING INFORMATION MODELING	2021/05/07
2021/03349	COMPOUNDS USEFUL IN HIV THERAPY	2021/05/18
2021/03353	ANTAGONISTIC CD40 MONOCLONAL ANTIBODIES AND USES THEREOF	2021/05/18
2021/03423	EFFECTIVE FOAM CONTROL ON PROCESS BEET WASHING WATER BY AUTOMATIC APPLICATION OF ANTIFOAM	2021/05/20
2021/03478	ANTIBODY DRUG CONJUGATES COMPRISING ECTEINASCIDIN DERIVATIVES	2021/05/21

Application Number	Patent Title	Filing Date
2021/03493	A WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE	2021/05/24
2021/03494	A WEARABLE WIFI AUTHENTICATION SENSOR TO REGULATE FILE ACCESS AND USE OF A COMPUTING DEVICE	2021/05/24
2021/03496	A WIFI AUTHENTICATION SENSOR USED TO REGULATE CRYPTO CURRENCY TRANSACTIONS	2021/05/24
2021/03684	NOVEL IMIDAZOLE DERIVATIVE	2021/05/28
2021/04314	METHOD TO CONDITION AND CONTROL SUPERCRITICAL LIQUIFIED PETROLEUM GASES FUEL FLOW FOR OPERATION IN GAS TURBINES	2021/06/23
2021/04320	TRANSMISSION POWER CONTROL FOR A RADIO BASE STATION	2021/06/23
2021/04398	SURGICAL INSTRUMENT	2021/06/25
2021/04718	PLANT BASED READY TO CONSUME GEL PRODUCTS WITH NO ADDED SUGAR AND THEIR USE IN DELIVERY OF AGENTS	2021/07/06
2021/04738	IN VITRO METHOD FOR DETECTING AVIAN INTESTINAL DYSBIOSIS	2021/07/07
2021/05006	COMPOUNDS AND SYNTHETIC METHODS FOR THE PREPARATION OF RETINOID X RECEPTOR-SPECIFIC RETINOIDS	2018/11/16
2021/05147	LIGHT-EMITTING DIODE PACKAGE	2021/07/21
2021/05229	AMINO ACID DERIVATIVES FOR THE TREATMENT OF INFLAMMATORY DISEASES	2021/07/23
2021/05263	A LIGHTING SYSTEM AND METHOD OF USE THEREOF	2021/07/26
2021/05752	HALOALLYLAMINE COMPOUNDS AND APPLICATION THEREOF	2021/08/04
2021/06155	GASIFICATION DEVICE AND PLASMA SHUTTER WITH A MICROWAVE PLAZMA SLOWING SYSTEM OF THE GASIFICATION DEVICE	2021/08/25
2021/06176	CONVEYOR BELT TENSIONING	2021/08/26
2021/06497	ROLLOVER PROTECTION	2021/09/06
2021/06607	PROCESS FOR THE PRODUCTION OF A COMPOSITE MATERIAL FROM TEXTILE WASTE AND POLYETHYLENE FILM WASTE	2021/09/08
2021/06759	MULTIPLE GRANT HANDLING IN MIXED SERVICES SCENARIOS	2021/09/13
2021/06763	AN ENHANCED UP FUNCTION REQUESTED PFCP ASSOCIATION RELEASE	2021/09/13
2021/06803	QUINOLINE CARBOXYLIC ACID ESTER COMPOUND AND PREPARATION METHOD AND USE THEREOF	2021/09/14
2021/06865	WATER TESTING	2021/09/17
2021/06986	DRAINAGE SYSTEM, DRAINAGE UNITS, AND METHODS	2021/09/20
2021/07075	TERMINAL AND TRANSMISSION METHOD	2021/09/22
2021/07076	TERMINAL AND TRANSMISSION METHOD	2021/09/22
2021/07214	ANTIBODIES RECOGNIZING TAU	2021/09/27
2021/07268	ADVERTISING DISPLAY ARRANGEMENT	2021/09/28
2021/07302	SYSTEMS AND METHODS FOR DELIVERING A PERSONALISED DOSE OF EXERCISE	2021/09/28

Application Number	Patent Title	Filing Date
2021/07515	LIQUID COMPOSITION COMPRISING ANTIBODY OF HUMAN INTERLEUKIN-4 RECEPTOR ALPHA	2021/10/06
2021/07582	SHARK RESISTANT COMPOSITE FABRIC	2021/10/08
2021/07587	AQUEOUS PHARMACEUTICAL COMPOSITIONS OF AN ANTI-IL17A ANTIBODY AND USE THEREOF	2021/10/08
2021/07650	METHOD AND NODES FOR HANDLING SYSTEM INFORMATION	2021/10/11
2021/07651	VIDEO CODING COMPRISING RECTANGULAR TILE GROUP SIGNALING	2021/10/11
2021/07652	COLUMN AND LEG LOCKING ASSEMBLIES FOR STATIONARY PLATFORMS	2021/10/11
2021/07758	METHOD FOR THE EXPANSION AND DIFFERENTIATION OF T LYMPHOCYTES AND NK CELLS IN ADOPTIVE TRANSFER THERAPIES	2021/10/13
2021/07771	A PROCESS AND APPARATUS FOR ACID MINE DRAINAGE TREATMENT	2021/10/13
2021/07919	TRANSMISSION OF NR CONTROL INFORMATION IN AN LTE DOWNLINK SUBFRAME	2021/10/18
2021/07996	PROCESS OF MANUFACTURING BIODEGRADABLE PET CHIPS	2021/10/19
2021/08027	PHARMACEUTICAL COMPOSITION FOR SUBCUTANEOUS INJECTION COMPRISING HUMAN HYALURONIDASE PH20 VARIANT AND DRUG	2021/10/20
2021/08444	CERIUM (III) CARBONATE FORMULATIONS	2021/10/29
2021/08524	METHODS FOR PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) BASED WAKE UP SIGNAL (WUS) CONFIGURATION	2021/11/02
2021/09078	MARKETING FACILITATION	2021/11/15
2021/09287	FLUID DISTRIBUTION DEVICE	2021/11/19
2021/09288	AIR SADDLE	2021/11/19
2021/09300	PERMANENT MAGNET SYNCHRONOUS MOTOR AND MOTOR START-UP METHOD	2021/11/19
2021/09351	PREPARATION OF RISEDRONATE ZINC MICRONANO-ADJUVANT, AND USE OF SAME AS VACCINE ADJUVANT	2021/11/22
2021/09374	MONOCLONAL ANTIBODY THAT BINDS SPECIFICALLY TO GITR	2021/11/22
2021/09566	WATER TREATMENT	2021/11/25
2021/09644	SELF-TESTED HANDHELD COVID-19 ANTIGEN TEST CARD AND KIT	2021/11/26
2021/09860	LUGGAGE	2021/12/02
2021/10420	EXTRUDER SCREW HANDLING DEVICE	2021/12/14
2021/10441	ENHANCED MECHANICAL DEWATERING OF A SLURRY	2021/12/14
2021/10445	A FEEDER ARRANGEMENT	2021/12/15
2021/10479	NOVEL ESTERS OF MEDROXYPROGESTERONE	2021/12/15
2021/10596	CONTINUOUS-FLOW ELECTROMAGNETIC-INDUCTION FLUID HEATER IN A BEVERAGE VENDING MACHINE	2021/12/17
2021/10701	COMPOSITE BRAZING MATERIAL FOR HARD ALLOY BRAZING, PRODUCTION METHOD THEREOF, AND USE THEREOF IN CUTTING PICK BRAZING	2021/12/21

Application Number	Patent Title	Filing Date
2021/10908	IMPROVED FERTILISER	2021/12/23
2022/01080	IMPROVED MEDICAL APPARATUS FOR CONTAINING HAEMATOMAS	2022/01/24
2022/01089	RECYCLING OF STEROL-CONTAINING ASPHALT BINDER	2022/01/24
2022/01385	A SYSTEM FOR, AND METHOD OF RISK MANAGEMENT RELATED TO STATUTORY AND REGULATORY COMPLIANCE WITHIN A SOUTH AFRICAN ORGANISTION	2022/01/27
2022/01435	SPUNBONDED NONWOVEN LAMINATE AND METHOD FOR PRODUCING A SPUNBONDED NONWOVEN LAMINATE	2022/01/31
2022/01648	A METHOD AND DEVICE FOR REMOTE TRACING AND OPERATION OF A HOST DEVICE	2022/02/08
2022/01781	A DRIVE SUB FOR A DRILLING ASSEMBLY	2022/02/10
2022/01824	PLASTIC ROAD PLATE AND THE METHOD OF ITS MANUFACTURE	2022/02/11
2022/01896	METHOD AND APPARATUS FOR MOTION INFORMATION STORAGE	2022/02/14
2022/02010	A METHOD AND SYSTEM FOR ACCELERATED PROCUREMENT, SOURCING AND MONITORING OF SUPPLIERS COMPRISING SMALL, MICRO AND MEDIUM ENTERPRISES (SMES)	2022/02/17
2022/02115	REACTOR FOR THE HYDROTHERMAL TREATMENT OF BIOMASS	2022/02/18
2022/02299	ENERGY HARVESTING SYSTEM AND METHOD OF MANUFACTURE	2022/02/23
2022/02311	NOVEL PLATINUM COMPLEX	2022/02/23
2022/02425	SMART OSCILLATING POSITIVE EXPIRATORY PRESSURE DEVICE	2022/02/25
2022/02471	LUBRICANT PUMPING SYSTEM	2022/02/28
2022/02811	METHODS OF TREATING PSYCHOLOGICAL AND BRAIN DISORDERS	2022/03/08
2022/02826	FANO BASED CRAB SENSOR AND SYSTEM FOR FUEL QUALITY, LEVEL, AND VOLUME MONITORING FOR IRREGULAR SHAPED FUEL TANKS	2022/03/09
2022/02872	HYDRAULIC POWER REGENERATION SYSTEM	2022/03/09
2022/02918	A COATED STEEL SUBSTRATE	2022/03/10
2022/02990	AUGER FOR GRINDING POLYURETHANE FOR A TIRE FILLING MACHINE	2022/03/11
2022/02994	METHODS OF GENERATING AND ISOLATING MIDBRAIN DOPAMINE NEURONS	2022/03/11
2022/03081	A Yield System	2022/03/15
2022/03139	BRACKET FOR SOLAR PANELS	2022/03/16
2022/03272	ANTI-STEM CELL FACTOR ANTIBODIES AND METHODS OF USE THEREOF	2022/03/18
2022/03329	PEPTIDE COMPOUNDS AND PEPTIDE CONJUGATES FOR THE TREATMENT OF CANCER THROUGH RECEPTOR-MEDIATED CHEMOTHERAPY	2016/11/24
2022/03365	METHOD FOR PRODUCING A PRESS-HARDENED SHEET STEEL PART HAVING AN ALUMINIUM-BASED COATING, INITIAL SHEET METAL BLANK, AND A	2022/03/22

Application Number	Patent Title	Filing Date
	PRESS-HARDENED SHEET STEEL PART MADE THEREFROM	
2022/03632	METHOD FOR EVALUATING THE OPTICAL QUALITY OF A DELIMITED ZONE OF A GLAZING	2022/03/29
2022/03636	BINDING MOLECULE SPECIFIC FOR LIF AND USE THEREOF	2022/03/29
2022/03662	HEAT-STORAGE MEDIUM CONVEYING SYSTEM FOR SOLAR-THERMAL POWER PLANT	2022/03/30
2022/03770	PHARMACEUTICAL COMBINATION OF PRMT5 INHIBITORS	2022/04/01
2022/03776	METHODS OF TREATING EPILEPSY USING THE SAME	2022/04/01
2022/03915	THREE-PHASE ASYNCHRONOUS ELECTRIC MACHINE AND METHOD OF MANUFACTURE THEREOF	2022/04/06
2022/03929	CONTAINER VISUAL INSPECTION ASSEMBLY AND METHOD	2022/04/06
2022/03930	SOLAR TRACKING SYSTEM	2022/04/06
2022/03960	CONTAINERS	2022/04/07
2022/03961	FLEXOGRAPHIC PRINTING	2022/04/07
2022/03977	PUMP WITH A CONVEYOR DEVICE AT LEAST FOR CONVEYING A FLUID AND SUCH A CONVEYOR DEVICE	2022/04/07
2022/03979	CONVEYOR DEVICE AT LEAST FOR CONVEYING A FLUID AND PUMP COMPRISING SUCH A CONVEYOR DEVICE	2022/04/07
2022/03990	LIPIDOIDS FOR NUCLEIC ACID TRANSFECTION AND USE THEREOF	2022/04/07
2022/03991	SEMI-FINISHED POWDERY FOOD PRODUCT BASED ON VEGETABLE FOOD AND A PROCESS FOR PRODUCTION THEREOF	2022/04/07
2022/04026	DECORATIVE PANEL SUITABLE FOR ASSEMBLING A FLOOR, CEILING OR WALL COVERING BY INTERCONNECTING A PLURALITY OF SAID PANELS WITH EACH OTHER, AND DECORATIVE COVERING OF SUCH INTERCONNECTED PANELS	2022/04/08
2022/04047	PHARMACEUTICAL COMPOSITION COMPRISING AN ANTICOAGULANT AGENT AND METHOD FOR THE PREPARATION THEREOF	2022/04/11
2022/04092	NEW BRAF INHIBITORS AS PARADOX BREAKERS	2022/04/11
2022/04097	COMPRESSION TYPE STRAND OF TEXTURED FILAMENT FOR WIGS AND METHOD FOR PRODUCTION OF THE SAME	2022/04/11
2022/04098	A METHOD FOR SEPARATING AND RECOVERING SUPER-ABSORBENT POLYMERS (SAP) FROM POST-CONSUMER ABSORBENT SANITARY PRODUCTS	2022/04/11
2022/04125	ADJUSTABLE TOW BAR LOAD STABILISER	2022/04/12
2022/04136	USE OF IMIDAZOPYRIMIDINE OR IMIDAZOTRIAZINE COMPOUNDS FOR PREVENTION, ALLEVIATION, OR TREATMENT OF COGNITIVE DISORDERS, OR FOR IMPROVING COGNITIVE FUNCTION	2022/04/12

