



**Australian Government**

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**IP Australia**

**AUSTRALIAN OFFICIAL JOURNAL**

**OF**

**PATENTS**



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## *General Information*

*For information on the following please see our website [www.ipaustralia.gov.au](http://www.ipaustralia.gov.au)  
or contact our Customer Service Network on 1300651010*

*Editorial enquiries*

*Contact information*

*Freedom of Information ACT*

*Professional Standards Board*

*Sales*

*Requests for Information under Section 194 (c)*

*Country Codes*

*Trade Mark and Designs Hearing Sessions*

*INID (Internationally agreed Numbers for the Identification of Data)*

## GUIDE TO THE USE OF THIS JOURNAL

The Australian Official Journal of Patents (AOJP) reports all major events and actions which take place during the life cycle of an Australian patent and provides certain details of these actions as they relate to the patent or patent application involved. This guide sets out to teach the reader how to use the journal to access this information.

While there are many possible actions in the life of a patent, the majority of actions reported relate to the following events, which are the main stages in the progression of a patent application to a granted patent:

### **(i) FILING -**

This is the act of making an application. When the application is first filed certain details are published.

### **(ii) OPEN-TO-PUBLIC-INSPECTION (OPI) -**

Approximately 18 months after first filing of an Australian or a corresponding foreign application, certain application documents, including the complete specification, become available to the public (Open-to-Public-Inspection or "OPI"). Relevant application details are published.

### **(iii) ACCEPTANCE –**

This is the Commissioner's acceptance of a patent application. Once the Commissioner has accepted a patent application, certain details of the application are published in the AOJP. Notice of opposition may be filed within three months of advertisement of acceptance.

### **(iv) OPPOSITION –**

If an opposition action is commenced against the grant of the patent, the application number and the name of the opponent are published. If the opposition is to the Certification of an Innovation Patent, the patent number and the name of the opponent are published.

### **(v) GRANTING –**

Most accepted applications are not opposed. These proceed to grant and become granted patents. Of the few that are opposed (less than 1%) most of these, after resolution of the opposition, proceed to grant and become granted patents. Granted patents are simply listed in order of their patent number.

### **(vi) CERTIFICATION**

This is the Commissioner's Certification after passing examination of a previously granted unexamined Innovation Patent.

In addition to the actions related to these stages, other actions reported include: assignments, lapsing or withdrawal of applications and ceasing or expiry of patents, voluntary amendments, extensions of time for certain actions and registration of licences.

## How To Identify Information Using "INID" Numbers

Patents are published in many different countries and in many different languages. As a result, finding the information that you want ( eg the filing date) on a patent document or in a journal can be quite difficult. There is an international system operating, which codifies this information in an unambiguous way, by assigning a specific number to each piece of information about the history of a patent. These numbers are called the **Internationally agreed Numbers for the Identification of Data** or INID numbers.

These numbers appear on all published patents and abstracts and are used throughout this journal to identify particular items of information. For example, the date on which a document is filed has the INID number (22), while the name of the applicant has the INID number of (71). These numbers are always expressed in parentheses and always immediately precede the information to which they relate. For example:

(22) 12.10.91

means that the filing date of the document which contains this reference is 12 October 1991. Learning the INID numbers for the information you want will help you find it quickly and easily. A complete list of the INID numbers and the items to which they relate is provided at the end of this Guide.

## How Australian Patent Documents are Numbered

When searching information or ordering documents it is vital that you understand the numbering system.

Document Numbering in the **Australian Official Journal of Patents from 10th March 2018** All

patents, patent applications and provisional applications are assigned a "10" digit number.

- The first 4 digits identify the year of filing; and
- The fifth digit identifies the type of patent. Numerals; "0", "2", or "3" are allocated to standard complete applications and patents (including petty patents); "1" is allocated to innovation applications and patents; and "9" is allocated to provisional applications.

**See Examples:**

2011236254 and 2000023658 (Standard Complete)

2011158589 (Innovation Complete)

2011902365 (Provisional)

**NOTE:** Please refer to previous journal publications for numbering formats used prior to 10th March 2018.

Different prefixes will be associated to the application/patent at different stages of its life. This prefix indicates whether the application has been accepted.

A document corresponding to an unaccepted application has the prefix, AU-A; eg AU-A-2002200234. A document corresponding to an accepted application carries the prefix AU-B; eg AU-B-2002200234.

Users need to be aware that an accepted document may differ from the corresponding unaccepted document. This is because amendment may occur between first publication (OPI) and second publication (acceptance).

<p><b>NOTE:</b> When ordering any patent document from us, whether accepted or not, please quote the application/patent number preceded by the appropriate prefix.</p>
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## Arrangement of Information in the Journal

For each of the categories

(i) Provisional Applications Filed, (ii)

Complete Applications Filed, (iii)

Applications Open to Public Inspection

(iv) Applications Accepted, and (v)

Innovation Patent Certified.

The Journal lists the information published in that category in an alphabetical Name Index list based on the name of the applicant. These indices are useful if you wish to find information about applications made by a particular applicant.

In addition to the Name Index there is provided, for each of these categories, a Numerical Index This index lists the applications either in order of their Application Numbers, in the case of complete applications filed and applications OPI, or in order of their Document Number in the case of accepted applications. It provides, for each number, the name of the applicant. These indices are useful if you wish to track the progress of a particular patent application.

There are also IPC Indices provided for applications which are OPI and for applications which have been accepted. IPC stands for International Patent Classification. Each IPC "mark" is an alpha-numerical representation of a particular area of technology. These indices are in order of IPC mark, and within each mark provide either the application numbers of the application which are now OPI or the numbers of the cases now accepted. These indices are useful if you wish to check on patent activity in a particular technology.

## Using the Indices To Find Patent Information if You Know the Name of the Applicant.

Use the Name Indices. They will give you the following information identified by their INID number:

<u>ITEM</u>	<u>INID</u> <u>No.</u>	<u>ITEM</u>	<u>INID</u> <u>No.</u>
<b>A) Provisional applications filed - Name Index</b>		<b>B) Complete application filed - Name Index</b>	
The <u>name</u> of the applicant	(71)	The <u>name</u> of the applicant	(71)
The Provisional application <u>number</u>	(21)	The <u>number</u> assigned to the application	(21)
The <u>date</u> of filing	(22)	The <u>date</u> of filing	(22)
The <u>title</u> of the invention	(54)	<u>Title</u> of the invention	(54)
		<u>Number</u> of priority document(s) if any	(31)
		<u>Date(s)</u> of filing of priority documents	(32)
		<u>Country</u> of which priority documents filed	(33)
		PCT application <u>number</u>	(86)

<u>ITEM</u>	<u>INID No.</u>	<u>ITEM</u>	<u>INID</u> <u>No.</u>
<b>C) Applications open to public inspection Name Index</b>		<b>D) Applications accepted - Name Index</b>	
The <u>name</u> of the applicant	(71)	The <u>name</u> of the applicant	(71)
The <u>number</u> of the document	(11)	The <u>number</u> of the document	(11)
The <u>number</u> assigned to the application	(21)	The <u>number</u> of the accepted document	(10)
The <u>date</u> of filing	(22)	The <u>number</u> assigned to the application	(21)
The <u>title</u>	(54)	The <u>date</u> of filing	(22)
The <u>classification marks</u>	(51)	The <u>title</u>	(54)
Priority document <u>number(s)</u>	(31)	The <u>classification marks</u>	(51)
<u>Date</u> of filing of priority document(s)	(32)	PCT publication <u>number</u>	(87)
<u>Country</u> in which priority document filed	(33)	Priority document <u>number</u>	(31)
Publication <u>date</u> of unexamined document	(43)	<u>Date</u> of filing of priority document(s)	(32)
Inventors names if known	(72)	<u>Country</u> in which priority document filed	(33)
<u>Patent Attorneys</u>	(74)	Publication <u>date</u> of unexamined document	(43)

<u>ITEM</u>	<u>INID</u> <u>No.</u>
<b>E) Patents Certified – Name Index</b>	
The <u>name</u> of the applicant	(71)
The <u>number</u> of the accepted document	(10)
The <u>number</u> assigned to the application	(21)
The <u>date</u> of filing	(22)
The <u>title</u>	(54)
The <u>classification marks</u>	(51)
Priority document <u>number</u>	(31)
<u>Date</u> of filing of priority document(s)	(32)
<u>Country</u> in which priority document filed	(33)
Publication <u>date</u> of granted patent	(45)
<u>Inventors names</u>	(72)
<u>Patent Attorneys</u>	(74)
Related by division	(62)

You will notice at each stage of following application through that all applications are in alphabetical order of **Applicant**, not inventor.



### 1. To Find Information About a Patent Application if You Know its Number.

Use the appropriate numerical index. This will give you the name of the applicant from the number. You will then need to use the appropriate Name Index as above to find out other information about the Patent Application you are interested in.

The following Numerical Indices are available:

- A) **Provisional** Applications filed.
- B) **Complete** Applications filed.
- C) Innovation Applications filed.
- D) Applications **Open to Public Inspection**.
- E) Applications **Accepted**.
- F) Innovation Patent Certified

### 3. To Find Information About Patent Documents in the Area of Technology in which You are Interested if You Know the International Patent Classification Mark for that Area.

All patent applications are classified according to their subject matter using the International Patent Classification (IPC). Although the system is very detailed and covers all technologies, knowledge of the IPC marks of the technologies you are interested in will allow you to find patent documents in these technologies quite easily. To identify the IPC marks of technologies you are interested in, you can inspect relevant documentation in any of AIPO's state offices.

The indices to use are

- A) Applications **OPI** - IPC Index
- B) Applications **accepted** - IPC Index.

These indices give you the numbers of the applications which are either OPI or Accepted and are listed in order of their IPC marks.

Once you have the numbers of the documents that interest you, consult the relevant Number Index (see 2. above) to find the applicant's name, and then the Name Index (see 1. above) to find out the details of that application.

## 'INID' NUMBERS in use on Australian Patent Documents

'INID' is an acronym for 'Internationally agreed Numbers for the Identification of Data'.

### (10) Document identification

- (11) Number of the document
- (12) Plain language designation of the kind of document
- (19) WIPO country code, or other identification, of the country publishing the document.

### (20) Document filing data

- (21) Number(s) assigned to the application(s).
- (22) Date(s) of filing application(s)
- (23) Other date(s) of filing, including exhibition filing date and date of filing complete specification following provisional specification.
- (24) Date from which industrial property rights may have effect.

### (30) Priority data

- (31) Number(s) assigned to priority application(s)
- (32) Date(s) of filing priority application(s)
- (33) Country (countries) in which the priority application(s) was (were) filed.

### (40) Date(s) of making available to the public

- (43) Date of publication by printing or similar process of an unexamined document, on which no grant has taken place on or before the said date.

(43) Date of publication by printing or similar process of an examined document, on which no grant has taken place on or before the said date.

(44) Date of publication by printing or similar process of a document, on which grant, or certification has taken place on or before the said date.

**(50) Technical Information**

(51) International Patent Classification

(52) Domestic or national classification

(54) Title of invention

(56) List of prior art documents, if separate from descriptive text

(57) Abstract or claim

**(60) Reference(s) to other legally related domestic document(s)**

(60) Related by cognate(s).

(61) Related by addition(s).

(62) Related by division(s).

**(70) Identification of parties concerned with the document**

(71) Name(s) of applicant(s)

(72) Name(s) of inventor(s) if known to be such

(74) Name(s) of attorney(s) or agent(s)

(75) Name(s) of inventor(s) who is (are) also applicant(s)

**(80) Identification of data related to International Conventions other than the Paris Convention**

(86) PCT Application Number

(87) PCT Publication Number

**NOTE**

(1) Australian patent documents published on or after 26 October 1978 should be referred to by the application number preceded by the prefix AU-A or AU-B.

**AU-A** = Pre-examination

**AU-B** = Post-examination

(2) The classification used is the International Patent Classification and is identified by the INID code (51). Further editions of the classification are identified as (51)<sub>2</sub>, (51)<sub>3</sub>, (51)<sub>4</sub> and (51)<sub>5</sub>.

(3) INID code 74 provides for the name of the patent attorney, or firm of attorneys, prosecuting an application.

(4) There is a gap in volume numbering of the Australian Official Journal of Patents. The volumes are:

- 1987-2022      Volume 1 - 36
- 2023 -            Volume 57 -

IP AUSTRALIA

AUSTRALIAN PATENT OFFICE

*voestalpine Rail Technology GmbH v Nippon Steel Corporation* [2025] APO 28

Patent Application: 2020240203

Title: Rail

Patent Applicant: Nippon Steel Corporation

Opponent: voestalpine Rail Technology GmbH

Delegate: M. Umehara

Decision Date: 28 August 2025

Hearing Date: Written submissions completed on 7 August 2025

Catchwords: **PATENTS** – opposition under section 104 – amendments do not comply with s 102(2)(a) – claims as proposed to be amended do not in substance fall within the scope of the claims before amendment – s 102(2)(b) – claims as proposed to be amended are clear and supported – costs awarded

Representation: Patent attorney for the applicant: Spruson & Ferguson  
Counsel for the opponent: Ian P. Horak KC  
Patent attorney for the opponent: Madderns Patent & Trade Mark Attorneys

Proceedings under the Patents Act 1990

**Provisional Applications Filed**

**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 26 Aug 2025 .

(71) Aculeus Therapeutics Pty Ltd  
(21) 2025904015 (22) 01.09.2025  
(54) ENPP1 modulators

(71) Alsonex Pty Ltd  
(21) 2025904027 (22) 01.09.2025  
(54) TREATMENT OF NEURODEGENERATIVE DISEASE

(71) Alterca Investments Pty Ltd (trading as IPI Australia)  
(21) 2025904029 (22) 01.09.2025  
(54) Optimised Transport Cradle

(71) Anaxis Pharma Pty Ltd  
(21) 2025904017 (22) 01.09.2025  
(54) Benzothiazole compounds

(71) ASKBELLA PTY LTD  
(21) 2025903945 (22) 27.08.2025  
(54) AI-Driven System and Method for Personalised Product Recommendations in Retail Environments

(71) Athanasiadis, N.  
(21) 2025903923 (22) 27.08.2025  
(54) Title of Invention: Real Estate Reverse Marketplace System This invention relates to an online platform and method that transforms the traditional real estate sales process by inverting the conventional marketplace model. Property owners post their property for free, and verified real estate agents compete by submitting commission-based or flat-fee service offers, allowing sellers to select their preferred agent based on cost or value.

(71) Austworld Commodities Pty Ltd  
(21) 2025904040 (22) 02.09.2025  
(54) A PRESSURE REDUCTION VALVE

(71) Avicena Systems Limited  
(21) 2025903998 (22) 31.08.2025  
(54) BIEEXCITON HERALDED COINCIDENCE ASSAYS USING QUANTUM DOT DONORS FOR ULTRA LOW ABUNDANCE MOLECULAR DETECTION

(71) b.box for kids developments Pty Ltd  
(21) 2025903974 (22) 28.08.2025  
(54) A SUCTION CUP AND A MOUNTING ARRANGEMENT FOR THE SUCTION CUP

(71) Barfoot, J.  
(21) 2025904016 (22) 01.09.2025  
(54) Multi-Party Payment Splitting System Across Multiple Gateways and Platforms

(71) BIOHEAP Limited  
(21) 2025904021 (22) 01.09.2025  
(54) Process for bioleaching copper from sulfides in a high chloride environment

**Bishop III, J. see Bishop III, J.**  
(21) 2025903961

(71) Bishop III, J.; Bishop III, J.  
(21) 2025903961 (22) 28.08.2025  
(54) Cross Shaped Stormwater Storage Module and System & Method of Use Thereof

(71) Bignaut, S.  
(21) 2025903934 (22) 27.08.2025  
(54) UNIVERSAL PROBLEM-INVERSION CONTROL METHODOLOGY WITH APPLICATIONS TO HYDROGEN GENERATION SYSTEMS AND PHOENIX MOTOR CONTINUOUS REACTOR DESIGNS

(71) Brooks, A.  
(21) 2025903944 (22) 27.08.2025  
(54) Illuminated Cinerary Urn Assembly

(71) Byrd IP Pty Ltd  
(21) 2025903913 (22) 26.08.2025  
(54) A WASTE MANAGEMENT SYSTEM FOR CONSTRUCTION AND DEMOLITION SITES

(71) Bywater, G.  
(21) 2025904013 (22) 01.09.2025  
(54) A METHOD, SYSTEM, AND COMPOSITION FOR RAPID ENZYMATIC SYNTHESIS OF A SAVORY FLAVOR MATRIX WITH SYNERGISTIC FLAVOR DEVELOPMENT

(71) Canning, J.  
(21) 2025904014 (22) 01.09.2025  
(54) Sensor methods

(71) Carew-Hopkins, B.  
(21) 2025904010 (22) 01.09.2025  
(54) Rotating Sigil Authentication with Independent Two#Factor Verification and Liveness Regeneration

(71) Carter, M.  
(21) 2025903933 (22) 27.08.2025  
(54) Provisional Patent Update: Recursive Damping Control for Fusion Plasmas Methods, Systems, and Software for Stabilizing Confinement, Suppressing Modes, and Maximizing Gain

(71) CE ITS Holdings Pty Ltd  
(21) 2025904048 (22) 02.09.2025  
(54) Emergency gate

Provisional Applications Filed - Name Index cont'd

(71) Chemical Packers Limited  
 (21) 2025904035 (22) 02.09.2025  
 (54) An Improved Valve And Container Dosing System

(71) CIVIL INFRASTRUCTURE GROUP PTY LTDA  
 (21) 2025904037 (22) 02.09.2025  
 (54) Bridge Deck Integrated Precast Parapet Panel System

(71) Copper Care Wood Preservatives, Inc.  
 (21) 2025903966 (22) 28.08.2025  
 (54) Rail Tie Assembly with Longitudinal Reinforcement Band

(71) Cyplex Pty Limited  
 (21) 2025903963 (22) 28.08.2025  
 (54) ANTI-SWEEPING DEVICE

(71) Defined Products Pty Ltd  
 (21) 2025904005 (22) 01.09.2025  
 (54) Bioblocks. Therapeutic Support Device and Method for Pelvic and Lumbar Alignment

(71) de Maaijer, A.C.  
 (21) 2025904033 (22) 01.09.2025  
 (54) TRACK ENGAGEABLE BLIND EDGING

**Deshmukh, R.J. see Menon, A.S.**  
 (21) 2025903921

(71) Earthodic Pty Ltd  
 (21) 2025903919 (22) 26.08.2025  
 (54) Crosslinked Coating

(71) Emmett, C.  
 (21) 2025903943 (22) 27.08.2025  
 (54) Progressive Patellar Realignment and Rehabilitation System

(71) Envision Sciences Pty Ltd  
 (21) 2025903984 (22) 29.08.2025  
 (54) Management of subjects with prostate cancer

(71) Evans, W.  
 (21) 2025904026 (22) 01.09.2025  
 (54) Puzzle Table with Built-In Cupboard and Removable Door

(71) Fallon, L.  
 (21) 2025903976 (22) 28.08.2025  
 (54) Window and Door Installation Jig

(71) Farahani Holdings Pty Ltd  
 (21) 2025903969 (22) 28.08.2025  
 (54) Continuously Variable Transmission Assembly

(71) FFF Ventures Pty Ltd  
 (21) 2025903987 (22) 29.08.2025  
 (54) FOREARM REHABILITATION DEVICE WITH TORQUE FEEDBACK

(71) Flinders University  
 (21) 2025903942 (22) 27.08.2025  
 (54) VIRAL EPITOPE SEQUENCE AND MODIFICATIONS THEREOF

(71) Fraser, C.  
 (21) 2025903993 (22) 30.08.2025  
 (54) Bottle sterilizer and dryer

(71) FST INNOVATION PTY LTD  
 (21) 2025904024 (22) 01.09.2025  
 (54) SPRINKLER SYSTEM COMPRISING A FLOW METER

(71) FST INNOVATION PTY LTD  
 (21) 2025904025 (22) 01.09.2025  
 (54) SUPERVISED VALVE AND FLUID SUPPLY DEVICE COMPRISING A SUPERVISED VALVE

(71) FUTURE ROOFING AUSTRALIA PTY LTD  
 (21) 2025903950 (22) 27.08.2025  
 (54) CORRUGATED CONSTRUCTION PANELS HAVING EMBEDDED PHOTOVOLTAIC CELLS, AND ASSOCIATED MANUFACTURING PROCESSES

(71) GDE ENGINEERING PTY LTD  
 (21) 2025903973 (22) 28.08.2025  
 (54) PATTERN CONTROL SYSTEM FOR MICROPHONE AND/OR SPEAKER ARRAYS

(71) Global Fluidics Pty Ltd  
 (21) 2025903972 (22) 28.08.2025  
 (54) Fluid management system

(71) Green Tech Ag  
 (21) 2025904000 (22) 31.08.2025  
 (54) Green Tech Ag Chaffer Frame Strengthening Kit

(71) Griggs, B.  
 (21) 2025903994 (22) 31.08.2025  
 (54) Venue-Specific Proximity Matching System for Real-Time Prescriptive Social Connections Erasing Swipe Fatigue

(71) HaemaLogiX Ltd  
 (21) 2025903989 (22) 29.08.2025  
 (54) Lambda myeloma antigen chimeric antigen receptors and uses thereof

(71) HOBBS, B.  
 (21) 2025903924 (22) 27.08.2025  
 (54) Planter box assembly

(71) Hop on Hop off Transit Pty Ltd  
 (21) 2025903929 (22) 27.08.2025  
 (54) INTEGRATED SMART TRANSIT SYSTEM

(71) Housing Shortage Solution  
 (21) 2025903979 (22) 29.08.2025  
 (54) Technology configured to optimize a transportation network for a residential development.

(71) Housing Shortage Solution  
 (21) 2025903992 (22) 30.08.2025  
 (54) Technology configured to optimize energy and water supply for a residential development

(71) Howell, K.  
 (21) 2025903980 (22) 29.08.2025  
 (54) Pipe Slip Repair Coupling with Integrated Exterior Grip and Reinforcement Features

(71) Impetus Animal Welfare Ltd  
 (21) 2025903938 (22) 27.08.2025  
 (54) SmartStun Animal Stunning Training Simulator

(71) IP Reserve Pty Ltd  
 (21) 2025903985 (22) 29.08.2025  
 (54) A SKIMMER BOX ASSEMBLY

(71) JATSEC Pty Ltd  
 (21) 2025903957 (22) 28.08.2025  
 (54) Localised, Air-Gapped AI Systems and Methods for On-Device Model Execution

(71) Kegland Holdings Pty Ltd  
 (21) 2025903953 (22) 28.08.2025  
 (54) A PRESSURE REGULATION MECHANISM FOR A GAS CYLINDER

(71) Khoury, G.  
 (21) 2025903951 (22) 28.08.2025  
 (54) System and Method for Email-Native Orchestration Using Digital Unique Identification Numbers (DUIN) "This invention relates to the generation and use of Digital Unique Identification Numbers (DUIN) derived from email addresses as a secure anchor for con-

Provisional Applications Filed - Name Index cont'd

sent-driven orchestration. It enables privacy-preserving workflows across domains such as billing, finance, government services, telecom, and Web3 applications, leveraging inbox-native parsing, cryptographic hashing, and consent vaulting.

(71) Khoury, G.  
(21) 2025903977 (22) 28.08.2025  
(54) Complete Provisional Patent Submission Package for Toilet Paper 2.0 Holder & Coreless Refill System

(71) Khoury, G.  
(21) 2025904034 (22) 02.09.2025  
(54) DUIN Orchestration System

(71) KneeRecon Pty Ltd  
(21) 2025903970 (22) 28.08.2025  
(54) Methods for retaining PCL tension for knee surgery

(71) le, s.  
(21) 2025903846 (22) 22.08.2025  
(54) modular gate frame and screening system

(71) Li-S Energy Limited  
(21) 2025904039 (22) 02.09.2025  
(54) ELECTROCHEMICAL CELL FRAME

(71) Lister, F.  
(21) 2025903991 (22) 30.08.2025  
(54) "Oxidative Impairment of MRS2 Magnesium Transporter Gates and Regulatory Systems as a Foundational Mechanism for Neurodegeneration: Methods, Diagnostics, and Therapeutics for Alzheimer's Disease."

(71) LK Management Pty Ltd  
(21) 2025903914 (22) 26.08.2025  
(54) A method for the treatment of lignocellulosic materials

(71) Logic Environmental Safe Solutions (Less) Pty Ltd  
(21) 2025903960 (22) 28.08.2025  
(54) Filter assembly

(71) Lozo, Z.  
(21) 2025904041 (22) 02.09.2025  
(54) AN INSTALLATION JIG

(71) Macdonald, J.  
(21) 2025904002 (22) 31.08.2025  
(54) Apparatus for Solar-Driven Nanobubble and Microbubble Production to Reduce Evaporation and Enhance Albedo

(71) Mahoney Wire Joiners Pty Ltd  
(21) 2025903954 (22) 28.08.2025  
(54) CONNECTOR DEVICE

(71) Maramba, J.  
(21) 2025903948 (22) 27.08.2025  
(54) System and Method for Remote Desktop Access Using Augmented Reality Eyewear and Wearable Input Device

(71) Maxfield, D.  
(21) 2025904011 (22) 01.09.2025  
(54) digital copper ionizer for drinking water supplementation with ppm control

(71) Medlock, B.  
(21) 2025904004 (22) 01.09.2025  
(54) Tesselon — A Non-Binary Spatial Logic System for Field-Based Computation

(71) Menon, A.S.; Deshmukh, R.J.  
(21) 2025903921 (22) 26.08.2025  
(54) External Suppression and Containment Apparatus for Electric Vehicle Fires

(71) Milanovic, R.  
(21) 2025904022 (22) 01.09.2025  
(54) Fishing Aid

(71) Minimum Bio Pty Ltd  
(21) 2025903937 (22) 27.08.2025  
(54) METHOD FOR DETERMINING BINDING OF PEPTIDE SEQUENCES

(71) Moukhallalati, T.  
(21) 2025903949 (22) 27.08.2025  
(54) Formulation and Delivery System for a Child-Friendly Nutritional Beverage in Pod-Compatible Format

(71) Mowla, S.J.  
(21) 2025903996 (22) 31.08.2025  
(54) Cancer therapy based on miRNA-miRNA interaction (miR-132, miR-421, and miR-505) Interacting with oncogenic miR-21

(71) Murdoch University  
(21) 2025904030 (22) 01.09.2025  
(54) Biodegradable Adhesive Polymer

(71) Murphy, W.  
(21) 2025903995 (22) 31.08.2025  
(54) Portable Reservoir-Fed Recirculating Shower Accessory with Flush-and-Dry (Non-Plumbed)

(71) Murphy, W.  
(21) 2025904003 (22) 31.08.2025  
(54) ShowerLoop: Portable, Non-Plumbed, Removable Recirculating Shower accessory with Air-Gapped Fresh-Water Top-Ups

(71) New Hotels & Resorts Pty. Ltd.  
(21) 2025903958 (22) 28.08.2025  
(54) AI-Powered Emerging Entity Score (EES) System for Ranking and Prioritizing Newly Launched Entities

(71) NewSouth Innovations Pty Limited  
(21) 2025903941 (22) 27.08.2025  
(54) Method of upgrading biogas

(71) NewSouth Innovations Pty Limited  
(21) 2025903967 (22) 28.08.2025  
(54) Method, apparatus and system for rock mass structural plane analysis

(71) O'Keefe, R.  
(21) 2025903975 (22) 28.08.2025  
(54) Pipe Gap Stop Collar

(71) Orica International Pte Ltd  
(21) 2025904023 (22) 01.09.2025  
(54) A MOUNT

(71) OrigiNova Medical Pty Ltd  
(21) 2025903978 (22) 29.08.2025  
(54) A composition and method for tissue regeneration

(71) Otago Innovation Limited  
(21) 2025904028 (22) 01.09.2025  
(54) NOVEL ANTIMICROBIAL COMPOSITIONS

(71) Palmaya Pty Ltd  
(21) 2025903986 (22) 29.08.2025  
(54) Device

(71) Pasiaka, M.  
(21) 2025904046 (22) 02.09.2025  
(54) Batten and split batten assembly

(71) Peng, H.  
(21) 2025903997 (22) 31.08.2025  
(54) Modular Multi-Compartment Personal Care Delivery System with Replaceable Cartridges, Smart Identification, and Electronic Dispensing Options

(71) POYNTER, S.  
(21) 2025903983 (22) 29.08.2025  
(54) Low-Noise, Energy-Efficient Leaf Blower with Dual Counter-Rotating Axi-

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<p>al Fans and Integrated Acoustic Damp- ing</p> <hr/> <p>(71) PRINT3D INDUSTRIES PTY LTD (21) 2025904006 (22) 01.09.2025 (54) IMPROVED TECHNOLOGY RELAT- ING TO COFFINS AND OTHER ITEMS CONFIGURED TO BE USED FOR CREMATORY PURPOSES, INCLUD- ING METHODS OF MANUFACTURE THEREOF</p> <hr/> <p>(71) PRINT3D INDUSTRIES PTY LTD (21) 2025904007 (22) 01.09.2025 (54) TECHNOLOGY CONFIGURED TO FACILITATE SEED MODIFICATION VIA CEREMONIAL CREMATION PROCESS, INCLUDING COFFINS AND OTHER CREMATION ITEMS, AND METHODS OF MANUFACTURE THEREOF</p> <hr/> <p>(71) ProcellAI Pty Ltd (21) 2025903965 (22) 28.08.2025 (54) Biological cell development device</p> <hr/> <p>(71) Quantec Limited (21) 2025903952 (22) 28.08.2025 (54) AGENTS FOR THE TREATMENT OR PREVENTION OF A SYMP- TOM ASSOCIATED WITH VIRAL INFECTION(S) AND/OR BACTERIAL INFECTION(S)</p> <hr/> <p>(71) RACTECH PTY LTD (21) 2025903927 (22) 27.08.2025 (54) A TRAP</p> <hr/> <p>(71) Raftopoulos, O. (21) 2025903936 (22) 27.08.2025 (54) A Personal Adornment</p> <hr/> <p>(71) Rebecca Parlett (21) 2025903962 (22) 28.08.2025 (54) Integrated Agricultural Microclimate and Water Harvesting System</p> <hr/> <p><b>RESMED ASIA PTE. LTD. see RESMED PTY LTD</b> (21) 2025903956</p> <hr/> <p>(71) RESMED PTY LTD; RESMED ASIA PTE. LTD. (21) 2025903956 (22) 28.08.2025 (54) HEADGEAR STRAP FOR A PATIENT INTERFACE</p> <hr/>	<p>(71) ROBERTSON TECHNOLOGY PTY LTD (21) 2025903982 (22) 29.08.2025 (54) METHOD TO MEASURE THE PER- FORMANCE OF PUMPS</p> <hr/> <p>(71) Rudecki, E. (21) 2025904019 (22) 01.09.2025 (54) BANNER ASSEMBLY</p> <hr/> <p>(71) Saad, T. (21) 2025904032 (22) 01.09.2025 (54) Levitating Radax Generator</p> <hr/> <p>(71) SANS PAPER ASSETS PTY LTD (21) 2025904038 (22) 02.09.2025 (54) Context-Sensitive Multi-Modal Voice Command System for Construc- tion Workflow Automation with Loca- tion-Aware Safety Alert Integration</p> <hr/> <p>(71) Shah, P.G. (21) 2025904012 (22) 01.09.2025 (54) An apparatus and method based on one's complement recoding to per- form scalar multiplication in the ellipt- ical curve cryptography algorithms on the cloud platform to secure cloud in- stances and cloud storage</p> <hr/> <p>(71) Simonsen, T. (21) 2025904001 (22) 31.08.2025 (54) Polyfunction Coding Engine for Multi- Function Execution in Single Program Binary</p> <hr/> <p>(71) Simple Calibration Pty Ltd (21) 2025904009 (22) 01.09.2025 (54) A scale for measuring the mass of pay- loads on moving vehicles</p> <hr/> <p>(71) Sleeping Duck Pty Ltd (21) 2025904031 (22) 01.09.2025 (54) Active bed frame</p> <hr/> <p>(71) smith, s. (21) 2025903905 (22) 25.08.2025 (54) System and Method for Cybersecurity Attack Simulation, Response, and Auto- mated Evidence/Data Reporting</p> <hr/> <p>(71) SofiaSante Pharmaceuticals (Australia) Pty Limited (21) 2025903940 (22) 27.08.2025 (54) Unimolecular Branched Multi-Target Polypeptides</p> <hr/> <p>(71) Solar Sailor Pty Ltd (21) 2025903935 (22) 27.08.2025 (54) An Underwater Recovery Assembly</p>	<hr/> <p>(71) Space Optimiser Pty Ltd (21) 2025903988 (22) 29.08.2025 (54) A METHOD AND SYSTEM FOR RENOVATION</p> <hr/> <p>(71) Spence, B. (21) 2025903925 (22) 27.08.2025 (54) Mobility aid apparatus with floor-level lifting platform</p> <hr/> <p>(71) Splashdown Event Services Pty Ltd (21) 2025903926 (22) 27.08.2025 (54) Modular Container Unit</p> <hr/> <p>(71) STARPHARMA PTY LTD (21) 2025903968 (22) 28.08.2025 (54) DENDRIMER</p> <hr/> <p><b>Steyn, S. see Steyn, S.</b> (21) 2025903946</p> <hr/> <p>(71) Steyn, S.; Steyn, S. (21) 2025903946 (22) 27.08.2025 (54) Biltong Bites Snacks for Schools, Sport events and Entertainment centres (Australia) Title: Biltong-Based Snack Products for Children, Including Pop- corn and Portion Packs, and Methods of Preparation and Packaging</p> <hr/> <p>(71) STW Industries Pty Ltd (21) 2025903920 (22) 26.08.2025 (54) Reinforced Agricultural Wheel with Continuous Bead Seat Support</p> <hr/> <p>(71) Telix Pharmaceuticals (Innovations) Pty Ltd (21) 2025903981 (22) 29.08.2025 (54) Combination treatment for breast can- cer</p> <hr/> <p>(71) Telix Pharmaceuticals (Innovations) Pty Ltd (21) 2025904020 (22) 01.09.2025 (54) Antibody conjugates</p> <hr/> <p>(71) Terragen Holdings Limited (21) 2025903939 (22) 27.08.2025 (54) Probiotic compositions</p> <hr/> <p>(71) The University of Melbourne (21) 2025903930 (22) 27.08.2025 (54) Polymer coated particles</p> <hr/> <p>(71) The University of Sydney (21) 2025903932 (22) 27.08.2025 (54) Eukaryotic gene editing systems</p>
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(71) The University of Sydney  
 (21) 2025904018 (22) 01.09.2025  
 (54) Antigen binding proteins for binding Myc promoter

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(71) Tier Projects Pty Ltd  
 (21) 2025903918 (22) 26.08.2025  
 (54) A closure plate

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(71) Timlex International Pty Ltd  
 (21) 2025903959 (22) 28.08.2025  
 (54) Liquid to Mechanical to Magnetic to Kinetic to Electric Sustainable Power Unit

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(71) Todd, I.  
 (21) 2025903999 (22) 31.08.2025  
 (54) Boundary Code Interfaces for Coherence Computing: Exponential-Logarithmic Duality and Phase Space Protection

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(71) Tuffride Pty Ltd  
 (21) 2025903931 (22) 27.08.2025  
 (54) Trailer coupling with sensor

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(71) TURNER, J.  
 (21) 2025903971 (22) 28.08.2025  
 (54) A Sanitation Method and Apparatus

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(71) Tyne, T.  
 (21) 2025903928 (22) 27.08.2025  
 (54) System and Method for Autonomous, Directive-Based Cognitive Artificial Intelligence with Pseudo-Cognitive Core and Dynamic Knowledge Module. This invention describes SaRA (Self-Aware Reasoning Assistant), a system fundamentally different from chatbots or conversational agents. SaRA operates as a Directive-Based Cognitive System (DBCS) — a new category of artificial intelligence defined by an inbuilt pseudo-cognitive core that performs self-observation, self-looping improvement, and reflective learning, and by native empathy and compassion directives that align outputs to an individual.

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(71) VAXMED Pty Ltd  
 (21) 2025903955 (22) 28.08.2025  
 (54) Flavivirus vaccine compositions and related methods

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(71) Virtual Place Pty Ltd  
 (21) 2025903990 (22) 29.08.2025  
 (54) A METHOD AND SYSTEM FOR PROPERTY MAINTENANCE

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(71) Waterco Ltd  
 (21) 2025904008 (22) 01.09.2025  
 (54) Improved composition for pH control with enhanced cold stability and algacidal efficacy

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(71) Wheeler, A.  
 (21) 2025904042 (22) 02.09.2025  
 (54) Hybrid Power Supply System

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(71) Wiremarkers Australia Pty Ltd  
 (21) 2025903964 (22) 28.08.2025  
 (54) A clamp

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(71) WU, C.H.  
 (21) 2025903947 (22) 27.08.2025  
 (54) Multilingual Automated Translation, Layout, and Publishing System with Integrated Image Placement, Voice Search, and Scalable Workflow

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(71) Zari Research Pty Ltd  
 (21) 2025903912 (22) 26.08.2025  
 (54) Systems and Methods for Authorship Verification, Canonical Consistency, and Symbolic Sealing of Multi-Modal Artefacts

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(71) Zero Trace Bivvy  
 (21) 2025904036 (22) 02.09.2025  
 (54) Lightweight bivvy shelter with integrated inflatable head arch and pump-bag A portable, low-profile bivvy shelter comprising a textile body and an integrated inflatable arch surrounding the head entry, inflated by a compact pump-bag via a one-way valve. The arch spaces an insect net off the user's face. Options include waterproof cover and integrated or separate mattress.



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<b>2025903846</b>	le, s.	<b>2025903982</b>	ROBERTSON TECHNOLOGY PTY LTD
<b>2025903905</b>	smith, s.	<b>2025903983</b>	POYNTER, S.
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<b>2025903913</b>	Byrd IP Pty Ltd	<b>2025903985</b>	IP Reserve Pty Ltd
<b>2025903914</b>	LK Management Pty Ltd	<b>2025903986</b>	Palmaya Pty Ltd
<b>2025903918</b>	Tier Projects Pty Ltd	<b>2025903987</b>	FFF Ventures Pty Ltd
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<b>2025903920</b>	STW Industries Pty Ltd	<b>2025903989</b>	HaemaLogiX Ltd
<b>2025903921</b>	Menon, A.S.; Deshmukh, R.J.	<b>2025903990</b>	Virtual Place Pty Ltd
<b>2025903923</b>	Athanasiadis, N.	<b>2025903991</b>	Lister, F.
<b>2025903924</b>	HOBBS, B.	<b>2025903992</b>	Housing Shortage Solution
<b>2025903925</b>	Spence, B.	<b>2025903993</b>	Fraser, C.
<b>2025903926</b>	Splashdown Event Services Pty Ltd	<b>2025903994</b>	Griggs, B.
<b>2025903927</b>	RACTECH PTY LTD	<b>2025903995</b>	Murphy, W.
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<b>2025903929</b>	Hop on Hop off Transit Pty Ltd	<b>2025903997</b>	Peng, H.
<b>2025903930</b>	The University of Melbourne	<b>2025903998</b>	Avicena Systems Limited
<b>2025903931</b>	Tuffride Pty Ltd	<b>2025903999</b>	Todd, I.
<b>2025903932</b>	The University of Sydney	<b>2025904000</b>	Green Tech Ag
<b>2025903933</b>	Carter, M.	<b>2025904001</b>	Simonsen, T.
<b>2025903934</b>	Blignaut, S.	<b>2025904002</b>	Macdonald, J.
<b>2025903935</b>	Solar Sailor Pty Ltd	<b>2025904003</b>	Murphy, W.
<b>2025903936</b>	Raftopoulos, O.	<b>2025904004</b>	Medlock, B.
<b>2025903937</b>	Minimum Bio Pty Ltd	<b>2025904005</b>	Defined Products Pty Ltd
<b>2025903938</b>	Impetus Animal Welfare Ltd	<b>2025904006</b>	PRINT3D INDUSTRIES PTY LTD
<b>2025903939</b>	Terragen Holdings Limited	<b>2025904007</b>	PRINT3D INDUSTRIES PTY LTD
<b>2025903940</b>	SofiaSante Pharmaceuticals (Australia) Pty Limited	<b>2025904008</b>	Waterco Ltd
<b>2025903941</b>	NewSouth Innovations Pty Limited	<b>2025904009</b>	Simple Calibration Pty Ltd
<b>2025903942</b>	Flinders University	<b>2025904010</b>	Carew-Hopkins, B.
<b>2025903943</b>	Emmett, C.	<b>2025904011</b>	Maxfield, D.
<b>2025903944</b>	Brooks, A.	<b>2025904012</b>	Shah, P.G.
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<b>2025903946</b>	Steyn, S.; Steyn, S.	<b>2025904014</b>	Canning, J.
<b>2025903947</b>	WU, C.H.	<b>2025904015</b>	Aculeus Therapeutics Pty Ltd
<b>2025903948</b>	Maramba, J.	<b>2025904016</b>	Barfoot, J.
<b>2025903949</b>	Moukhallalati, T.	<b>2025904017</b>	Anaxis Pharma Pty Ltd
<b>2025903950</b>	FUTURE ROOFING AUSTRALIA PTY LTD	<b>2025904018</b>	The University of Sydney
<b>2025903951</b>	Khoury, G.	<b>2025904019</b>	Rudecki, E.
<b>2025903952</b>	Quantec Limited	<b>2025904020</b>	Telix Pharmaceuticals (Innovations) Pty Ltd
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<b>2025903954</b>	Mahoney Wire Joiners Pty Ltd	<b>2025904022</b>	Milanovic, R.
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<b>2025903956</b>	RESMED PTY LTD; RESMED ASIA PTE. LTD.	<b>2025904024</b>	FST INNOVATION PTY LTD
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<b>2025903959</b>	Timlex International Pty Ltd	<b>2025904027</b>	Alsonex Pty Ltd
<b>2025903960</b>	Logic Environmental Safe Solutions (Less) Pty Ltd	<b>2025904028</b>	Otago Innovation Limited
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<b>2025903963</b>	Cyplex Pty Limited	<b>2025904031</b>	Sleeping Duck Pty Ltd
<b>2025903964</b>	Wiremarkers Australia Pty Ltd	<b>2025904032</b>	Saad, T.
<b>2025903965</b>	ProcellAI Pty Ltd	<b>2025904033</b>	de Maaijer, A.C.
<b>2025903966</b>	Copper Care Wood Preservatives, Inc.	<b>2025904034</b>	Khoury, G.
<b>2025903967</b>	NewSouth Innovations Pty Limited	<b>2025904035</b>	Chemical Packers Limited
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<b>2025903974</b>	b.box for kids developments Pty Ltd	<b>2025904042</b>	Wheeler, A.
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<b>2025903978</b>	OrigiNova Medical Pty Ltd		
<b>2025903979</b>	Housing Shortage Solution		
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**Complete Applications Filed**

**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 26 Aug 2025 .

- . (\*) Title not in Roman characters
- . (\*\*) Title not given

<hr/> <p>(71) 3T Biosciences, INC. (21) 2025223760 (22) 27.08.2025 (54) Randomized peptide libraries presented by Human Leukocyte Antigens</p> <hr/> <p><b>4Moving Biotech see Institut National de la Sante et de la Recherche Medicale (IN-SERM)</b> (21) 2025223913</p> <hr/> <p>(71) 6 over 6 Vision Ltd. (21) 2025223832 (22) 28.08.2025 (54) Apparatus, System and Method of Determining One or More Parameters of a Lens</p> <hr/> <p>(71) Abbott Diabetes Care Inc. (21) 2025223845 (22) 28.08.2025 (54) Analyte sensors and sensing methods for dual detection of glucose and ethanol</p> <hr/> <p>(71) ABB Schweiz AG (21) 2025223807 (22) 28.08.2025 (54) System and method for determining a gas flow in a gas delivery arrangement</p> <hr/> <p>(71) Ace Vision Group Inc. (21) 2025223914 (22) 29.08.2025 (54) SYSTEMS AND METHODS FOR OCULAR LASER SURGERY AND THERAPEUTIC TREATMENTS</p> <hr/> <p>(71) ADB SAFEGATE BV (21) 2025223930 (22) 01.09.2025 (54) AIRFIELD GROUND LIGHT WITH INTEGRATED LIGHT CONTROLLER THAT EMPLOYS POWERLINE COMMUNICATIONS AND SENSORS</p> <hr/> <p>(71) ADM (Shanghai) Management Co., Ltd. (21) 2025223817 (22) 28.08.2025 (54) Lactiplantibacillus Plantarum JN9, Formulation, Probiotic Composition and Uses Thereof</p> <hr/> <p>(71) Altronic Distributors Pty Ltd (21) 2025226675 (22) 02.09.2025 (54) Horn Speaker Cover Assembly</p> <hr/>	<p>(71) AlveoliX Technologies AG; Universität Bern (21) 2025226677 (22) 02.09.2025 (54) Cell culturing system and method</p> <hr/> <p>(71) Amgen Inc. (21) 2025223741 (22) 26.08.2025 (54) KRAS G12C inhibitors and methods of using the same</p> <hr/> <p><b>Amgen Inc. see Novo Nordisk A/S</b> (21) 2025223812</p> <hr/> <p>(71) Amgen Inc. (21) 2025223948 (22) 01.09.2025 (54) Process For Manipulating The Level Of Glycan Content Of A Glycoprotein</p> <hr/> <p>(71) Anderson, C. (21) 2025223747 (22) 26.08.2025 (54) MODIFIED TORQUE GENERATOR AND METHODS OF USE</p> <hr/> <p>(71) ANGELES THERAPEUTICS, INC. (21) 2025223797 (22) 28.08.2025 (54) Novel platforms for co-stimulation, novel car designs and other enhancements for adoptive cellular therapy</p> <hr/> <p>(71) Angel Group Co., Ltd. (21) 2025223918 (22) 30.08.2025 (54) CAGE SYSTEM, AND CHIP MANAGEMENT SYSTEM</p> <hr/> <p>(71) Angel Group Co., Ltd. (21) 2025226661 (22) 02.09.2025 (54) Game management system</p> <hr/> <p>(71) Apple Inc. (21) 2025223768 (22) 27.08.2025 (54) Cooling Profiles in Wireless Charging Systems</p> <hr/> <p>(71) Apple Inc. (21) 2025223905 (22) 29.08.2025 (54) Systems and methods for multitasking on an electronic device with a touch-sensitive display</p> <hr/> <p>(71) Apple Inc. (21) 2025223909 (22) 29.08.2025</p>	<p>(54) Coupling estimation in wireless charging systems</p> <hr/> <p>(71) Aquanex Pty Ltd (21) 2025223953 (22) 01.09.2025 (54) Dechloro</p> <hr/> <p>(71) Ardelyx, Inc. (21) 2025223854 (22) 28.08.2025 (54) GLYCYRRHETINIC ACID DERIVATIVES FOR USE IN TREATING HYPERKALEMIA</p> <hr/> <p>(71) Aristocrat Technologies, Inc. (21) 2025223781 (22) 27.08.2025 (54) SELECTABLE PERSISTENT UP-GRADES SYSTEMS AND METHODS IN ELECTRONIC GAMING</p> <hr/> <p>(71) Aristocrat Technologies, Inc. (21) 2025226664 (22) 02.09.2025 (54) CASINO PATHFINDING</p> <hr/> <p>(71) Aristocrat Technologies Australia Pty Limited (21) 2025223783 (22) 27.08.2025 (54) GAMING MACHINE FOR CONSECUTIVE ASCENDING AWARDS</p> <hr/> <p>(71) Aristocrat Technologies Australia Pty Limited (21) 2025223788 (22) 27.08.2025 (54) METHODS AND SYSTEMS FOR OVERLAID PAY MODALITIES ON SELECTED SYMBOLS IN GAMING MACHINES</p> <hr/> <p>(71) Aristocrat Technologies Australia Pty Limited (21) 2025223833 (22) 28.08.2025 (54) SYSTEMS AND METHODS FOR PLAYING AN ELECTRONIC GAME INCLUDING A PATH BASED BONUS GAME</p> <hr/> <p>(71) Ascendis Pharma A/S (21) 2025223828 (22) 28.08.2025 (54) Conjugates of an electron-donating nitrogen or tertiary amine comprising compounds</p> <hr/>
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Complete Applications Filed - Name Index cont'd

**Assistance Publique Des Hopitaux De Paris see Institut National de la Sante et de la Recherche Medicale (INSERM)**  
**(21)** 2025223913

**(71)** AstraZeneca AB; Mitsubishi Tanabe Pharma Corporation  
**(21)** 2025223957 **(22)** 02.09.2025  
**(54)** NLRP3 INFLAMMASOME INHIBITORS

**Aurora Operations, Inc. see Aurora Operations, Inc.**  
**(21)** 2025223934

**(71)** Aurora Operations, Inc.; Aurora Operations, Inc.  
**(21)** 2025223934 **(22)** 01.09.2025  
**(54)** SWITCHABLE COHERENT PIXEL ARRAY FOR FREQUENCY MODULATED CONTINUOUS WAVE LIGHT DETECTION AND RANGING

**(71)** Ausco Products, Inc.  
**(21)** 2025223890 **(22)** 29.08.2025  
**(54)** Pump kit for spring applied hydraulic release brake

**AUSTRALASIA IP PTY LTD see DUG TECHNOLOGY (AUSTRALIA) PTY LTD.**  
**(21)** 2025223917

**(71)** Avent, Inc.  
**(21)** 2025223867 **(22)** 29.08.2025  
**(54)** SYSTEM AND METHOD FOR AN IMPROVED GRAPHICAL USER INTERFACE THAT PROVIDES INDEPENDENT CONTROL OF MULTIPLE RADIOFREQUENCY PROBES DURING AN ABLATION PROCEDURE

**(71)** BAKER HUGHES OILFIELD OPERATIONS LLC  
**(21)** 2025223859 **(22)** 29.08.2025  
**(54)** Fluid inlet sleeves for improving fluid flow in earth-boring tools, earth-boring tools having fluid inlet sleeves, and related methods

**(71)** BEIJING JINGDONG ZHENSHI INFORMATION TECHNOLOGY CO., LTD.  
**(21)** 2025223750 **(22)** 26.08.2025  
**(54)** SUPPLIES INVENTORY METHOD AND APPARATUS, AND DEVICE AND STORAGE MEDIUM

**(71)** BEIJING ROBOROCK TECHNOLOGY CO., LTD.  
**(21)** 2025223767 **(22)** 27.08.2025  
**(54)** Line laser module and self-moving device

**(71)** BioNTech Research and Development, Inc.  
**(21)** 2025223771 **(22)** 27.08.2025  
**(54)** Nucleic acids encoding human antibodies to Sialyl-Lewisa

**(71)** BioNTech SE; TRON-Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg-Universität Mainz Gemeinnützige GmbH  
**(21)** 2025223777 **(22)** 27.08.2025  
**(54)** Predicting immunogenicity of T cell epitopes

**(71)** Blackhawk Network, Inc.  
**(21)** 2025223842 **(22)** 28.08.2025  
**(54)** A system for payment via electronic wallet

**(71)** Blastone Technology Pty Ltd  
**(21)** 2025223894 **(22)** 29.08.2025  
**(54)** Abrasive Flow Rate Monitoring for Blasting Systems

**(71)** Block, Inc.  
**(21)** 2025223765 **(22)** 27.08.2025  
**(54)** Systems and methods for managing cryptocurrency

**(71)** BOSS EMBOSSERS PTY LTD  
**(21)** 2025223947 **(22)** 01.09.2025  
**(54)** FOOD EMULATION MATERIAL AND METHODS

**(71)** Breville USA, Inc.  
**(21)** 2025223898 **(22)** 29.08.2025  
**(54)** Cooking device

**(71)** Brown, W.  
**(21)** 2025223774 **(22)** 27.08.2025  
**(54)** A MOWER ATTACHMENT

**(71)** Brumby Finance Pty. Ltd.  
**(21)** 2025223895 **(22)** 29.08.2025  
**(54)** Payment Event Reward System

**(71)** Carbon Nova Pty Ltd  
**(21)** 2025223866 **(22)** 29.08.2025  
**(54)** MATERIAL FOR ADSORBING CARBON DIOXIDE AND PREPARATION METHOD THEREOF

**(71)** Celcuity Inc.  
**(21)** 2025223785 **(22)** 27.08.2025  
**(54)** 1-(4-[[4-(Dimethylamino)piperidin-1-yl]carbonyl]phenyl)-3-[4-(4,6-dimorpholin-4-yl-1,3,5-triazin-2-yl)phenyl]urea (gedatolisib) and its combinations for use in the treatment of cancer

**(71)** CFPH, LLC  
**(21)** 2025223778 **(22)** 27.08.2025  
**(54)** ZONE DEPENDENT PAYOUT PERCENTAGE

**(71)** CHEVRON ORONITE COMPANY LLC; CHEVRON U.S.A. INC.  
**(21)** 2025226672 **(22)** 02.09.2025  
**(54)** Aryloxy alkylamines as fuel additives for reducing injector fouling in direct injection spark ignition gasoline engines

**CHEVRON U.S.A. INC. see CHEVRON ORONITE COMPANY LLC**  
**(21)** 2025226672

**(71)** ClearFlow, Inc.  
**(21)** 2025223782 **(22)** 27.08.2025  
**(54)** Medical tube clearance device

**(71)** Contera Pharma A/S  
**(21)** 2025223847 **(22)** 28.08.2025  
**(54)** Pulsatile drug delivery system for treating morning akinesia

**(71)** Crown Packaging Technology, Inc.  
**(21)** 2025223870 **(22)** 29.08.2025  
**(54)** Can body decorator having a mandrel pre-spin assembly and infeed improvements

**(71)** D&D PHARMATECH INC.  
**(21)** 2025223792 **(22)** 27.08.2025  
**(54)** ORAL FORMULATION OF BIOLOGICALLY ACTIVE MATERIAL CONJUGATE HAVING BIOTIN MOIETY, FATTY ACID MOIETY, OR COMBINATION THEREOF COUPLED THERETO

**(71)** DeckSealRevival Holdings Pty Ltd  
**(21)** 2025223891 **(22)** 29.08.2025  
**(54)** DeckSeal Gap Mate

**(71)** Deere & Company  
**(21)** 2025223762 **(22)** 27.08.2025  
**(54)** Unloading control based on identified hopper door position

**(71)** Deere & Company  
**(21)** 2025223943 **(22)** 01.09.2025  
**(54)** Systems, methods and non-transitory computer-readable media for closed loop sprayer control

**(71)** DEKA Products Limited Partnership  
**(21)** 2025223864 **(22)** 29.08.2025  
**(54)** USER CONTROL DEVICE FOR A TRANSPORTER

Complete Applications Filed - Name Index cont'd

(71) Dentsply Sirona Inc.  
(21) 2025223755 (22) 27.08.2025  
(54) DENTAL HANDPIECE

(71) Devers, D.  
(21) 2025223936 (22) 01.09.2025  
(54) Optical Transceiver

(71) Dexin Corporation  
(21) 2025226660 (22) 02.09.2025  
(54) Mouse

(71) Dosebuddy Limited  
(21) 2025226670 (22) 02.09.2025  
(54) SYRINGE AND CAP

(71) DRAEGER SAFETY AG & CO. KGAA  
(21) 2025223897 (22) 29.08.2025  
(54) ANALYZER FOR MEASURING A CONCENTRATION, COMPRISING A VALVE AND A FILTER

(71) DUG TECHNOLOGY (AUSTRALIA) PTY LTD.; AUSTRALASIA IP PTY LTD  
(21) 2025223917 (22) 29.08.2025  
(54) COMBINED QUASI-NEWTON AND ADAPTIVE GRADIENT OPTIMIZATION SCHEME USED IN SEISMIC DATA PROCESSING

(71) Duress IP Pty Ltd  
(21) 2025223834 (22) 28.08.2025  
(54) SYSTEM AND METHOD FOR AUTOMATED AGGRESSION DETECTION USING AUDIO-VISUAL ANALYSIS

(71) Eagle Pharmaceuticals, Inc.  
(21) 2025223868 (22) 29.08.2025  
(54) PEMETREXED FORMULATIONS

**Editas Medicine, Inc. see Juno Therapeutics, Inc.**  
(21) 2025223904

(71) empirical innovations, inc.  
(21) 2025223776 (22) 27.08.2025  
(54) HEATING MEDIUM INJECTORS AND INJECTION METHODS FOR HEATING FOODSTUFFS

(71) EPM (IP), Inc.; Yissum Research Development Company of the Hebrew University of Jerusalem Ltd.  
(21) 2025223761 (22) 27.08.2025  
(54) Cannabinoid acid ester compositions and uses thereof

(71) Epsitau Ltd.  
(21) 2025223790 (22) 27.08.2025

(54) LIGHTWEIGHT ASYMMETRIC MAGNET ARRAYS WITH MIXED-PHASE MAGNET RINGS

(71) Ergon Energy On The Go Pty Ltd  
(21) 2025223946 (22) 01.09.2025  
(54) CarbonChain: End-to-End Method and System for Measuring Renewable Energy Production and CO# Footprint Reduction, Private Blockchain Tokenization, Cross-Chain Transfer, Token Burning, and Public NFT-Based Carbon Credit Certification with Integrated Marketplace, Retirement, and Audit Transparency

**Eureka LLC see Hu, Y.**  
(21) 2025223926

(71) Exact Sciences Corporation  
(21) 2025223821 (22) 28.08.2025  
(54) Multiplex amplification detection assay and isolation and detection of DNA from plasma

(71) Excalibur Pharmaceuticals, Inc.  
(21) 2025223809 (22) 28.08.2025  
(54) SEMI-SOLID, OIL-BASED PHARMACEUTICAL COMPOSITIONS CONTAINING PIRFENIDONE FOR APPLICATION IN TISSUE REPAIR

(71) Expro North Sea Limited  
(21) 2025223929 (22) 01.09.2025  
(54) DOWNHOLE OPERATIONS

(71) Fate Therapeutics, Inc.  
(21) 2025223849 (22) 28.08.2025  
(54) Immunotherapies using enhanced iPSC derived effector cells

(71) FEI Company  
(21) 2025223820 (22) 28.08.2025  
(54) Foil lens correctors, charged particle microscope systems including the same, and associated methods

(71) Ferring B.V.  
(21) 2025223889 (22) 29.08.2025  
(54) Miniaturised device for automated manufacture of pharmaceutical compositions, and associated method

(71) FIGMA, INC.  
(21) 2025223787 (22) 27.08.2025  
(54) CODE-DEFINED VISUAL CONTENT IN COMPUTING SYSTEMS

(71) FIGMA, INC.  
(21) 2025223938 (22) 01.09.2025

(54) MODIFYING CODE-DEFINED VISUAL ASSETS IN COMPUTING SYSTEMS

(71) Fisher & Paykel Healthcare Limited  
(21) 2025223830 (22) 28.08.2025  
(54) CONNECTORS FOR CONDUITS

(71) Fisher & Paykel Healthcare Limited  
(21) 2025223875 (22) 29.08.2025  
(54) PRESSURE REGULATING VALVE

(71) Fisher & Paykel Healthcare Limited  
(21) 2025223908 (22) 29.08.2025  
(54) TUBES FOR MEDICAL SYSTEMS

(71) Fisher & Paykel Healthcare Limited  
(21) 2025223942 (22) 01.09.2025  
(54) HUMIDIFICATION APPARATUS

(71) FISHER & PAYKEL HEALTHCARE LIMITED  
(21) 2025223822 (22) 28.08.2025  
(54) HEADGEAR FOR RESPIRATORY INTERFACES

(71) FUJIFILM Diosynth Biotechnologies UK Limited  
(21) 2025223955 (22) 02.09.2025  
(54) APPARATUS FOR PROCESSING A LIQUID COMPRISING A TARGET SUBSTANCE