Application Number	Patent Title	Filing Date
2022/04138	PANEL, IN PARTICULAR A FLOOR PANEL OR A WALL PANEL	2022/04/12
2022/04224	BENEFICIATION OF CHALCOPYRITE	2022/04/14
2022/04267	DRAIN PLUG WITH PERIMETER LABYRINTH FOR CASINGS OF ROTARY ELECTRIC MACHINES AND CORRESPONDING CASING	2022/04/14
2022/04273	CRYSTAL FORM OF HEPATITIS B SURFACE ANTIGEN INHIBITOR AND APPLICATION THEREOF	2022/04/14
2022/04283	DEVICE FOR SORTING POWDER PARTICLES	2022/04/14
2022/04359	AUXILIARY TRAILER	2022/04/19
2022/04418	ADJUSTABLE SUPPORT TRAY FOR A TELEVISION SET	2022/04/20
2022/04444	RENEWABLE RESIN COMPOSITION AND PRODUCT MANUFACTURED FROM SAME	2022/04/20
2022/04456	AN AUTOCLAVE	2022/04/21
2022/04629	SYSTEM FOR MONITORING CUTTING DEVICES IN A PACKAGING PRODUCTION LINES	2022/04/25
2022/04661	SUPPORT MADE FROM STONE AND TENSION-RESISTANT MATERIAL	2022/04/26
2022/04670	CIRCULAR HOSIERY KNITTING MACHINE FOR MANUFACTURING TUBULAR ITEMS	2022/04/26
2022/04675	NEW METHYLQUINAZOLINONE DERIVATIVES	2022/04/26
2022/04710	DRIVE DEVICE WITH MULTIPLE SWINGING BLOCKS DRIVINGLY CONNECTED WITH EACH OTHER	2022/04/28
2022/04736	OVERHEAD LINE SYSTEM FOR CONSTRUCTION MACHINES FOR PIECE GOOD AND BULK MATERIAL TRANSPORT AND CONSTRUCTION MACHINE	2022/04/28
2022/04774	STORING AND SEARCHING FOR DATA IN DATA STORES	2022/04/29
2022/04775	STORING AND SEARCHING FOR DATA IN DATA STORES	2022/04/29
2022/04831	DC BRUSH-ARC FURNACE WITH ARC DEFLECTION COMPENSATION	2022/04/13
2022/04850	METHOD OF IMPROVING THE EXPLOSION SAFETY OF NUCLEAR POWER PLANTS	2022/05/03
2022/04892	HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2022/05/04
2022/04917	A METHOD OF VERIFYING THE STRUCTURAL CONDITION OF COMPUTING DEVICE	2022/05/05
2022/04950	DEFORMED HOLLOW ROCK BOLT	2022/05/05
2022/05116	ULTRA-LARGE MARINE SUBMERSIBLE TRANSPORT BOATS AND ARRANGEMENTS FOR TRANSPORTATION OF AQUEOUS BULK LIQUIDS, INCLUDING FRESH WATER	2022/05/09
2022/05151	REINFORCEMENT FRAME FOR A BATTERY PACK OF AN ELECTRIC OR HYBRID VEHICLE, REINFORCED BATTERY PACK AND PROCESS FOR ASSEMBLING SAID BATTERY PACK	2022/05/10
2022/05162	MANHOLE COMPONENT ARRANGEMENT	2022/05/10
2022/05179	TAMPER PROOF SYSTEM	2022/05/11
2022/05237	CONTAINER CLOSURE	2022/05/11
2022/05377	A LAPTOP STAND	2022/05/16

Application Number	Patent Title	Filing Date
2022/05482	INTRAVAGINAL RING DEVICES	2022/05/18
2022/05520	A DESIGN APPARATUS FOR SYNTHESIS OF TOPOLOGICALLY ORDERED OPEN CELL METAL FOAMS BY RAPID MANUFACTURING	2022/05/19
2022/05530	A SYSTEM FOR ADVANCED ACCESS CONTROL AND SURVEILLANCE IN A SMART HOME AND A METHOD THEREOF	2022/05/19
2022/05531	A METHOD FOR SYNTHESIZING L-GLUTATHIONE (LGSH) FUNCTIONALIZED POLY(3,4-ETHYLENEDIOXYTHIOPHENE) POLY(STYRENE-SULFONATE)/ MULTI-WALLED CARBON NANOTUBES-CARBOXYLIC ACID (PEDOT:PSS/MWCNTS-COOH) NANOCOMPOSITE	2022/05/19
2022/05584	A KETTLE	2022/05/20
2022/05654	ASSEMBLY FOR TRANSPORTING AND SEPARATING LIVING POULTRY BIRDS	2022/05/23
2022/05847	ERROR-BASED ADAPTIVE COEFFICIENT ZEROING NEURAL NETWORK METHOD FOR SOLVING TIME-VARYING CONTINUOUS ALGEBRAIC RICCATI EQUATION	2022/05/26
2022/06126	A REFRIGERATED FRESH-KEEPING TRANSPORTATION EQUIPMENT FOR AQUATIC PRODUCTS	2022/06/01
2022/06249	FARMLAND MANAGEMENT DEVICE CAPABLE OF ADJUSTING TILLAGE DEPTH	2022/06/06
2022/06389	DEVICE AND METHOD FOR DETECTING WATER VAPOR CONCENTRATION USING TWO LASERS	2022/06/08
2022/07006	CONTROL DEVICE FOR A STEAM GENERATOR	2022/06/23
2022/07099	MINING HOSE CONNECTING DEVICE AND METHOD	2022/06/27
2022/07100	REAR-MOUNTED DOUBLE-CHANNEL ABRASIVE JET CUTTING DEVICE	2022/06/27
2022/08016	OPERATION PLATFORM FOR FACILITATING PROCESSING STEEL BAR	2022/07/19
2022/08125	A LPWAN ASSISTED SYSTEM FOR LOCKING AND METHODS THEREOF	2022/07/21
2022/08126	DEEP LEARNING MODEL INSPIRED AUTOMATIC DOOR LOCK SYSTEM FOR AVOIDING THE COLLISION WITH OBSTACLES DURING OPENING THE CAR DOOR	2022/07/21
2022/08127	A SYSTEM OF WATER SECURITY PLAN FOR REMOTE VILLAGES IN UTTARAKHAND HILLS	2022/07/21
2022/08128	A VISION AND EDGE ENABLED SYSTEM FOR SEDIMENTATION LEVEL DETECTION IN FISH PONDS	2022/07/21
2022/08129	FARM EYE - AI SOUND BASED MONITORING AND ALERT SYSTEM OR DEVICE TO PROTECT CROPS FROM DAMAGE CAUSED BY ANIMALS AND BIRDS IN HILLY AREAS	2022/07/21
2022/08130	PORTABLE RECHARGEABLE INSERTING OPTOMETRY DEVICE	2022/07/21

Application Number	Patent Title	Filing Date
2022/08141	METHOD FOR SIMULTANEOUS REMOVE OF HEAVY METALS AND ORGANIC POLLUTANTS IN MINES BY USING IRON-CONTAINING SOLID WASTES	2022/07/21
2022/08151	A SYSTEM OF “PARAMARSH” APP: AN AID FOR WOMEN ASSISTANCE AND GUIDANCE	2022/07/21
2022/08152	SMART HYBRID DRYING SYSTEM FOR MEDICINAL PLANTS PRODUCTS USING MACHINE LEARNING	2022/07/21
2022/08153	A SYSTEM OF ARTIFICIAL INTELLIGENCE ASSISTED HARDWARE DEVICE FOR RESEARCHER TO KNOW MFP (MINOR FOREST PRODUCE) ON AND AROUND COMMUNITY IN HILLY AREAS OF UTTARAKHAND	2022/07/21
2022/08154	A SYSTEM OF EFFICIENT CLASSROOM ATTENDANCE MANAGEMENT THROUGH FACE DETECTION MECHANISM	2022/07/21
2022/08155	A SYSTEM OF APP CONTROLLED MULTIFUCTIONAL INTELLEGENT PORTABLE CUTTING, GRINDING, DRILLING MACHINE IN A SINGLE PLANE	2022/07/21
2022/08251	NOTE RECOGNITION METHOD BASED ON DEEP LEARNING	2022/07/25
2022/08425	METHODS, DEVICES, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR SENSOR SYSTEMS	2022/07/27
2022/08624	LITHIUM DISILICATE GLASS-CERAMIC WITH HIGH STRENGTH AND HIGH TRANSPARENCY AND PREPARATION METHOD AND USE THEREOF	2022/08/02
2022/08630	USE OF PHARMACEUTICAL COMPOSITION FOR PREVENTING AND TREATING NOVEL CORONAVIRUS PNEUMONIA	2022/07/29
2022/08841	METHOD FOR ESTIMATING WHOLE-DAY MILK FAT YIELD BY ONE-TIME SAMPLING AND TESTING FOR MILK OF TWO-TIME MILKING IN ONE DAY	2022/08/08
2022/08842	A COMPOUND FOR PREVENTING AND TREATING MYOPIA	2022/08/08
2022/08844	METHOD FOR DETERMINING POLLUTANTS BY COMBINING DBD SPECTROSCOPY WITH MACHINE LEARNING	2022/08/08
2022/08845	WINE AGING DEVICE AND AGING METHOD BASED ON TERAHERTZ TECHNOLOGY	2022/08/08
2022/08846	AUTOMATIC PROCESSING DEVICE FOR BEARING OUTER RING AND THE PROCESSING METHOD THEREOF	2022/08/08
2022/09022	DEVICE FOR PRODUCING GRAPHITE-TYPE EXPANDABLE POLYSTYRENE BY BULK POLYMERIZATION	2022/08/12
2022/09028	DOUBLE-END WATER SHUTOFF DEVICE AND METHOD FOR PREVENTING BOREHOLE PLUGGING	2022/08/12
2022/09029	DOUBLE-END WATER SHUTOFF DEVICE AND METHOD WITH INTEGRATED DRILLING PEEP FUNCTION	2022/08/12
2022/09031	EXPERIMENTAL METHOD FOR FLUID-SOLID COUPLING PHYSICAL SIMULATION IN CONFINED AQUIFER	2022/08/12

Application Number	Patent Title	Filing Date
2022/09032	MINE WATER INRUSH DISASTER MONITORING AND EARLY WARNING SYSTEM AND CONTROL METHOD THEREOF	2022/08/12
2022/09086	A JOINT EXTRACTION METHOD OF DRUG ENTITIES AND RELATIONSHIPS BASED ON HIGH-LEVEL INTERACTION MECHANISM	2022/08/15
2022/09087	A HIGHLY CONDUCTIVE CU-AG ALLOY AND ITS POWDERY PREPARING METHOD	2022/08/15
2022/09088	A CU-AL ALLOY AND PLASTIC FORMING METHOD	2022/08/15
2022/09089	FULL-AUTOMATIC TAR RESIDUE HARMLESS TREATMENT METHOD	2022/08/15
2022/09090	A RAW MATERIAL NANO-COMMINUTION MIXING DEVICE AND ITS METHOD	2022/08/15
2022/09092	A DOUBLE TRACK LINKAGE FRUIT PICKING DEVICE	2022/08/15
2022/09093	A HANDLING MANIPULATOR	2022/08/15
2022/09095	MICRO-INTERFACIAL STRENGTHENING REACTION SYSTEM	2022/08/15
2022/09102	A PROCESSING METHOD OF YOGHOURT RICH IN RESVERATROL AND GAMMA-AMINOBUTYRIC ACID	2022/08/15
2022/09103	ACRYLATE MODIFIED POLYURETHANE ADHESIVE HYDROGEL MATERIAL AND ITS PREPARATION METHOD	2022/08/15
2022/09148	GROUTING METHOD FOR REINFORCING SURROUNDING ROCK OF THREE-SOFT MINING ROADWAY	2022/08/16
2022/09149	PERFORMANCE PREDICTION METHOD OF ELECTROMECHANICAL EQUIPMENT BASED ON PROBABILISTIC DEEP NEURAL NETWORK MODEL	2022/08/16
2022/09150	DIHYDROXYETHYL BISPHENOL A ETHER AND PREPARATION METHOD THEREOF	2022/08/16
2022/09153	HYPOGLYCEMIC COMPOSITION MAINLY COMPOSED OF SPARASSIS LATIFOLIA, PREPARATION METHOD AND APPLICATION THEREOF	2022/08/16
2022/09155	KASP MOLECULAR MARKERS ASSOCIATED WITH THE MAJOR QTL FOR INOSITOL CONTENT IN PUMPKIN AND THEIR APPLICATIONS	2022/08/16
2022/09160	ARCHITECTURAL INDOOR STAIR CAPABLE OF BEING DISASSEMBLED AND ASSEMBLED	2022/08/16
2022/09161	ARCHITECTURAL TEACHING SYSTEM ACHIEVING VIRTUALITY AND REALITY COMBINATION	2022/08/16
2022/09162	NON-CONTACT MAINTENANCE DEVICE FOR BROKEN ROAD	2022/08/16
2022/09163	METHOD FOR ELECTROCHEMICAL RECOGNITION AND DETECTION OF ASPARTIC ACID ENANTIOMER AND APPLICATION THEREOF	2022/08/16
2022/09164	MECHANICAL-WATER JET COMBINED ROOT CUTTER FOR GRASSLAND IMPROVEMENT	2022/08/16
2022/09165	A FULL-MECHANICAL LIFTING CLUTCH DEVICE AND THE HOISTING METHOD THEREOF	2022/08/16
2022/09166	POMFRET BONE EJIAO AND THE PREPARATION METHOD THEREOF	2022/08/16