(71) Fundació Hospital Universitari Vall d'hebron - Institut de Recerca  
(21) 2025223935 (22) 01.09.2025  
(54) Markers of endometrial cancer

(71) Genentech, Inc.  
(21) 2025226668 (22) 02.09.2025  
(54) Anti-CD3 antibodies and methods of use

(71) GeoQuest Systems B.V.  
(21) 2025223931 (22) 01.09.2025  
(54) Geophysical deep learning

(71) Georg Fischer Rohrleitungssysteme AG  
(21) 2025223879 (22) 29.08.2025  
(54) Weld seam assessment

(71) GigaGen, Inc.  
(21) 2025223772 (22) 27.08.2025  
(54) Anti-CTLA-4 binding proteins and methods of use thereof

(71) Gilead Sciences, Inc.  
(21) 2025223786 (22) 27.08.2025  
(54) Integrase inhibitors for the prevention of HIV

Complete Applications Filed - Name Index cont'd

(71) Green, D. (21) 2025223851 (22) 28.08.2025 (54) Pop-top Roof Assistance Accessory	(71) HyperStealth Biotechnology Corporation (21) 2025223888 (22) 29.08.2025 (54) INTERCONNECTED LENS MATERIALS ARRANGED AS LENS SHEETS FOR IMPROVED CAMOUFLAGE	(71) Idy Pty Ltd (21) 2025223806 (22) 28.08.2025 (54) Systems and Methods for Fraud-Proof Identity Verification in AI Persona Insurance and Estate Workflows
(71) GUANGDONG ODORKEY MANUFACTURING CO., LTD. (21) 2025223951 (22) 01.09.2025 (54) DEHUMIDIFYING BOX FACILITATING AIR CIRCULATION	(71) ICU Medical, Inc. (21) 2025223838 (22) 27.08.2025 (54) ANTIMICROBIAL DEVICE COMPRISING A CAP WITH RING AND INSERT	(71) Idy Pty Ltd (21) 2025223808 (22) 28.08.2025 (54) Systems and Methods for Controlled Resurrection and Re-Activation of AI Personas in Insurance and Estate Workflows
(71) Guardant Health, Inc. (21) 2025226669 (22) 02.09.2025 (54) Microsatellite instability detection in cell-free DNA	(71) Idy Pty Ltd (21) 2025223794 (22) 28.08.2025 (54) Systems and Methods for Integrating Digital Persona Activation with Life Insurance Policy Triggers and Benefit Administration	(71) Idy Pty Ltd (21) 2025223810 (22) 28.08.2025 (54) Systems and Methods for Multi-Lineage Family Graph Inheritance of AI Personas in Insurance and Estate Workflows
(71) Harbin Engineering University (21) 2025223744 (22) 26.08.2025 (54) Simulation test system and method for combined gas turbine and gas turbine (COGAG) power plant	(71) Idy Pty Ltd (21) 2025223795 (22) 28.08.2025 (54) Systems and Methods for Generating Life Insurance Risk Ratings Using Digital Persona Data Including Replica Personas	(71) Idy Pty Ltd (21) 2025223813 (22) 28.08.2025 (54) Systems and Methods for Consent and Licensing of AI Personas in Insurance and Estate Workflows
(71) Hayllar, M.; Kumar, S. (21) 2025223949 (22) 01.09.2025 (54) THERAPEUTIC DEVICE FOR IMPROVING CIRCULATION	(71) Idy Pty Ltd (21) 2025223796 (22) 28.08.2025 (54) Systems and Methods for AI-Mediated Guardianship of Financial Assets Post-Mortem with Multi-Jurisdiction Oversight and Automated Classification	(71) Idy Pty Ltd (21) 2025223815 (22) 28.08.2025 (54) Systems and Methods for Neural Blending of Multi-Source Data to Construct AI Personas in Insurance and Estate Workflows
(71) Heraeus Medical GmbH (21) 2025223952 (22) 01.09.2025 (54) APPARATUS FOR COATING IMPLANTS AND ASSOCIATED METHOD	(71) Idy Pty Ltd (21) 2025223798 (22) 28.08.2025 (54) Systems and Methods for Multi-Jurisdiction Compliance and Audit Orchestration in AI-Mediated Insurance and Estate Workflows	(71) Idy Pty Ltd (21) 2025223818 (22) 28.08.2025 (54) Systems and Methods for Cross-Jurisdictional Digital Executors Managing AI Personas in Insurance and Estate Workflows
(71) Horizon Global Americas Inc. (21) 2025223881 (22) 29.08.2025 (54) Non-invasive testing device	(71) Idy Pty Ltd (21) 2025223799 (22) 28.08.2025 (54) Systems and Methods for Trauma-Aware Interaction control in AI Persona Platforms for Legacy and Continuity Workflows	(71) Idy Pty Ltd (21) 2025223916 (22) 29.08.2025 (54) Systems and Methods for Behaviour-Triggered Binding Beneficiary Orchestration with Remote Witnessing and Trustee-Verified Activation
(71) Hosokawa Yoko Co., Ltd. (21) 2025223758 (22) 27.08.2025 (54) SPOUT UNIT, PACKAGE, AND CONTENTS-FILLED PACKAGE	(71) Idy Pty Ltd (21) 2025223801 (22) 28.08.2025 (54) Systems and Methods for Generational Continuity of AI Personas in Insurance and Estate Workflows	(71) Idy Pty Ltd (21) 2025223920 (22) 30.08.2025 (54) Cross-Border / Multilingual Legacy Continuity
(71) Howmedica Osteonics Corp. (21) 2025223857 (22) 29.08.2025 (54) Pre-operative planning of surgical revision procedures for orthopedic joints	(71) Idy Pty Ltd (21) 2025223803 (22) 28.08.2025 (54) Systems and Methods for Event-Triggered Emotional Capsule Delivery in AI Persona Insurance and Estate Workflows	(71) Idy Pty Ltd (21) 2025223921 (22) 30.08.2025 (54) AI Persona Continuity System Integrated with Financial Settlement Triggers
(71) Hu, Y.; Eureka LLC (21) 2025223926 (22) 01.09.2025 (54) Height Adjustable Pet Bathtub		(71) Idy Pty Ltd (21) 2025223922 (22) 30.08.2025 (54) System for Psychological Safeguards in Digital Legacy Personas
(71) Huawei Technologies Co., Ltd. (21) 2025223816 (22) 28.08.2025 (54) Delay estimation method and apparatus		
(71) Hudson, A. (21) 2025223775 (22) 27.08.2025 (54) Connection systems		

Complete Applications Filed - Name Index cont'd

(71) Idy Pty Ltd  
(21) 2025223923 (22) 30.08.2025  
(54) System for Trust Ledger and Reputation Scoring of AI Persona Outputs

(71) Idy Pty Ltd  
(21) 2025223924 (22) 30.08.2025  
(54) System for Intergenerational Merging and Inheritance of AI Personas

(71) Idy Pty Ltd  
(21) 2025223925 (22) 30.08.2025  
(54) System for Dynamic Estate Compliance of AI Persona Continuity Outputs

(71) IGT  
(21) 2025223940 (22) 01.09.2025  
(54) System and Method for Wagering on Virtual Elements Overlaying a Sports Betting Field

(71) Illinois Tool Works Inc.  
(21) 2025226662 (22) 02.09.2025  
(54) Fastener

(71) Immusoft Corporation  
(21) 2025223865 (22) 29.08.2025  
(54) B cells genetically engineered to secrete follistatin and methods of using the same to treat follistatin-related diseases, conditions, disorders and to enhance muscle growth and strength

(71) Infusion Innovations Pty Ltd  
(21) 2025223748 (22) 26.08.2025  
(54) Assemblies, Systems and Methods for Programming Medical Devices

(71) Ingram Micro Inc.  
(21) 2025223770 (22) 27.08.2025  
(54) SYSTEMS AND METHODS FOR END USER VIEW B2B/B2C MODE

(71) INIXIO LIMITED  
(21) 2025223915 (22) 29.08.2025  
(54) Prostheses

(71) Institut National de la Sante et de la Recherche Medicale (INSERM); Assistance Publique Des Hopitaux De Paris; Sorbonne Université; 4Moving Biotech  
(21) 2025223913 (22) 29.08.2025  
(54) COMPOSITION AND METHODS FOR REGULATING CHONDROCYTE PROLIFERATION AND INCREASING OF CARTILAGE MATRIX PRODUCTION

(71) Integrity Implants Inc.  
(21) 2025223907 (22) 29.08.2025  
(54) Expandable intervertebral fusion device

(71) Invuity, Inc.  
(21) 2025223885 (22) 29.08.2025  
(54) Electrosurgical device, methods of making an electrosurgical device, and methods of using an electrosurgical device

(71) i-SENS, Inc  
(21) 2025223826 (22) 28.08.2025  
(54) SENSOR APPLICATOR ASSEMBLY FOR CONTINUOUS GLUCOSE MONITORING SYSTEM

(71) Island Technology, Inc.  
(21) 2025223773 (22) 27.08.2025  
(54) Enforcement of enterprise browser use

(71) Janssen Biotech, Inc.  
(21) 2025223811 (22) 28.08.2025  
(54) Safe and effective method of treating psoriatic arthritis with anti-IL23 specific antibody

(71) JCM American Corporation  
(21) 2025220907 (22) 26.08.2025  
(54) CURRENCY TRACKING AND ACCOUNTING SYSTEMS

(71) JIANGSU JUEKE CNC TOOL CO.,LTD  
(21) 2025223855 (22) 28.08.2025  
(54) A Drill Bit Storage Box

(71) Joy Global Underground Mining LLC  
(21) 2025223883 (22) 29.08.2025  
(54) Chain conveyor

(71) Juno Therapeutics, Inc.; Editas Medicine, Inc.  
(21) 2025223904 (22) 29.08.2025  
(54) Methods, compositions and components for CRISPR-CAS9 editing of TGF- $\beta$ 2 in T cells for immunotherapy

(71) Kabushiki Kaisha Toshiba  
(21) 2025223800 (22) 28.08.2025  
(54) Method of operating electrochemical reaction device and electrochemical reaction device

(71) Kabushiki Kaisha Toshiba; Shinshu University  
(21) 2025223871 (22) 29.08.2025  
(54) Method for proliferating CAR-T cells, and lipid particles and kit for use in the method

(71) Kabushiki Kaisha Toshiba; Shinshu University  
(21) 2025223874 (22) 29.08.2025

(54) Therapeutic effect enhancer for enhancing effect of CAR-T therapy

(71) Kabushiki Kaisha Toshiba  
(21) 2025223937 (22) 01.09.2025  
(54) Electrode, membrane electrode assembly, electrochemical cell, stack, and electrolyzer

Keeler, J.M. see Panosian, M.H.  
(21) 2025223824

Keeler, J.M. see Panosian, M.H.  
(21) 2025223831

(71) Klujuce, U.  
(21) 2025223911 (22) 29.08.2025  
(54) BIRD HOUSE POT PLANT

(71) KPR U.S., LLC  
(21) 2025223793 (22) 27.08.2025  
(54) Delivery of fluid from a syringe

(71) KRISH CAPITAL PTY LTD  
(21) 2025223751 (22) 26.08.2025  
(54) Computing system and method for generating financial instruments portfolio

(71) Kruzer PTY LTD  
(21) 2025223769 (22) 27.08.2025  
(54) SYSTEM AND METHOD FOR FACILITATING BUYING AND/OR RENTAL OF ONE OR MORE VEHICLES FOR RECREATIONAL PURPOSES

Kumar, S. see Hayllar, M.  
(21) 2025223949

(71) Lindsey FireSense, LLC  
(21) 2025223861 (22) 29.08.2025  
(54) ELECTRICAL POWER LINE MOUNTED FIRE WARNING SYSTEM

(71) LNW Gaming, Inc.  
(21) 2025223791 (22) 27.08.2025  
(54) Automated mandatory account-based gaming table system

(71) LONGI SOLAR TECHNOLOGY (TAIHZHOU) CO., LTD.  
(21) 2025223899 (22) 29.08.2025  
(54) Solar Cell Sheet, Solar Cell Slice And Photovoltaic Assembly

(71) MAKO Surgical Corp.  
(21) 2025223863 (22) 29.08.2025  
(54) System and method for manipulating an anatomy

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(71) MAKO Surgical Corp.  
(21) 2025223893 (22) 29.08.2025  
(54) Techniques for patient-specific morphing of virtual boundaries

(71) Media Cart Holdings, Inc.  
(21) 2025223959 (22) 02.09.2025  
(54) Media enabled shopping cart system and associated methods

(71) Merck Patent GmbH  
(21) 2025220908 (22) 26.08.2025  
(54) Fused imidazopyridines as reversible inhibitors of Bruton's Tyrosine Kinase (BTK)

(71) Messenger, O.  
(21) 2025223901 (22) 29.08.2025  
(54) A composter

(71) Midland Steel Reinforcement Supplies Limited  
(21) 2025223766 (22) 27.08.2025  
(54) REINFORCING FRAMEWORK AND SLAB DESIGN

(71) MiraDx  
(21) 2025223839 (22) 28.08.2025  
(54) Biomarkers for predicting tumor response to and toxicity of immunotherapy

(71) MITEK HOLDINGS, INC.  
(21) 2025223840 (22) 28.08.2025  
(54) AUTOMATED TRUSS MANUFACTURING AND ASSEMBLY SYSTEM

(71) MITEK HOLDINGS, INC.  
(21) 2025223841 (22) 28.08.2025  
(54) AUTOMATED TRUSS MANUFACTURING AND ASSEMBLY SYSTEM

**Mitsubishi Tanabe Pharma Corporation see AstraZeneca AB**  
(21) 2025223957

**Monash University see Murdoch University**  
(21) 2025223886

(71) Monsanto Technology LLC  
(21) 2025223944 (22) 01.09.2025  
(54) Seed sorting

(71) Montanuniversität Leoben  
(21) 2025223779 (22) 27.08.2025  
(54) Adapter for rock or building anchor system

(71) Murdoch University; Monash University  
(21) 2025223886 (22) 29.08.2025  
(54) Modulators and modulation of the receptor for advanced glycation end-products RNA

(71) NEXTBIOMEDICAL CO., LTD.  
(21) 2025223902 (22) 29.08.2025  
(54) Dispenser device for spraying powder

(71) Ningbo CasualWay Leisure Products Co., Ltd.  
(21) 2025223789 (22) 27.08.2025  
(54) A COLLAPSIBLE STRUCTURE FOR SHELTER

(71) Nippon Fiber Corporation  
(21) 2025223835 (22) 28.08.2025  
(54) FLAKE-LIKE COMPOSITION AND FLAKE-LIKE COMPOSITION PRODUCTION METHOD

(71) Novo Nordisk A/S; Amgen Inc.  
(21) 2025223812 (22) 28.08.2025  
(54) Human CD30 ligand antigen binding proteins

(71) One Stop Systems, Inc.  
(21) 2025223906 (22) 29.08.2025  
(54) Vehicle situational awareness architecture

(71) Outcomes4Me, Inc.  
(21) 2025223858 (22) 29.08.2025  
(54) Providing personalized health care information and treatment recommendations

(71) Panosian, M.H.; Keeler, J.M.  
(21) 2025223824 (22) 28.08.2025  
(54) Stackable storage containers with stacking self-lock

(71) Panosian, M.H.; Keeler, J.M.  
(21) 2025223831 (22) 28.08.2025  
(54) Reinforced center latch for storage box lid

(71) PharmaBio Corporation  
(21) 2025223745 (22) 26.08.2025  
(54) Production device, system, and method

(71) PYFOI HOLDINGS LIMITED  
(21) 2025223927 (22) 01.09.2025  
(54) Information retrieval system, method and user interface

(71) Regeneron Pharmaceuticals, Inc.  
(21) 2025223742 (22) 26.08.2025  
(54) Rifamycin analogs and antibody-drug conjugates thereof

(71) Regeneron Pharmaceuticals, Inc.  
(21) 2025223877 (22) 29.08.2025  
(54) SERUM-FREE CELL CULTURE MEDIUM

(71) Regeneron Pharmaceuticals, Inc.  
(21) 2025226667 (22) 02.09.2025  
(54) METHODS FOR QUANTIFYING IL-33

(71) Robert Sackstein  
(21) 2025223823 (22) 28.08.2025  
(54) Glycoengineering of E-selectin ligands

(71) Route 92 Medical, Inc.  
(21) 2025223805 (22) 28.08.2025  
(54) ASPIRATION CATHETER SYSTEMS AND METHODS OF USE

(71) Saferoads Pty Ltd  
(21) 2025223882 (22) 29.08.2025  
(54) Bollard Assembly

(71) Saferoads Pty Ltd  
(21) 2025223892 (22) 29.08.2025  
(54) Bollard assembly

(71) Salk Institute for Biological Studies  
(21) 2025223956 (22) 02.09.2025  
(54) ONCOLYTIC ADENOVIRUS COMPOSITIONS WITH ENHANCED REPLICATION PROPERTIES

(71) Sandvik Mining and Construction G.m.b.H.  
(21) 2025223757 (22) 27.08.2025  
(54) HEADPLATE AND A DRILLING RIG INCLUDING THE SAME

(71) Sandvik Mining and Construction Oy  
(21) 2025223756 (22) 27.08.2025  
(54) ROCK BOLTING RIG AND METHOD FOR ROCK REINFORCING

(71) Schneider Electric (Australia) Pty Limited  
(21) 2025223819 (22) 28.08.2025  
(54) IMPROVEMENTS IN SWITCHED ELECTRICAL OUTLETS AND SWITCH PLATES

(71) SEAKR Engineering, LLC  
(21) 2025223827 (22) 28.08.2025  
(54) SCALABLE PARTITIONING OF FUNCTIONS WITHIN APPLICATION SPE-

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(71) Seminis Vegetable Seeds, Inc. (21) 2025226671 (22) 02.09.2025 (54) DISEASE RESISTANCE LOCI IN ONION	(71) Stryker Corporation (21) 2025223887 (22) 29.08.2025 (54) A protective apparel system with a lens assembly	(71) The Boeing Company (21) 2025223848 (22) 28.08.2025 (54) Apparatus, system, and method for pressure altitude-compensating breath-controlled oxygen release
(71) Shaanxi Guantu Biotechnology Co., Ltd. (21) 2025223852 (22) 28.08.2025 (54) FUSION PROTEIN WITH HIGH REPAIR CAPACITY, PREPARATION METHOD AND USE THEREOF	(71) Sunshine Lake Pharma Co., Ltd. (21) 2025223814 (22) 28.08.2025 (54) A polypeptide molecule and application thereof	(71) The Regents of the University of California (21) 2025223802 (22) 28.08.2025 (54) CELLS DIFFERENTIATED FROM IMMUNOENGINEERED PLURIPOTENT CELLS
(71) SHANGHAI POWER STATION CO., LTD. (21) 2025223873 (22) 29.08.2025 (54) ENERGY STORAGE DEVICES AND METHODS	(71) Sway Innovation Co. (21) 2025223939 (22) 01.09.2025 (54) Compostable seaweed-based compositions, and associated systems and methods	(71) The United States of America, as represented by the Secretary, Department of Health and Human Services (21) 2025223746 (22) 26.08.2025 (54) CANCER TREATMENT UTILIZING PRE-EXISTING MICROBIAL IMMUNITY
(71) Shermac Australia Pty Ltd (21) 2025220909 (22) 26.08.2025 (54) Fluid dispensing from service vehicle	(71) Tastemakers, LLC (21) 2025223780 (22) 27.08.2025 (54) HOME ARCADE SYSTEM	(71) The University of Bristol (21) 2025223941 (22) 01.09.2025 (54) COMPOUNDS
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<b>Shinshu University see Kabushiki Kaisha Toshiba</b> (21) 2025223874	(71) Techtronic Cordless GP (21) 2025223850 (22) 28.08.2025 (54) Hard surface cleaning device and nozzle assembly thereof	(71) Toyota Jidosha Kabushiki Kaisha (21) 2025223903 (22) 29.08.2025 (54) Method
(71) SLINGSHOT AEROSPACE, INC. (21) 2025223856 (22) 29.08.2025 (54) SYSTEM AND METHOD FOR SPACE OBJECT DETECTION IN DAYTIME SKY IMAGES	(71) Tencent America LLC (21) 2025223950 (22) 01.09.2025 (54) Signaling of Coding Tools for Encoding a Video Component as Monochrome Video	(71) Toyota Jidosha Kabushiki Kaisha (21) 2025226666 (22) 02.09.2025 (54) Energy storage cell and energy storage device
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(71) Spa Electrics Pty Ltd (21) 2025223763 (22) 27.08.2025 (54) Retractable power cable for nicheless pool light	(71) The Board of Regents of the University of Texas System (21) 2025223878 (22) 29.08.2025 (54) Compositions and methods for organ specific delivery of nucleic acids	<b>TRON-Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg-Universität Mainz Gemeinnutzige GmbH see BioNTech SE</b> (21) 2025223777
(71) Spark, I. (21) 2025223958 (22) 02.09.2025 (54) High Productivity Road Train	(71) The Boeing Company (21) 2025223844 (22) 28.08.2025 (54) Method of forming a composite preform	(71) Two Blades Foundation (21) 2025223860 (22) 29.08.2025 (54) Wheat stripe rust resistance genes and methods of use
(71) Stryker Corporation (21) 2025223869 (22) 29.08.2025 (54) System and methods for performing surgery on a patient at a target site defined by a virtual object	(71) The Boeing Company (21) 2025223846 (22) 28.08.2025	<b>Universität Bern see AlveoliX Technologies AG</b> (21) 2025226677



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(71) University of Washington  
 (21) 2025223912 (22) 29.08.2025  
 (54) Self-assembling nanostructure vaccines

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(71) Upside Foods, Inc.  
 (21) 2025226665 (22) 02.09.2025  
 (54) Apparatuses and systems for preparing a meat product

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(71) Vaxxas Pty Limited  
 (21) 2025223825 (22) 28.08.2025  
 (54) Microprojection array applicator and method

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(71) VDYNE, Inc.  
 (21) 2025223945 (22) 01.09.2025  
 (54) PROXIMAL TAB FOR SIDE-DELIVERED TRANSCATHETER HEART VALVES AND METHODS OF DELIVERY

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**Vertemax Group Ltd see Worxsafe AB**  
 (21) 2025223853

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(71) Vertiv Corporation  
 (21) 2025223932 (22) 01.09.2025  
 (54) Economizer cooling temperature protection

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(71) Vivasor, Inc.  
 (21) 2025223880 (22) 29.08.2025  
 (54) Method for treating osteoarthritis pain by administering resiniferatoxin

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(71) voestalpine SIGNALING Siershahn GmbH  
 (21) 2025223933 (22) 01.09.2025  
 (54) ELASTICALLY MOUNTED DETECTOR FOR TOWED EQUIPMENT

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(71) Voltu Motor, Inc.  
 (21) 2025223910 (22) 29.08.2025  
 (54) Electric vehicle

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(71) Volvo Truck Corporation  
 (21) 2025223764 (22) 27.08.2025  
 (54) Motion control for vehicle combinations

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(71) Washington University  
 (21) 2025226659 (22) 02.09.2025  
 (54) Multiplexed assay and methods of use thereof

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(71) Wavegate Corporation  
 (21) 2025223862 (22) 29.08.2025  
 (54) IPG and Header Combination

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(71) WestRock Packaging Systems, LLC  
 (21) 2025223896 (22) 29.08.2025  
 (54) Carton and blank therefor

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(71) William Marsh Rice University  
 (21) 2025223784 (22) 27.08.2025  
 (54) Flash joule heating synthesis method and compositions thereof

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(71) WONDERLAND SWITZERLAND AG  
 (21) 2025223876 (22) 29.08.2025  
 (54) BASE ASSEMBLY AND CHILD SAFETY SEAT

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(71) WONDERLAND SWITZERLAND AG  
 (21) 2025226678 (22) 02.09.2025  
 (54) Seat Belt with Booster Seat

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(71) Worxsafe AB; Vertemax Group Ltd  
 (21) 2025223853 (22) 28.08.2025  
 (54) A Telescopic Edge Protection Post

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(71) Xefco Pty Ltd  
 (21) 2025223753 (22) 26.08.2025  
 (54) SYSTEM FOR TREATMENT AND/OR COATING OF SUBSTRATES

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**Yissum Research Development Company of the Hebrew University of Jerusalem Ltd. see EPM (IP), Inc.**  
 (21) 2025223761

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(71) Zhejiang Jinko Energy Storage Co., Ltd.  
 (21) 2025223759 (22) 27.08.2025  
 (54) IGBT BENDING DEVICE, POWER CONVERSION SYSTEM, AND ENERGY STORAGE SYSTEM INCLUDING SAME

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(71) Zonit Structured Solutions, LLC  
 (21) 2025226663 (22) 02.09.2025  
 (54) Relay conditioning and power surge control

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<b>2025223741</b>	Amgen Inc.	<b>2025223808</b>	Idy Pty Ltd
<b>2025223742</b>	Regeneron Pharmaceuticals, Inc.	<b>2025223809</b>	Excalibur Pharmaceuticals, Inc.
<b>2025223744</b>	Harbin Engineering University	<b>2025223810</b>	Idy Pty Ltd
<b>2025223745</b>	PharmaBio Corporation	<b>2025223811</b>	Janssen Biotech, Inc.
<b>2025223746</b>	The United States of America, as represented by the Secretary, Department of Health and Human Services	<b>2025223812</b>	Novo Nordisk A/S; Amgen Inc.
<b>2025223747</b>	Anderson, C.	<b>2025223813</b>	Idy Pty Ltd
<b>2025223748</b>	Infusion Innovations Pty Ltd	<b>2025223814</b>	Sunshine Lake Pharma Co., Ltd.
<b>2025223750</b>	BEIJING JINGDONG ZHENSHI INFORMATION TECHNOLOGY CO., LTD.	<b>2025223815</b>	Idy Pty Ltd
<b>2025223751</b>	KRISH CAPITAL PTY LTD	<b>2025223816</b>	Huawei Technologies Co., Ltd.
<b>2025223753</b>	Xefco Pty Ltd	<b>2025223817</b>	ADM (Shanghai) Management Co., Ltd.
<b>2025223755</b>	Dentsply Sirona Inc.	<b>2025223818</b>	Idy Pty Ltd
<b>2025223756</b>	Sandvik Mining and Construction Oy	<b>2025223819</b>	Schneider Electric (Australia) Pty Limited
<b>2025223757</b>	Sandvik Mining and Construction G.m.b.H.	<b>2025223820</b>	FEI Company
<b>2025223758</b>	Hosokawa Yoko Co., Ltd.	<b>2025223821</b>	Exact Sciences Corporation
<b>2025223759</b>	Zhejiang Jinko Energy Storage Co., Ltd.	<b>2025223822</b>	FISHER & PAYKEL HEALTHCARE LIMITED
<b>2025223760</b>	3T Biosciences, INC.	<b>2025223823</b>	Robert Sackstein
<b>2025223761</b>	EPM (IP), Inc.; Yissum Research Development Company of the Hebrew University of Jerusalem Ltd.	<b>2025223824</b>	Panosian, M.H.; Keeler, J.M.
<b>2025223762</b>	Deere & Company	<b>2025223825</b>	Vaxxas Pty Limited
<b>2025223763</b>	Spa Electrics Pty Ltd	<b>2025223826</b>	i-SENS, Inc
<b>2025223764</b>	Volvo Truck Corporation	<b>2025223827</b>	SEAKR Engineering, LLC
<b>2025223765</b>	Block, Inc.	<b>2025223828</b>	Ascendis Pharma A/S
<b>2025223766</b>	Midland Steel Reinforcement Supplies Limited	<b>2025223830</b>	Fisher & Paykel Healthcare Limited
<b>2025223767</b>	BEIJING ROBOROCK TECHNOLOGY CO., LTD.	<b>2025223831</b>	Panosian, M.H.; Keeler, J.M.
<b>2025223768</b>	Apple Inc.	<b>2025223832</b>	6 over 6 Vision Ltd.
<b>2025223769</b>	Kruzer PTY LTD	<b>2025223833</b>	Aristocrat Technologies Australia Pty Limited
<b>2025223770</b>	Ingram Micro Inc.	<b>2025223834</b>	Duress IP Pty Ltd
<b>2025223771</b>	BioNTech Research and Development, Inc.	<b>2025223835</b>	Nippon Fiber Corporation
<b>2025223772</b>	GigaGen, Inc.	<b>2025223836</b>	Trilogy IP Holdings Pty Ltd
<b>2025223773</b>	Island Technology, Inc.	<b>2025223838</b>	ICU Medical, Inc.
<b>2025223774</b>	Brown, W.	<b>2025223839</b>	MiraDx
<b>2025223775</b>	Hudson, A.	<b>2025223840</b>	MITEK HOLDINGS, INC.
<b>2025223776</b>	empirical innovations, inc.	<b>2025223841</b>	MITEK HOLDINGS, INC.
<b>2025223777</b>	BioNTech SE; TRON-Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg-Universität at Mainz Gemeinnützige GmbH	<b>2025223842</b>	Blackhawk Network, Inc.
<b>2025223778</b>	CFPH, LLC	<b>2025223843</b>	The Board of Regents of the University of Texas System
<b>2025223779</b>	Montanuniversität Leoben	<b>2025223844</b>	The Boeing Company
<b>2025223780</b>	Tastemakers, LLC	<b>2025223845</b>	Abbott Diabetes Care Inc.
<b>2025223781</b>	Aristocrat Technologies, Inc.	<b>2025223846</b>	The Boeing Company
<b>2025223782</b>	ClearFlow, Inc.	<b>2025223847</b>	Contera Pharma A/S
<b>2025223783</b>	Aristocrat Technologies Australia Pty Limited	<b>2025223848</b>	The Boeing Company
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<b>2025223785</b>	Celcuity Inc.	<b>2025223850</b>	Techtronic Cordless GP
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<b>2025223790</b>	Epsitau Ltd.	<b>2025223855</b>	JIANGSU JUEKE CNC TOOL CO.,LTD
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<b>2025223793</b>	KPR U.S., LLC	<b>2025223858</b>	Outcomes4Me, Inc.
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2025223888	HyperStealth Biotechnology Corporation	2025223958	Spark, I.
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2025223892	Saferoads Pty Ltd	2025226661	Angel Group Co., Ltd.
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2025223894	Blastone Technology Pty Ltd	2025226663	Zonit Structured Solutions, LLC
2025223895	Brumby Finance Pty. Ltd.	2025226664	Aristocrat Technologies, Inc.
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2025223901	Messenger, O.	2025226669	Guardant Health, Inc.
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2025223906	One Stop Systems, Inc.	2025226677	AlveoliX Technologies AG; Universität Bern
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2025223910	Voltu Motor, Inc.		
2025223911	Kljuce, U.		
2025223912	University of Washington		
2025223913	Institut National de la Sante et de la Recherche Medicale (INSERM); Assistance Publique Des Hopitaux De Paris; Sorbonne Université; 4Moving Biotech		
2025223914	Ace Vision Group Inc.		
2025223915	INIXIO LIMITED		
2025223916	Idy Pty Ltd		
2025223917	DUG TECHNOLOGY (AUSTRALIA) PTY LTD.; AUSTRALASIA IP PTY LTD		
2025223918	Angel Group Co., Ltd.		
2025223920	Idy Pty Ltd		
2025223921	Idy Pty Ltd		
2025223922	Idy Pty Ltd		
2025223923	Idy Pty Ltd		
2025223924	Idy Pty Ltd		
2025223925	Idy Pty Ltd		
2025223926	Hu, Y.; Eureka LLC		
2025223927	PYFOI HOLDINGS LIMITED		
2025223929	Expro North Sea Limited		
2025223930	ADB SAFEGATE BV		
2025223931	GeoQuest Systems B.V.		
2025223932	Vertiv Corporation		
2025223933	voestalpine SIGNALING Siershahn GmbH		
2025223934	Aurora Operations, Inc.; Aurora Operations, Inc.		
2025223935	Fundació Hospital Universitari Vall d'hebron - Institut de Recerca		
2025223936	Devers, D.		
2025223937	Kabushiki Kaisha Toshiba		
2025223938	FIGMA, INC.		
2025223939	Sway Innovation Co.		
2025223940	IGT		
2025223941	The University of Bristol		
2025223942	Fisher & Paykel Healthcare Limited		
2025223943	Deere & Company		
2025223944	Monsanto Technology LLC		

**Applications Lapsed, Refused Or Withdrawn, Patents Ceased or Expired**

Reference to the application numbers must include the year of the application of the patent, which is shown preceding the numbers.

The codes next to each number have the following meanings:

**Code Meaning**

- 1 Application Lapsed Section 142(2)(a)
- 3 Application Lapsed Section 142(2)(c)
- 4 Application Lapsed Section 142(2)(d)
- 5 Application Lapsed Section 142(2)(e)
- 6 Application Lapsed Section 142(2)(f)/Reg. 13.5A(2)/Reg. 8.3(3)
- 7 Application Lapsed Reg. 3.2A(3)/Reg. 3.2C
- 8 Application Lapsed Reg. 3.4(6)
- 9 Application Lapsed Section 142(3)
- 11 Application Lapsed Section 148(1)(c)
- 12 Application Withdrawn Section 141(1)
- 13 Application Withdrawn Section 141(2)/Reg 13.1C\Section 141(3)/See Reg 8.3(2)
- 14 Patent Ceased Section 143(a), or Expired
- 15 Patent Ceased Section 143(b)
- 16 Application Refused
- 17 Application Lapsed Reg. 22.2B(2)
- 18 Application Lapsed Reg. 3.2B(3),(5) or (6)
- 20 Patent Ceased Section 143A(b)/Reg. 22.2D(2) or (4)
- 21 Patent Ceased Section 101C(b)/Section 143A(c)/Reg. 9A.4
- 22 Patent Ceased Section 143A(d), or Expired
- 23 Patent Ceased Section 143A(e)
- 24 Application Lapsed Reg. 22.2E(2)
- 25 Application Lapsed Reg. 22.2I(2)
- 26 Application Lapsed Reg. 3.5AC(11)
- 27 Application Lapsed Reg. 3.5AF(2F)
- 28 Application Lapsed Reg. 22.15A(3)
  
- A Applications on which examination has not been requested or directed
- B Applications on which a direction to request examination has been given
- C Applications on which examination has been requested or on which an examination report has been issued
- D Applications which have been accepted or advertised accepted
- E Patents on which an examination has not been requested
- F Patents on which an examination has been requested or report issued
- G Patents Certified
  
- N Applications not Open to Public Inspection

**2000**

2000070732 ( 14 )

**2005**

2005203742 ( 14 )    2005203793 ( 14 )    2005204230 ( 14 )  
 2005273089 ( 14 )    2005273119 ( 14 )    2005274614 ( 14 )  
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**2006**

2006200644 ( 14 )    2006201520 ( 14 )    2006212393 ( 14 )  
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**2007**

2007200666 ( 14 )    2007215082 ( 14 )    2007215221 ( 14 )  
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**2008**

2008200687 ( 14 )    2008215290 ( 14 )    2008217593 ( 14 )  
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**2009**

2009200641 ( 14 )    2009214038 ( 14 )    2009214039 ( 14 )  
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**2010**

2010200570 ( 14 )    2010200669 ( 14 )    2010212520 ( 14 )  
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**2011**

2011200646 ( 14 )    2011200670 ( 14 )    2011200705 ( 14 )  
 2011201722 ( 14 )    2011202477 ( 14 )    2011214268 ( 14 )  
 2011216200 ( 14 )    2011216220 ( 14 )    2011217119 ( 14 )  
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**2012**

2012200752 ( 14 )    2012200878 ( 14 )    2012200901 ( 14 )  
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**2013**

2013200095 ( 14 )    2013202662 ( 14 )    2013203202 ( 14 )  
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**2014**

2014200123 ( 14 )    2014200806 ( 14 )    2014216167 ( 14 )  
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**2015**

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**2016**

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**2017**

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**2018**

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**2019**

2019100149 ( 22G )    2019100169 ( 22E )    2019100171 ( 22E )  
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**2020**

2020100214 ( 22E )    2020100231 ( 22E )    2020101215 ( 22 )  
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**2021**

2021100887 ( 22E )    2021100942 ( 22E )    2021100944 ( 22E )  
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 2021223598 ( 4C )    2021224078 ( 14 )    2021224191 ( 4C )  
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**2022**

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**2023**

2023200405 ( 4C )    2023200477 ( 4C )    2023201373 ( 4C )  
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 2023270306 ( 5C )    2023274159 ( 5C )    2023274162 ( 5C )  
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**2024**

2024200363 ( 4C )    2024200837 ( 4C )    2024202275 ( 4C )  
 2024202467 ( 5CN )    2024203927 ( 5CN )    2024203968 ( 5CN )  
 2024219702 ( 12C )    2024266860 ( 4C )    2024902700 ( 12AN )  
 2024902733 ( 12AN )    2024902734 ( 12AN )    2024902856 ( 12AN )  
 2024903836 ( 12AN )

**2025**

2025204734 ( 7BN )    2025204769 ( 17B )    2025901934 ( 12AN )  
 2025902454 ( 17AN )

**Assignments before Grant, Section 113**

**2019**

2019349861 Reckitt Benckiser LLC The application has been assigned to **E.H. (US) LLC**

2019388777 Focal Medical, Inc. The application has been assigned to **Continuity Biosciences, LLC**

2019435951 The University of British Columbia; Provincial Health Services Authority; Abdera Therapeutics Inc. The application has been assigned to **The University of British Columbia; Provincial Health Services Authority**

**2020**

2020207135 Monash University The application has been assigned to **Kite Magnetics PTY LTD**

2020249799 H2GO Power Ltd The application has been assigned to **Axis Solutions Limited**

2020252376 Heissenberg, Michael The application has been assigned to **ESS Manufacturing, Inc.**

2020271508 Baxter International Inc.; Baxter Healthcare SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2020318929 H2GO Power Ltd The application has been assigned to **Axis Solutions Limited**

2020379816 Baxter International Inc.; Baxter Healthcare SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2020401135 Baxter International Inc.; Baxter Healthcare SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**2021**

2021201626 Habitech Pty Ltd The application has been assigned to **Habitat Innovation and Management Pty Ltd**

2021237122 Advance NanoTek Ltd.; Astivita Limited The application has been assigned to **Veganic SKN Limited**

2021252542 Molecular Assemblies, Inc. The application has been assigned to **TriLink BioTechnologies, LLC**

2021279215 Ecoation Innovative Solutions Inc. The application has been assigned to **Plant Products Inc.**

2021283916 GB005, Inc. The application has been assigned to **Vidya Therapeutics, Inc.**

2021285906 Molecular Assemblies, Inc. The application has been assigned to **TriLink BioTechnologies, LLC**

**Assignments before Grant, Section 113**

2021347822 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021365763 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021373621 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021411498 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021411938 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021411939 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021412846 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021416709 Babcock & Wilcox A/S The application has been assigned to **Kanadevia Inova Denmark A/S**

2021480351 BGI SHENZHEN The application has been assigned to **BGI SHENZHEN CO., LTD.; BGI SHENZHEN**

**2022**

2022209175 GB005, INC. The application has been assigned to **Vidya Therapeutics, Inc.**

2022219517 BOEHRINGER INGELHEIM INTERNATIONAL GMBH; CDR-LIFE AG The application has been assigned to **Boehringer Ingelheim International GmbH**

2022226187 ARDENT MILLS, LLC; TRITICA BIOSCIENCES, LLC The application has been assigned to **Tritica Biosciences, LLC**

2022269055 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022269056 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022270698 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022271289 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**Assignments before Grant, Section 113**

2022303029 HADDAD, Waleed Sami The application has been assigned to **BurnBot, Inc.**

2022336130 HAMEUR The application has been assigned to **RO-BOT-COUCPE SNC**

2022358867 BAXTER HEALTHCARE SA; BAXTER INTERNATIONAL INC. The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022369980 GB005, INC. The application has been assigned to **Vidya Therapeutics, Inc.**

2022387601 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022389196 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022396388 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022402144 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022409635 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022409637 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022410778 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022410785 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022413399 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022413407 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022413931 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022416398 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

**Assignments before Grant, Section 113**

2022416430 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022417425 BGI SHENZHEN The application has been assigned to **BGI SHENZHEN CO., LTD.; BGI SHENZHEN**

2022419493 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022420788 CDR-LIFE AG; BOEHRINGER INGELHEIM INTERNATIONAL GMBH The application has been assigned to **Boehringer Ingelheim International GmbH**

2022425536 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022426795 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**2023**

2023200753 Baxter Healthcare SA; Baxter International Inc. The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023203835 Baxter Healthcare SA; Baxter International Inc. The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023216982 LORINTECH TECNOLOGIA S.A. The application has been assigned to **Pabtin Sociedad Anonima**

2023222880 Baxter Healthcare SA; Baxter International Inc. The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023235116 MILEHIGH REPRO SOLUTIONS, LLC The application has been assigned to **Membrane Protective Technologies, Inc.**

2023254973 Baxter Healthcare SA; Baxter International Inc. The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023263449 Gekkotek Pty Ltd The application has been assigned to **RockViz Australia Pty Ltd**

2023272817 BAXTER INTERNATIONAL INC.; BAXTER HEALTHCARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023273812 HEISSENBERG, Michael The application has been assigned to **ESS Manufacturing, Inc.**

2023274152 Baxter International Inc.; Baxter Healthcare SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**Assignments before Grant, Section 113**

2023299175 BAXTER INTERNATIONAL INC.; BAXTER HEALTH-CARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023310695 BAXTER INTERNATIONAL INC.; BAXTER HEALTH-CARE SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023324954 HEISSENBERG, Michael The application has been assigned to **ESS Manufacturing, Inc.**

2023332144 HAMEUR The application has been assigned to **RO-BOT-COUCPE SNC**

**2024**

2024202111 Baxter Healthcare SA; Baxter International Inc The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2024204052 McCormack, Rex The application has been assigned to **Hamex Fuel Cell Pvt Ltd.**

2024216510 Raven Products Pty. Ltd.; Raven, Neil The application has been assigned to **RAVEN PRODUCTS PTY. LTD.; Raven Products Pty. Ltd.**

2024278414 Baxter International Inc.; Baxter Healthcare SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2024278522 Baxter International Inc.; Baxter Healthcare SA The application has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**2025**

2025900602 Birchlane Pty Ltd The application has been assigned to **Loscam Australia Pty Ltd**

2025903378 HUMBLE BEE LIMITED; HERBERT, Andrew; HOLLINGS, Andrew; ANIL, Anusree; KANNAN, Bhuvana; CHANG, Denison; SKELLY, John; GUNES, Kaan; Harwood-Stevenson, Veronica The application has been assigned to **Humble Bee Limited**

**Extensions of Time, Section 223****Applications Allowed - Section 223(2)****2010**

2010206101 **Isaakidis, I.** The time in which to pay a renewal fee has been extended to 03 May 2025 . Address for service - Ignatious Isaakidis 5 Lord ST Doncaster East VIC 3109 AU

**2017**

2017258843 **Gleeson, K.; Bodlovich, A.; Green Camel Pty Limited** The time in which to gain acceptance has been extended to 28 Aug 2025 . Address for service - Allens Patent & Trade Mark Attorneys 101 Collins Street MELBOURNE VIC 3000 AU

**Extensions of Time, Section 223****2020**

2020291526 **Advance Pharmaceutical, Inc.** The time in which to pay a continuation fee has been extended to 10 Feb 2025 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**2023**

2023222817 **KOKI HOLDINGS CO., LTD.** The time in which to pay a continuation fee has been extended to 27 Jun 2025 . Address for service - Collison & Co Gpo Box 2556 Adelaide SA 5001 AU

**2024**

2024200798 **Integrated DNA Technologies, Inc.** The time in which to pay a continuation fee has been extended to 10 May 2025 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**2025**

2025203239 **IGT** The time in which to claim the convention priority date has been extended to 24 May 2025 . Address for service - Integrated IP Level 8, 99 Walker Street North Sydney NSW 2060 AU

**Amendments****Applications for Amendment**

A person interested in opposing the allowance of amendments under Section 104 may at any time within two months from the date of this journal give notice at the Patent Office using the approved form accompanied by the prescribed fee.

A person who wishes to be heard in relation to a proposed Rectification of the Register must file a request to be heard within two months from the date of this journal.

**2020**

2020215543 Native whey protein for treating and/or preventing intestinal infection **N.V. Nutricia** The nature of the amendment is as shown in the statement(s) filed 28 Aug 2025 . Address for service - HENRY HUGHES IP LTD PO Box 356 Wellington 6140 NZ

**2021**

2021261058 Particle separation by density **Sepro Mineral Systems Corp.** The nature of the amendment is as shown in the statement(s) filed 28 Jul 2025 . Address for service - Phillips Ormonde Fitzpatrick PO Box 24171 Melbourne VIC 3001 AU

2021294333 Detonator black box **Austin Star Detonator Company** The nature of the amendment is as shown in the statement(s) filed 24 Jul 2025 . Address for service - PHILLIPS ORMONDE FITZPATRICK PO Box 24171 Melbourne VIC 3001 AU

**2022**

2022299766 TREATMENT METHOD OF MOLTEN STEEL AND STEEL PRODUCTION METHOD **JFE STEEL CORPORATION** The nature of the amendment is as shown in the statement(s) filed 05 Aug 2025 . Address for service - Davies Collison Cave Pty Ltd Level 28 500 Bourke Street MELBOURNE VIC 3000 AU

2022303020 MULTIPATH MITIGATION IN GNSS RECEIVERS WITH MACHINE LEARNING MODELS **ONENAV, INC.** The nature of the amendment is as shown in the statement(s) filed 29 Jul 2025 . Address



**Amendments**

for service - FPA Patent Attorneys Pty Ltd Level 19, South Tower 80 Collins Street Melbourne VIC 3000 AU

**2023**

2023226720 Electrographic image forming apparatus, cartridge, and drum unit **Canon Kabushiki Kaisha** The nature of the amendment is as shown in the statement(s) filed 15 Aug 2025 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

**2024**

2024200587 ENCODER, DECODER, ENCODING METHOD, AND DECODING METHOD **Panasonic Intellectual Property Corporation of America** The nature of the amendment is as shown in the statement(s) filed 12 Aug 2025 . Address for service - Griffith Hack Level 15 376-390 Collins St MELBOURNE VIC 3000 AU

**Amendments Made**

**2013**

2013327383 **CSR Building Products Limited** The nature of the amendment is as shown in the statements filed 14 Oct 2024, 17 Feb 2025 and 08 Apr 2025

**2017**

2017325729 **PepsiCo, Inc.** The nature of the amendment is as shown in the statements filed 29 Nov 2024 and 17 Mar 2025

**2018**

2018365677 **Novartis AG** The nature of the amendment is as shown in the statement filed 19 May 2025

**2019**

2019351809 **Anylam Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement filed 30 May 2025

**2020**

2020208448 **Becton, Dickinson and Company** The nature of the amendment is as shown in the statement filed 02 Apr 2025

2020287198 **Philip Morris Products S.A.** The nature of the amendment is as shown in the statement filed 22 Apr 2025

2020312185 **MEIKO Maschinenbau GmbH & Co. KG** The nature of the amendment is: Amend the name of the inventor to read HOFER, Martin and SIMUNDIC, Marijan

2020341335 **Sensor Development Corporation** The nature of the amendment is: Amend the name of the inventor to read SMILANICH, Nicholas Joseph; REICHERT, Samuel Firestone and TUDRON, Frank Bernard

**2022**

2022200595 **PT Indopoly Swakarsa Industry Tbk** The nature of the amendment is as shown in the statement filed 26 Feb 2025

2022354108 **NORTON (WATERFORD) LIMITED** The nature of the amendment is as shown in the statement filed 27 May 2025

**Amendments**

2022377070 **DYNE THERAPEUTICS, INC.** The nature of the amendment is: Amend the name of the inventor to read WEEDEN, Timothy; VIEIRA, Benjamin; DESJARDINS, Cody, A.; SUBRAMANIAN, Romesh, R.; QATANANI, Mohammed, T.; QUINN, Brendan; NAJIM, John; SHEN, Peiyi and QIU, Qifeng

2022394648 **BEIJING HONGHUI MEDITECH CO., LTD.** The nature of the amendment is as shown in the statement filed 26 May 2025

**2023**

2023202440 **Techtronic Cordless GP** The nature of the amendment is: Amend the name of the inventor to read CHOI, Man Ho; LEE, Hei Man; LAI, Hok Sum Sam; LI, Shing Hin and NG, Ho Lam

2023221655 **STREAMLINE INNOVATIONS INC.** The nature of the amendment is: Amend the name of the inventor to read PHOTOS, Peter J., Ph.D; BROWN, Franklin Hailey, II; BOURDON, John and TAYLOR, Trey

2023242798 **VALE S.A.** The nature of the amendment is: Amend the invention title to read Process of obtaining high iron content products from fines of iron ore and biomass, and their products

2023248316 **AIM INTELLIGENT MACHINES, INC.** The nature of the amendment is: Amend the name of the inventor to read SADILEK, Adam and AÇARÇIÇEK, Ahmet Haluk

2023253710 **DYNE THERAPEUTICS, INC.** The nature of the amendment is: Amend the name of the inventor to read WEEDEN, Timothy; VIEIRA, Benjamin; NAJIM, John; ZANOTTI, Stefano; SUBRAMANIAN, Romesh, R.; QATANANI, Mohammed, T.; DESJARDINS, Cody, A.; TANG, Kim; QUINN, Brendan and QIU, Qifeng

2023300363 **Medley Therapeutics, Inc.; Texas Heart Institute; Baylor College of Medicine** The nature of the amendment is: To amend the applicant name to Medley Therapeutics, Inc. and Texas Heart Institute and Baylor College of Medicine

2023378372 **Cancer Research Technology Limited; UCL Business Ltd; The Institute of Cancer Research: Royal Cancer Hospital** The nature of the amendment is: To amend the applicant name to CANCER RESEARCH TECHNOLOGY LIMITED and UCL BUSINESS LTD and THE INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL

2023415041 **GLUETACS THERAPEUTICS (SHANGHAI) CO., LTD.** The nature of the amendment is: Amend the invention title to read COMPOUND BASED ON SULFUR/OXYGEN SUBSTITUTED GLUTARIMIDYL-ISOINDOLINONE SCAFFOLD AND USE THEREOF

2023423982 **WING AVIATION LLC** The nature of the amendment is: amend the filing date to read 29 December 2023.

2023437655 **HANGZHOU GREAT STAR INDUSTRIAL CO., LTD.** The nature of the amendment is: Amend the invention title to read STACKING ASSEMBLY AND STACKING SYSTEM

**2024**

2024220082 **Sato Holdings Kabushiki Kaisha** The nature of the amendment is: Amend the invention title to read Information processing system, information processing method, and program

**Amendments**

2024224535 **HUAWEI TECHNOLOGIES CO., LTD.** The nature of the amendment is: Amend the invention title to read DATA PROCESSING METHOD AND DATA PROCESSING APPARATUS

2024226032 **JAPAN TOBACCO INC.** The nature of the amendment is: Amend the invention title to read SUBSTITUTED PYRAZOLOPYRIMIDINE COMPOUNDS AND MEDICAL USE THEREOF

2024226522 **HUAWEI TECHNOLOGIES CO., LTD.** The nature of the amendment is: Amend the invention title to read APPLICATION CONTEXT RELOCATION METHOD, COMMUNICATION METHOD, AND RELATED APPARATUS AND SYSTEM

2024227098 **Techtronic Cordless GP** The nature of the amendment is: Amend the name of the inventor to read VAN WYK, Sage; YEOMANS, Kyle; LOMBARDI, Keith; WACKER, Charles, II; RITTERLING, Doug; MORGAN, Graham and PARSONS, John Derek

2024231900 **NIPPON STEEL CORPORATION; VALLOUREC OIL AND GAS FRANCE** The nature of the amendment is: Amend the invention title to read Oil-well metal pipe

2024232217 **PACIRA THERAPEUTICS, INC.** The nature of the amendment is: Amend the name of the inventor to read DiGiorgi, Mary and Winston, Roy

2024233209 **INNOVATIVE ORTHOPEDIC TECHNOLOGIES IOT AG** The nature of the amendment is as shown in the statement filed 19 Aug 2025

2024235933 **UVEX ARBEITSSCHUTZ GMBH** The nature of the amendment is: Amend the invention title to read Glasses temple

2024260961 **BONDYA GMBH** The nature of the amendment is: Amend the invention title to read Calibration hose for pipe repair applications

2024287156 **Bios-Therapy, Physiological Systems for Health S.p.A.** The nature of the amendment is as shown in the statement filed 29 May 2025

2024288844 **HITACHI, LTD.** The nature of the amendment is: Amend the invention title to read Computer system and parameter determination method

2024401376 **CRRC QIQIHAR ROLLING STOCK CO., LTD.; PET-ROCHINA COMPANY LIMITED** The nature of the amendment is: Amend the invention title to read CONTAINER CHASSIS AND CONTAINER WITH CONTAINER CHASSIS

**2025**

2025205438 **MUSCO CORPORATION** The nature of the amendment is: Amend the name of the inventor to read MCKEE, Luke C.; VAN EE, David J. and LEWIS, Jr. Kenneth G.

2025903769 **PCA International Pty Ltd** The nature of the amendment is: To amend the applicant name to PCA International Pty Ltd

**Alteration of Name(s) of Applicant(s)/Patentee(s)****Amendments****2012**

2012275287 **Inhibrx, Inc.** The name of the patentee has been altered to **SANOFI AATD INC.**

**2014**

2014326915 **Silicon Hill B.V.** The name of the patentee has been altered to **Seaborough Electronics IP B.V.**

**2015**

2015339507 **Inhibrx, Inc.** The name of the patentee has been altered to **SANOFI AATD INC.**

**2017**

2017279724 **Inhibrx, Inc.** The name of the patentee has been altered to **SANOFI AATD INC.**

**2019**

2019202904 **Inhibrx, Inc.** The name of the patentee has been altered to **SANOFI AATD INC.**

2019364089 **Viea Logis Co.,Ltd.** The name of the patentee has been altered to **Vieabio Technology Co., LTD.**

**2020**

2020378235 **Smiths Medical ASD, Inc.** The name of the applicant has been altered to **ICU Medical, Inc.**

**2021**

2021202131 **Inhibrx, Inc.** The name of the patentee has been altered to **SANOFI AATD INC.**

2021370294 **GAS TECHNOLOGY INSTITUTE** The name of the applicant has been altered to **GTI Energy**

2021416709 **BABCOCK & WILCOX VØLUND A/S** The name of the applicant has been altered to **Babcock & Wilcox A/S**

**2022**

2022202185 **Viea Logis Co.,Ltd.** The name of the patentee has been altered to **Vieabio Technology Co., LTD.**

**2024**

2024203586 **Inhibrx, Inc.** The name of the applicant has been altered to **SANOFI AATD INC.**

2024208461 **GIGAGEN, INC.; ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG** The name of the applicant has been altered to **GIGAGEN, INC.; Albert-Ludwigs-Universität Freiburg**

**2025**

2025200591 **Smiths Medical ASD, Inc.** The name of the applicant has been altered to **ICU Medical, Inc.**

2025900383 **LifeSciTech Pty Ltd** The name of the applicant has been altered to **Theia Metals Pty Ltd**

**Amendments**

2025903918 Tier Projects Pty Ltd The name of the applicant has been altered to **Ryodan Capital Pty Ltd**

**Notice of Intention to Amend under Section 105 pursuant to the Federal Court Rules**

Australian Patent/Patent Application 2005299716 in the name(s) of Amgen Inc.

Australian Patent/Patent Application 2020260443 in the name(s) of Amgen Inc.