Application Number	Patent Title	Filing Date
2022/09189	COTTON CROP ROW DETECTION METHOD AND APPARATUS BASED ON COMPUTER VISION, AND STORAGE MEDIUM	2022/08/16
2022/09268	OFF-ROAD DENITRATION CATALYST COATING MATERIAL AND ITS APPLICATION	2022/08/18
2022/09307	TECHNOLOGIES FOR TRANSMITTING OR RECEIVING AN AGGREGATE PHYSICAL LAYER PROTOCOL DATA UNIT	2016/04/28
2022/09365	DEWATERING-FREE COMPREHENSIVE RESOURCE UTILIZATION SYSTEM FOR EXCESS SLUDGE OF DOMESTIC SEWAGE TREATMENT PLANT	2022/08/22
2022/09366	SYSTEM AND METHOD FOR RECOVERING PROTEIN AND PHOSPHORUS FROM EXCESS SLUDGE OF SEWAGE TREATMENT PLANT	2022/08/22
2022/09367	INTELLIGENT DRIVING SIMULATION TEST SYSTEM BASED ON VIRTUAL REALITY TECHNOLOGY	2022/08/22
2022/09368	METHOD FOR ANALYZING SPATIAL-TEMPORAL MOBILITY CHARACTERISTICS OF HIGHWAY BASED ON LARGE-SCALE TOLL COLLECTION DATA	2022/08/22
2022/09373	SPEED CONTROL SYSTEM BASED ON WEAK MAGNETIC STRESS DETECTOR AND CONTROL METHOD THEREOF	2022/08/22
2022/09374	AUTOMATIC IDENTIFICATION AND DEFECT DETECTION DEVICE BASED ON MOBILENETV2	2022/08/22
2022/09375	WEAK MAGNETIC DETECTING SYSTEM AND METHOD FOR WELD DAMAGES	2022/08/22
2022/09376	MEDICAMENT HAVING ANTIPRURITIC EFFECTS AND PREPARATION METHOD THEREOF	2022/08/22
2022/09377	METHOD AND SYSTEM FOR FAST VISUAL DETECTION OF POWER-ON OF LED FILAMENT	2022/08/22
2022/09378	SIMPLE AND EASY-TO-USE PAINT MACHINE	2022/08/22
2022/09379	STRAWBERRY PLANT DISEASE AND INSECT PEST INTEGRATED PREVENTION AND CONTROL CULTIVATION DEVICE	2022/08/22
2022/09380	BREEDING METHOD OF HYBRID SIMMENTAL-HOLSTEIN-LOCAL DUAL-PURPOSE COW	2022/08/22
2022/09381	ZERO-DISCHARGE PROCESS FOR TREATING HIGH-SALT AND HIGH-ORGANIC WASTE WATER BASED ON WET CATALYTIC OXIDATION TECHNOLOGY	2022/08/22
2022/09382	METHOD FOR PREDICTING DIFFERENTIAL TRANSCRIPTIONAL EXPRESSION PROFILE AND DRUG INDICATIONS AFTER DRUG ACTION	2022/08/22
2022/09383	AUTOMATIC CLASSIFICATION METHOD, DEVICE AND ELECTRONIC DEVICE FOR GENE VARIATIONS	2022/08/22
2022/09384	UNILATERAL FORM ERECTING DEVICE AND CONSTRUCTION METHOD THEREOF	2022/08/22
2022/09386	A SYSTEM TO IDENTIFY A SNAKE AND A METHOD THEREOF	2022/08/22
2022/09420	PREPARATION METHOD OF ARTIFICIAL RED CLAY	2022/08/23
2022/09460	METHOD FOR INCREASING INFECTIOUS TITER OF NON-TARGET CELL MA-104 OF AFRICAN SWINE FEVER VIRUS	2022/08/24

Application Number	Patent Title	Filing Date
2022/09461	TERMINAL SYSTEM FOR ARTIFICIAL INTELLIGENCE-BASED DATA PROCESSING	2022/08/24
2022/09462	ANALYSIS DEVICE FOR ARTIFICIAL INTELLIGENCE-BASED DATA PROCESSING	2022/08/24
2022/09463	ZYNQ-BASED INTELLIGENT MANAGEMENT AND MONITORING SYSTEM FOR PRODUCTION WORKSHOPS	2022/08/24
2022/09464	TRANSPORT ROBOT	2022/08/24
2022/09465	INTELLIGENT BOXED DRUG STORAGE AND SORTING DEVICE	2022/08/24
2022/09466	A GENE PANEL, KITS AND APPLICATIONS FOR DETECTING MULTIPLE TUMORS	2022/08/24
2022/09467	EFFICIENT TEMPORARY WHARF COMBINING GABION NETS AND UNDERWATER SELF-PROTECTING CONCRETE	2022/08/24
2022/09468	SIMULATION DEVICE AND MEASUREMENT METHOD FOR LOCAL SCOUR DEPTH OF PIER WITH COMPLEX STRUCTURE	2022/08/24
2022/09469	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING HEPATITIS B	2022/08/24
2022/09470	ADSORBENT, PREPARATION METHOD AND APPLICATION THEREOF, AND METHOD FOR REMOVING THALLIUM IN WASTEWATER	2022/08/24
2022/09471	LIGNIN NANOCELLULOSE MODIFIED CEMENTITIOUS FILLING MATERIAL FOR FILLING DEEP STRUCTURES AND PREPARATION METHOD THEREOF	2022/08/24
2022/09473	USE OF FCGAMMARIII INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING PULMONARY FIBROSIS	2022/08/24
2022/09597	ENCODING AND DECODING METHOD AND DEVICE, ENCODER SIDE APPARATUS AND DECODER SIDE APPARATUS	2022/08/29
2022/09630	IONIC SILICA GEL ANTIFOULING COATING AND PREPARATION METHOD THEREOF	2022/08/29
2022/09631	WATER-BASED EPOXY ANTI-CORROSION COATING AND PREPARATION METHOD THEREOF	2022/08/29
2022/09662	SELF-COMPACTING CONCRETE POURING DEVICE FOR CONCRETE FILLED STEEL TUBE COLUMN	2022/08/30
2022/09664	SYSTEM AND METHOD FOR PERFORMANCE ASSESSMENT OF ENTITIES	2022/08/30
2022/09676	METHOD FOR RAPIDLY EVALUATING EXUDATION RATE OF ANTIFOULING AGENT IN ANTIFOULING COATING	2022/08/30
2022/09788	AN AGRICULTURAL ADJUVANT	2022/09/01
2022/09809	METHOD FOR ENVIRONMENTALLY-FRIENDLY TREATMENT OF RIVER SEDIMENT BY MAGNESIUM-BASED CEMENTING MATERIAL BASED ON INDUSTRIAL WASTE RESIDUE	2022/09/02
2022/09810	SEEDING DEVICE FOR PLANTING ECOLOGICAL VEGETABLES	2022/09/02

Application Number	Patent Title	Filing Date
2022/09811	COMPUTER MULTIMEDIA TEACHING SYSTEM FOR ONLINE EDUCATION	2022/09/02
2022/09812	A CONSTRUCTION METHOD FOR IMPROVING ANTI-OVERTURNING BEARING CAPACITY OF CONCRETE CURVED BEAM BRIDGE	2022/09/02
2022/09813	PAPER-BASED MICROFLUIDIC CHIP FOR QPCR AND MANUFACTURING METHOD THEREOF	2022/09/02
2022/09814	FFC-OSA: AN INTEGRATION OF CONVOLUTIONAL BLOCK ATTENTION MODULE AND TRANSFORMERS FOR OBSTRUCTIVE SLEEP APNEA DETECTION USING SINGLE-CHANNEL EEG	2022/09/02
2022/09821	ABC DRY POWDER FIRE EXTINGUISHANT AND PREPARATION METHOD THEREFOR	2022/09/02
2022/09837	KAPOK PASSIVE HOUSE	2022/09/02
2022/09859	PREPARATION METHOD OF Y2O3-MGO INFRARED TRANSPARENT CERAMIC MATERIAL	2022/09/05
2022/09865	TURN-BACK RUNNING TEST SYSTEM AND TESTING METHOD	2022/09/05
2022/09866	MEASUREMENT TECHNOLOGY OF GROUNDWATER RECHARGE IN ARID AREA COMBINING VARIOUS TECHNOLOGIES	2022/09/05
2022/09872	DROPLET DIGITAL PCR FLUORESCENCE ACQUISITION SYSTEM BASED ON MECHANICAL MOTION	2022/09/05
2022/09909	ASPHALT FLOATABILITY TEST DEVICE AND TEST METHOD THEREOF	2022/09/06
2022/09910	SUPPLEMENTARY FEEDING FENCE DEVICE FOR POSTPARTUM COW	2022/09/06
2022/09911	DYNAMIC MONITORING AND EARLY WARNING SYSTEM FOR DRINKING WATER SOURCES AREA	2022/09/06
2022/09912	LITHOLOGY ANALYSIS METHOD FOR MINERAL WATER-BEARING ROCK GROUP	2022/09/06
2022/09913	DIRECT SEEDING CULTIVATION METHOD OF MORCHELLA ESCULENTA LIQUID STRAIN	2022/09/06
2022/09915	METHOD FOR FEEDING COCCINELLA SEPTEMPUNCTATA L ADULTS WITH KINOPRENE ARTIFICIAL FEED	2022/09/06
2022/09916	PREPARATION METHOD OF GIANT SALAMANDER WINE	2022/09/06
2022/09917	SPECIAL BASE FERTILIZER, SPECIAL FRUIT-STRENGTHENING FERTILIZER AND FERTILIZATION METHODS FOR JINGGANG HONEY POMELO	2022/09/06
2022/09918	A METHOD FOR ANALYSIS LEADERSHIP APPROACH	2022/09/06
2022/09921	A SYSTEM FOR DETERMINING GROWTH OF MID PHALANX [MP3] STAGING IN A PATIENT AND A METHOD THEREOF	2022/09/06
2022/09923	EXTERNAL PRESTRESS STRENGTHENING SYSTEM OF PRESTRESSED CONCRETE CYLINDER PIPE AND CONSTRUCTION METHOD THEREOF	2022/09/06

Application Number	Patent Title	Filing Date
2022/09956	RAPID COLLECTION DEVICE FOR SMALL-SIZED MARINE LITTER AND MICROPLASTIC SAMPLES FROM COASTAL TIDAL FLAT	2022/09/07
2022/09997	STORAGE METHOD AND STORAGE AGENT OF 'SHINE MUSCAT' GRAPES	2022/09/08
2022/10005	AN ANTI-SLIP MEMORY ALLOY POWER LINE PIPE JOINT	2022/09/08
2022/10042	AUTOMATIC IRRIGATION MANAGEMENT DECISION CONTROL SYSTEM FOR DRIP IRRIGATION OF PERENNIAL FORAGE GRASSES	2022/09/09
2022/10043	MULTI-WAVEFORM COMMUNICATION SYSTEM	2022/09/09
2022/10044	FEEDBACK PRINCIPLE BASED TROLLEY FOR SURVEYING GROUND INFORMATION	2022/09/09
2022/10045	MACHINE TRANSLATION METHOD AND SYSTEM OF SWAHILI PLACE NAME	2022/09/09
2022/10046	MACHINE TRANSLATION METHOD AND SYSTEM OF HAUSA PLACE NAME	2022/09/09
2022/10047	INTELLIGENT ROAD VIDEO SHARING TERMINAL, CONTROL METHOD AND APPLICATION THEREOF	2022/09/09
2022/10048	MODIFIED ARTIFICIAL FEED FOR COCCINELLA SEPTEMPUNCTATA L	2022/09/09
2022/10049	MULTI-FUNCTIONAL INTELLIGENT AUTOMATIC FIRE EXTINGUISHING SYSTEM	2022/09/09
2022/10050	FEED FORMULATION FOR IMPROVING HONEYBEE IMMUNITY	2022/09/09
2022/10051	PORTABLE POST-HEALING REHABILITATION AID FOR LOWER EXTREMITY FRACTURE	2022/09/09
2022/10052	A SHAPING DEVICE FOR COPPER WIRE JOINTS OF AUTOMOBILE WIRING HARNESSES	2022/09/09
2022/10053	A PROCESSING DEVICE AND A PROCESSING METHOD OF A CCS CELL CONNECTION ASSEMBLY	2022/09/09
2022/10054	A PROCESSING DEVICE FOR A NEW ENERGY BATTERY PACK WIRE HARNESS ASSEMBLY	2022/09/09
2022/10055	METHOD FOR BREEDING SORGHUM VARIETIES THROUGH MUTATION BREEDING	2022/09/09
2022/10056	PROFILE FIXED-LENGTH CUTTING MACHINE	2022/09/09
2022/10057	MACHINE-MADE SAND GEOPOLYMER MORTAR AND PREPARATION METHOD THEREOF	2022/09/09
2022/10058	MUTATION BREEDING METHOD OF DISEASE-RESISTANT SORGHUM	2022/09/09
2022/10059	SUPERHEATED STEAM DRYING DEVICE BASED ON NEW ENERGY	2022/09/09
2022/10061	SELF-BALANCING ROCK-CRUSHING DRILLING SYSTEM COUPLING ROTATION AND VIBRATION WITHOUT DRILL RIG	2022/09/09
2022/10062	SUPER HIGH WORKING LAYER GRADUALLY EXPOSED NOZZLE IMPREGNATED DIAMOND DRILL BIT AND PREPARATION METHOD	2022/09/09
2022/10066	A SMART HRV MONITORING SYSTEM FOR RURAL AREAS USING CLOUD COMPUTING APPROACHES IN IOT	2022/09/09