Applications Open to Public Inspection

Name Index

- . (\*) Title not in Roman characters
- . (\*\*) Title not given

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(71) 3DMorphic Pty Ltd  
 (11) AU-A-2025220886  
 (21) 2025220886 (22) 25.08.2025  
 (54) An implantable medical device  
 (51) Int. Cl.  
*A61F 2/44* ( 2006.01 )  
*A61F 2/32* ( 2006.01 )  
*A61F 2/38* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019391603  
 (72) PARR, William Chase Harington;  
 MOBBS, Ralph Jasper  
 (74) Allens Patent & Trade Mark Attorneys

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(71) Adobe Inc.  
 (11) AU-A-2025200044  
 (21) 2025200044 (22) 04.01.2025  
 (54) MASK-FREE COMPOSITE IMAGE GENERATION  
 (51) Int. Cl.  
*G06T 11/60* ( 2006.01 )  
*G06N 3/0475* ( 2023.01 )  
*G06N 3/08* ( 2023.01 )  
*G06N 20/00* ( 2019.01 )  
*G06T 5/50* ( 2006.01 )  
*G06T 5/60* ( 2024.01 )  
*G06T 5/70* ( 2024.01 )  
*G06T 7/11* ( 2017.01 )  
*G06T 7/194* ( 2017.01 )  
*G06T 7/90* ( 2017.01 )  
*G06T 9/00* ( 2006.01 )  
*G06T 15/00* ( 2011.01 )  
 (31) 18/584,022 (32) 22.02.24 (33) US  
 (43) 11.09.2025  
 (72) Tarrés, Gemma Canet; Kim, Soo Ye;  
 Lin, Zhe; Zhang, Zhifei; Zhang, Jianming;  
 Song, Yizhi  
 (74) RnB IP Pty Ltd

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(71) Advanced Accelerator Applications SA  
 (11) AU-A-2025220852  
 (21) 2025220852 (22) 22.08.2025  
 (54) Stable, concentrated radionuclide complex solutions  
 (51) Int. Cl.  
*A61K 51/08* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2025202231  
 (72) CHICCO, Daniela; BARBATO, Donato;  
 DE PALO, Francesco; FUGAZZA, Lorenza;  
 MARIANI, Maurizio; TESORIERE, Giovanni;  
 BRAMBATI, Clementina  
 (74) Davies Collison Cave Pty Ltd

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(71) Agency for Science, Technology and Research  
 (11) AU-A-2025220795  
 (21) 2025220795 (22) 21.08.2025

(54) Disrupting the LINC complex for treating laminopathy  
 (51) Int. Cl.  
*A61K 48/00* ( 2006.01 )  
*A61P 9/00* ( 2006.01 )  
*C12N 15/861* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019209002  
 (72) STEWART, Colin Lawson; CHAI, Jinfen;  
 LEE, Yin Loon; BURKE, Brian Edmund  
 (74) FB Rice Pty Ltd

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(71) Alpine Eagle GmbH  
 (11) AU-A-2025201334  
 (21) 2025201334 (22) 25.02.2025  
 (54) Distributed sensor network implemented by swarm of unmanned autonomous vehicles  
 (51) Int. Cl.  
*G08G 5/72* ( 2025.01 )  
*G08G 5/21* ( 2025.01 )  
*G08G 5/56* ( 2025.01 )  
*G08G 5/57* ( 2025.01 )  
*H04L 67/12* ( 2022.01 )  
*H04W 4/38* ( 2018.01 )  
 (31) 24159947.1 (32) 27.02.24 (33) EP  
 (43) 11.09.2025  
 (72) BOELEN, Jan-Hendrik; BREUER, Timo  
 (74) FB Rice Pty Ltd

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(71) Amgen Inc.  
 (11) AU-A-2025220748  
 (21) 2025220748 (22) 20.08.2025  
 (54) Method of preparing an antibody pharmaceutical formulation  
 (51) Int. Cl.  
*A61K 9/00* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
*A61K 47/02* ( 2006.01 )  
*A61K 47/08* ( 2006.01 )  
*A61K 47/26* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019316575  
 (72) SHARMA, Ashutosh; DRANSART, Bryan  
 (74) Davies Collison Cave Pty Ltd

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(71) Amgen Inc.  
 (11) AU-A-2025223741  
 (21) 2025223741 (22) 26.08.2025  
 (54) KRAS G12C inhibitors and methods of using the same  
 (51) Int. Cl.  
*C07D 471/04* ( 2006.01 )  
*A61K 31/519* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07D 475/00* ( 2006.01 )

(43) 11.09.2025  
 (62) 2023263502  
 (72) LANMAN, Brian Alan; ALLEN, Jennifer Rebecca;  
 REED, Anthony B.; CEE, Victor J.; LIU, Longbin;  
 KOPECKY, David John; LOPEZ, Patricia; WURZ, Ryan Paul;  
 NGUYEN, Thomas T.; BOOKER, Shon;  
 NISHIMURA, Nobuko; SHIN, Youngsook;  
 TAMAYO, Nuria A.; ALLEN, John Gordon;  
 CHEN, Jian  
 (74) Spruson & Ferguson

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(71) Anderson, C.  
 (11) AU-A-2025223747  
 (21) 2025223747 (22) 26.08.2025  
 (54) MODIFIED TORQUE GENERATOR AND METHODS OF USE  
 (51) Int. Cl.  
*E21B 4/00* ( 2006.01 )  
*E21B 7/04* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020323312  
 (72) CAMPBELL, Josh  
 (74) Madderns Pty Ltd

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(71) Angel Group Co., Ltd.  
 (11) AU-A-2025220840  
 (21) 2025220840 (22) 22.08.2025  
 (54) FRAUD DETECTION SYSTEM IN CASINO  
 (51) Int. Cl.  
*G07C 11/00* ( 2006.01 )  
*A47B 25/00* ( 2006.01 )  
*G06T 7/00* ( 2017.01 )  
 (43) 11.09.2025  
 (62) 2025204080  
 (72) Shigeta, Yasushi  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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(71) Angel Group Co., Ltd.  
 (11) AU-A-2025220881  
 (21) 2025220881 (22) 25.08.2025  
 (54) System, chip tray, and method  
 (51) Int. Cl.  
*A63F 11/00* ( 2006.01 )  
*G07D 9/02* ( 2006.01 )  
*G07F 17/32* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2025201130  
 (72) GÉLINOTTE, Emmanuel Sylvain;  
 SOUILLLOT, Jonathan; MOLINA, Bernard;  
 EMERIC, Jason; REED, Jeffrey;  
 GRONAU, Gregory; SHIGETA, Yasushi  
 (74) Davies Collison Cave Pty Ltd

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(71) Angel Group Co., Ltd.  
 (11) AU-A-2025220882  
 (21) 2025220882 (22) 25.08.2025  
 (54) Game management system

Applications Open to Public Inspection - Name Index cont'd

- (51) Int. Cl.  
**A63F 1/18** ( 2006.01 )  
**A63F 9/24** ( 2006.01 )
- (43) 11.09.2025  
(62) 2024205709  
(72) Shigeta, Yasushi  
(74) Davies Collison Cave Pty Ltd
- 
- (71) Anker Innovations Technology Co., Ltd.  
(11) AU-A-2025201441  
(21) 2025201441 (22) 27.02.2025  
(54) Power converter with display
- (51) Int. Cl.  
**G09F 9/30** ( 2006.01 )  
**G02F 1/00** ( 2006.01 )
- (31) 202420369918.2 (32) 27.02.24 (33) CN  
(43) 11.09.2025  
(72) CHEN, Tujin; OUYANG, Yi  
(74) Spruson & Ferguson
- 
- (71) Aristocrat Technologies, Inc.  
(11) AU-A-2025201189  
(21) 2025201189 (22) 20.02.2025  
(54) INTEGRATED MODULAR SEATING SYSTEMS FOR ELECTRONIC GAMING SYSTEMS AND METHODS
- (51) Int. Cl.  
**G07F 17/32** ( 2006.01 )
- (31) 63/557,272 (32) 23.02.24 (33) US  
19/056,580 18.02.25 US  
(43) 11.09.2025  
(72) Barker, Paul; Jadeja, Rajendrasinh; Kaminkow, Joseph; Rodriguez, Frank; Miller sr., Charles; Shaffer jr., Stephen; Barbour, Timothy  
(74) James & Wells Intellectual Property
- 
- (71) Aristocrat Technologies, Inc.  
(11) AU-A-2025201374  
(21) 2025201374 (22) 26.02.2025  
(54) ELECTRONIC GAMING MACHINE POWER MANAGEMENT ARCHITECTURES
- (51) Int. Cl.  
**G07F 17/32** ( 2006.01 )
- (31) 19/060,153 (32) 21.02.25 (33) US  
63/559,068 28.02.24 US  
(43) 11.09.2025  
(72) STEIL, Rolland; TAYLOR, Eric; PERROW, Shane  
(74) James & Wells Intellectual Property
- 
- (71) Arla Foods Amba  
(11) AU-A-2025220875  
(21) 2025220875 (22) 25.08.2025  
(54) Process for producing beta-lactoglobulin isolates and related methods and uses
- (51) Int. Cl.  
**A23C 1/04** ( 2006.01 )  
**A23C 1/00** ( 2006.01 )  
**A23C 9/142** ( 2006.01 )  
**A23J 1/00** ( 2006.01 )  
**A23J 1/20** ( 2006.01 )  
**A23L 2/10** ( 2006.01 )  
**A23L 2/39** ( 2006.01 )  
**A23L 33/19** ( 2016.01 )
- (43) 11.09.2025  
(62) 2019295064  
(72) LAURIDSEN, Kasper Bøgelund; NIELSEN, Søren Bang; SØNDERGAARD, Kåre; DE MOURA MACIEL, Guilherme; BERTELSEN, Hans; PARJIKOLAEI, Behnaz Razi; JÆGER, Tanja Christine  
(74) Griffith Hack
- 
- (71) Artificial Lift Production International Corp. o/a AL PRO International Corp.  
(11) AU-A-2025200372  
(21) 2025200372 (22) 17.01.2025  
(54) REGENERATIVE PUMPING SYSTEM AND METHOD
- (51) Int. Cl.  
**E21B 43/12** ( 2006.01 )  
**F04B 23/02** ( 2006.01 )  
**F04B 47/02** ( 2006.01 )  
**F15B 15/06** ( 2006.01 )  
**F15B 21/14** ( 2006.01 )
- (31) 18/585,875 (32) 23.02.24 (33) US  
(43) 11.09.2025  
(72) Cote, Brennon Leigh; Twidale, Derek Lorne; Dyck, David Paul  
(74) Mavin Intellectual Property
- 
- (71) Ascendis Pharma Endocrinology Division A/S  
(11) AU-A-2025205514  
(21) 2025205514 (22) 16.07.2025  
(54) Long-acting growth hormone dosage forms with superior efficacy to daily somatropin
- (51) Int. Cl.  
**A61K 9/08** ( 2006.01 )  
**A61K 9/19** ( 2006.01 )  
**A61K 38/27** ( 2006.01 )  
**A61K 47/12** ( 2006.01 )  
**A61K 47/18** ( 2017.01 )  
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**A61K 47/60** ( 2017.01 )  
**A61P 5/06** ( 2006.01 )
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(72) SPROGØE, Kennett  
(74) Pizzzeys Patent and Trade Mark Attorneys Pty Ltd
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- (51) Int. Cl.  
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(74) Pizzzeys Patent and Trade Mark Attorneys Pty Ltd
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**A01K 15/02** ( 2006.01 )  
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**G06V 40/10** ( 2022.01 )  
**G08B 3/10** ( 2006.01 )  
**G08B 6/00** ( 2006.01 )  
**G08B 21/18** ( 2006.01 )  
**G08B 27/00** ( 2006.01 )  
**A01K 11/00** ( 2006.01 )  
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(72) Kaya, Sinan  
(74) Sinan Kaya
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- (71) Atreca, Inc.  
(11) AU-A-2025220692  
(21) 2025220692 (22) 19.08.2025  
(54) Anti-CSP antibodies
- (51) Int. Cl.  
**C07K 16/20** ( 2006.01 )  
**A61P 33/06** ( 2006.01 )
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(72) EMERLING, Daniel Eric; KETCHEM, Randal R.; LIPPOW, Shaun M.; VOLK-MUTH, Wayne; WILLIAMS, Katherine L.  
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(21) 2025201446 (22) 27.02.2025  
(54) SOLAR MESH ATTACHMENT CLIP AND ASSEMBLY
- (51) Int. Cl.  
**H02S 40/00** ( 2014.01 )  
**E04D 13/00** ( 2006.01 )  
**F24S 25/60** ( 2018.01 )  
**F24S 40/10** ( 2018.01 )  
**F24S 25/00** ( 2018.01 )
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(72) HALL, Blake  
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(11) AU-A-2025220738  
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**(74)** FB Rice Pty Ltd
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**(54)** Peritoneal dialysis methods  
**(51)** Int. Cl.  
**A61K 31/70** ( 2006.01 )  
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**A61M 1/28** ( 2006.01 )
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**(43)** 11.09.2025  
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**(74)** FPA Patent Attorneys Pty Ltd
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**(21)** 2025220846 **(22)** 22.08.2025  
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**(51)** Int. Cl.  
**A01N 25/02** ( 2006.01 )  
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**C08L 33/26** ( 2006.01 )  
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**(62)** 2019362820  
**(72)** ANDERSON, Timothy H.; OESTER, Dean A.; LONG, Melvin  
**(74)** Griffith Hack
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**(11)** AU-A-2025220820  
**(21)** 2025220820 **(22)** 22.08.2025  
**(54)** SYSTEMS AND METHODS FOR SIGNAL COMMUNICATION WITH SCALABLE, MODULAR NETWORK NODES  
**(51)** Int. Cl.  
**H01Q 1/44** ( 2006.01 )  
**H01Q 13/08** ( 2006.01 )  
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**(21)** 2025220896 **(22)** 26.08.2025  
**(54)** DIFFERENTIAL SEGMENTED APERTURE  
**(51)** Int. Cl.  
**H01Q 23/00** ( 2006.01 )  
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**H01Q 9/28** ( 2006.01 )  
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**(72)** PERKINS, Daniel A.; LOESCH, Daniel G.; DISCHER, Donald C.; WELSH, Raphael Joseph  
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**(51)** Int. Cl.  
**G06Q 10/08** ( 2024.01 )  
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**(72)** YANG, Wenxiang; CHEN, Meng  
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**G06Q 40/00** ( 2023.01 )  
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**A61K 36/886** ( 2006.01 )  
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**(72)** BHALERAO, Vaishali  
**(74)** Baxter Patent Attorneys Pty Ltd
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**(51)** Int. Cl.  
**G03G 21/18** ( 2006.01 )  
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**(62)** 2023266346  
**(72)** MURAKAMI, Ryuta; FUJIWARA, Akihiro  
**(74)** Spruson & Ferguson
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**(11)** AU-A-2025220823  
**(21)** 2025220823 **(22)** 22.08.2025  
**(54)** Systems and methods for cryptographic authentication of contactless cards  
**(51)** Int. Cl.  
**G06Q 20/34** ( 2012.01 )  
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**(72)** ILINCIC, Rajko; RULE, Jeffrey  
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**(51)** Int. Cl.  
**A61K 31/417** ( 2006.01 )  
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**G01N 33/573** ( 2006.01 )  
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 (51) Int. Cl.  
*E02F 9/20* ( 2006.01 )  
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*E02F 3/43* ( 2006.01 )  
*E02F 3/84* ( 2006.01 )  
 (31) 18/584058 (32) 22.02.24 (33) US  
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 (74) FPA Patent Attorneys Pty Ltd

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 (21) 2024201811 (22) 20.03.2024  
 (54) TREE SKIRT CONVENIENT FOR STOWAGE AND STORAGE  
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*A47G 33/04* ( 2006.01 )  
 (31) 2024203385912 (32) 23.02.24 (33) CN  
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 (72) Wang, Youguo  
 (74) Remarkable IP

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 (74) Remarkable IP

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*A47G 33/04* ( 2006.01 )  
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 (72) Wang, Youguo  
 (74) Remarkable IP

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*H02G 3/14* ( 2006.01 )  
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*B62J 27/30* ( 2020.01 )  
*B60R 19/24* ( 2006.01 )  
*B60R 21/34* ( 2011.01 )  
*B60R 19/18* ( 2006.01 )  
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 (72) Chua, Khee  
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 (21) 2025220802 (22) 22.08.2025  
 (54) Method of anchoring posts  
 (51) Int. Cl.  
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*E21B 7/02* ( 2006.01 )  
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 (74) OLSSON - AG PTY LIMITED

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 (51) Int. Cl.  
*F25J 1/00* ( 2006.01 )  
*F25J 3/00* ( 2006.01 )  
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 (54) SYSTEMS AND METHODS FOR OPTICAL TARGET BASED INDOOR VEHICLE NAVIGATION  
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*G01C 15/04* ( 2006.01 )  
*G01C 21/20* ( 2006.01 )

*G05D 1/00* ( 2024.01 )  
*G06T 7/73* ( 2017.01 )  
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 (51) Int. Cl.  
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 (74) FB Rice Pty Ltd

(71) Dialight Corporation  
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 (51) Int. Cl.  
*H04B 10/114* ( 2013.01 )  
*H04B 10/11* ( 2013.01 )  
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(71) Direct Biologics LLC  
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 (54) Methods and compositions for treating inflammatory conditions associated with infectious disease  
 (51) Int. Cl.  
*A61K 35/28* ( 2015.01 )  
*A61K 9/127* ( 2006.01 )  
*A61P 31/04* ( 2006.01 )  
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(51) Int. Cl.  
G06N 20/00 ( 2019.01 )  
G01W 1/06 ( 2006.01 )  
G01W 1/10 ( 2006.01 )  
G06N 3/02 ( 2006.01 )  
G16Y 20/10 ( 2020.01 )  
(31) 18/590,363 (32) 28.02.24 (33) US  
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A61B 34/37 ( 2016.01 )  
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H01M 4/60 ( 2006.01 )  
C04B 35/528 ( 2006.01 )  
C04B 35/628 ( 2006.01 )  
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(51) Int. Cl.  
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E04G 5/06 ( 2006.01 )  
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E04G 5/14 ( 2006.01 )  
E04G 21/32 ( 2006.01 )  
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(43) 11.09.2025  
(72) YATES, Robert  
(74) Oxygene IP
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(11) AU-A-2025220848  
(21) 2025220848 (22) 22.08.2025  
(54) An incretin analog for use in glycemic control and weight management  
(51) Int. Cl.  
A61K 38/26 ( 2006.01 )  
A61P 3/04 ( 2006.01 )  
A61P 3/06 ( 2006.01 )  
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C07K 14/605 ( 2006.01 )  
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(62) 2022298662  
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(54) A modular deck system  
(51) Int. Cl.  
E04B 1/00 ( 2006.01 )  
E04B 1/61 ( 2006.01 )  
E04B 5/02 ( 2006.01 )  
E04F 15/02 ( 2006.01 )  
E04F 15/024 ( 2006.01 )  
E04F 15/10 ( 2006.01 )  
E04F 15/06 ( 2006.01 )  
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(72) CORNWELL, Ian  
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(54) Treatment of ophthalmologic diseases  
(51) Int. Cl.  
A61K 39/395 ( 2006.01 )  
A61P 27/02 ( 2006.01 )  
C07K 16/22 ( 2006.01 )  
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- (54) Treatment of ophthalmologic diseases  
(51) Int. Cl.  
A61K 39/395 ( 2006.01 )  
A61P 27/02 ( 2006.01 )  
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(54) RETAIL SHELVING SYSTEM  
(51) Int. Cl.  
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(72) OBITTS, Shane; MERTZ, Billy; GRUBBS, Matt  
(74) Baxter Patent Attorneys Pty Ltd
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(21) 2025220902 (22) 26.08.2025  
(54) AUTOMATICALLY ADJUSTING HEADGEAR FOR PATIENT INTERFACE  
(51) Int. Cl.  
A61M 16/06 ( 2006.01 )  
A62B 9/04 ( 2006.01 )  
A62B 18/08 ( 2006.01 )  
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(74) AJ PARK
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- (71) FISHER & PAYKEL HEALTHCARE LIMITED  
(11) AU-A-2025220903  
(21) 2025220903 (22) 26.08.2025  
(54) AUTOMATICALLY ADJUSTING HEADGEAR FOR PATIENT INTERFACE  
(51) Int. Cl.  
A61M 16/06 ( 2006.01 )  
A62B 9/04 ( 2006.01 )  
A62B 18/08 ( 2006.01 )  
(43) 11.09.2025  
(62) 2024200872  
(72) HAMMER, Jeroen; MCLAREN, Mark Arvind; KAPELEVICH, Vitaly; HUD-DART, Brett John  
(74) AJ PARK
- 
- (71) Fisher and Paykel Healthcare Limited  
(11) AU-A-2025217360  
(21) 2025217360 (22) 15.08.2025  
(54) WATER OUT ALARM DETERMINATION  
(51) Int. Cl.  
A61M 16/16 ( 2006.01 )  
G01F 23/00 ( 2022.01 )



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- G05D 9/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023203071  
**(72)** Liu, Po-Yen; Teng, Ivan Chih-Fan; Van Workum, Stefan Leo; Steiner, Oliver Samuel; Newland, Anthony James  
**(74)** AJ PARK
- 
- (71)** Freenome Holdings, Inc.  
**(11)** AU-A-2025220736  
**(21)** 2025220736 **(22)** 20.08.2025  
**(54)** Transcription factor profiling  
**(51)** Int. Cl.  
**G06N 5/04** ( 2023.01 )  
**C12Q 1/6869** ( 2018.01 )  
**C12Q 1/6886** ( 2018.01 )  
**G16B 20/00** ( 2019.01 )  
**(43)** 11.09.2025  
**(62)** 2019356497  
**(72)** ULZ, Peter; SPEICHER, Michael R.; HEITZER, Ellen  
**(74)** FB Rice Pty Ltd
- 
- (71)** Fuzhou Zhijing International Trade Co., Ltd  
**(11)** AU-A-2025220763  
**(21)** 2025220763 **(22)** 20.08.2025  
**(54)** DETACHABLE SMART TRASH CAN  
**(51)** Int. Cl.  
**B65F 1/16** ( 2006.01 )  
**B65F 1/00** ( 2006.01 )  
**(31)** PCT/ CN2023/136041 **(32)** 04.12.23 **(33)** CN  
 202320266771X 21.02.23 CN  
**(43)** 11.09.2025  
**(72)** Lin, Zengdong  
**(74)** LIANG ZHAO
- 
- (71)** Genentech, Inc.  
**(11)** AU-A-2025220757  
**(21)** 2025220757 **(22)** 20.08.2025  
**(54)** Methods of treating residual breast cancer with trastuzumab emtansine  
**(51)** Int. Cl.  
**C07K 16/28** ( 2006.01 )  
**A61K 31/5365** ( 2006.01 )  
**A61P 31/00** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07K 16/32** ( 2006.01 )  
**A61K 39/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023204220  
**(72)** SMITT, Melanie  
**(74)** Griffith Hack
- 
- Genentech, Inc. see F. Hoffmann-La Roche AG**  
**(21)** 2025220841
- 
- Genentech, Inc. see F. Hoffmann-La Roche AG**  
**(21)** 2025220842
- 
- (71)** Genzyme Corporation  
**(11)** AU-A-2025220839

- (21)** 2025220839 **(22)** 22.08.2025  
**(54)** Sterile chromatography resin and use thereof in manufacturing processes  
**(51)** Int. Cl.  
**B01D 15/20** ( 2006.01 )  
**A61L 2/08** ( 2006.01 )  
**B01D 15/18** ( 2006.01 )  
**B01D 15/36** ( 2006.01 )  
**B01D 15/38** ( 2006.01 )  
**G01N 30/50** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019332764  
**(72)** PATIL, Rohan; VARNER, Chad  
**(74)** Griffith Hack
- 
- (71)** Genzyme Corporation  
**(11)** AU-A-2025220876  
**(21)** 2025220876 **(22)** 25.08.2025  
**(54)** Marker for acid sphingomyelinase disorders and uses thereof  
**(51)** Int. Cl.  
**G01N 33/92** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023201062  
**(72)** Chuang, Wei-Lien; Cox, Gerald F.; Zhang, X. Kate  
**(74)** Griffith Hack
- 
- (71)** GIANT MANUFACTURING CO., LTD.  
**(11)** AU-A-2025201358  
**(21)** 2025201358 **(22)** 26.02.2025  
**(54)** TRAFFIC WARNING SYSTEM, COMPUTER-READABLE MEDIUM USING THE SAME AND OPERATION METHOD THEREOF  
**(51)** Int. Cl.  
**G01S 13/86** ( 2006.01 )  
**B60Q 9/00** ( 2006.01 )  
**G01S 13/04** ( 2006.01 )  
**G01S 13/06** ( 2006.01 )  
**G01S 13/50** ( 2006.01 )  
**G01S 13/91** ( 2006.01 )  
**G01S 13/92** ( 2006.01 )  
**G01S 13/93** ( 2020.01 )  
**G01S 13/931** ( 2020.01 )  
**G08G 1/052** ( 2006.01 )  
**G08G 1/123** ( 2006.01 )  
**(31)** 63/557,617 **(32)** 26.02.24 **(33)** US  
**(43)** 11.09.2025  
**(72)** LO, Chi-Wei; CHANG, Chih-Kai  
**(74)** Churchill Attorneys
- 
- (71)** Gliknik Inc.  
**(11)** AU-A-2025205063  
**(21)** 2025205063 **(22)** 02.07.2025  
**(54)** Fusion proteins of human protein fragments to create orderly multimerized immunoglobulin Fc compositions with enhanced complement binding  
**(51)** Int. Cl.  
**C07K 16/18** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
**C12N 15/09** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 202224791  
**(72)** Block, David S.; Olsen, Henrik  
**(74)** Allens Patent & Trade Mark Attorneys

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- (71)** GNG Electrical Pty Ltd  
**(11)** AU-A-2025220792  
**(21)** 2025220792 **(22)** 21.08.2025  
**(54)** GENERATION LOAD CONTROL  
**(51)** Int. Cl.  
**G05F 5/00** ( 2006.01 )  
**H02J 3/14** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023237040  
**(72)** ROGERS, Gregory Neville  
**(74)** Murray Trento & Associates Pty Ltd
- 
- (71)** Guangdong Oppo Mobile Telecommunications Corp., Ltd.  
**(11)** AU-A-2025220884  
**(21)** 2025220884 **(22)** 25.08.2025  
**(54)** Image decoding method and apparatus relying on intra prediction in image coding system  
**(51)** Int. Cl.  
**H04N 19/593** ( 2014.01 )  
**H04N 19/105** ( 2014.01 )  
**H04N 19/14** ( 2014.01 )  
**H04N 19/176** ( 2014.01 )  
**(43)** 11.09.2025  
**(62)** 2024201491  
**(72)** HEO, Jin  
**(74)** Spruson & Ferguson
- 
- (71)** Guangdong Oppo Mobile Telecommunications Corp., Ltd.  
**(11)** AU-A-2025220893  
**(21)** 2025220893 **(22)** 26.08.2025  
**(54)** Method and device for entropy encoding, decoding video signal  
**(51)** Int. Cl.  
**H04N 19/129** ( 2014.01 )  
**H04N 19/13** ( 2014.01 )  
**H04N 19/18** ( 2014.01 )  
**H04N 19/70** ( 2014.01 )  
**(43)** 11.09.2025  
**(62)** 2024202107  
**(72)** KIM, Seunghwan; KOO, Moonmo  
**(74)** Spruson & Ferguson
- 
- (71)** HAZEMAG & EPR GmbH  
**(11)** AU-A-2025201378  
**(21)** 2025201378 **(22)** 26.02.2025  
**(54)** Method for operating a material crushing plant  
**(51)** Int. Cl.  
**B02C 25/00** ( 2006.01 )  
**G05B 13/04** ( 2006.01 )  
**G06N 3/08** ( 2023.01 )  
**G06N 20/00** ( 2019.01 )  
**G06T 7/00** ( 2017.01 )  
**G06V 10/82** ( 2022.01 )  
**(31)** 24159891.1 **(32)** 27.02.24 **(33)** EP  
**(43)** 11.09.2025  
**(72)** WIRTH, Hendrik  
**(74)** FB Rice Pty Ltd
- 
- (71)** HEALTH AND HAPPINESS (H&H) HONG KONG LIMITED  
**(11)** AU-A-2024416013

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(21) 2024416013 (22) 15.03.2024  
 (54) USE OF SILYBUM MARIANUM PHARMACEUTICAL COMPOSITION IN PREPARATION OF DRUGS FOR TREATING FATTY LIVER DISEASES  
 (51) Int. Cl.  
**A61K 31/357** ( 2006.01 )  
**A61K 31/353** ( 2006.01 )  
**A61P 1/16** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
 (31) 202410223526.X (32) 28.02.24 (33) CN  
 (43) 11.09.2025  
 (72) ZHAO, Lingling; ZHANG, Hua; XIANG, Lan; YI, Meijuan; HUANG, Jingya; WANG, Lianjing; LIU, Wei  
 (74) Davies Collison Cave Pty Ltd

**HEXI UNIVERSITY see NORTHWEST INSTITUTE OF ECO-ENVIRONMENT AND RESOURCES, CHINESE ACADEMY OF SCIENCES**  
 (21) 2025203819

**Hinchee, M.A. see Tenfold Technologies, LLC**  
 (21) 2025220809

(71) Hitachi, Ltd.  
 (11) AU-A-2024219414  
 (21) 2024219414 (22) 05.09.2024  
 (54) Hydrogen production planning device and hydrogen production system  
 (51) Int. Cl.  
**G06Q 50/06** ( 2012.01 )  
**G06Q 30/02** ( 2023.01 )  
 (31) 2024-026023 (32) 22.02.24 (33) JP  
 (43) 11.09.2025  
 (72) JO, Mingyu; KINOSHITA, Yoshihito; TAKEUCHI, Hiroto; MAEDA, Tatsuya  
 (74) Davies Collison Cave Pty Ltd

(71) Hunan University of Science and Technology; Hunan Xiangchu Xianlu Environmental Protection Technology Co., Ltd.  
 (11) AU-A-2024203868  
 (21) 2024203868 (22) 06.06.2024  
 (54) Method of preparing alkali-activated cement by stepwise calcination with sodium chloride  
 (51) Int. Cl.  
**C04B 7/32** ( 2006.01 )  
**C04B 7/43** ( 2006.01 )  
**C04B 7/52** ( 2006.01 )  
 (31) 202410204515.7 (32) 24.02.24 (33) CN  
 (43) 11.09.2025  
 (72) PENG, Meixun; ZHAO, Qiming; ZHANG, Yuanpeng; LIU, Wenwei; CHEN, Meilin  
 (74) A.P.T. Patent and Trade Mark Attorneys

(71) Hunan University of Science and Technology; Hunan Xiangchu Xianlu Environmental Protection Technology Co., Ltd. see Hunan University of Science and Technology

onmental Protection Technology Co., Ltd.  
 (11) AU-A-2024204789  
 (21) 2024204789 (22) 11.07.2024  
 (54) Method for preparing general-purpose cement  
 (51) Int. Cl.  
**C04B 7/02** ( 2006.01 )  
 (31) 202410204516.1 (32) 24.02.24 (33) CN  
 (43) 11.09.2025  
 (72) PENG, Meixun; ZHANG, Yuanpeng; ZHAO, Qiming; LIU, Wenwei; CHEN, Meilin  
 (74) A.P.T. Patent and Trade Mark Attorneys

(71) Hunan University of Science and Technology; Hunan Xiangchu Xianlu Environmental Protection Technology Co., Ltd.