Application Number	Patent Title	Filing Date
2022/10067	A SYSTEM FOR ELECTROGASTROGRAM IN DETECTION OF GASTRIC DISORDERS AND A METHOD THEREOF	2022/09/09
2022/10068	A FORMULATION FOR PREPARING MACRO-MOLECULAR COLLOIDS TO TREAT SKIN DISEASES AND A METHOD THEREOF	2022/09/09
2022/10132	SEPARATION AND CULTURING METHOD FOR SMALL YELLOW FOLLICLE GRANULE CELLS OF MEAT PIGEONS	2022/09/13
2022/10133	METHOD FOR DISTINGUISHING INFLUENCE RANGE OF MICA MINERALS IN YANGTZE RIVER AND YELLOW RIVER	2022/09/13
2022/10134	METHOD FOR DISTINGUISHING MICA SUBSTANCES IN YANGTZE RIVER AND YELLOW RIVER	2022/09/13
2022/10135	BLACK TEA AND PREPARATION METHOD THEREOF	2022/09/13
2022/10136	CONTROL DEVICE FOR REMOTELY ACCESSING AND MANAGING BATTERY	2022/09/13
2022/10137	SHELL-KERNEL SEPARATING DEVICE FOR AUTOMATIC WALNUT PROCESSING	2022/09/13
2022/10138	WING PLATE TYPE ANTI-REVERSE STRUCTURE WITH SIDE CUTTER GROOVE	2022/09/13
2022/10142	METHOD FOR IMPLEMENTING USER-MODE THREAD	2022/09/13
2022/10143	USE OF LINC01978 INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING COLORECTAL CANCER	2022/09/13
2022/10144	IMPROVED LEATHER DEFECT SEGMENTATION NETWORK ALGORITHM BASED ON SEGNET	2022/09/13
2022/10145	PHOTOSENSITIVE NANOMATERIAL, PREPARATION METHOD AND APPLICATION THEREOF	2022/09/13
2022/10146	WHOLE-STAINING AND CLEARING METHOD FOR FLYBLOW	2022/09/13
2022/10147	SOLID BEVERAGE OF SPARASSIS CRISPA	2022/09/13
2022/10149	A FLIGHT PATH PLANNING METHOD FOR MULTI-UAV COOPERATIVE WORK BASED ON IMPROVED ANT COLONY ALGORITHM IN MULTI-CONSTRAINED COMPLEX ENVIRONMENT	2022/09/13
2022/10151	A TRADITIONAL CHINESE MEDICINE PREPARATION FOR THE TREATMENT OF "POSTPARTUM COLD"	2022/09/13
2022/10152	A FEEDING EQUIPMENT AND BREEDING METHOD FOR PROMOTING TIBETAN PIG REPRODUCTION	2022/09/13
2022/10180	AUTOMATIC FIRE HOSE WINDING DEVICE	2022/09/14
2022/10181	IDENTIFICATION METHOD AND DEVICE FOR AUTOMATICALLY TRACKING AND POSITIONING FIRE SOURCE POINTS BASED ON MACHINE VISION	2022/09/14
2022/10182	AN IMAGE-BASED MEASUREMENT METHOD FOR CROSS-SECTION DIMENSIONS OF CONSTRUCTION STEEL PIPE	2022/09/14
2022/10183	DEVICE AND METHOD FOR NONDESTRUCTIVE AND SAFE DISCHARGE OF SPENT CYLINDRICAL POWER BATTERIES	2022/09/14

Application Number	Patent Title	Filing Date
2022/10184	TRANSPORT VEHICLE FOR LIBRARY	2022/09/14
2022/10185	DIRECT SEEDING DEVICE AND CULTIVATOR	2022/09/14
2022/10187	QUALITY-PRESERVING AND DRYING METHOD OF CYPERUS ESCULENTUS L.	2022/09/14
2022/10191	GRAPE SEED MEAL EXTRACT TARGETING QUORUM SENSING AND PREPARATION METHOD THEREOF	2022/09/14
2022/10192	YAK FEED WITH HIGH CONVERSION RATE AND PREPARATION METHOD	2022/09/14
2022/10193	A TIBETAN PIG BREEDING EQUIPMENT AND METHOD BASED ON CIRCULATION COOLING TECHNOLOGY	2022/09/14
2022/10195	ISOLATING SWITCH CONTROL CABINET FOR POWER TRANSFORMATION OPERATION	2022/09/14
2022/10196	AN ARTIFICIAL INTELLIGENCE ENABLED SECURE BLOCKCHAIN SYSTEM FOR HEALTHCARE APPLICATION	2022/09/14
2022/10221	DNA BARCODE FOR SCREENING TOTAL SOLUBLE AMINO ACID CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS	2022/09/14
2022/10222	DNA BARCODE FOR SCREENING FLOCCULARIA LUTEOVIRENS WITH HIGH ANTIOXIDANT ACTIVITY	2022/09/14
2022/10223	DNA BARCODE FOR RECOGNIZING ORIGINAL PLACE OF FLOCCULARIA LUTEOVIRENS	2022/09/14
2022/10225	DNA BARCODE FOR SCREENING TOTAL POLYPHENOL CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS	2022/09/14
2022/10226	DNA BARCODE FOR SCREENING TOTAL SOLUBLE PROTEIN CONTENT INDEX OF FLOCCULARIA LUTEOVIRENS	2022/09/14
2022/10243	GREENHOUSE ROOF LIFTING DEVICE BASED ON PARALLEL BEVEL GEARS DRIVING IN DIFFERENT DIRECTIONS	2022/09/15
2022/10330	GEOLOGICAL DISASTER SYSTEM BASED ON NATIONAL COMMERCIAL CRYPTOGRAPHIC ALGORITHMS	2022/09/19
2022/10331	METHOD FOR PREPARING SODIUM SILICATE FOR ALKALI MINERAL CEMENT	2022/09/19
2022/10332	VISUAL SYSTEM OF PORT CRANE SIMULATOR AND IMAGE PROCESSING METHOD AND SYSTEM THEREOF	2022/09/19
2022/10333	DEVICE FOR CLEANING PIG BREEDING EXCREMENT	2022/09/19
2022/10334	SOMATOSENSORY SIMULATION METHOD AND DEVICE OF CRANE SIMULATOR	2022/09/19
2022/10335	METHOD AND SYSTEM FOR REMOTE COLLECTION OF LARGE AMOUNT OF DATA IN UNSTABLE NETWORK	2022/09/19
2022/10336	SPLAYED PIPE BENDING AUTOMATIC FORMING MACHINE	2022/09/19
2022/10337	SHIP IMAGING TRAJECTORY EXTRACTION UNDER DISCONTINUOUS VISUAL INTERFERENCES	2022/09/19

Application Number	Patent Title	Filing Date
2022/10338	A GENE DATA SHARING METHOD AND A DEVICE FOR PROTECTING PRIVACY AND SECURITY	2022/09/19
2022/10340	CANCER DATA MANAGEMENT PLATFORM BASED ON BLOCKCHAIN TECHNOLOGY	2022/09/19
2022/10341	SOIL OXYGEN-BAR FERTILIZER CAPABLE OF ALLEVIATING SOIL COMPACTION AND ENHANCING VENTILATION IN SOIL	2022/09/19
2022/10342	BUTT JOINT DEVICE FOR WELDING CONSTRUCTION STEEL PIPES	2022/09/19
2022/10343	A METHOD FOR PREPARING SECHIUM EDULE EXTRACT FOR REVERSING NEUROTOXICITY OF LEAD	2022/09/19
2022/10344	APPARATUS FOR GRINDING WELD JOINT OF ANNULAR STEEL TUBE POLE FOR OVERHEAD LINES	2022/09/19
2022/10345	EXTRACTION METHOD OF SNAIL ALBUMIN PEPTIDE	2022/09/19
2022/10348	PRESTRESSED TENDON ANNULAR ANCHORING DEVICE	2022/09/19
2022/10350	BENCHMARK METHOD FOR PROTEIN CONTENT MEASUREMENT BASED ON FLUORESCENTLY LABELED FLOW SINGLE MOLECULE COUNTING	2022/09/19
2022/10351	DYNAMIC CHARACTERISTIC ANALYSIS METHOD OF DET AND RELAP5 COUPLING BASED ON UNIVERSAL INSTRUMENTAL VARIABLE METHOD	2022/09/19
2022/10357	ELECTROMAGNETIC SHAPE RIGHTING DEVICE AND SHAPE RIGHTING METHOD	2022/09/19
2022/10381	RIGID-FLEXIBLE COUPLING TYPE HIGH-STRENGTH DOUBLE TOOTHED ROLLER CRUSHER FOR CRUSHING LIMESTONE	2022/09/20
2022/10382	MECHANIZED CONSTRUCTION PROCESS FOR ARTIFICIAL CYANOBACTERIA CRUST CULTURE	2022/09/20
2022/10383	A METHOD FOR PROMOTING PLANTS TO EXTRACT CD FROM RED SOIL AROUND MINING AREAS	2022/09/20
2022/10384	METHOD FOR CULTURING ASIAN SWAMP EEL, CRAYFISH, AND CHINESE SOFT-SHELLED TURTLES IN SAME POND BY UTILIZING S-SHAPED DITCH	2022/09/20
2022/10385	CLEANING AGENT FOR REMOVING PESTICIDE RESIDUES AND PREPARATION METHOD THEREOF	2022/09/20
2022/10386	LICK BLOCK PREPARED FROM PLANT SALT	2022/09/20
2022/10438	ANTI-LEAKAGE DRAINAGE TUBE	2022/09/21
2022/10439	INFRARED GAS SENSOR WITH GAS CHAMBER PACKAGED INTEGRALLY	2022/09/21
2022/10440	A DISTRIBUTED COLLECTION DEVICE FOR FOREST CARBON SINK DETECTION AND ITS APPLICATION METHOD	2022/09/21
2022/10441	HIGH-STRENGTH PHOSPHOGYPSUM-BASED RECYCLED AGGREGATE AND PREPARATION METHOD THEREOF	2022/09/21
2022/10442	A DIETARY THERAPY PACKET SOUP FOR SPLEEN-FORTIFYING AND STOMACH-NOURISHING	2022/09/21

Application Number	Patent Title	Filing Date
2022/10443	AI DISCRIMINATION AND CLASSIFICATION DEVICE FOR CEPHALOPOD BEAKS	2022/09/21
2022/10446	AN ECOLOGICAL CANAL AND POND PURIFICATION SYSTEM AND PURIFICATION METHOD BASED ON HEAVY METALS IN FIELD BACKWATER	2022/09/21
2022/10447	FIXED AUXILIARY INSPECTION EQUIPMENT FOR IMAGE INSPECTION	2022/09/21
2022/10448	MANUFACTURING METHOD OF HIGH-SPEED STEEL WORK ROLL FOR FINISHING HOT-ROLLED STRIP	2022/09/21
2022/10449	SILKWORM BREEDING METHOD	2022/09/21
2022/10450	FORMULATION FOR CONTROL OF SHOTCRETE REBOUND	2022/09/21
2022/10451	A PROCESS FOR CURING FRESH TOBACCO LEAVES WITH LIQUID FUEL	2022/09/21
2022/10452	FULL-AUTOMATIC METHOD AND DEVICE FOR ENVIRONMENTAL STRESS CRACKING RESISTANCE TEST OF POLYETHYLENE	2022/09/21
2022/10454	A MEDICATION FOR TREATING HEART FAILURE AND A PREPARATION METHOD THEREOF	2022/09/21
2022/10455	A MEDICATION FOR TREATING GYNECOLOGICAL AND ANDROLOGICAL DISEASES	2022/09/21
2022/10456	MECHANICAL PART DETECTION WORKING DEVICE	2022/09/21
2022/10457	TRANSFORMER VIBRATION DETECTION DEVICE	2022/09/21
2022/10459	A WASTEWATER TREATMENT SYSTEM USING COMBINATION OF DIFFERENT GRADED SOILS	2022/09/21
2022/10460	A DEVICE AND A METHOD FOR ANALYZING ADHATODA VASICA FOR REDUCING DENGUE COMPLICATIONS	2022/09/21
2022/10462	AN IN-MOLD ONE-STEP FOAMING MOLDING PROCESS AND THE FOAMED PRODUCTS	2022/09/21
2022/10479	RAPID IMAGE CALIBRATION AND REAL-TIME RENDERING METHOD AND SYSTEM, MEDIUM, AND MOBILE END	2022/09/21
2022/10568	HIGH-RELIABILITY ELECTRONIC DETONATOR AND DIGITAL BLASTING ASSEMBLY THEREOF	2022/09/23
2022/10581	RECOMBINANT DIAPHORINA CITRI CHITINASE-LIKE PROTEIN EN03, AND CODING GENE AND APPLICATION THEREOF	2022/09/23
2022/10605	EPALRESTAT MICRO-TABLET AND PREPARATION METHOD THEREOF	2022/09/26
2022/10607	FOOD GRAIN MONITORING AND SHELF-LIFE PREDICTION SYSTEM FOR THE FARMER BASED ON IOT	2022/09/26
2022/10608	BRAINWAVE BASED HOME AUTOMATION SYSTEM WITH INTEGRATED ARTIFICIAL INTELLIGENCE	2022/09/26
2022/10609	SMART SCANNER FOR FOOD ADDITIVES	2022/09/26
2022/10610	SYSTEM FOR DISTRIBUTED ACCOUNTABILITY FOR DATA SHARING IN THE CLOUD	2022/09/26
2022/10666	SYSTEM TO EXTRACT MEDICINE NAME FROM MEDICINE STRIP	2022/09/27
2022/10667	A SMART COMPUTER SOFTWARE SYSTEM TO IDENTIFY THE TELEVISION PANELS	2022/09/27