(11) AU-A-2025200294  
 (21) 2025200294 (22) 15.01.2025  
 (54) Method for preparing general-purpose cement through chlorination roasting of aluminosilicate  
 (51) Int. Cl.  
**C04B 28/10** ( 2006.01 )  
**C04B 7/32** ( 2006.01 )  
**C04B 7/43** ( 2006.01 )  
**C04B 18/00** ( 2006.01 )  
**C04B 28/06** ( 2006.01 )  
**C04B 28/08** ( 2006.01 )  
 (31) 202410204517.6 (32) 24.02.24 (33) CN  
 (43) 11.09.2025  
 (72) PENG, Meixun; ZHAO, Qiming; ZHANG, Yuanpeng; LIU, Wenwei; CHEN, Meilin  
 (74) A.P.T. Patent and Trade Mark Attorneys

**Hunan Xiangchu Xianlu Environmental Protection Technology Co., Ltd. see Hunan University of Science and Technology**  
 (21) 2024203868

**Hunan Xiangchu Xianlu Environmental Protection Technology Co., Ltd. see Hunan University of Science and Technology**  
 (21) 2024204789

**Hunan Xiangchu Xianlu Environmental Protection Technology Co., Ltd. see Hunan University of Science and Technology**  
 (21) 2025200294

(71) HysensBio  
 (11) AU-A-2025220790  
 (21) 2025220790 (22) 21.08.2025  
 (54) PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING PERIODONTAL DISEASE OR LUXATED TEETH  
 (51) Int. Cl.  
**A61K 38/08** ( 2019.01 )  
**A61P 1/02** ( 2006.01 )  
**C07K 7/06** ( 2006.01 )

(43) 11.09.2025  
 (62) 2021289122  
 (72) PARK, Joo Hwang; LEE, Ji Hyun; LEE, Dong Seol  
 (74) Madderns Pty Ltd

(71) IGT  
 (11) AU-A-2025220771  
 (21) 2025220771 (22) 21.08.2025  
 (54) SYSTEM AND METHOD FOR TRANSFERRING FUNDS TO AND FROM A GAMING TABLE  
 (51) Int. Cl.  
**A63F 1/00** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020200783  
 (72) Shepherd, Jeffery; Higgins, Kevin; Petersen, Erik  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) IGT  
 (11) AU-A-2025220783  
 (21) 2025220783 (22) 21.08.2025  
 (54) SYSTEM AND METHOD FOR INCENTIVIZING TRANSFER OF FUNDS TO A GAMING ESTABLISHMENT ACCOUNT  
 (51) Int. Cl.  
**G07F 19/00** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020200391  
 (72) Azzam, Jamal; Baerlocher, Anthony; Higgins, Kevin; Larsen, Kurt M.; Shepherd, Jeffery  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Illinois Tool Works Inc.  
 (11) AU-A-2025200634  
 (21) 2025200634 (22) 30.01.2025  
 (54) Strip of fasteners and fastening system  
 (51) Int. Cl.  
**F16B 15/08** ( 2006.01 )  
**B25C 5/16** ( 2006.01 )  
**B25C 1/00** ( 2006.01 )  
 (31) 2024900441 (32) 23.02.24 (33) AU  
 (43) 11.09.2025  
 (72) JOHNSTON, Peter; VINCENT, Benjamin Josef  
 (74) Davies Collison Cave Pty Ltd

(71) Illinois Tool Works Inc.  
 (11) AU-A-2025201046  
 (21) 2025201046 (22) 14.02.2025  
 (54) Connection system and stiffening template  
 (51) Int. Cl.  
**E04C 5/16** ( 2006.01 )  
**E04B 1/41** ( 2006.01 )  
**E04B 1/48** ( 2006.01 )  
**E04G 21/12** ( 2006.01 )  
**E04B 1/04** ( 2006.01 )  
**E04C 5/03** ( 2006.01 )  
 (31) 2024900474 (32) 26.02.24 (33) AU  
 (43) 11.09.2025  
 (72) MASON, Greg Stephen; McFARLAND, Andrew  
 (74) Davies Collison Cave Pty Ltd

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(71) Imprenditore Pty Limited  
 (11) AU-A-2025220888  
 (21) 2025220888 (22) 25.08.2025  
 (54) Power Monitoring and Signal Unit  
 (51) Int. Cl.  
     H04L 12/26 ( 2006.01 )  
     H04B 17/00 ( 2015.01 )  
 (43) 11.09.2025  
 (62) 2023216811  
 (72) RICE, Patrick Jeremy  
 (74) Wallington-Dummer

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(71) Infusion Innovations Pty Ltd  
 (11) AU-A-2025223748  
 (21) 2025223748 (22) 26.08.2025  
 (54) Assemblies, Systems and Methods for Programming Medical Devices  
 (51) Int. Cl.  
     A61M 5/168 ( 2006.01 )  
     A61M 5/142 ( 2006.01 )  
     G06F 21/70 ( 2013.01 )  
     G16H 10/00 ( 2018.01 )  
     H04L 9/32 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2024204228  
 (72) SLUGGETT, Andrew; DJURASEVICH, Danny; CROCKETT, Paul  
 (74) CHILIAD PTY LTD

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(71) Innovent Biologics (Suzhou) Co., Ltd.  
 (11) AU-A-2025204729  
 (21) 2025204729 (22) 23.06.2025  
 (54) USE OF ANTI-PCSK9 ANTIBODY IN METHOD FOR PREVENTING OR TREATING CHOLESTEROL-RELATED DISEASE  
 (51) Int. Cl.  
     C12N 15/13 ( 2006.01 )  
     A61K 39/395 ( 2006.01 )  
     A61P 3/06 ( 2006.01 )  
     G01N 33/573 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020347729  
 (72) QIAN, Lei; ZHENG, Shirui; DENG, Huan  
 (74) James & Wells Intellectual Property

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(71) INOSYSTEMS  
 (11) AU-A-2025200909  
 (21) 2025200909 (22) 11.02.2025  
 (54) NO SUPPLY INSTALLATION TO SUPPLY AN EMERGENCY FLOW IN THE CASE OF MALFUNCTIONING OF THE FLOW SENSOR  
 (51) Int. Cl.  
     A61M 16/12 ( 2006.01 )  
 (31) 2401784 (32) 23.02.24 (33) FR  
 (43) 11.09.2025  
 (72) Marchal, Frederic; Schmitt, Mary; Boulanger, Thierry; Blandin, Yann  
 (74) PHILLIPS ORMONDE FITZPATRICK

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(71) Inovio Pharmaceuticals, Inc.; The Wistar Institute of Anatomy and Biology  
 (11) AU-A-2025220829

(21) 2025220829 (22) 22.08.2025  
 (54) Optimized nucleic acid antibody constructs  
 (51) Int. Cl.  
     C07K 16/28 ( 2006.01 )  
     A61K 39/00 ( 2006.01 )  
     A61K 39/395 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2018265261  
 (72) WEINER, David; GUIBINGA, Ghiabe; COOCH, Neil; REED, Charles  
 (74) FB Rice Pty Ltd

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(71) InterDigital VC Holdings, Inc.  
 (11) AU-A-2025220810  
 (21) 2025220810 (22) 22.08.2025  
 (54) Systems, apparatus and methods for inter prediction refinement with optical flow  
 (51) Int. Cl.  
     H04N 19/513 ( 2014.01 )  
     H04N 19/117 ( 2014.01 )  
     H04N 19/139 ( 2014.01 )  
     H04N 19/182 ( 2014.01 )  
     H04N 19/577 ( 2014.01 )  
 (43) 11.09.2025  
 (62) 2020219836  
 (72) LUO, Jiancong; HE, Yuwen  
 (74) FB Rice Pty Ltd

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(71) Intervet International B.V.  
 (11) AU-A-2025220796  
 (21) 2025220796 (22) 21.08.2025  
 (54) Rabies virus vaccine  
 (51) Int. Cl.  
     A61K 39/205 ( 2006.01 )  
     A61P 31/14 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2018360288  
 (72) TARPEY, Ian  
 (74) Spruson & Ferguson

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(71) Intuit Inc.  
 (11) AU-A-2025200381  
 (21) 2025200381 (22) 20.01.2025  
 (54) Automated electronic document creation through machine learning  
 (51) Int. Cl.  
     G06F 40/284 ( 2020.01 )  
     G06F 16/20 ( 2019.01 )  
     G06F 40/20 ( 2020.01 )  
     G06F 40/211 ( 2020.01 )  
     G06F 40/247 ( 2020.01 )  
     G06F 40/30 ( 2020.01 )  
     G06F 40/55 ( 2020.01 )  
     G06N 3/08 ( 2023.01 )  
     G06N 20/00 ( 2019.01 )  
 (31) 18/589,654 (32) 28.02.24 (33) US  
 (43) 11.09.2025  
 (72) Malviya, Saket; Karivaradasamy, Pat-teaswaran; Baggavalli Raju, Shekhar; Srivastava, Arpit; Ochirbat, Enkhbold  
 (74) Davies Collison Cave Pty Ltd

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(71) Iovance Biotherapeutics, Inc.  
 (11) AU-A-2025220776  
 (21) 2025220776 (22) 21.08.2025

(54) TIL EXPANSION FROM FINE NEEDLE ASPIRATES AND SMALL BIOPSIES  
 (51) Int. Cl.  
     C12N 5/0783 ( 2010.01 )  
     A61K 35/17 ( 2015.01 )  
     A61K 39/00 ( 2006.01 )  
     A61P 35/00 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2018368786  
 (72) SIMPSON-ABELSON, Michelle; CHARTIER-COURTAUD, Cecile  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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(71) I-sens, Inc.  
 (11) AU-A-2025200482  
 (21) 2025200482 (22) 24.01.2025  
 (54) KIT FOR QUANTITATIVE ANALYSIS OF C-REACTIVE PROTEIN, METHOD FOR QUANTITATIVE ANALYSIS OF C-REACTIVE PROTEIN, AND APPARATUS FOR PERFORMING THE SAME  
 (51) Int. Cl.  
     G01N 33/551 ( 2006.01 )  
     B01L 3/00 ( 2006.01 )  
     G01N 21/82 ( 2006.01 )  
     G01N 33/68 ( 2006.01 )  
 (31) 10-2024-0027250 (32) 26.02.24 (33) KR  
 (43) 11.09.2025  
 (72) Kim, Ji Hoon; Choi, Dong Cheol; Park, Ji Yeon; Kim, Jin Young; Kim, Seung Wan; Kim, Hyeong Eun  
 (74) LAMINAR IP PTY LTD

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(71) JCM American Corporation  
 (11) AU-A-2025220907  
 (21) 2025220907 (22) 26.08.2025  
 (54) CURRENCY TRACKING AND ACCOUNTING SYSTEMS  
 (51) Int. Cl.  
     G07F 17/32 ( 2006.01 )  
     G06Q 20/10 ( 2012.01 )  
     G07D 11/30 ( 2019.01 )  
     G07F 19/00 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2023208104  
 (72) KUBAJAK, David C.  
 (74) AJ PARK

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Jiangnan University see Sohao FD-Tech Co., Ltd.  
 (21) 2025201425

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(71) Jinko Solar (Haining) Co., Ltd.  
 (11) AU-A-2025220869  
 (21) 2025220869 (22) 25.08.2025  
 (54) PHOTOVOLTAIC MODULE AND METHOD FOR MANUFACTURING PHOTOVOLTAIC MODULE  
 (51) Int. Cl.  
     H02S 40/36 ( 2014.01 )  
     H01L 31/05 ( 2014.01 )  
 (43) 11.09.2025  
 (62) 2023237037  
 (72) Guo, Zhiqiu; Huang, Shiliang; Guan, Yingli  
 (74) AJ Pietras IP Limited

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(71) JINKO SOLAR (HAINING) CO., LTD.; ZHEJIANG JINKO SOLAR CO., LTD.  
 (11) AU-A-2025220860  
 (21) 2025220860 (22) 22.08.2025  
 (54) BACK-CONTACT PHOTOVOLTAIC MODULE AND MANUFACTURING METHOD THEREOF  
 (51) Int. Cl.  
*H10F 77/30* ( 2025.01 )  
*H10F 19/85* ( 2025.01 )  
*H10F 77/20* ( 2025.01 )  
 (43) 11.09.2025  
 (62) 2023233146  
 (72) TAO, Wusong; WANG, Luchuang; HUANG, Shiliang; GUO, Zhiqiu  
 (74) BOSH IP Pty Ltd

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**Kalliontzis, J. see Kalliontzis, G.**  
 (21) 2025223749

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(71) Kalliontzis, G.; Kalliontzis, J.  
 (11) AU-A-2025223749  
 (21) 2025223749 (22) 26.08.2025  
 (54) A Hinge Jig and a Jamb Alignment Tool  
 (51) Int. Cl.  
*B27F 5/12* ( 2006.01 )  
*B25B 11/02* ( 2006.01 )  
*E05D 11/00* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2023201785  
 (72) Kalliontzis, George; Kalliontzis, Jim  
 (74) WRAYS PTY LTD

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(71) Kite Pharma, Inc.  
 (11) AU-A-2025220739  
 (21) 2025220739 (22) 20.08.2025  
 (54) Methods of administering chimeric antigen receptor immunotherapy  
 (51) Int. Cl.  
*A61P 35/00* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2023202308  
 (72) Wiezorek, Jeffrey S.  
 (74) FPA Patent Attorneys Pty Ltd

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(71) KITE PHARMA, INC.  
 (11) AU-A-2025220769  
 (21) 2025220769 (22) 21.08.2025  
 (54) Improving immune cell function  
 (51) Int. Cl.  
*C07K 14/54* ( 2006.01 )  
*A61K 35/17* ( 2015.01 )  
*C07K 14/71* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2022234333  
 (72) WINTER, Ruth E.; BANERJEE, Saikat  
 (74) FPA Patent Attorneys Pty Ltd

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(71) KoamTac, Inc.  
 (11) AU-A-2025201330  
 (21) 2025201330 (22) 25.02.2025

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(54) IMPROVED SCANNING INPUT ACCESS DEVICE FOR POINT OF SALE SYSTEMS  
 (51) Int. Cl.  
*G07G 1/14* ( 2006.01 )  
*G06K 7/00* ( 2006.01 )  
*G06Q 20/30* ( 2012.01 )  
*G16Y 10/00* ( 2020.01 )  
 (31) 19/047,234 (32) 06.02.25 (33) US  
 63/557,759 26.02.24 US  
 (43) 11.09.2025  
 (72) Lee, Hanjin  
 (74) Madderns Pty Ltd

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(71) Landis+Gyr GmbH  
 (11) AU-A-2025201331  
 (21) 2025201331 (22) 25.02.2025  
 (54) A fluid flow meter  
 (51) Int. Cl.  
*G01F 1/667* ( 2022.01 )  
*G01K 13/02* ( 2021.01 )  
 (31) 102024105280.5 (32) 26.02.24 (33) DE  
 (43) 11.09.2025  
 (72) WAGNER, Christian; WEGH, Niels; OLBERS, Andreas  
 (74) GLMR

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(71) Lewis, M.  
 (11) AU-A-2025220704  
 (21) 2025220704 (22) 19.08.2025  
 (54) SAFETY CORRIDOR ARRANGEMENT  
 (51) Int. Cl.  
*F21V 33/00* ( 2006.01 )  
*F21S 9/02* ( 2006.01 )  
*G08B 7/06* ( 2006.01 )  
*G08B 19/00* ( 2006.01 )  
*G08B 17/10* ( 2006.01 )  
*G09F 27/00* ( 2006.01 )  
*F21Y 115/10* ( 2016.01 )  
*F21Y 115/30* ( 2016.01 )  
 (43) 11.09.2025  
 (62) 2023208075  
 (72) Lewis, Mitchell  
 (74) TJIP Patents, Trade Marks & Designs

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(71) LONGI GREEN ENERGY TECHNOLOGY CO., LTD.  
 (11) AU-A-2025204141  
 (21) 2025204141 (22) 10.02.2025  
 (54) BACK CONTACT SOLAR CELL AND METHOD FOR MANUFACTURING SAME  
 (51) Int. Cl.  
*H10F 77/20* ( 2025.01 )  
*H10F 10/14* ( 2025.01 )  
*H10F 71/00* ( 2025.01 )  
 (31) 202410216919.8 (32) 27.02.24 (33) CN  
 (43) 11.09.2025  
 (72) CHEN, Chen; CHEN, Yao; TONG, Hongbo  
 (74) WRAYS PTY LTD

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(71) Mainstay Medical Limited  
 (11) AU-A-2025220837  
 (21) 2025220837 (22) 22.08.2025  
 (54) SYSTEMS AND METHODS FOR ENHANCING FUNCTION OF SPINE STA-

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BILIZATION MUSCLES ASSOCIATED WITH A SPINE SURGERY INTERVENTION  
 (51) Int. Cl.  
*A61N 1/05* ( 2006.01 )  
*A61B 17/70* ( 2006.01 )  
*A61N 1/36* ( 2006.01 )  
*A61N 1/372* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020200328  
 (72) SACHS, Dan; RAWAT, Prashant Brijmohansingh; CROSBY, Peter Andrew; HANNON, Jason  
 (74) HENRY HUGHES IP LTD

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(71) MAKO Surgical Corp.  
 (11) AU-A-2025220774  
 (21) 2025220774 (22) 21.08.2025  
 (54) Robotic surgery system for augmented hip arthroplasty procedures  
 (51) Int. Cl.  
*A61B 17/17* ( 2006.01 )  
*A61B 17/16* ( 2006.01 )  
*A61B 17/56* ( 2006.01 )  
*A61B 34/00* ( 2016.01 )  
*A61B 34/10* ( 2016.01 )  
 (43) 11.09.2025  
 (62) 2020337268  
 (72) THOMPSON, Matthew; CHANDRA, Varun; NADZADI, Mark; PERRONE, Christine; JOYAL, Garrett  
 (74) FB Rice Pty Ltd

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(71) Medisca Pharmaceutique Inc.  
 (11) AU-A-2025220740  
 (21) 2025220740 (22) 20.08.2025  
 (54) Pharmaceutical compounding methods and systems  
 (51) Int. Cl.  
*A61K 9/10* ( 2006.01 )  
*A61K 47/10* ( 2017.01 )  
*A61K 47/42* ( 2017.01 )  
 (43) 11.09.2025  
 (62) 2023204134  
 (72) Danopoulos, Panagiota; Joiner, Marc; Nyat Peng Wong, Sarah; Talebi, Vargha; Bader, Patrick-Martin  
 (74) Davies Collison Cave Pty Ltd

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(71) Medos International Sàrl  
 (11) AU-A-2025220834  
 (21) 2025220834 (22) 22.08.2025  
 (54) Surgical device for spinal fixation  
 (51) Int. Cl.  
*A61B 17/70* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020215172  
 (72) HALL, Mark  
 (74) Spruson & Ferguson

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(71) Merck Patent GmbH  
 (11) AU-A-2025220908  
 (21) 2025220908 (22) 26.08.2025  
 (54) Fused imidazopyridines as reversible inhibitors of Bruton's Tyrosine Kinase (BTK)  
 (51) Int. Cl.

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**A61P 29/00** ( 2006.01 )  
**A61K 31/437** ( 2006.01 )  
**A61P 37/00** ( 2006.01 )  
**C07D 471/04** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019326865  
**(72)** CALDWELL, Richard; LIU-BUJALSKI, Lesley; POTNICK, Justin; NEAGU, Constantin; KULKARNI, Shashank; JONES, Reinaldo; QIU, Hui  
**(74)** Griffith Hack

**(71)** Merck Sharp & Dohme Corp.  
**(11)** AU-A-2025220825  
**(21)** 2025220825 **(22)** 22.08.2025  
**(54)** Tablet formulation for CGRP-active compounds  
**(51)** Int. Cl.  
**C07D 221/02** ( 2006.01 )  
**A61K 9/26** ( 2006.01 )  
**A61K 31/437** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023258317  
**(72)** JOHNSON, Mary Ann; ALLAIN, Leonardo Resende; EICKHOFF, W. Mark; IKEDA, Craig B.; BROWN, Chad D.; FLANAGAN Jr., Francis J.; NOFSINGER, Rebecca; MAROTA, Melanie; LUPTON, Lisa; PATEL, Paresh B.; XI, Hanmi; XU, Wei  
**(74)** Spruson & Ferguson

**(71)** Merck Sharp & Dohme LLC  
**(11)** AU-A-2025220879  
**(21)** 2025220879 **(22)** 25.08.2025  
**(54)** Bis-quarternary cinchona alkaloid salts as asymmetric phase transfer catalysts  
**(51)** Int. Cl.  
**C07D 453/04** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023254886  
**(72)** XIANG, Bangping; YASUDA, Nobuyoshi  
**(74)** Spruson & Ferguson

**(71)** Metamorphosis GmbH  
**(11)** AU-A-2024201199  
**(21)** 2024201199 **(22)** 22.02.2024  
**(54)** Accurate navigation system for assisting a surgical procedure  
**(51)** Int. Cl.  
**A61B 34/20** ( 2016.01 )  
**A61B 34/00** ( 2016.01 )  
**G06F 3/01** ( 2006.01 )  
**G06T 19/00** ( 2011.01 )  
**G06V 20/69** ( 2022.01 )  
**A61B 6/00** ( 2006.01 )  
**A61B 6/46** ( 2024.01 )  
**A61B 17/17** ( 2006.01 )  
**A61B 90/00** ( 2016.01 )  
**(43)** 11.09.2025  
**(72)** BLAU, Arno  
**(74)** Spruson & Ferguson

**(71)** Minnetronix Neuro, Inc.  
**(11)** AU-A-2025220857  
**(21)** 2025220857 **(22)** 22.08.2025

**(54)** Systems for treating along the central nervous system  
**(51)** Int. Cl.  
**A61M 27/00** ( 2006.01 )  
**A61B 10/00** ( 2006.01 )  
**A61M 1/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2024204345  
**(72)** DARBANDI, Bejan Michael; MCCABE, Aaron R.  
**(74)** Spruson & Ferguson

**(71)** Morris Industries Ltd.  
**(11)** AU-A-2025220826  
**(21)** 2025220826 **(22)** 22.08.2025  
**(54)** AGRICULTURAL IMPLEMENT FRAME ASSEMBLY  
**(51)** Int. Cl.  
**A01B 73/02** ( 2006.01 )  
**A01B 76/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019200913  
**(72)** Sheppard, Clint W.; Gordon, Jeffrey Jonathan  
**(74)** PHILLIPS ORMONDE FITZPATRICK

**(71)** Mould, D.R.  
**(11)** AU-A-2025220759  
**(21)** 2025220759 **(22)** 20.08.2025  
**(54)** Systems and methods for patient-specific dosing  
**(51)** Int. Cl.  
**G06F 17/40** ( 2006.01 )  
**A61M 5/168** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023219844  
**(72)** MOULD, Diane R.  
**(74)** Spruson & Ferguson

**(71)** NANJING CHERVON INDUSTRY CO., LTD.  
**(11)** AU-A-2025220904  
**(21)** 2025220904 **(22)** 26.08.2025  
**(54)** CHARGING SYSTEM  
**(51)** Int. Cl.  
**H02J 7/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023319478  
**(72)** LI, Zhengzheng; GENG, Zheng; LU, Zhijian; BERMAN, Corey; XIAO, Yiwen; TONG, Jiajun; HUANG, He; ZHANG, Yuexiang; CAO, Yafei  
**(74)** Madderns Pty Ltd

**(71)** NANT HOLDINGS IP, LLC; NANTSTUDIOS, LLC  
**(11)** AU-A-2025220895  
**(21)** 2025220895 **(22)** 26.08.2025  
**(54)** DISTRIBUTED COMMAND EXECUTION IN MULTI-LOCATION STUDIO ENVIRONMENTS  
**(51)** Int. Cl.  
**G06Q 10/06** ( 2023.01 )

**(43)** 11.09.2025  
**(62)** 2022323963  
**(72)** SOON-SHIONG, Patrick; MARSHALL, Gary; HEINRICHS, Keaton; WIACEK, John; WITCHEY, Nicholas James  
**(74)** Pizeys Patent and Trade Mark Attorneys Pty Ltd

**NANTSTUDIOS, LLC see NANT HOLDINGS IP, LLC**  
**(21)** 2025220895

**(71)** NORTHWEST INSTITUTE OF ECO-ENVIRONMENT AND RESOURCES, CHINESE ACADEMY OF SCIENCES; HEXI UNIVERSITY  
**(11)** AU-A-2025203819  
**(21)** 2025203819 **(22)** 22.04.2025  
**(54)** MULTI-ANTENNA SINGLE-STATION STEREOSCOPIC-ARRANGEMENT ULTRASHORT BASELINE LIGHTNING LOCATION METHOD AND RELATED DEVICE  
**(51)** Int. Cl.  
**G01S 5/02** ( 2010.01 )  
**G01R 29/08** ( 2006.01 )  
**G01S 5/14** ( 2006.01 )  
**H01Q 21/28** ( 2006.01 )  
**(31)** 202410208701.8 **(32)** 26.02.24 **(33)** CN  
**(43)** 11.09.2025  
**(72)** FAN, Xiangpeng; LI, Zongxing; LI, Yajun; ZHAO, Guo; ZHANG, Tong; LIU, Hengyi; MENG, Xianhong; YU, Ye; LI, Jianglin; SUN, Jun  
**(74)** James & Wells Intellectual Property

**(71)** NUC ELECTRONICS CO., LTD.  
**(11)** AU-A-2024264620  
**(21)** 2024264620 **(22)** 04.09.2024  
**(54)** JUICE SQUEEZING EXTRACTOR  
**(51)** Int. Cl.  
**A47J 19/02** ( 2006.01 )  
**A47J 43/046** ( 2006.01 )  
**(31)** 10-2024-0026139 **(32)** 22.02.24 **(33)** KR  
 10-2024-0060778 08.05.24 KR  
**(43)** 11.09.2025  
**(72)** KIM, Jong Boo  
**(74)** FB Rice Pty Ltd

**(71)** NXT BIOMEDICAL, LLC  
**(11)** AU-A-2025220770  
**(21)** 2025220770 **(22)** 21.08.2025  
**(54)** RIVET SHUNT AND METHOD OF DEPLOYMENT  
**(51)** Int. Cl.  
**A61F 2/82** ( 2013.01 )  
**A61F 2/04** ( 2013.01 )  
**A61M 27/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2020219093  
**(72)** Taft, Robert C.; Rabito, Glen; Schwartz, Robert S.  
**(74)** PHILLIPS ORMONDE FITZPATRICK

**(71)** Oculis Operations Sàrl  
**(11)** AU-A-2025220806

Applications Open to Public Inspection - Name Index cont'd

(21) 2025220806 (22) 22.08.2025  
 (54) Method for stabilizing the pH of an aqueous composition comprising a drug  
 (51) Int. Cl.  
**A61K 31/573** ( 2006.01 )  
**A61K 47/02** ( 2006.01 )  
**A61K 47/10** ( 2017.01 )  
**A61K 47/12** ( 2006.01 )  
**A61K 47/18** ( 2017.01 )  
**A61K 47/22** ( 2006.01 )  
**A61K 47/36** ( 2006.01 )  
**A61P 27/02** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020298754  
 (72) LOFTSSON, Thorsteinn; FÜLÖP, Zoltán  
 (74) Spruson & Ferguson

(71) OE Electrics Limited  
 (11) AU-A-2025220784  
 (21) 2025220784 (22) 21.08.2025  
 (54) MODULAR POWER SUPPLY SYSTEM INCLUDING A BATTERY POWER SUPPLY MODULE  
 (51) Int. Cl.  
**H02J 7/00** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020272555  
 (72) HOBBS, Timothy Richard  
 (74) Madderns Pty Ltd

(71) Omeros Corporation  
 (11) AU-A-2025220728  
 (21) 2025220728 (22) 20.08.2025  
 (54) Monoclonal antibodies, compositions and methods for detecting complement factor D  
 (51) Int. Cl.  
**A61K 39/395** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**A61P 37/02** ( 2006.01 )  
**C07K 16/30** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2021328262  
 (72) CUMMINGS, William Jason; FREEMAN, Jeremy A.; LI, Yi; SHAFFER, Kathleen A.; YABUKI, Munehisa  
 (74) FPA Patent Attorneys Pty Ltd

(71) Oxygenium Ltd.  
 (11) AU-A-2025220822  
 (21) 2025220822 (22) 22.08.2025  
 (54) Portable system for the production of oxygen  
 (51) Int. Cl.  
**A61M 16/10** ( 2006.01 )  
**A62B 7/08** ( 2006.01 )  
**A62B 21/00** ( 2006.01 )  
**B01D 5/00** ( 2006.01 )  
**F28B 1/00** ( 2006.01 )  
**F28B 9/00** ( 2006.01 )  
**F28D 1/00** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2020251514  
 (72) AVRAHAM, Liraz; MIRON, Ran; WEISS, Oded; ALKAHE, Ben (Binyamin)  
 (74) Davies Collison Cave Pty Ltd

(71) P.A. S.p.A.  
 (11) AU-A-2025220779  
 (21) 2025220779 (22) 21.08.2025  
 (54) Rotary jet nozzle assembly for pressure cleaning devices  
 (51) Int. Cl.  
**B05B 3/04** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019374388  
 (72) BENETTI, Arnaldo  
 (74) MINTER ELLISON

(71) Paloma Co., Ltd.  
 (11) AU-A-2024205794  
 (21) 2024205794 (22) 15.08.2024  
 (54) Water heating system and determination method of tank capacity in water heating system  
 (51) Int. Cl.  
**F24H 1/18** ( 2022.01 )  
**F24H 4/04** ( 2006.01 )  
**F24H 9/1832** ( 2022.01 )  
 (31) 2024-025833 (32) 22.02.24 (33) JP  
 (43) 11.09.2025  
 (72) MITSUFUJI, Koichi; MASUMITSU, Takahisa; SAKAI, Yasuhiro; HANAI, Yuya; YOKOYAMA, Takeshi  
 (74) Spruson & Ferguson

(71) PAYMENTUS CORPORATION  
 (11) AU-A-2025220844  
 (21) 2025220844 (22) 22.08.2025  
 (54) ARTIFICIAL INTELLIGENCE BASED INTEGRATION FRAMEWORKS  
 (51) Int. Cl.  
**G06F 16/25** ( 2019.01 )  
**G06N 20/00** ( 2019.01 )  
 (43) 11.09.2025  
 (62) 2021471001  
 (72) SHARMA, Dushyant  
 (74) James & Wells Intellectual Property

(71) Pelican Products, Inc.  
 (11) AU-A-20252200748  
 (21) 20252200748 (22) 04.02.2025  
 (54) Helmet headlamp assemblies and related methods  
 (51) Int. Cl.  
**F21V 21/00** ( 2006.01 )  
**F21V 21/15** ( 2006.01 )  
 (31) 18/585,427 (32) 23.02.24 (33) US  
 (43) 11.09.2025  
 (72) HANWELL, John Edward  
 (74) Spruson & Ferguson

Perry, L.M. see Tenfold Technologies, LLC  
 (21) 2025220809

(71) PharmaBio Corporation  
 (11) AU-A-2025223745  
 (21) 2025223745 (22) 26.08.2025  
 (54) Production device, system, and method  
 (51) Int. Cl.  
**A61K 35/12** ( 2015.01 )

**A61L 27/38** ( 2006.01 )  
**C12M 1/00** ( 2006.01 )  
**C12M 3/00** ( 2006.01 )  
**G06Q 50/22** ( 2024.01 )  
 (43) 11.09.2025  
 (62) 2018326894  
 (72) MIYAUCHI, Hidemasa; KUSANO, Hitoshi  
 (74) Griffith Hack

(71) Pipeline Medical Technologies, Inc.  
 (11) AU-A-2025220849  
 (21) 2025220849 (22) 22.08.2025  
 (54) Method and apparatus for mitral valve chord repair  
 (51) Int. Cl.  
**A61F 2/24** ( 2006.01 )  
**A61B 17/03** ( 2006.01 )  
**A61B 17/04** ( 2006.01 )  
**A61B 17/062** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019397490  
 (72) BISHOP, Gordon B.; GRISWOLD, Erik; MCDANIEL, Stephen R.; PHAM, Trung H.; PURCELL, Cameron P.; LAM, Hien N.  
 (74) Griffith Hack

(71) Plows, F.  
 (11) AU-A-2025220865  
 (21) 2025220865 (22) 24.08.2025  
 (54) Botanical Compositions  
 (51) Int. Cl.  
**A01N 25/16** ( 2006.01 )  
**A01N 47/44** ( 2006.01 )  
**A01N 65/00** ( 2009.01 )  
 (43) 11.09.2025  
 (62) 2019416186  
 (72) PLOWS, Fiona  
 (74) A.P.T. Patent and Trade Mark Attorneys

(71) President and Fellows of Harvard College  
 (11) AU-A-2025220847  
 (21) 2025220847 (22) 22.08.2025  
 (54) Magnetic levitation  
 (51) Int. Cl.  
**H01F 7/02** ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019347864  
 (72) GE, Shencheng; WHITESIDES, George M.  
 (74) Davies Collison Cave Pty Ltd

(71) PROJECT 125 PTY LTD  
 (11) AU-A-2024201329  
 (21) 2024201329 (22) 28.02.2024  
 (54) Integrated Multimedia Message and Dynamic QR Code Generation System for Personalized Memoirs  
 (51) Int. Cl.  
**G06K 19/06** ( 2006.01 )  
**G06F 16/538** ( 2019.01 )  
**G06F 16/738** ( 2019.01 )  
**G06Q 99/00** ( 2006.01 )  
**G09F 27/00** ( 2006.01 )

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*G06F 16/955* ( 2019.01 )  
**(43)** 11.09.2025  
**(72)** Tisna, Raymond  
**(74)** RAYMOND TISNA

**(71)** Purdy, C.  
**(11)** AU-A-2025217279  
**(21)** 2025217279 **(22)** 12.08.2025  
**(54)** A WHEELABLE COLLAPSIBLE TABLE AND STORAGE ASSEMBLY  
**(51)** Int. Cl.  
*A47B 3/10* ( 2006.01 )  
*A45F 3/46* ( 2006.01 )  
*A47B 3/08* ( 2006.01 )  
*A47B 3/14* ( 2006.01 )  
*A47C 4/00* ( 2006.01 )  
*B62B 1/04* ( 2006.01 )  
*B62B 1/20* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023203641  
**(72)** Purdy, Chrissie  
**(74)** mdp Patent and Trade Mark Attorneys

**(71)** PUTTSHACK LTD  
**(11)** AU-A-2025220775  
**(21)** 2025220775 **(22)** 21.08.2025  
**(54)** STANDALONE AND MULTIGAME MINIATURE GOLF STRUCTURE  
**(51)** Int. Cl.  
*A63B 67/02* ( 2006.01 )  
*A63B 69/36* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2024219522  
**(72)** JONES, Samuel Nicolas; HOPKINSON, Thomas Stephen David; SLADE, Stephen Peter; CAMIES, Adam  
**(74)** AJ PARK

**(71)** Q.E.D Environmental Systems Limited  
**(11)** AU-A-2025220874  
**(21)** 2025220874 **(22)** 25.08.2025  
**(54)** Portable gas analyzer  
**(51)** Int. Cl.  
*G01N 27/407* ( 2006.01 )  
*G01N 21/3504* ( 2014.01 )  
*G01N 33/00* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2020269633  
**(72)** MILLAR, Craig; MARGRAVE, Robert; SHORT, Terry; BENWELL, Chris; CLARK, Iain  
**(74)** Spruson & Ferguson

**(71)** QRGREET  
**(11)** AU-A-2024201256  
**(21)** 2024201256 **(22)** 24.02.2024  
**(54)** QR Video Greeting card  
**(51)** Int. Cl.  
*G06K 19/06* ( 2006.01 )  
*G06F 16/955* ( 2019.01 )  
*G06Q 50/00* ( 2012.01 )  
*G06Q 90/00* ( 2006.01 )  
**(43)** 11.09.2025  
**(72)** Azrak, Youssef; Shawi, Iyad  
**(74)** QRGREET

**Rajagopal, S. see Tenfold Technologies, LLC**  
**(21)** 2025220809

**Redublo, J.J. see Tenfold Technologies, LLC**  
**(21)** 2025220809

**(71)** REGENERON PHARMACEUTICALS, INC.  
**(11)** AU-A-2025213570  
**(21)** 2025213570 **(22)** 05.08.2025  
**(54)** ANTI-CD8 ANTIBODIES AND USES THEREOF  
**(51)** Int. Cl.  
*C07K 16/28* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
*A61K 49/00* ( 2006.01 )  
*A61K 49/16* ( 2006.01 )  
*A61K 51/10* ( 2006.01 )  
*G01N 33/53* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2018307744  
**(72)** GIURLEO, Jason T; MA, Dangshe; OLSON, William; TAVARE, Richard; THURSTON, Gavin  
**(74)** AJ PARK

**(71)** Research Institute at Nationwide Children's Hospital  
**(11)** AU-A-2025206429  
**(21)** 2025206429 **(22)** 23.07.2025  
**(54)** Recombinant adeno-associated virus products and methods for treating limb girdle muscular dystrophy 2A  
**(51)** Int. Cl.  
*C12N 15/864* ( 2006.01 )  
*A61K 48/00* ( 2006.01 )  
*C12N 9/64* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019295779  
**(72)** SAHENK, Zarife  
**(74)** Davies Collision Cave Pty Ltd

**(71)** RESMED ASIA PTE. LTD.  
**(11)** AU-A-2025220782  
**(21)** 2025220782 **(22)** 21.08.2025  
**(54)** Textile seal with silicone layer  
**(51)** Int. Cl.  
*A61M 16/06* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2020441152  
**(72)** SUPAOPASPHUN, Thontira  
**(74)** James & Wells Intellectual Property

**(71)** ResMed Pty Ltd  
**(11)** AU-A-2025220788  
**(21)** 2025220788 **(22)** 21.08.2025  
**(54)** PNEUMATIC BLOCK FOR RESPIRATORY PRESSURE THERAPY DEVICE  
**(51)** Int. Cl.  
*A61M 16/00* ( 2006.01 )

**(43)** 11.09.2025  
**(62)** 2019396749  
**(72)** KENYON, Barton John; DENT, Michael James; SHRUBB, Emily Claire; CARROLLA, Melanie Lucia  
**(74)** Halfords IP

**(71)** ResMed Pty Ltd  
**(11)** AU-A-2025220816  
**(21)** 2025220816 **(22)** 22.08.2025  
**(54)** SYSTEMS AND METHODS FOR ACTIVE POWER MANAGEMENT IN A MEDICAL DEVICE  
**(51)** Int. Cl.  
*A61M 16/00* ( 2006.01 )  
*A61M 16/10* ( 2006.01 )  
*A61M 16/16* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019360030  
**(72)** BATH, Andrew Roderick; VOON, Rudi; CREUSOT, David; DOUDKINE, Dmitri Anatolievich; ZHU, Mike; PANARELLO, Adam  
**(74)** Halfords IP

**(71)** S.C.R. (Engineers) Limited  
**(11)** AU-A-2025220856  
**(21)** 2025220856 **(22)** 22.08.2025  
**(54)** An animal tag  
**(51)** Int. Cl.  
*A01K 11/00* ( 2006.01 )  
*A01K 29/00* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2023266305  
**(72)** KHOMITSKY, Taras; COHEN, Mordehay; HAZAN, Samy  
**(74)** Spruson & Ferguson

**(71)** Salford Group Inc.  
**(11)** AU-A-2025201397  
**(21)** 2025201397 **(22)** 27.02.2025  
**(54)** AIR BOOM SPREADER FOR PARTICULATE MATERIAL AND AIR BOOM ASSEMBLY AND DROP TUBE THEREFOR  
**(51)** Int. Cl.  
*A01C 15/04* ( 2006.01 )  
*B05B 1/02* ( 2006.01 )  
*B05B 7/14* ( 2006.01 )  
*B65G 53/04* ( 2006.01 )  
*B65G 53/40* ( 2006.01 )  
**(31)** 63/558,386 **(32)** 27.02.24 **(33)** US  
**(43)** 11.09.2025  
**(72)** Stoeckli, Peter; Averink, John Mark; Held, Gavin; Magee, Mark A.  
**(74)** Ahearn Fox

**(71)** Salford Group Inc.  
**(11)** AU-A-2025201398  
**(21)** 2025201398 **(22)** 27.02.2025  
**(54)** BIDIRECTIONAL BOOM HINGE FOR BOOM SPREADER  
**(51)** Int. Cl.  
*A01C 15/04* ( 2006.01 )  
*A01B 73/04* ( 2006.01 )  
**(31)** 63/558,396 **(32)** 27.02.24 **(33)** US

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(43) 11.09.2025  
 (72) Stoeckli, Peter; Averink, John Mark; Gray, Geof J.; Rozendaal, Jacobus A.; Lehman, Adam Peter; Pasma, Chad Derek; Singh, Bikramjeet  
 (74) Ahearn Fox

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(71) Schlage Lock Company LLC  
 (11) AU-A-2025220808  
 (21) 2025220808 (22) 22.08.2025  
 (54) WIRELESS DEVICE POWER OPTIMIZATION UTILIZING ARTIFICIAL INTELLIGENCE AND/OR MACHINE LEARNING  
 (51) Int. Cl.  
*H04W 52/02* ( 2009.01 )  
*H04W 72/04* ( 2023.01 )  
*H04W 72/12* ( 2023.01 )  
*H04W 84/12* ( 2009.01 )  
*H04W 88/08* ( 2009.01 )  
 (43) 11.09.2025  
 (62) 2024202383  
 (72) KINCAID, Ryan C.; VEN-KATESWARAN, Srikanth; PROSKO, Robert  
 (74) Alder IP Pty Ltd

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(71) Schreder S.A.  
 (11) AU-A-2025220855  
 (21) 2025220855 (22) 22.08.2025  
 (54) Managing a network comprising multiple communication devices  
 (51) Int. Cl.  
*H04L 12/28* ( 2006.01 )  
*H04W 52/02* ( 2009.01 )  
 (43) 11.09.2025  
 (62) 2020218627  
 (72) BRAND, Daniel; VAN WINKEL, Koentraad  
 (74) IP Sentinels

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(71) ServiceNow, Inc.  
 (11) AU-A-2025201440  
 (21) 2025201440 (22) 27.02.2025  
 (54) Systems and methods for generating workflows based on natural language inputs using large language models  
 (51) Int. Cl.  
*G06Q 10/10* ( 2023.01 )  
 (31) 18/588492 (32) 27.02.24 (33) US  
 (43) 11.09.2025  
 (72) LEFEVER, Jason Allen; ALVARADO JIMINEZ, Alberto; BIMSCHLEGER, Brian Paul; BURMAN, Jacob Samuel; EICHENBERG, Ian Chandler; GOLAB, Adam Emon; GUEZ, Yaron; OLSSON, Jan Ove Kristian; ABOU SAMAH, Michel; SEYMOUR, Paul; VAISLER, Ofer  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Shenzhen Prime Logic Technology Co., Ltd  
 (11) AU-A-2024201286  
 (21) 2024201286 (22) 27.02.2024  
 (54) APPARATUS FOR DETERMINING VEHICLE BATTERY STATE

(51) Int. Cl.  
*G01R 19/165* ( 2006.01 )  
*G01R 31/36* ( 2020.01 )  
*H02J 7/14* ( 2006.01 )  
*F02N 11/08* ( 2006.01 )  
 (43) 11.09.2025  
 (72) NG, Cleo Man Oi  
 (74) Churchill Attorneys

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(71) Sigilon Therapeutics, Inc.  
 (11) AU-A-2025213622  
 (21) 2025213622 (22) 07.08.2025  
 (54) IMPLANTABLE PARTICLES AND RELATED METHODS  
 (51) Int. Cl.  
*A61K 9/50* ( 2006.01 )  
*A61K 35/00* ( 2006.01 )  
*C08B 37/00* ( 2006.01 )  
*C12N 5/00* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019248516  
 (72) MILLER, Robert James; BARNEY, Lauren Emily; JOHNSTON, Erika Ellen; HEIDEBRECHT, Richard; BEAUREGARD, Michael; VEISEH, Omid; CARMONA, Guillaume; GONZALEZ, Francisco Caballero; OBERLI, Matthias Alexander; PERITT, David; SMITH, Devyn Mckinley; WOTTON, Paul Kevin; O'CONNOR, Owen; SEWELL, Jared A.  
 (74) Pearce IP Pty Ltd

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(71) Silverwood, A.  
 (11) AU-A-2024201194  
 (21) 2024201194 (22) 22.02.2024  
 (54) A DIFFUSER  
 (51) Int. Cl.  
*A01M 1/20* ( 2006.01 )  
*A01P 7/04* ( 2006.01 )  
*A01N 59/20* ( 2006.01 )  
*C02F 1/68* ( 2023.01 )  
 (43) 11.09.2025  
 (72) Silverwood, Alan  
 (74) Wynnes Patent and Trade Mark Attorneys Pty Ltd

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(71) Sohao FD-Tech Co., Ltd.; Jiangnan University  
 (11) AU-A-2025201425  
 (21) 2025201425 (22) 27.02.2025  
 (54) Preparation method of 3D printed easy-to-swallow cereal-based food based on special shape  
 (51) Int. Cl.  
*A23L 7/117* ( 2016.01 )  
*A23L 29/10* ( 2016.01 )  
*A23L 29/206* ( 2016.01 )  
*A23L 29/25* ( 2016.01 )  
*A23P 30/00* ( 2016.01 )  
 (31) 202410216658.X (32) 27.02.24 (33) CN  
 202410235209.X 01.03.24 CN  
 (43) 11.09.2025  
 (72) YU, Dongxing; YU, Wanshuai; ZHANG, Min; GUO, Jia; MUJUMDAR, Arun Sadasshiv  
 (74) A.P.T. Patent and Trade Mark Attorneys

(71) SPYDERTECH CONSULTING PTY LTD  
 (11) AU-A-2025220811  
 (21) 2025220811 (22) 22.08.2025  
 (54) HANDLER OBJECT FOR WORKFLOW MANAGEMENT SYSTEM  
 (51) Int. Cl.  
*G06Q 10/06* ( 2023.01 )  
 (43) 11.09.2025  
 (62) 2024200855  
 (72) Schwarzler, Ricci; Hackett, Darrin; King, Michael; Christopoulos, Anthony; Ding, Andrew  
 (74) JMSD IP Pty Ltd

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(71) Stamm Vegh Corporation  
 (11) AU-A-2025220737  
 (21) 2025220737 (22) 20.08.2025  
 (54) Continuous flow microbioreactor  
 (51) Int. Cl.  
*C12M 1/00* ( 2006.01 )  
*C12M 1/12* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019357997  
 (72) LLAMAZARES VEGH, Juan Francisco  
 (74) FB Rice Pty Ltd

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(71) Stryker Corporation  
 (11) AU-A-2025220803  
 (21) 2025220803 (22) 22.08.2025  
 (54) Surgical irrigation cassette  
 (51) Int. Cl.  
*A61M 1/16* ( 2006.01 )  
*A61M 1/00* ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019346373  
 (72) FINEOUT, Ben; MERKEL, Brett; BODNAR, Jonathan; BALDWIN, Robert Mitchell; ARTHUR, Marc; ROLFSON, Steve  
 (74) Davies Collision Cave Pty Ltd

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(71) Stryker Corporation  
 (11) AU-A-2025220807  
 (21) 2025220807 (22) 22.08.2025  
 (54) Ultrasonic surgical handpiece assembly  
 (51) Int. Cl.  
*A61B 90/98* ( 2016.01 )  
*A61B 17/00* ( 2006.01 )  
*A61B 17/32* ( 2006.01 )  
*A61B 90/00* ( 2016.01 )  
 (43) 11.09.2025  
 (62) 2019349653  
 (72) JAMES, Megan; FINEOUT, Benjamin; OTA, Hidefumi; WROBLEWSKI, Jason; ARTHUR, Marc; MALLERY, Erika; ROLFSEN Jr., Steven; GRAS, Guillaume; HEAVEY, Cathal; MCCARTHY, Conor  
 (74) Davies Collision Cave Pty Ltd

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(71) Suntory Holdings Limited  
 (11) AU-A-2025220878  
 (21) 2025220878 (22) 25.08.2025  
 (54) Composition  
 (51) Int. Cl.  
*A23L 2/52* ( 2006.01 )



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**(43)** 11.09.2025  
**(62)** 2019391944  
**(72)** ITOYAMA, Akinori; ASAMI, Yoji; FUJIE, Akiko; SARADA, Shigeru  
**(74)** Griffith Hack
- 
- (71)** Syngenta Crop Protection AG  
**(11)** AU-A-2025220851  
**(21)** 2025220851 **(22)** 22.08.2025  
**(54)** Fungicidal compositions  
**(51)** Int. Cl.  
**A01N 43/40** ( 2006.01 )  
**A01P 3/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2020271396  
**(72)** LAMBERTH, Clemens; BEAUDEG-NIES, Renaud; RENDINE, Stefano; BLUM, Mathias; POULIOT, Martin  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** SYSTEMS IP PTY LTD  
**(11)** AU-A-2025220827  
**(21)** 2025220827 **(22)** 22.08.2025  
**(54)** A playground apparatus with overpass  
**(51)** Int. Cl.  
**A63B 17/00** ( 2006.01 )  
**A63B 9/00** ( 2006.01 )  
**A63G 31/00** ( 2006.01 )  
**E04H 15/58** ( 2006.01 )  
**E04H 15/60** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2025200871  
**(72)** ANDON, Joe; Yamada, Akira; Williams, Michael  
**(74)** JMSD IP Pty Ltd
- 
- (71)** Systems Spray-Cooled, Inc.  
**(11)** AU-A-2025220843  
**(21)** 2025220843 **(22)** 22.08.2025  
**(54)** Dynamic cooling of a metallurgical furnace  
**(51)** Int. Cl.  
**F27D 9/00** ( 2006.01 )  
**F27D 19/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019358883  
**(72)** FERGUSON, Scott A.; WARD, Troy D.; WILSON, Logan A.  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** Taiwan Fu Hsing Industrial Co., Ltd.  
**(11)** AU-A-2024202802  
**(21)** 2024202802 **(22)** 30.04.2024  
**(54)** Electronic lock and driving method of electronic lock  
**(51)** Int. Cl.  
**E05B 47/06** ( 2006.01 )  
**E05B 1/04** ( 2006.01 )  
**E05C 1/02** ( 2006.01 )  
**(31)** 113106557 **(32)** 23.02.24 **(33)** TW  
**(43)** 11.09.2025  
**(72)** LU, Shih-Min  
**(74)** Griffith Hack

- (71)** Takeda Pharmaceutical Company Limited  
**(11)** AU-A-2025205070  
**(21)** 2025205070 **(22)** 02.07.2025  
**(54)** Treatment Of Patients With Severe Von Willebrand Disease Undergoing Elective Surgery By Administration Of Recombinant VWF  
**(51)** Int. Cl.  
**A61K 38/36** ( 2006.01 )  
**A61P 7/04** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2018298232  
**(72)** CHAPMAN, Miranda; EWENSTEIN, Bruce; PLODER, Bettina  
**(74)** WRAYS PTY LTD
- 
- (71)** Techtronic Cordless GP  
**(11)** AU-A-2024278359  
**(21)** 2024278359 **(22)** 12.12.2024  
**(54)** Battery-Powered Power Tool  
**(51)** Int. Cl.  
**H01M 10/48** ( 2006.01 )  
**B25F 5/00** ( 2006.01 )  
**H01M 50/247** ( 2021.01 )  
**H01M 50/569** ( 2021.01 )  
**H02J 7/00** ( 2006.01 )  
**(31)** 202024100922.3 **(32)** 27.02.24 **(33)** DE  
**(43)** 11.09.2025  
**(72)** CHEN, Zi Cong; WEN, Chao  
**(74)** WRAYS PTY LTD
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- (71)** Tenfold Technologies, LLC; Danquah, M.K.; Chisholm, R.D.; Welsh, A.K.; Perry, L.M.; Hinchee, M.A.; Rajagopal, S.; Redublo, J.J.  
**(11)** AU-A-2025220809  
**(21)** 2025220809 **(22)** 22.08.2025  
**(54)** Biological degradation of low-rank coals  
**(51)** Int. Cl.  
**C12P 1/04** ( 2006.01 )  
**C12N 1/20** ( 2006.01 )  
**C12P 5/00** ( 2006.01 )  
**C12P 7/00** ( 2006.01 )  
**C12P 7/24** ( 2006.01 )  
**C12P 13/00** ( 2006.01 )  
**C12P 39/00** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019387567  
**(72)** CHISHOLM, Robert D.; RAJAGOPAL, Smrithi; HINCHEE, Maud A.W.; WELSH, Allana K.; DANQUAH, Michael K.; PERRY, Leslie M.; REDUBLO, Josh J.  
**(74)** Spruson & Ferguson
- 
- (71)** The Board of Trustees of the University of Illinois  
**(11)** AU-A-2025220735  
**(21)** 2025220735 **(22)** 20.08.2025  
**(54)** Hinokitiol analogues, methods of preparing and pharmaceutical compositions thereof  
**(51)** Int. Cl.  
**C07D 263/02** ( 2006.01 )  
**A61P 7/06** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
**A61P 31/18** ( 2006.01 )  
**C07D 263/20** ( 2006.01 )

- C07D 263/30** ( 2006.01 )  
**C07D 263/34** ( 2006.01 )  
**C07D 263/38** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2019252933  
**(72)** BURKE, Martin, D.; GRILLO, Anthony, S.; CIOFFI, Alexander, G.; SANTAMARIA, Anna; BLAIR, Daniel; BLAKE, Andrew  
**(74)** FB Rice Pty Ltd
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- (71)** The BOT of the Leland Stanford Junior University  
**(11)** AU-A-2025220813  
**(21)** 2025220813 **(22)** 22.08.2025  
**(54)** Treatment of post-bariatric hypoglycemia with GLP-1 antagonists  
**(51)** Int. Cl.  
**A61K 38/17** ( 2006.01 )  
**A61P 3/10** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2022202506  
**(72)** McLAUGHLIN, Tracey L.; CRAIG, Colleen M.  
**(74)** FB Rice Pty Ltd
- 
- (71)** The Regents of the University of California  
**(11)** AU-A-2025220845  
**(21)** 2025220845 **(22)** 22.08.2025  
**(54)** COGNITION AND MEMORY ENHANCEMENT VIA MULTIPLE ODORANT STIMULATION  
**(51)** Int. Cl.  
**A61M 11/00** ( 2006.01 )  
**A61L 9/00** ( 2006.01 )  
**A61L 9/12** ( 2006.01 )  
**A61L 9/14** ( 2006.01 )  
**B05B 12/02** ( 2006.01 )  
**B05B 12/04** ( 2006.01 )  
**B05B 12/14** ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2024202087  
**(72)** LEON, Michael  
**(74)** Pearce IP Pty Ltd
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- The Wistar Institute of Anatomy and Biology see Inovio Pharmaceuticals, Inc.**  
**(21)** 2025220829
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- (71)** Tillotts Pharma AG  
**(11)** AU-A-2025220793  
**(21)** 2025220793 **(22)** 21.08.2025  
**(54)** DELAYED RELEASE DRUG FORMULATION COMPRISING AN OUTER LAYER WITH AN ENZYMATICALLY DEGRADABLE POLYMER, ITS COMPOSITION AND ITS METHOD OF MANUFACTURING  
**(51)** Int. Cl.  
**A61K 9/28** ( 2006.01 )  
**A61K 9/20** ( 2006.01 )  
**A61K 9/48** ( 2006.01 )  
**A61K 31/606** ( 2006.01 )

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 (62) 2019392854  
 (72) VARUM, Felipe; VON ROCHOW, Laetitia; FÜLLER, Carsten Markus; BRAVO GONZALEZ, Roberto Carlos  
 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Translate Bio, Inc.  
 (11) AU-A-2025220814  
 (21) 2025220814 (22) 22.08.2025  
 (54) DRY POWDER FORMULATIONS FOR MESSENGER RNA  
 (51) Int. Cl.  
 A61K 9/00 ( 2006.01 )  
 A61K 9/127 ( 2006.01 )  
 A61K 9/16 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019309940  
 (72) KARVE, Shirang; DEROSA, Frank; HEARTLEIN, Michael; PATEL, Zarna; SARODE, Ashish  
 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Translate Bio, Inc.  
 (11) AU-A-2025220817  
 (21) 2025220817 (22) 22.08.2025  
 (54) PEG LIPIDOID COMPOUNDS  
 (51) Int. Cl.  
 A61K 47/54 ( 2017.01 )  
 A61K 47/60 ( 2017.01 )  
 A61K 47/69 ( 2017.01 )  
 (43) 11.09.2025  
 (62) 2019374871  
 (72) KARVE, Shirang; ZHANG, Yi; DEROSA, Frank; HEARTLEIN, Michael  
 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Transportation IP Holdings, LLC  
 (11) AU-A-2025201532  
 (21) 2025201532 (22) 03.03.2025  
 (54) VEHICLE CONTROL SYSTEMS AND METHODS  
 (51) Int. Cl.  
 G05D 1/646 ( 2024.01 )  
 B61L 27/16 ( 2022.01 )  
 B61L 27/40 ( 2022.01 )  
 B61L 27/60 ( 2022.01 )  
 G05D 1/22 ( 2024.01 )  
 G05D 1/24 ( 2024.01 )  
 G05D 1/69 ( 2024.01 )  
 G05D 111/50 ( 2024.01 )  
 (31) 18/589,793 (32) 28.02.24 (33) US  
 (43) 11.09.2025  
 (72) OSWALD, James A.; CHAPMAN, Jeffrey D.; KERNWEIN, Jeffrey D.; LITTLE, Jared; MUDIAM, Vinaykanth V.  
 (74) K&L Gates

(71) Tung Hing Plastic Manufactory Limited  
 (11) AU-A-2025201093  
 (21) 2025201093 (22) 17.02.2025  
 (54) HAIR FASTENERS  
 (51) Int. Cl.  
 A45D 8/20 ( 2006.01 )

(31) 18/587,936 (32) 26.02.24 (33) US  
 (43) 11.09.2025  
 (72) SZE, Ka Chuen  
 (74) JMSD IP Pty Ltd

(71) Tyler, A.  
 (11) AU-A-2024201632  
 (21) 2024201632 (22) 13.03.2024  
 (54) Probiotic combinations for ingestion, that restore the specific gut bacteria which are killed by antibiotics and other medications. This includes a different combination for each different antibiotic and medication.  
 (51) Int. Cl.  
 A61K 35/741 ( 2015.01 )  
 A61P 1/00 ( 2006.01 )  
 A61K 35/00 ( 2006.01 )  
 (31) 2024900462 (32) 26.02.24 (33) AU  
 (43) 11.09.2025  
 (72) Tyler, Andrew  
 (74) Andrew Tyler

(71) Umano Medical Inc.  
 (11) AU-A-2025201310  
 (21) 2025201310 (22) 24.02.2025  
 (54) PATIENT SUPPORT SURFACE HAVING A PNEUMATIC CONTROL ASSEMBLY  
 (51) Int. Cl.  
 A61G 7/057 ( 2006.01 )  
 (31) 63/558,342 (32) 27.02.24 (33) US  
 (43) 11.09.2025  
 (72) Lacasse, Sylvain; Poulin, Pascal; Gregoire, Thomas; Nadeau, Pierre-Luc; Fortin, Miguel; Lainé, Audrey; La-voie, Martin; Bolduc, Steve; Marcotte, Jérôme  
 (74) Franke Hyland Pty Ltd

(71) Unigen, Inc.  
 (11) AU-A-2025220850  
 (21) 2025220850 (22) 22.08.2025  
 (54) Compositions for regulating homeostasis of cortisol and improving sleep quality and methods of use and production thereof  
 (51) Int. Cl.  
 A61K 31/423 ( 2006.01 )  
 A61K 36/88 ( 2006.01 )  
 A61P 25/00 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2022284887  
 (72) YIMAM, Mesfin; HORM, Teresa; JIA, Qi; BROWNELL, Lidia; JIAO, Ping  
 (74) Spruson & Ferguson

(71) VERSUNI HOLDING B.V.  
 (11) AU-A-2025204333  
 (21) 2025204333 (22) 29.01.2025  
 (54) BEVERAGE MACHINE HAVING A GRANULAR MATERIAL DISPENSER AND A LIQUID DISPENSER  
 (51) Int. Cl.  
 A47J 31/40 ( 2006.01 )  
 (31) 24160057.6 (32) 27.02.24 (33) EP

(43) 11.09.2025  
 (72) NOORDHUIS, Joeke; WESTRUP, Geert Hendrik; AALFS, Daniel; OP-STAL VAN, Edwin; VAN BOXTEL, Jaap  
 (74) FB Rice Pty Ltd

(71) Verve Therapeutics, Inc.  
 (11) AU-A-2025204175  
 (21) 2025204175 (22) 04.06.2025  
 (54) Base editing of ANGPTL3 and methods of using same for treatment of disease  
 (51) Int. Cl.  
 C12N 15/11 ( 2006.01 )  
 A61K 48/00 ( 2006.01 )  
 C07H 21/04 ( 2006.01 )  
 C12N 15/00 ( 2006.01 )  
 C12N 15/82 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2021252991  
 (72) CHADWICK, Alexandra; RAJEEV, Kallanthottathil G.; ROHDE, Ellen; CHENG, Christopher; REISS, Caroline  
 (74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Viking Therapeutics, Inc.  
 (11) AU-A-2025220854  
 (21) 2025220854 (22) 22.08.2025  
 (54) Compositions and methods for the treatment of Liver Disorders  
 (51) Int. Cl.  
 A61K 31/662 ( 2006.01 )  
 A61K 31/192 ( 2006.01 )  
 A61K 31/216 ( 2006.01 )  
 A61K 31/40 ( 2006.01 )  
 A61K 31/4178 ( 2006.01 )  
 A61K 31/428 ( 2006.01 )  
 A61K 31/46 ( 2006.01 )  
 A61K 31/53 ( 2006.01 )  
 A61K 31/575 ( 2006.01 )  
 A61K 31/665 ( 2006.01 )  
 A61K 38/26 ( 2006.01 )  
 A61P 1/16 ( 2006.01 )  
 A61P 19/04 ( 2006.01 )  
 (43) 11.09.2025  
 (62) 2019394947  
 (72) LIAN, Brian; MASAMUNE, Hiroko  
 (74) Davies Collison Cave Pty Ltd

Waugh, D. see Waugh, E.  
 (21) 2025201356

(71) Waugh, E.; Waugh, D.  
 (11) AU-A-2025201356  
 (21) 2025201356 (22) 25.02.2025  
 (54) Storage unit  
 (51) Int. Cl.  
 B60R 7/04 ( 2006.01 )  
 B60P 3/36 ( 2006.01 )  
 B60R 7/00 ( 2006.01 )  
 B60R 11/00 ( 2006.01 )  
 (31) 2024900460 (32) 26.02.24 (33) AU  
 (43) 11.09.2025  
 (72) Waugh, Ebony; Waugh, Daniel  
 (74) Davies Collison Cave Pty Ltd

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**(21)** 2025220809

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**(71)** WONDERLAND SWITZERLAND AG  
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**(21)** 2025220815 **(22)** 22.08.2025  
**(54)** Safety Seat  
**(51)** Int. Cl.  
*B60N 2/28* ( 2006.01 )  
**(43)** 11.09.2025  
**(62)** 2022300303  
**(72)** GUO, Zhengwen; MO, Xiaolong  
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Xenipro GmbH  
**(11)** AU-A-2025220746  
**(21)** 2025220746 **(22)** 20.08.2025  
**(54)** Aromatic molecules for use in the treatment of pathological conditions  
**(51)** Int. Cl.