Application Number	Patent Title	Filing Date
2022/10669	A RECONFIGURABLE MULTIVALUED LOGIC BASED CONVOLUTIONAL ENCODER	2022/09/27
2022/10716	METHOD FOR IMPROVING QUALITY OF CITRUS FRUITS BY MOISTURE-PENETRABLE PLASTIC FILM MULCHING TO CONTROL WATER AND APPLICATION	2022/09/28
2022/10753	AN INTELLIGENT PROCESSING DEVICE FOR FINANCIAL DATA	2022/09/29
2022/10754	HIGH-POWER BLUE LASER CLADDING HEAD DEVICE FOR INNER HOLE	2022/09/29
2022/10755	PREPARATION AND APPLICATION METHOD OF TRADITIONAL CHINESE MEDICINE PHYSIOTHERAPY EXTERNAL APPLICATION BAG FOR RHEUMATOID ARTHRITIS	2022/09/29
2022/10757	BACKFLOW CHEMICAL-ADDING DEVICE AND WASTEWATER-TREATMENT REACTION TANK	2022/09/29
2022/10758	FLUORESCENCE IMMUNOCHROMATOGRAPHY ASSAY (FICA) REAGENT FOR CORONAVIRUS DISEASE 2019 (COVID-19) ANTIBODY DETECTION	2022/09/29
2022/10759	THE USAGE OF SILDENAFIL IN THE PREPARATION OF THE DRUG FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION	2022/09/29
2022/10760	METHOD FOR PREDICTING AIR NEGATIVE OXYGEN AND EVALUATING FOREST HEALTHCARE POTENTIAL BASED ON METEOROLOGICAL DATA	2022/09/29
2022/10761	A PORT AUTOMATIC LOADING AND UNLOADING PROCESS	2022/09/29
2022/10762	A HIGH-TEMPERATURE SOLVENT RESISTANCE TESTING DEVICE	2022/09/29
2022/10763	AN AUTOMATIC CYCLE MEDIUM-SIZED HYDROELECTRIC GENERATING SET	2022/09/29
2022/10771	BICYCLE ATTACHMENT FOR ASSISTING STUDENTS IN CARRYING HEAVY SCHOOL BAGS WHILE CYCLING	2022/09/29
2022/10772	THERMO-MECHANICAL LOAD SIMULATOR FOR ROOT CANAL OBTURATION	2022/09/29
2022/10807	DIQUAFOSOL SODIUM EYE DROPS AND PREPARATION METHOD THEREOF	2022/09/30
2022/10808	A METHOD FOR PREPARING SILICA AEROGEL MODIFIED POLYURETHANE THERMAL INSULATION MATERIAL	2022/09/30
2022/10809	MULTI-LAYER HETEROGENEOUS BRAIN-INSPIRED INTELLIGENCE SYSTEM BASED ON DIGITAL NEUROMORPHIC COMPUTING TECHNIQUE	2022/09/30
2022/10810	DUAL-ROTATION BRAKE PERFORMANCE TESTER INSPECTION BENCH	2022/09/30
2022/10811	DYNAMIC AUTOMATIC DYNAMIC BALANCE BRAKE INSTRUMENT INSPECTION BENCH	2022/09/30
2022/10812	ROBOT WELDING DEVICE FOR WELDING AUTOMOBILE PARTS	2022/09/30
2022/10815	METHOD FOR GENE KNOCKOUT BREEDING OF ZEBRAFISH WITH DELETION OF ADGRG1 GENE	2022/09/30

Application Number	Patent Title	Filing Date
2022/10816	METHOD FOR REGULATING AND CONTROLLING PH VALUE OF AEROBIC COMPOST BY USING FERROUS SULFATE MODIFIED BIOCHAR AND APPLICATION THEREOF	2022/09/30
2022/10825	INTELLIGENT COAL MINE UNDERGROUND CARBON EMISSION COMPREHENSIVE EVALUATION AND FREQUENCY CONVERSION CARBON REDUCTION METHOD	2022/09/30
2022/10826	INTELLIGENT JOINT CONTROL COAL MINE LOW-CARBON OPERATION CONTROL METHOD	2022/09/30
2022/10827	SYNTHESIS IDENTIFICATION METHOD OF RESISTANCE TO RICE BLAST IN ORYZA RUFIPOGON GRIFF. INDIGENOUS TO HAINAN PROVINCE	2022/09/30
2022/10829	TISSUE CLAMPING DEVICES	2022/09/30
2022/10850	WIDE-RANGE HIGH-TOUGHNESS NANO-CONDUCTIVE RUBBER SENSOR, AND PREPARATION AND PACKAGING METHODS THEREFOR	2022/09/30
2022/10868	A TERNARY BASED SYSTEM FOR CODE RATE 1/2 AND 1/3 CONVOLUTIONAL ENCODER	2022/10/03
2022/10870	A FUEL INDICATING AND TRACKING SYSTEM AND A METHOD THEREOF	2022/10/03
2022/10884	POLYHYDROXY AROMATIC INTERMEDIATE, PREPARATION THEREOF AND USE THEREOF IN POLYCONDENSATE WATER-REDUCER WITH BRANCHED SIDE CHAINS	2022/10/03
2022/10900	BUBBLING FLUIDIZED BED GASIFIER FOR HYDROGEN RICH SYNGAS FROM AGRO-WASTE	2022/10/04
2022/11020	MULTI-STAGE PHOTORESPONSIVE FLUORESCENT LIQUID CRYSTAL UNIT, POLYMER AND PREPARATION METHOD THEREOF	2022/10/10
2022/11021	ROTATABLE SAMPLE STAGE FOR MATCHING VERTICAL GONIOMETERS IN X-RAY DIFFRACTION ANALYSIS	2022/10/10
2022/11022	ULTRASONIC ANTI-POLLUTION DETACHABLE ULTRAFILTRATION MEMBRANE SYSTEM	2022/10/10
2022/11023	METHOD FOR ESTABLISHING FUNGAL PROTEOLYSIS PEPTIDE MASS FINGERPRINTS	2022/10/10
2022/11024	GINKGO BILOBA L. BIOLOGICAL ORGANIC SELENIUM VINEGAR AND PRODUCTION METHOD THEREOF	2022/10/10
2022/11025	SYSTEM AND METHOD FOR RAPID ASSEMBLY OF OFF-AXIS PARABOLIC MIRROR GROUP	2022/10/10
2022/11026	FUNCTIONALIZED TIN IMIDAZOLIUM CATALYST, AND PREPARATION METHOD AND APPLICATION THEREOF IN SYNTHESIS OF PES	2022/10/10
2022/11027	CITRUS SEEDLING SUBSTRATE AND PREPARATION METHOD THEREOF	2022/10/10
2022/11028	CONCRETE PAVEMENT CRACK INDUCTION METHOD AND CONCRETE PAVEMENT STRUCTURE	2022/10/10

Application Number	Patent Title	Filing Date
2022/11029	METHOD AND SYSTEM FOR SITE SELECTION AND ALLOCATION OF MICRO FOREST FIRE STATION INTEGRATING MULTIPLE DATA SOURCES AND DEMAND DEGREE	2022/10/10
2022/11030	SPRAY BAR SELF-BALANCING SPRAYER	2022/10/10
2022/11031	SURVEY SYSTEM FOR INTELLIGENTLY IDENTIFYING EXOTIC PLANTS BASE ON BIG DATA	2022/10/10
2022/11032	RAPID IDENTIFICATION METHOD OF GERMPLASM MATERIALS WITH RESISTANCE OR TOLERANCE TO CITRUS HUANGLONGBING	2022/10/10
2022/11033	ATTRIBUTE-BASED BLOCKCHAIN DATA ACCESS CONTROL SCHEME IN CLOUD ENVIRONMENT	2022/10/10
2022/11034	COMPREHENSIVE UTILIZATION METHOD OF ANSHAN-TYPE IRON TAILINGS	2022/10/10
2022/11035	CLASSICAL DOCUMENT IMAGE DISPLAY EQUIPMENT FOR DISTANCE EDUCATION	2022/10/10
2022/11036	DOUBLE-ACTING ARC EXTINGUISH CHAMBER STRUCTURE OF 252KV GIS (GAS INSULATED SWITCHGEAR) CIRCUIT BREAKER	2022/10/10
2022/11037	A TRANSPLANTING METHOD OF ADULT YUNNAN PINES	2022/10/10
2022/11038	METHOD AND SYSTEM FOR PURIFYING EXHAUST OF DIESEL VEHICLE EMISSION INSPECTION INSTITUTION	2022/10/10
2022/11039	FILM COATING DEVICE WITH FILM SPREADING PLATFORM	2022/10/10
2022/11041	A NEAR INFRARED EMISSION IN BIYMOO6	2022/10/10
2022/11042	A SYSTEM FOR QUESTION GENERATION FROM IMAGES USING DEEP LEARNING TECHNIQUES	2022/10/10
2022/11043	A SYSTEM FOR ACADEMIC EMOTIONS USING CNN-RNN FOR CLASSIFICATION AND CNN-LSTM FOR RECOGNITION	2022/10/10
2022/11044	A FACE MASK SAFETY DETECTION SYSTEM TO PREVENT THE SPREAD OF COVID-19 USING YOLOV3	2022/10/10
2022/11045	A SYSTEM FOR DRIVER BEHAVIOUR AND USAGE BASED INSURANCE	2022/10/10
2022/11046	FORMING PROCESS AND DEVICE OF THREE-WAY PIPE FOR PIPELINE ENGINEERING	2022/10/10
2022/11047	SEGMENTED ROAST SAUSAGE SMOKING OVEN THAT PROMOTES COLOR DEVELOPMENT, WRINKLING, FLAVOR ENHANCEMENT AND WOOD SAVING	2022/10/10
2022/11048	SECTIONAL TYPE ULTRASONIC CIRCULATION SAUSAGE SMOKING OVEN WITH EFFECTS OF SAVING WOOD AND IMPROVING SMOKING EFFECT	2022/10/10
2022/11049	FIVE-AXIS STATIC STIFFNESS TESTING DEVICE	2022/10/10
2022/11050	AN INTELLIGENT SAFETY PRODUCTION CONTROL SYSTEM	2022/10/10
2022/11051	A TRIDENTATE NITROGEN PHOSPHINE LIGAND CONTAINING AROMATIC AMINE NH, ITS PREPARATION METHOD AND APPLICATION	2022/10/10

Application Number	Patent Title	Filing Date
2022/11053	HIGH-YIELD AND HIGH-EFFICIENCY CULTIVATION METHOD OF SUGAR BEET	2022/10/10
2022/11054	INSTALLATION STRUCTURE FOR DRAIN PIPE OF BUILDING	2022/10/10
2022/11056	BAGGING-BASED METHOD FOR PREDICTING STUDENTS' PERFORMANCE	2022/10/10
2022/11058	A FINANCIAL HIGH SECURITY INTELLIGENT IDENTIFICATION DEVICE	2022/10/10
2022/11059	A METHOD FOR RECOVERY OF SILICATE COPPER OXIDE BY CONJUGATE ACTIVATION FLOTATION	2022/10/10
2022/11061	DISTRIBUTED VENTILATION SYSTEM AND CONTROL METHOD FOR WARD	2022/10/10
2022/11062	LOW GI, HIGH ACTIVITY MULTIGRAIN COMPOSITE INSTANTLY SOLUBLE NUTRITIONAL POWDER AND PROCESSING METHOD THEREFOR	2022/10/10
2022/11089	MULTIPLE SEWAGE PURIFICATION APPARATUS BASED ON WIND-SOLAR-WATER COMPLEMENTARY ENERGY STORAGE	2022/10/10
2022/11090	MANAGEMENT OPERATION METHOD OF OAK CLOSE-TO-NATURE FOREST	2022/10/10
2022/11091	INSPECTION PIT OF METRO VEHICLE DEPOT	2022/10/10
2022/11096	HIGH-STRENGTH ENERGY-ABSORBING SHOCK ABSORBER	2022/10/11
2022/11097	PREFABRICATED BUILDING FOLDABLE INTEGRAL THROWING NET AND INSTALLATION METHOD THEREOF	2022/10/11
2022/11098	LOW LIQUID LEVEL ALARMING DEVICE FOR LABORATORY	2022/10/11
2022/11099	TERNARY HYBRID SEED PRODUCING METHOD FOR ORNAMENTAL SUNFLOWERS	2022/10/11
2022/11100	DEMONSTRATION MECHANISM AND DEMONSTRATION METHOD FOR SOLVING ARC ENVELOPE	2022/10/11
2022/11101	RECOMMENDATION METHOD BASED ON DUAL LIGHT GRAPH CONVOLUTIONAL COLLABORATIVE FILTERING	2022/10/11
2022/11102	A PREPARATION METHOD OF A PALBOCICLIB INTERMEDIATE	2022/10/11
2022/11103	NOVEL INTERLOCKING EQUIPMENT FOR COMBINED ELECTRICAL EQUIPMENT BASED ON PLC (PROGRAMMABLE LOGIC CONTROLLER) TECHNOLOGY	2022/10/11
2022/11104	LIQUID AMMONIA CONVEYING PIPE RACK	2022/10/11
2022/11105	INTELLIGENT MANAGEMENT SYSTEM FOR ELECTRICITY POWER SETTLEMENT OF ELECTRIC ENERGY POWER STATION USING BLOCKCHAIN & MACHINE LEARNING	2022/10/11
2022/11106	AN IMPROVED FLAPPING WING MICRO AERIAL VEHICLE SYSTEM	2022/10/11
2022/11107	A WEARABLE SYSTEM FOR GROUP MANAGEMENT	2022/10/11
2022/11108	AN ABSTRACTIVE TEXT SUMMARY GENERATOR SYSTEM USING GLOVE LSTM	2022/10/11

Application Number	Patent Title	Filing Date
2022/11117	SUGAR NUTRITION EASY-TO-FEED CONSTANT-TEMPERATURE BREEDING BIN FOR LARGE-SCALE BREEDING OF TELENOMUS REMUS	2022/10/11
2022/11141	LOWER CYLINDER, NEEDLE CYLINDER AND CIRCULAR WEFT KNITTING MACHINE	2022/10/11
2022/11142	UPPER DISC, NEEDLE CYLINDER AND CIRCULAR WEFT KNITTING MACHINE	2022/10/11
2022/11201	A SYSTEM FOR OPTIMIZING INTERNAL ACADEMIC PROCESSES	2022/10/13
2022/11202	METHOD OF SYNTHESIS AND BIOMEDICINAL APPLICATIONS OF NOVEL HETEROCYCLIC BISMUTHINE	2022/10/13
2022/11220	GERMINATED QUINOA BISCUIT WITH HIGH DIETARY FIBER AND PREPARATION METHOD THEREOF	2022/10/13
2022/11294	METHOD TO OBTAIN CONTRIBUTION SHARE OF CARBON DIOXIDE EMITTED BY SOIL RESPIRATION	2022/10/14
2022/11295	CARBON ISOTOPE LABEL AND PREPARATION METHOD AND APPLICATION THEREOF	2022/10/14
2022/11350	DECISION MAKING AND LIFE SATISFACTION: THE ROLE OF SPIRITUAL AND EMOTIONAL COMPETENCE	2022/10/17
2022/11373	DOUBLE-ACTING SERVO ACTUATOR DRIVEN BY PNEUMATIC ARTIFICIAL MUSCLE	2022/10/18
2022/11374	CONSTRUCTION METHOD FOR TRICHODERMA-OILSEED RAPE COMBINED ADSORPTION OF HEAVY METALS CADMIUM AND ZINC FROM FARMLAND SOIL	2022/10/18
2022/11375	AUTOMATIC CONSTRUCTION METHOD FOR UNDERWATER 3D WIRELESS SENSOR NETWORK	2022/10/18
2022/11376	ANTI-BUBBLE PULSATION IMPACT DEVICE FOR MAIN SHAFT OF WARSHIP	2022/10/18
2022/11377	INTERACTIVE MULTIMEDIA TEACHING SYSTEM	2022/10/18
2022/11378	SUPPORTS AND HANGERS FOR RESISTING IMPACTS FROM THREE DIRECTIONS	2022/10/18
2022/11379	TEST DEVICE AND TEST METHOD FOR RESPONSE OF SPECTRUM DROP EFFECT TO STRESS UNDER IMPACT ENVIRONMENT	2022/10/18
2022/11380	A QUANTITATIVE ASSESSMENT METHOD AND SYSTEM OF WATER RETENTION FUNCTION BASED ON INTEGRATED HYDROLOGICAL AND ECOLOGICAL COMPONENTS	2022/10/18
2022/11382	MONITORING DEVICE FOR STRATIFUGIC WATER AND WATER CONDUCTION FRACTURE ZONE UNDER KARST GEOLOGICAL CONDITIONS	2022/10/18
2022/11383	MAINTAINABILITY ANALYSIS METHOD BASED ON VIRTUAL MAINTENANCE ORIGINAL DATA SUPPORT	2022/10/18
2022/11424	SEGMENTATION AND QUANTITATIVE ANALYSIS METHOD FOR ANTHOCYANIN COLOR DEVELOPING REGION OF RICE LEAF	2022/10/19

Application Number	Patent Title	Filing Date
2022/11425	WHEAT SEEDLING-STRENGTHENING AGENT COMPOSITION AND APPLICATION METHOD THEREOF	2022/10/19
2022/11426	SPECIAL EFFICIENT SLOW-RELEASE FERTILIZER FOR WHEAT	2022/10/19
2022/11427	CONSTRUCTION AND SUPPRESSION STRATEGY OF SUB-SYNCHRONOUS OSCILLATION MONITORING NETWORK FOR GRID-CONNECTED WIND FARM INSTRUCTIONS	2022/10/19
2022/11428	A METHOD FOR RAPIDLY SCREENING MONOCLONAL ANTIBODY AND ITS APPLICATION	2022/10/19
2022/11429	MONITORING METHOD FOR DISPLACEMENT AND TORSIONAL ANGLE OF CENTRAL SHAFT OF LARGE INDUSTRIAL PIPELINE	2022/10/19
2022/11430	DISPLAY DEVICE FOR COMBINED TEACHING	2022/10/19
2022/11431	AN INTELLIGENT GARBAGE CAN DEVICE	2022/10/19
2022/11435	SNP MARKERS AFFECTING GROWTH TRAITS OF MACROBRUCHIUM ROSENBERGII AND APPLICATION THEREOF	2022/10/19
2022/11436	LABOR-SAVING METHOD FOR SHAPING AND PRUNING OF SWEET CHERRY TREE	2022/10/19
2022/11437	BACILLUS SIAMENSIS AND APPLICATION THEREOF	2022/10/19
2022/11439	PHYSICAL EXPERIMENT BOX BODY FOR MULTI-BRANCH HORIZONTAL WELL GAS EXTRACTION	2022/10/19
2022/11441	A DATA EXCHANGE DEVICE FOR COMPUTER COMMUNICATION	2022/10/19
2022/11442	DETACHABLE PIPELINE INTERFACE PROTECTION DEVICE AND INSTALLATION METHOD IN UNDERGROUND COAL MINE	2022/10/19
2022/11443	A COUPLING TECHNIQUE BASED SYSTEM FOR STUDYING THE POLLUTANTS EMITTED FROM VEHICLES	2022/10/19
2022/11444	A FORMULATION FOR PREPARING MICROALGAE BIODIESEL AND A METHOD THEREOF	2022/10/19
2022/11445	A SYSTEM AND A METHOD FOR CLASSIFYING GENDER AND EMOTION BY HIERARCHICAL MODELLING	2022/10/19
2022/11491	CONTROL POINT CALIBRATION METHOD FOR MOBILE 3D IMAGING SYSTEM	2022/10/20
2022/11494	AN IOT-BASED CLINICAL DIAGNOSTIC KIT FOR THE DETECTION OF LIFE-THREATENING DISEASES	2022/10/20
2022/11516	ONLINE DETECTION SYSTEM AND METHOD OF PRODUCT MEDIA IN COAL PREPARATION PLANT	2022/10/21
2022/11517	METHOD FOR REMOVING MICROPLASTICS FROM WATER BODY BY CONSTRUCTED WETLAND	2022/10/21
2022/11518	ASSEMBLED GREEN BELT STRUCTURE	2022/10/21
2022/11520	DETECTION AND EVALUATION METHOD ANALYSIS FOR STRENGTH OF SINTERED GRANULATED PELLET	2022/10/21
2022/11521	NEW TYPE OF TEACHING EQUIPMENT FOR SCIENCE AND TECHNOLOGY EDUCATION	2022/10/21

Application Number	Patent Title	Filing Date
2022/11522	TETRACHLORANTRANILIPROLE·AVERMECTIN MICROCAPSULE SUSPENDING AGENT AND PREPARATION METHOD THEREOF	2022/10/21
2022/11523	A MODIFIED INFANT FEEDING CUP APPARATUS	2022/10/21
2022/11524	BACILLUS PRATENSIS PS06 AND APPLICATION THEREOF	2022/10/21
2022/11541	DOWNWARD MOBILE GASIFICATION BOILER FOR SURFACE GAS PHASE COMBUSTION AND PYROLYSIS OF BIOMASS BRIQUETTE	2022/10/21
2022/11560	PLANET-CARRIER FOR A SHIELD-MACHINE REDUCER	2022/10/24
2022/11561	CONSTRUCTION METHOD FOR ESTABLISHING MUNICIPAL ROAD DRAINAGE SYSTEM	2022/10/24
2022/11562	IRRIGATING-SOWING METHOD OF CORN IN ARID AND SEMI-ARID CULTIVATED LAND AND MATCHING SEEDER	2022/10/24
2022/11563	METHOD FOR DETECTING WEIGHT OF POULTRY CARCASS AND GRADING SYSTEM DEVICE	2022/10/24
2022/11564	A DEVICE FOR SALVAGING AND COLLECTING FLOATING OBJECTS ON WATER SURFACE AND ITS USING METHOD	2022/10/24
2022/11565	PHOSPHORIC ACID SKELETON FUNCTIONALIZED FLUORESCENT CARBON DOT, PREPARATION METHOD AND APPLICATION THEREOF	2022/10/24
2022/11566	PREPARATION METHOD, PRODUCT AND APPLICATION OF PHOTOCATALYTIC SELF-CLEANING ARAMID FABRIC	2022/10/24
2022/11567	AN INTEGRATED DEMONSTRATION SYSTEM OF THE BALLAST TRIM WATER TANK FOR SHIPS	2022/10/24
2022/11568	AN AUTOMATIC REFUELING DEVICE FOR SHIPS	2022/10/24
2022/11569	BULK CARGO SURFACE PRESSURE MONITORING DEVICE CAPABLE OF ENSUING SHIP SAFETY	2022/10/24
2022/11570	AN AUTOMATIC TELESCOPIC MARINE ANTI-PIRACY GUARDRAIL INSTALLATION	2022/10/24
2022/11571	MODEL FOR PREDICTING POSTOPERATIVE RECURRENCE RISK OF URINARY SYSTEM CALCULUS, EVALUATION SYSTEM AND METHOD THEREOF	2022/10/24
2022/11572	EDIBLE MUSHROOM FIBER FOR PROMOTING PROBIOTIC PROLIFERATION, PRODUCTION METHOD AND APPLICATION THEREOF	2022/10/24
2022/11574	WASTE HEAT RECOVERY TYPE HEAT PUMP DRYING SYSTEM	2022/10/24
2022/11575	IMPROVED HYDROELECTRIC POWER GENERATION EQUIPMENT	2022/10/24
2022/11576	A WILD-SIMULATED CULTIVATION METHOD OF PARIS POLYPHYLLA VAR. YUNNANENSIS UNDER ARTIFICIAL FORESTS	2022/10/24
2022/11606	SEED COATING AGENT OF SOLANUM TUBEROSUM	2022/10/24
2022/11607	LOADING CALIBRATION DEVICE FOR INDOOR SIMULATION TEST OF SEMI-PILES	2022/10/25

Application Number	Patent Title	Filing Date
2022/11608	PULL-OUT TEST DEVICE FOR FIBER AND CEMENTING MATERIAL	2022/10/25
2022/11609	SIMPLE INDOOR HALF-FACE PILE TEST MODEL BOX MOVING DEVICE	2022/10/25
2022/11610	UNMANNED AGRICULTURAL MOWER	2022/10/25
2022/11611	MULTI-CHANNEL MICROINJECTOR	2022/10/25
2022/11612	A PARTS PACKAGING DEVICE	2022/10/25
2022/11613	LARGE MULTI-SECTION UNDISTURBED SOIL SAMPLER	2022/10/25
2022/11614	A PLANT INDUCTION CONTROL TECHNOLOGY FOR CONTROLLING WHITEFLIES AND APHIDS OF GREENHOUSE TOMATOES	2022/10/25
2022/11615	FOLIAR FERTILIZER FOR REDUCING HIGH-TEMPERATURE STRESS OF RICE	2022/10/25
2022/11616	ACOUSTIC EMISSION MONITORING APPARATUS FOR HYDROGEN DAMAGE OF AMMONIA SYNTHESIS TOWER MATERIAL, AND USE METHOD THEREFOR	2022/10/25
2022/11617	PROBE FOR ACOUSTIC EMISSION MONITORING OF AMMONIA SYNTHESIS TOWER MATERIAL	2022/10/25
2022/11619	HYDROPONIC CULTURE METHOD OF SYMPODIAL BAMBOO	2022/10/25
2022/11620	SIMULATION DEVICE FOR NITROGEN CONVERSION AND APPLICATION METHOD THEREOF	2022/10/25
2022/11623	A SELF-AID BATHING DEVICE	2022/10/25
2022/11624	MULTIFUNCTIONAL POLICE HANDCUFF	2022/10/25
2022/11626	FERMENTED APPLE CIDER CONTAINING CHINESE PRIVET AND PREPARATION METHOD THEREFOR	2022/10/25
2022/11654	LASER PROCESSING DEVICE	2022/10/26
2022/11668	WATERPROOFING CONSTRUCTION METHOD FOR BUILDING HOUSING POOL	2022/10/26
2022/11669	SOIL SAMPLING EJECTOR	2022/10/26
2022/11670	COMPOUND AND APPLICATION THEREOF	2022/10/26
2022/11675	SYSTEM FOR DATA TRANSMISSION USING LI-FI TECHNOLOGY	2022/10/26
2022/11676	PASSENGER COUNTING SYSTEM FOR PUBLIC TRANSPORT	2022/10/26
2022/11677	MOTION DETECTION SYSTEM FOR GAMING AND OTHER APPLICATIONS	2022/10/26
2022/11678	UNIFIED SYSTEM FOR ASSESSMENT AND PROCESSING OF MULTIPLE AGRICULTURAL TASKS	2022/10/26
2022/11679	SYSTEM FOR OBJECT DETECTION WITH VOICE OUTPUT FOR VISUALLY IMPAIRED PEOPLE	2022/10/26
2022/11703	FULLY SOIL-COVERED STRUCTURE OF VERTICAL TANK BODY	2022/10/26
2022/11704	BUILT-IN VALVE CHAMBER OF TANK COMPLETELY COVERED WITH SOIL	2022/10/26
2022/11705	INTEGRAL SIDE SLOPE STRUCTURE OF SOIL COVERING TANK	2022/10/26

Application Number	Patent Title	Filing Date
2022/11727	A METHOD FOR SOCIAL NETWORK ANALYSIS TO QUANTIFY THE LINK ANALYSIS IN SOCIAL NETWORK	2022/10/27
2022/11728	DIRECT INTERFACE SYSTEM FOR CONNECTING AGRICULTURAL PRODUCERS AND CUSTOMERS	2022/10/27
2022/11729	INTELLIGENT LIQUID FEEDING SYSTEM FOR PIG BREEDING	2022/10/27
2022/11730	PROCESS FOR MANUFACTURING BANANA FIBRE	2022/10/27
2022/11733	OUTDOOR PROTECTION ELECTRIC SHOCK BACKPACK	2022/10/27
2022/11776	MULTISOURCE MAIN-SUBSIDIARY ENTITY IDENTITY DISCRIMINATION AND DATA SELF-SUPPLEMENTATION PROCESSING METHOD	2022/10/28
2022/11805	COMPOUND PREPARATION OF TRADITIONAL CHINESE MEDICINE AND PROBIOTICS FOR FATTENING GOATS AND PREPARATION METHOD THEREOF	2022/10/31
2022/11806	METHOD FOR SIMPLIFYING FOREST POINT CLOUD AND EXTRACTING PARAMETERS OF GROUND LIDAR	2022/10/31
2022/11809	THE PREPARATION METHOD OF THE ORGANOID EXTRANODAL NATURAL KILLER (NK)/T-CELL LYMPHOMA, NASAL TYPE , ENKTL	2022/10/31
2022/11810	IDENTIFICATION METHOD OF PHYTOPHAGOUS INSECTS DIET BASED ON MULTIPLEX PCR	2022/10/31
2022/11811	METHOD FOR PREPARING SODIUM BISULFATE FROM SOLID SLAG SALT OF COAL CHEMICAL INDUSTRY	2022/10/31
2022/11812	PREPARATION METHOD OF POROUS ADSORPTION MATERIAL, PRODUCT AND APPLICATION THEREOF	2022/10/31
2022/11813	MODELING METHOD OF FOREST BIOMASS GROUND LIDAR	2022/10/31
2022/11814	A NEW STRUCTURE OF AUTOMATIC TILTING DEVICE	2022/10/31
2022/11815	WINDPROOF FIXING DEVICE FOR TREE CULTIVATION	2022/10/31
2022/11816	HOMOLOGOUS INTEGRATIVE EXPRESSION VECTOR OF CANDIDA UTILIS, ENGINEERING BACTERIUM, CONSTRUCTION METHODS, AND USE	2022/10/31
2022/11817	HIGH STRENGTH CONCRETE CORE DRILLING SAMPLING DEVICE AND METHOD	2022/10/31
2022/11818	METHOD OF GENERATING ENGLISH WORD APPEARANCE SHORT FEATURE CODE	2022/10/31
2022/11819	AUXILIARY SUPPORTING DEVICE FOR FIELD PLANTING OF CAMELLIA SEMISERRATA SEEDLINGS	2022/10/31
2022/11820	IMPROVED SEWAGE TREATMENT DEVICE AND SEWAGE TREATMENT PROCESS THEREOF	2022/10/31
2022/11825	A HYBRID AUDIO STEGANOGRAPHY SYSTEM AND ITS METHOD THEREOF	2022/10/31
2022/11826	IMPROVE ANTITUMOR EFFICACY OF CYCLOPHOSPHAMIDE NANOEMULSION BY	2022/10/31

Application Number	Patent Title	Filing Date
	PARENTERAL DRUG DELIVERY SYSTEM AGAINST BREAST CANCER CELL	
2022/11828	INTELLIGENT FACE RECOGNITION SYSTEM USING DEEP RECURRENT NEURAL NETWORK	2022/10/31
2022/11849	BIDIRECTIONAL REUSABLE FILTERING FACE MASK	2022/10/31
2022/11875	FLEXIBLE CARBON-BASED/POLYMER COMPOSITE CONDUCTIVE FUNCTIONAL MATERIAL AND PREPARATION METHOD THEREOF	2022/11/01
2022/11876	HLPC METHOD FOR DETECTING MCPA-ISOOCTYL AND FLUROXYPYR-MEPTYL	2022/11/01
2022/11877	PLASTIC PIPE FOR HIGH-THERMAL CONDUCTIVITY CABLE, PREPARATION METHOD AND APPLICATION THEREOF	2022/11/01
2022/11878	A PROCESS FOR CREATING MANGANESE SULFATE FROM WASTE ACID IN INDUSTRIAL WASTE WATER	2022/11/01
2022/11879	A NEW TYPE OF WATERWAY WATER LEVEL TEST AND ALARM DEVICE	2022/11/01
2022/11881	AN EARLY WARNING AND EMERGENCY SYSTEM FOR HEAVY METAL POLLUTION IN THE PROCESSING AND SMELTING SLAG DISPOSAL SITE	2022/11/01
2022/11882	A SOIL IMPROVEMENT MATERIAL, ITS PREPARATION METHOD AND APPLICATION	2022/11/01
2022/11883	A PORTABLE AIR BUBBLE BASED INSECTICIDE DIFFUSER	2022/11/01
2022/11884	MOBILE SAFETY COVER PROTECTION FOR DANGEROUS UNUSABLE MOBILE FREQUENCY	2022/11/01
2022/11886	A DRUG DELIVERY SYSTEM BY USING ARTIFICIAL INTELLIGENCE INTERFACES FOR PREPARING MICROEMULSIONS TO ENHANCE BIOAVAILABILITY	2022/11/01
2022/11915	TRENCH-BASED STRUCTURE FOR WETLAND PROTECTION AND RESTORATION AND CONSTRUCTION METHOD THEREOF	2022/11/02
2022/12051	LANDSLIDE MONITORING AND EARLY-WARNING EQUIPMENT	2022/11/04
2022/12159	ZINC-ENRICHED LIQUID FERTILIZER FOR HIGHLAND BARLEY IN HIGH-ALTITUDE AREAS	2022/11/08
2022/12160	SELENIUM-ENRICHED FOLIAR FERTILIZER FOR HIGHLAND BARLEY	2022/11/08
2022/12161	METHOD FOR PREPARING TRANSITION METAL PHOSPHIDE OR SULFIDE	2022/11/08
2022/12163	A RISK SCORING SYSTEM FOR PREDICTING INVASIVE CANDIDIASIS OF CRITICAL PATIENTS BY COMBINING CLINICAL RISK FACTORS AND LYMPHOCYTE SUBTYPES AND ITS ESTABLISHMENT METHOD	2022/11/08
2022/12164	APPLICATION OF TNFSF15 PROTEIN IN PROMOTING DIFFERENTIATION AND PROLIFERATION OF BONE MARROW STEM CELLS INTO MACROPHAGES	2022/11/08
2022/12165	A DTP1 GENE SEQUENCE IN CONTROLLING RICE MALE REPRODUCTIVE DEVELOPMENT	2022/11/08

Application Number	Patent Title	Filing Date
2022/12166	THE APPLICATION OF AP2 GENE IN REGULATING RICE MALE REPRODUCTION	2022/11/08
2022/12167	A DA1 GENE SEQUENCE IN CONTROLLING RICE MALE REPRODUCTIVE DEVELOPMENT	2022/11/08
2022/12168	MULTIPURPOSE TRAY WITH AN EXTENDABLE HOLDER	2022/11/08
2022/12170	SAMPLING METHOD FOR SIMULATED LEACHING OF RARE EARTH MINERALS	2022/11/08
2022/12172	PREPARATION METHOD OF HYPERBRANCHED PHOTO-CURED WATERBORNE POLYURETHANE FILM	2022/11/08
2022/12198	NOVEL METHOD FOR DC-SIDE VOLTAGE BALANCING CONTROL OF CASCADED SVG	2022/11/09
2022/12199	CHINESE COPYBOOK AUXILIARY BOARD	2022/11/09
2022/12200	OCEAN ENVIRONMENT PARAMETER INTEGRATED ADJUSTABLE NAVIGATION MARK MONITORING DEVICE	2022/11/09
2022/12201	COMPOSITE PRESERVATIVE FOR INHIBITING MELANOSIS OF LITOPENAEUS VANNAMEI AND APPLICATION METHOD THEREOF	2022/11/09
2022/12202	SHOCK ABSORBING DEVICE FOR MAIN LINE BRIDGE OF STATION	2022/11/09
2022/12203	SELF-CLEANING DRUM-SHAPED MESH CONTINUOUS FILTER	2022/11/09
2022/12204	METHOD FOR INFLUENCING QUALITY OF EUPATORIUM ODORATUM SILAGE BY ADDING DIFFERENT PROPORTIONS OF LACTIC ACID BACTERIA PREPARATION	2022/11/09
2022/12207	ALFALFA TYPE COMPLETE PELLET FEED CAPABLE OF ENHANCING INTESTINAL MICROECOLOGICAL BALANCE TO REDUCE DIARRHEA RATE OF PIGLETS	2022/11/09
2022/12208	A PATTERN RECOGNITION METHOD FOR IDENTIFICATION OF DEVNAGARI SCRIPT BASED ON FINGERTIPS AND PALM	2022/11/09
2022/12209	AN ONLINE SYSTEM FOR LINKING NGOS WITH FAMILIES OF COVID VICTIMS	2022/11/09
2022/12210	SOLAR OBSTACLE AVOIDING VEHICLE WITH SOLAR SPRINKLER	2022/11/09
2022/12211	A NOVEL SYSTEM FOR OBJECT COUNTING	2022/11/09
2022/12212	A SYSTEM FOR REAL TIME SPEECH RECOGNITION AND TEXT CONVERSION	2022/11/09
2022/12213	DRIVER DROWSINESS DETECTION SYSTEM	2022/11/09
2022/12214	A SYSTEM FOR CREDIT CARD FRAUD ANALYSIS USING MACHINE LEARNING	2022/11/09
2022/12215	SOIL MONITORING AND WATERING SYSTEM CONTROL BY AN APPLICATION	2022/11/09
2022/12216	ALCOHOL SENSING ALERT SYSTEM WITH ENGINE LOCK AND ALARM	2022/11/09
2022/12218	INTELLIGENT SYSTEM FOR STRATEGIC FLEXIBLE MANAGEMENT OF FRAMEWORK OF SMALL- AND	2022/11/09

Application Number	Patent Title	Filing Date
	MEDIUM-SIZED ENTERPRISES BASED ON IOT & MACHINE LEARNING	
2022/12219	A NOVEL CAR RACING SYSTEM FOR MENTAL EXERCISE	2022/11/09
2022/12220	A KIND OF WELDING TOOL FOR LONGITUDINAL SEAM OF THIN-WALLED CYLINDER	2022/11/09
2022/12239	MULTI-TASK OBJECT DETECTION METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM	2022/11/09
2022/12249	MITRAL VALVE REPAIR DEVICE AND CONTROL HANDLE THEREOF	2022/11/09
2022/12497	A SEED GERMINATION PROMOTER SUITABLE FOR VEGETATION RESTORATION IN RARE EARTH TAILINGS, A PREPARATION METHOD AND A USE METHOD	2022/11/16
2022/12498	A PREPARATION METHOD OF FRUIT-FLAVORED GRAPE-MULBERRY HEALTHCARE WINE	2022/11/16
2022/12547	APPLICATION OF CIRCULAR RNA AS MOLECULAR MARKER FOR POOR PROGNOSIS OF GASTRIC CANCER, AND ASSAY KIT AND PRIMER	2022/11/17
2022/12690	A UNIVERSAL SEPARATING X- AND Y-BEARING SPERM SEPARATION LIQUID FOR MAMMALS AND A USE METHOD THEREOF	2022/11/22
2022/12691	A MODIFIED STRAW FIBER AND A PREPARATION METHOD THEREOF AND AN ASPHALT MORTAR PREPARED BY THE MODIFIED STRAW FIBER AND A PREPARATION METHOD OF THE ASPHALT MORTAR	2022/11/22
2022/12692	COLORED PERVIOUS CONCRETE AND PREPARATION METHOD THEREOF	2022/11/22
2022/12743	A PREPARATION METHOD OF EDIBLE COMPOSITE FILM BASED ON TEA POWDER	2022/11/23
2022/12744	A NOVEL WEEDING TECHNOLOGY FOR HONEYSUCKLE	2022/11/23
2022/12930	LOW-EMISSION NOZZLE, LOW-EMISSION DUAL-FUEL COMBUSTION CHAMBER AND GAS TURBINE GENERATOR SET	2022/11/28
2022/12931	AXIAL FLOW COMPRESSOR, GAS TURBINE AND METHOD FOR REGULATING ROTATION ANGLE OF ROTATABLE GUIDE VANE	2022/11/28
2022/12932	STRUCTURAL FATIGUE/DURABILITY EXPERIMENT SYSTEM AND EXPERIMENTAL METHODS IN THE COMPLEX ENVIRONMENTS	2022/11/28
2022/12952	METHOD FOR CONCENTRATION INCREASE AND ENRICHMENT OF VENTILATION GAS	2022/11/29

DESIGNS

Advertisement List for December 2022

Number of Advertised Designs: 140

Application Number	Design Articles	Filing Date
A2019/01147	A BUILDING	2019/08/22
A2019/01765	Display Screen or Portion Thereof With Graphical User Interface	2019/12/09
A2020/00232	DRILLING TOOLS	2020/02/26
A2020/00883	Tire for a Motorcycle	2020/06/23
A2020/01019	BEVERAGE PODS	2020/07/24
A2020/01181	A BLANK FOR A MASK	2020/09/02
A2020/01413	HEADLIGHTS FOR VEHICLES	2020/10/30
A2020/01414	BUMPERS FOR VEHICLES	2020/10/30
A2020/01473	STAND FOR ELECTRONIC DEVICE	2020/11/12
A2020/01515	A CANOPY	2020/11/24
A2021/00369	Footwear Cover	2021/04/09
A2021/00727	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00728	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00729	ORAL CARE IMPLEMENTS	2021/06/21
A2021/00730	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00731	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00732	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00733	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00734	CAPS FOR SHAVER BLADES	2021/06/21
A2021/00735	ORAL CARE IMPLEMENTS	2021/06/21
A2021/00736	ORAL CARE IMPLEMENTS	2021/06/21
A2021/00737	ORAL CARE IMPLEMENTS	2021/06/21
A2021/00835	A PRE-FABRICATED LIVING UNIT	2021/07/19
A2021/00942	Toy Car	2021/08/06
A2021/00950	HUBS FOR MEDIA SYSTEMS	2021/08/05
A2021/00951	MOUNTS FOR MEDIA SYSTEMS	2021/08/05
A2021/00952	MEDIA SYSTEMS	2021/08/05
A2021/00953	POWER SUPPLY UNITS	2021/08/05
A2021/00954	REMOTES FOR MEDIA SYSTEMS	2021/08/05
A2021/00969	Logo	2021/08/16
A2021/00970	Logo	2021/08/16
A2021/00971	Logo	2021/08/16
A2021/00973	Tire for an Automobile	2021/08/17
A2021/00974	Razor Handle	2021/08/18
A2021/00975	FOOTWEAR	2021/08/19
A2021/01023	PANELS WITH SOLAR CELL BORDERS	2021/09/03
A2021/01024	PANELS WITH SOLAR CELL BORDERS	2021/09/03
A2021/01239	Pistol	2021/10/06
A2021/01275	AUTOMOBILES	2021/10/08
A2021/01471	CONTAINER	2021/11/24
A2021/01473	CONTAINER	2021/11/24
A2021/01493	FOOTWEAR	2021/12/01
A2021/01494	FOOTWEAR	2021/12/01
A2021/01495	FOOTWEAR	2021/12/01
A2021/01496	BUCKET SHROUDS	2021/12/02
A2021/01497	FOOTWEAR	2021/12/03

Application Number	Design Articles	Filing Date
A2021/01532	A FOOD PROCESSING MACHINE	2021/12/15
A2022/00005	APPLICATOR FOR IMPLANTABLE DRUG DELIVERY	2022/01/03
A2022/00116	Bowl	2022/02/03
A2022/00126	COFFEE MAKERS	2022/02/09
A2022/00176	MINING TRUCK	2022/02/21
A2022/00202	PHARMACEUTICAL INGREDIENT MIXING DEVICES	2022/02/25
A2022/00231	Barrier	2022/03/07
A2022/00232	Cone Barrier	2022/03/07
A2022/00242	BOTTLES	2022/03/10
A2022/00243	BOTTLES	2022/03/10
A2022/00244	BOTTLES	2022/03/10
A2022/00260	CAMERAS	2022/03/14
A2022/00266	GLASS PANELS	2022/03/16
A2022/00275	Container	2022/03/18
A2022/00276	Container	2022/03/18
A2022/00277	Container	2022/03/18
A2022/00279	BOTTLE	2022/03/22
A2022/00280	BOTTLE	2022/03/22
A2022/00297	A Pouch Container	2022/03/24
A2022/00298	A Pouch Container	2022/03/24
A2022/00299	A Pouch Container	2022/03/24
A2022/00306	Cup Warmer	2022/03/25
A2022/00307	Milk Frother	2022/03/25
A2022/00312	TELEVISIONS	2022/03/25
A2022/00313	TELEVISION STANDS	2022/03/25
A2022/00314	TELEVISIONS WITH STANDS	2022/03/25
A2022/00315	TELEVISION FASCIAS	2022/03/25
A2022/00318	TROLLEY	2022/03/25
A2022/00338	Storage Container	2022/03/31
A2022/00339	A Portable Fire Pit	2022/03/31
A2022/00357	MOTOR VEHICLE STICKER SET	2022/04/05
A2022/00360	BOTTLES	2022/04/06
A2022/00361	GRAPHIC DESIGNS	2022/04/06
A2022/00362	CAPS	2022/04/06
A2022/00363	BOTTLES	2022/04/06
A2022/00364	BOTTLES	2022/04/06
A2022/00375	STORAGE CAN FOR OIL	2022/04/07
A2022/00376	STORAGE CAN FOR OIL	2022/04/07
A2022/00377	STORAGE CAN FOR OIL	2022/04/07
A2022/00378	STORAGE CAN FOR OIL	2022/04/07
A2022/00388	MOTOR VEHICLES	2022/04/11
A2022/00398	Connector	2022/04/13
A2022/00424	Tent	2022/04/21
A2022/00425	Part of a Tent	2022/04/21
A2022/00427	CASES, DIALS AND ALL OTHER ACCESSORIES AND PARTS, FOR WATCHES	2022/04/21
A2022/01204	PANELS FOR A MODULAR SECURITY CABINET	2022/10/05

Application Number	Design Articles	Filing Date
A2022/01205	PANELS FOR A MODULAR SECURITY CABINET	2022/10/05
A2022/01206	MODULAR SECURITY CABINET	2022/10/05
A2022/01207	MODULAR SECURITY CABINET	2022/10/05
A2022/01391	PLANT HOLDER	2022/11/04
F2018/01628	BRAAI GRID CARRY CASES	2018/10/22
F2019/01614	AN OUTDOOR PORTABLE OVEN	2019/10/29
F2019/01620	WHEELBARROWS	2019/10/30
F2020/01020	BEVERAGE PODS	2020/07/24
F2020/01109	HAND TOOLS	2020/08/14
F2020/01340	FIRE STARTER	2020/10/08
F2020/01514	A CANOPY	2020/11/24
F2021/00755	VOTING BOOTH	2021/06/25
F2021/00986	AUTOINJECTOR	2021/08/24
F2021/01470	CONTAINER	2021/11/24
F2021/01472	CONTAINER	2021/11/24
F2022/00109	Connectors	2022/02/01
F2022/00221	MOUNTING DEVICE FOR A SHOCK ABSORBER FOR A VEHICLE	2022/02/28
F2022/00268	SOLAR PANEL BRACKET 1	2022/03/16
F2022/00269	SOLAR PANEL BRACKET 2	2022/03/16
F2022/00270	SOLAR PANEL RAIL	2022/03/16
F2022/00271	PRESSURE SPREADING DEVICE	2022/03/16
F2022/00272	PRESSURE SPREADING DEVICE	2022/03/16
F2022/00282	CAMPING TABLE	2022/03/23
F2022/00283	TENT FRAME CONNECTORS	2022/03/23
F2022/00284	COOKING UTENSIL HANGER FOR CAMPING	2022/03/23
F2022/00285	COOKING UTENSIL HANGER FOR CAMPING	2022/03/23
F2022/00308	Hydrant	2022/03/25
F2022/00387	A MINE PROP	2022/04/11
F2022/00395	BRACKET FOR MOUNTING SOLAR PANEL RAILS ON TILED ROOFS	2022/04/13
F2022/00413	TRAILER	2022/04/19
F2022/00414	TENT FOR CAMPING	2022/04/20
F2022/00422	RADIATORS	2022/04/21
F2022/00428	Screw Conveyors	2022/04/21
F2022/00429	Screw Conveyors	2022/04/21
F2022/00442	CONTAINER	2022/04/26
F2022/00443	CONTAINER	2022/04/26
F2022/00462	BIRD REPELLENT DEVICE	2022/04/28
F2022/00506	FRAMES	2022/05/12
F2022/01083	PHYSICAL AND MENTAL HEALTH ASSESSMENT DEVICE	2022/09/15
F2022/01202	PANELS FOR A MODULAR SECURITY CABINET	2022/10/05
F2022/01203	PANELS FOR A MODULAR SECURITY CABINET	2022/10/05
F2022/01208	MODULAR SECURITY CABINET	2022/10/05
F2022/01209	MODULAR SECURITY CABINET	2022/10/05

Application Number	Design Articles	Filing Date
F2022/01280	WALL MOUNT FOR UNDERGROUND LASER	2022/10/13
F2022/01339	LIFELINE MOUNT	2022/10/24
F2022/01340	LIFELINE MOUNT	2022/10/24
F2022/01341	LIFELINE MOUNT	2022/10/24
F2022/01387	PLANT HOLDER	2022/11/02

OTHER NOTICES

Companies and Intellectual Property Commission
a member of the dtic group

N O T I C E

COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)

Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **10h00 on Friday 23 December 2022 up to and including Monday 2 January 2023.**

The CIPC Offices at –

a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F – Entfutfukweni) in Sunnyside, Pretoria;
b) 1st floor, Office 103, Sancardia Building, 541 Madiba Street, Arcadia, Pretoria;
c) Talis House , No 17 Simmonds street, Cnr Main and Simmonds street, Marshalltown, Johannesburg;
d) Norton Rose House No 8, Shop Number 3, Riebeek Street, Thibault Square, Cape Town; and
e) (CIPC officials) at Trade and Investment KwaZulu Natal (TIKZN) situated at 1 Arundel Close, Kingsmead Office Park, Kingsmead Boulevard, Stalwart Simelane Street in Durban,

will re-open at 08h00 on Tuesday 3 January 2023.

The lodgment of documents and services of legal documents will be accepted on Thursday 22 December 2022 until 15h30.

The days from Friday 23 December 2022 up to and including Monday 2 January 2023 will be regarded as *dies non* for purposes of the stated Acts.

CIPC offers different lodgment / filing methods for certain services to its customers. During this period, services processed by automated means will continue to be processed while those services which require back-office intervention / finalisation e.g. services which require scanned documents to be e-mailed to dedicated e-mail addresses or uploaded via electronic platforms e.g. New E-Services, will only resume from Tuesday 3 January 2023.

Please also take note that with regards to name reservations, all reserved names that would have lapsed between Friday 23 December 2022 up to and including Monday 2 January 2023, will now have their reservation dates moved forward to Tuesday 3 January 2023 and will, therefore, only elapse on that date.

SCHEDULE

Trade Marks Act, 1993
Patents Act, 1978
Design Act, 1993
Copyright Act, 1978
Companies Act, 2008
Close Corporations Act, 1984
Co-operatives Act, 2005
Registration of Copyright in Cinematograph Film Act, 1977

Kind regards.

Rory Voller
30/09/2022 07:47:13(UTC+02:00)
Signed by Rory Voller,
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SIGNIFLOW.COM

Rory Voller
Commissioner: CIPC