*A61P 17/06* ( 2006.01 )  
*A61K 31/13* ( 2006.01 )  
*A61K 31/166* ( 2006.01 )  
*A61K 31/396* ( 2006.01 )  
*A61K 31/397* ( 2006.01 )  
*A61K 31/44* ( 2006.01 )  
*A61P 21/00* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07C 233/00* ( 2006.01 )  
*C07D 205/04* ( 2006.01 )  
*C07D 211/14* ( 2006.01 )  
*C07D 211/22* ( 2006.01 )  
*C07D 213/30* ( 2006.01 )  
*C07D 263/32* ( 2006.01 )  
*C07D 277/22* ( 2006.01 )  
*C07D 295/092* ( 2006.01 )  
*C07D 305/04* ( 2006.01 )  
*C07D 309/00* ( 2006.01 )  
*C07D 309/06* ( 2006.01 )  
*C07D 331/04* ( 2006.01 )  
*C07D 401/12* ( 2006.01 )  
*C07D 405/12* ( 2006.01 )  
*C07D 407/12* ( 2006.01 )  
*C07D 409/12* ( 2006.01 )  
*C07D 413/12* ( 2006.01 )  
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**(43)** 11.09.2025  
**(62)** 2019323712  
**(72)** REINMÜLLER, Viktoria; MARTY, Roman; WAGNIÈRES, Olivier; GUALTIEROTTI, Jean-Baptiste; KÜPPERS, Verena  
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Yokogawa Electric Corporation  
**(11)** AU-A-2025201306  
**(21)** 2025201306 **(22)** 24.02.2025  
**(54)** Water processing system and water processing method  
**(51)** Int. Cl.

*C02F 1/44* ( 2023.01 )  
*B01D 61/08* ( 2006.01 )  
*B01D 61/12* ( 2006.01 )  
*B01D 61/18* ( 2006.01 )  
*B01D 61/22* ( 2006.01 )  
*C02F 1/461* ( 2023.01 )  
*G05D 7/00* ( 2006.01 )  
*G05D 16/04* ( 2006.01 )  
*G05D 21/00* ( 2006.01 )

*G05D 23/01* ( 2006.01 )  
**(31)** 2024-027005 **(32)** 26.02.24 **(33)** JP  
**(43)** 11.09.2025  
**(72)** MATSUI, Yasuhiro  
**(74)** FB Rice Pty Ltd

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**(71)** Young, M.  
**(11)** AU-A-2024201203  
**(21)** 2024201203 **(22)** 22.02.2024  
**(54)** Converting an En Tout Cas Tennis Court into a Genuine Clay Tennis Court  
**(51)** Int. Cl.  
*E01C 13/06* ( 2006.01 )  
*A63C 19/00* ( 2006.01 )  
*E01C 23/00* ( 2006.01 )  
*A01B 45/00* ( 2006.01 )  
**(43)** 11.09.2025  
**(72)** Young, Morgan  
**(74)** Morgan Young

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**(21)** 2025220860

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**(71)** ZHONGSHAN HOSPITAL, FUDAN UNIVERSITY  
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**(21)** 2024361197 **(22)** 29.07.2024  
**(54)** COMBINED SYSTEM OF CONCEALED CLOSED TRACHEOSCOPE AND ARTIFICIAL AIRWAY BREATHING CIRCUIT  
**(51)** Int. Cl.  
*A61M 16/04* ( 2006.01 )  
*A61B 1/06* ( 2006.01 )  
*A61B 1/267* ( 2006.01 )  
*A61M 16/08* ( 2006.01 )  
*A61M 16/10* ( 2006.01 )  
**(31)** 202410220471.7 **(32)** 28.02.24 **(33)** CN  
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**(43)** 11.09.2025  
**(72)** JIANG, Jinjun; CHEN, Shujing  
**(74)** Davies Collison Cave Pty Ltd

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**2025220893** Guangdong Oppo Mobile Telecommunications Corp., Ltd.  
  
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**2025220903** FISHER & PAYKEL HEALTHCARE LIMITED  
**2025220904** NANJING CHERVON INDUSTRY CO., LTD.  
**2025220905** Dialight Corporation  
**2025220907** JCM American Corporation  
**2025220908** Merck Patent GmbH  
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**2025223749** Kalliontzis, G.; Kalliontzis, J.  
**2025223750** BEIJING JINGDONG ZHENSHI INFORMATION TECHNOLOGY CO., LTD.

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<b>A23C 9 /-</b> 2025220875	<b>A61B 46 /-</b> 2025213582	<b>A61M 16 /-</b> 2024361197 2025200909 2025217360 2025220782 2025220788 2025220816 2025220822 2025220902 2025220903	<b>A61M 5 /-</b> 2025220759 2025223748	<b>A61P 53 /-</b> 2025205514	<b>B25B 11 /-</b> 2025223749
<b>A23J 1 /-</b> 2025220875	<b>A61B 5 /-</b> 2025220758	<b>A61M 16 /-</b> 2024361197 2025200909 2025217360 2025220782 2025220788 2025220816 2025220822 2025220902 2025220903	<b>A61M 5 /-</b> 2025220759 2025223748	<b>A61P 55 /-</b> 2025205514	<b>B25C 1 /-</b> 2025200634
<b>A23L 2 /-</b> 2025220875 2025220878	<b>A61B 6 /-</b> 2024201199	<b>A61M 16 /-</b> 2024361197 2025200909 2025217360 2025220782 2025220788 2025220816 2025220822 2025220902 2025220903	<b>A61M 5 /-</b> 2025220759 2025223748	<b>A61P 57 /-</b> 2025205070 2025220735	<b>B25C 5 /-</b> 2025200634
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<b>B62J 27 /-</b> 2024201280	<b>C07D 413 /-</b> 2025220746	<b>C12P 5 /-</b> 2025220809	<b>E21B 4 /-</b> 2025223747	<b>F28D 1 /-</b> 2025220822	<b>G05D 23 /-</b> 2025201306
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- (This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

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 (11) AU-A-2019101868  
 (21) 2019101868 (22) 19.12.2019  
 (54) IMPROVEMENTS IN CIRCUIT IDENTIFICATION ON WALL MOUNTED ELECTRICAL OUTLETS AND SWITCH PLATES  
 (51) Int. Cl.  
*H01H 9/02* ( 2006.01 )  
*H01R 9/26* ( 2006.01 )  
*H01R 13/46* ( 2006.01 )  
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 (72) Caillebotte, Marie; Gransbury, Kenneth Basil  
 (74) Madderns Pty Ltd

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     A61M 60/178 ( 2021.01 )  
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 (51) Int. Cl.  
     A61K 31/4155 ( 2006.01 )  
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 (72) MOUSSY, Alain; MANSFIELD, Colin  
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 (21) 2024255201 (22) 12.04.2024  
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     C40B 40/08 ( 2006.01 )  
     C07K 7/00 ( 2006.01 )  
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     A61K 38/00 ( 2006.01 )  
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     A61P 43/00 ( 2006.01 )  
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 (72) HOFFMANN, Thomas; FERNANDEZ SANTANA III, Agustin; SCHMIDT, Walter  
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 (21) 2024233848 (22) 06.03.2024  
 (54) COMPOSITIONS COMPRISING 15-HEPE AND METHODS OF TREATING AND/OR PREVENTING HEMATOLOGIC DISORDERS AND RELATED DISEASES  
 (51) Int. Cl.  
     A61K 31/202 ( 2006.01 )  
     A61K 31/232 ( 2006.01 )  
     A61K 45/06 ( 2006.01 )  
     A61P 7/00 ( 2006.01 )  
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     A61P 7/04 ( 2006.01 )  
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 (43) 12.09.2024  
 (72) CLIMAX, John; HAMZA, Moayed  
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(71) AGRI SMILE, INC.  
 (11) AU-A-2024228770  
 (21) 2024228770 (22) 28.02.2024  
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 (51) Int. Cl.  
     A01N 65/42 ( 2009.01 )  
     A01G 7/06 ( 2006.01 )  
     A01G 31/00 ( 2018.01 )  
     A01P 21/00 ( 2006.01 )  
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 (72) HAYASHI, Daisuke; WATANABE, Hiroko  
 (74) Davies Collison Cave Pty Ltd

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(71) AIZEN GLOBAL CO., INC.  
 (11) AU-A-2023425816  
 (21) 2023425816 (22) 13.11.2023  
 (54) METHOD FOR IMPLEMENTING EV ECOSYSTEM AND DEVICE FOR PERFORMING SAME METHOD  
 (51) Int. Cl.  
     G06Q 10/08 ( 2024.01 )  
     B60L 53/80 ( 2019.01 )  
     G06Q 10/06 ( 2023.01 )  
     G06Q 30/02 ( 2023.01 )  
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 (72) KANG, Jung Seok  
 (74) FPA Patent Attorneys Pty Ltd

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(71) AJINOMOTO CO., INC.  
 (11) AU-A-2024221604  
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 (54) METHOD FOR SECRETORY PRODUCTION OF PROTEINS  
 (51) Int. Cl.  
     C12P 21/02 ( 2006.01 )  
     C07K 19/00 ( 2006.01 )  
     C12N 1/21 ( 2006.01 )  
     C12N 9/04 ( 2006.01 )  
     C12N 15/53 ( 2006.01 )  
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 (54) SYSTEMS AND METHODS FOR SEED TRAIN OPTIMIZATION  
 (51) Int. Cl.  
     C12M 3/00 ( 2006.01 )  
     C12M 1/36 ( 2006.01 )  
     G16B 5/00 ( 2019.01 )  
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- (51) Int. Cl.  
**A23K 20/20** ( 2016.01 )  
**A23K 20/105** ( 2016.01 )  
**A61K 33/06** ( 2006.01 )  
**C07C 53/10** ( 2006.01 )  
**C07C 53/124** ( 2006.01 )  
**C07C 53/126** ( 2006.01 )  
**C07C 57/44** ( 2006.01 )  
**C07C 63/08** ( 2006.01 )  
**C07D 213/80** ( 2006.01 )  
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**G01L 5/10** ( 2020.01 )  
**B65H 63/02** ( 2006.01 )  
**B65H 63/04** ( 2006.01 )
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**A61F 2/95** ( 2013.01 )
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(74) FPA Patent Attorneys Pty Ltd
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**G01N 33/564** ( 2006.01 )  
**A61K 39/00** ( 2006.01 )  
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**G01N 33/68** ( 2006.01 )
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**A61P 13/12** ( 2006.01 )
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**C12M 3/00** ( 2006.01 )  
**C12M 1/34** ( 2006.01 )  
**C12N 5/073** ( 2010.01 )
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**A61K 31/165** ( 2006.01 )  
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**A61K 31/352** ( 2006.01 )  
**A61K 31/355** ( 2006.01 )  
**A61K 31/375** ( 2006.01 )  
**A61K 31/522** ( 2006.01 )  
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**A61P 29/00** ( 2006.01 )  
**A61P 43/00** ( 2006.01 )
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(54) COOLING TECHNIQUES FOR BATTERY PACKAGES  
(51) Int. Cl.  
**H01M 10/65** ( 2014.01 )  
**B60L 58/24** ( 2019.01 )  
**H01M 10/613** ( 2014.01 )  
**H01M 50/20** ( 2021.01 )
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(54) ARCHITECTURE FOR BATTERY PACKS  
(51) Int. Cl.  
**B60L 58/10** ( 2019.01 )  
**G01R 31/396** ( 2019.01 )  
**H01M 10/48** ( 2006.01 )  
**G01R 31/385** ( 2019.01 )  
**H01M 10/63** ( 2014.01 )
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(54) TRIGGER CELL FOR TRIGGERING THERMAL RUNAWAY IN BATTERIES  
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**G01K 7/02** ( 2021.01 )  
**G01R 31/28** ( 2006.01 )  
**H01M 10/6571** ( 2014.01 )

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 (74) Davies Collison Cave Pty Ltd

(71) BAKER HUGHES OILFIELD OPERATIONS LLC  
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 (54) FRANGIBLE DISK SUB, METHOD AND SYSTEM  
 (51) Int. Cl.  
*E21B 34/06* (2006.01)  
*E21B 34/10* (2006.01)

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 (74) FPA Patent Attorneys Pty Ltd

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 (11) AU-A-2024248738  
 (21) 2024248738 (22) 25.03.2024  
 (54) PHARMACEUTICAL DOSAGE FORMS COMPRISING (4S)-24-CHLORO-4-ETHYL-73-FLUORO-35-METHOXY-32,5-DI-OXO-14-(TRIFLUOROMETHYL)-32H-6-AZA-3(4,1)-PYRIDINA-1(1)-[1,2,3]TRIAZOLA-2(1,2),7(1)-DIBENZENAHEPTAPHANE-74-CARBOXAMIDE  
 (51) Int. Cl.  
*A61K 9/00* (2006.01)  
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*A61K 9/20* (2006.01)  
*A61K 31/4439* (2006.01)  
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 (54) CONVENIENT SINGLE DOSE MR CONTRAST AGENT PACKAGE AND ACCURATE DELIVERY SYSTEM  
 (51) Int. Cl.  
*A61M 5/28* (2006.01)  
*A61M 39/08* (2006.01)  
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 (43) 03.10.2024  
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 (54) SUNSCREEN CONTAINING TEREPHTHALYLIDENE DICAMPFOR SULFONIC ACID AND GLYCOLS  
 (51) Int. Cl.  
*A61K 8/34* (2006.01)  
*A61K 8/46* (2006.01)  
*A61Q 17/04* (2006.01)  
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 (11) AU-A-2024247358  
 (21) 2024247358 (22) 19.03.2024  
 (54) METHOD FOR DETERMINING AN INSULATION RESISTANCE AND A DISCHARGE CAPACITANCE OF AN UN-EARTHED POWER SUPPLY SYSTEM  
 (51) Int. Cl.  
*G01R 27/18* (2006.01)  
*G01R 27/02* (2006.01)  
*G01R 27/20* (2006.01)  
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 (21) 2024246364 (22) 19.03.2024  
 (54) IMPROVEMENTS RELATING TO THE STOPPERING OF CONTAINERS  
 (51) Int. Cl.  
*A61M 11/00* (2006.01)  
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 (54) GASTROINTESTINAL HEALTH SUPPLEMENTS  
 (51) Int. Cl.  
*A23L 33/10* (2016.01)  
*A23L 2/39* (2006.01)  
*A23L 33/105* (2016.01)  
*A23L 33/135* (2016.01)  
 (87) WO2024/196861  
 (31) 63/490,818 (32) 17.03.23 (33) US  
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 (74) Kings Patent & Trade Marks Attorneys Pty Ltd

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 (54) CONDITIONALLY ACTIVE ANTI-EP-CAM ANTIBODIES, ANTIBODY FRAGMENTS AND CONSTRUCTS INCORPORATING SAME  
 (51) Int. Cl.  
*C07K 16/30* (2006.01)  
*C07K 16/28* (2006.01)  
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 (31) 63/488,153 (32) 02.03.23 (33) US  
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 (72) SHORT, Jay M.; FREY, Gerhard; CHANG, Hwai Wen  
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(71) BIOHAVEN THERAPEUTICS LTD.  
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 (21) 2024216768 (22) 06.02.2024  
 (54) TREATMENT OF NEURODEGENERATIVE DISORDERS WITH DOXYCYCLINE ALONE OR IN COMBINATION WITH LEVODOPA  
 (51) Int. Cl.  
*A61K 31/198* (2006.01)  
*A61K 31/65* (2006.01)  
*A61K 45/06* (2006.01)  
*A61P 25/16* (2006.01)  
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 (43) 15.08.2024  
 (72) CORIC, Vladimir  
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 (21) 2024217851 (22) 10.02.2024  
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 (51) Int. Cl.  
*A61K 38/39* (2006.01)  
*A61K 47/18* (2017.01)  
*A61K 47/26* (2006.01)  
*C07K 14/78* (2006.01)  
*A61P 3/04* (2006.01)  
*A61P 3/06* (2006.01)  
*A61P 3/10* (2006.01)  
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*C04B 30/00* (2006.01)  
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(74) FPA Patent Attorneys Pty Ltd
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(54) ADDITIVE AND METHOD OF MANUFACTURING SAME  
(51) Int. Cl.  
C05C 7/02 ( 2006.01 )  
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(31) 2022/09407 (32) 28.02.23 (33) ZA  
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(72) BLOM, Gert Frederick  
(74) IP Sentinels
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(54) EGFR INHIBITORS FOR TREATING DISEASE  
(51) Int. Cl.  
C07D 498/22 ( 2006.01 )  
A61K 31/4162 ( 2006.01 )  
A61K 31/437 ( 2006.01 )  
C07D 231/10 ( 2006.01 )  
C07D 519/00 ( 2006.01 )  
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(54) METHOD FOR TESTING THE INTEGRITY OF VIRUS FILTRATION MODULES AND A FILTRATION APPARATUS FOR CARRYING OUT THE METHOD  
(51) Int. Cl.  
B01D 61/14 ( 2006.01 )  
B01D 61/18 ( 2006.01 )  
B01D 61/20 ( 2006.01 )  
B01D 63/02 ( 2006.01 )  
B01D 65/10 ( 2006.01 )  
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(11) AU-A-2024233233  
(21) 2024233233 (22) 04.03.2024  
(54) SYSTEMS FOR DELIVERY OF LIQUID PHARMACEUTICAL COMPOSITIONS IN PARTICULAR COMPRISING ONE OR MORE SGLT-2 INHIBITOR(S)  
(51) Int. Cl.  
A61K 31/70 ( 2006.01 )  
A61K 9/00 ( 2006.01 )  
A61K 38/00 ( 2006.01 )  
A61M 5/31 ( 2006.01 )  
A61P 1/18 ( 2006.01 )  
A61P 3/00 ( 2006.01 )  
A61P 9/00 ( 2006.01 )  
C07H 7/04 ( 2006.01 )  
C07H 15/203 ( 2006.01 )  
C07H 17/00 ( 2006.01 )  
C07H 17/02 ( 2006.01 )  
C07H 19/01 ( 2006.01 )  
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(31) 23160128.7 (32) 06.03.23 (33) EP  
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(54) DISPOSABLE FURLOW INSERTION DEVICE  
(51) Int. Cl.  
A61F 2/26 ( 2006.01 )  
A61B 17/04 ( 2006.01 )  
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(54) BEVERAGE FOAMING APPARATUS  
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A47J 31/44 ( 2006.01 )  
A47J 31/52 ( 2006.01 )  
A47J 31/60 ( 2006.01 )  
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(11) AU-A-2024226382  
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(54) DUST COVER ASSEMBLY FOR STEERING COLUMN AND VEHICLE  
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B60R 13/08 ( 2006.01 )  
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(74) Integrated IP
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(54) DRIVING SYSTEM CONTROL METHOD, DRIVING SYSTEM, APPARATUS, MEDIUM, AND VEHICLE  
(51) Int. Cl.  
B60W 20/50 ( 2016.01 )  
B60W 20/15 ( 2016.01 )  
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(54) PROBES FOR MEASURING MOLECULAR PROXIMITY IN A SAMPLE  
(51) Int. Cl.  
C12Q 1/682 ( 2018.01 )  
C12Q 1/6804 ( 2018.01 )  
C12Q 1/6816 ( 2018.01 )  
(87) WO2024/182634  
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(72) SCHULTE, Samuel, J.; PIERCE, Niles, A.  
(74) Davies Collison Cave Pty Ltd
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(21) 2024242953 (22) 03.04.2024  
(54) ULTRASENSITIVE MOLECULAR DETECTION VIA HYBRIDIZATION CHAIN REACTION  
(51) Int. Cl.  
C12Q 1/6818 ( 2018.01 )  
C12Q 1/682 ( 2018.01 )  
(87) WO2024/211429  
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(43) 10.10.2024  
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(74) Davies Collison Cave Pty Ltd
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- (71) CANON PRODUCTION PRINTING HOLDING B.V.  
(11) AU-A-2024215837  
(21) 2024215837 (22) 22.01.2024  
(54) METHOD FOR OPERATING A PRINTING APPARATUS, PRINTING APPARATUS AND SOFTWARE PRODUCT  
(51) Int. Cl.  
B41J 11/00 ( 2006.01 )  
B41M 7/00 ( 2006.01 )

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 (74) Spruson & Ferguson

(71) CARDIO DIAGNOSTICS, INC.  
 (11) AU-A-2024234017  
 (21) 2024234017 (22) 03.03.2024  
 (54) COMPUTER-IMPLEMENTED DASHBOARD PROVIDING DYNAMIC DIGITAL HEALTHCARE DATA  
 (51) Int. Cl.  
 G16B 45/00 ( 2019.01 )  
 G16B 20/00 ( 2019.01 )  
 G16B 50/20 ( 2019.01 )  
 G16H 10/40 ( 2018.01 )  
 G16H 10/60 ( 2018.01 )  
 G16H 20/10 ( 2018.01 )  
 G16H 50/20 ( 2018.01 )  
 G16H 50/30 ( 2018.01 )  
 G06F 3/048 ( 2013.01 )  
 G06F 16/26 ( 2019.01 )  
 G06F 16/904 ( 2019.01 )  
 G16B 5/00 ( 2019.01 )  
 (87) WO2024/186711  
 (31) 63/488,463 (32) 03.03.23 (33) US  
 (43) 12.09.2024  
 (72) DOGAN, Timur K.; DOGAN, Meeshanthini V.; PHILIBERT, Robert A.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) CARDIO DIAGNOSTICS, INC.  
 (11) AU-A-2024248181  
 (21) 2024248181 (22) 29.03.2024  
 (54) METHODS AND COMPOSITIONS FOR PREDICTING AND/OR MONITORING CARDIOVASCULAR DISEASE AND INTERVENTIONS THEREFOR  
 (51) Int. Cl.  
 C12Q 1/6883 ( 2018.01 )  
 G16B 20/20 ( 2019.01 )  
 G16B 30/00 ( 2019.01 )  
 (87) WO2024/206958  
 (31) 63/455,888 (32) 30.03.23 (33) US  
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 (72) DOGAN, Meeshanthini V.; DOGAN, Timur K.; PHILIBERT, Robert A.  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) CAREFUSION 303, INC.  
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 (21) 2023433168 (22) 23.02.2023  
 (54) SYRINGE PUMP WITH FORCE CENTERING DETECTION  
 (51) Int. Cl.  
 A61M 5/145 ( 2006.01 )  
 A61M 5/142 ( 2006.01 )  
 A61M 5/168 ( 2006.01 )  
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 (87) WO2024/177635  
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 (72) LEE, Matthew Min  
 (74) FB Rice Pty Ltd

(71) CATERPILLAR INC.  
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 (21) 2024224152 (22) 17.01.2024  
 (54) SYSTEMS AND METHODS FOR DETECTING MACHINES ENGAGED IN ANOMALOUS ACTIVITY  
 (51) Int. Cl.  
 G07C 5/00 ( 2006.01 )  
 G07C 5/08 ( 2006.01 )  
 (87) WO2024/177748  
 (31) 18/172,183 (32) 21.02.23 (33) US  
 (43) 29.08.2024  
 (72) CLINE, Kyle J.; RAI, Prashant  
 (74) FPA Patent Attorneys Pty Ltd

(71) CATERPILLAR INC.  
 (11) AU-A-2024224241  
 (21) 2024224241 (22) 18.01.2024  
 (54) TOOL FOR ALIGNING RAIL SEGMENTS  
 (51) Int. Cl.  
 B60M 1/30 ( 2006.01 )  
 E01B 29/00 ( 2006.01 )  
 E01F 15/06 ( 2006.01 )  
 (87) WO2024/177750  
 (31) 18/171,403 (32) 20.02.23 (33) US  
 (43) 29.08.2024  
 (72) BLACK, Randall John; BEUS, Mikkel Nielsen  
 (74) FPA Patent Attorneys Pty Ltd

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 (21) 2024226173 (22) 23.02.2024  
 (54) SINGLE-MOLECULE STRAND-SPECIFIC END MODALITIES  
 (51) Int. Cl.  
 C12Q 1/6844 ( 2018.01 )  
 C12Q 1/6806 ( 2018.01 )  
 C12Q 1/6855 ( 2018.01 )  
 C12Q 1/6869 ( 2018.01 )  
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 (74) Griffith Hack

(71) CERES BRAIN THERAPEUTICS  
 (11) AU-A-2024233097  
 (21) 2024233097 (22) 06.03.2024  
 (54) COMPOSITIONS SUITABLE FOR THE ADMINISTRATION OF CREATINE ESTERS  
 (51) Int. Cl.  
 A61K 9/00 ( 2006.01 )  
 A61K 9/107 ( 2006.01 )  
 A61K 47/14 ( 2017.01 )  
 A61K 47/02 ( 2006.01 )  
 A61K 47/10 ( 2017.01 )  
 A61K 47/26 ( 2006.01 )  
 A61K 47/36 ( 2006.01 )  
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 (72) BENECH, Henri; JOUDINAUD, Thomas; BENECH, Florence; MA-BONDZO, Aloïse  
 (74) Alder IP Pty Ltd

(71) CHAMPIONX LLC  
 (11) AU-A-2024231545  
 (21) 2024231545 (22) 29.02.2024  
 (54) POLYALKYL PHOSPHONATED POLY-OL ETHER BASED SCALE INHIBITORS  
 (51) Int. Cl.  
 C02F 5/08 ( 2023.01 )  
 C02F 5/10 ( 2023.01 )  
 C02F 5/14 ( 2023.01 )  
 C09K 8/52 ( 2006.01 )  
 (87) WO2024/186566  
 (31) 63/488,390 (32) 03.03.23 (33) US  
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 (74) Spruson & Ferguson

(71) CHENGDU NEW RADIOMICINE TECHNOLOGY CO., LTD.  
 (11) AU-A-2024218717  
 (21) 2024218717 (22) 08.02.2024  
 (54) POLYPEPTIDE COMPOUND AND USE THEREOF  
 (51) Int. Cl.  
 C07K 7/06 ( 2006.01 )  
 A61K 38/08 ( 2019.01 )  
 A61K 38/12 ( 2006.01 )  
 A61P 35/00 ( 2006.01 )  
 C07K 7/56 ( 2006.01 )  
 (87) WO2024/165072  
 (31) 202310098607.7 (32) 10.02.23 (33) CN  
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 (43) 15.08.2024  
 (72) LI, Xianghui; LIU, Qiangqiang; SUN, Haifeng; ZHU, Zhiyuan; CHEN, Huaxi; RAN, Chonglin  
 (74) Kings Patent & Trade Marks Attorneys Pty Ltd

(71) CHEVRON PHILLIPS CHEMICAL COMPANY LP  
 (11) AU-A-2024237926  
 (21) 2024237926 (22) 22.03.2024  
 (54) METHODS OF REGENERATING AROMATIZATION CATALYSTS  
 (51) Int. Cl.  
 B01J 38/10 ( 2006.01 )  
 B01J 38/46 ( 2006.01 )  
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 (31) 63/491,703 (32) 22.03.23 (33) US  
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 (43) 26.09.2024  
 (72) ALVEZ-MANOLI, Gabriela D.; BERGMEISTER, Joseph J.; HAL-LAC, Basseem; MCDANIEL, Max P.; HLAVINKA, Mark L.; BARTA, Katherine; GARCIA, Israel; MORISSON, Scott G.; POURREAU, Patrick  
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 (21) 2024239313 (22) 22.03.2024  
 (54) METHODS FOR RELEASING AT LEAST A PORTION OF A HALIDE FROM A SURFACE  
 (51) Int. Cl.  
**B01J 38/10** ( 2006.01 )  
**B01J 38/46** ( 2006.01 )  
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 (31) 63/491,703 (32) 22.03.23 (33) US  
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 (72) ALVEZ-MANOLI, Gabriela D.; BERGMEISTER, Joseph; CAREY, Spencer J.; STERN, Donald A.  
 (74) WRAYS PTY LTD
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- (71) CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.  
 (11) AU-A-2024221993  
 (21) 2024221993 (22) 16.02.2024  
 (54) COMPOUND CONTAINING TRIFLUOROMETHYLSULFONYL  
 (51) Int. Cl.  
**C07D 487/08** ( 2006.01 )  
**A61K 31/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07D 491/08** ( 2006.01 )  
 (87) WO2024/169976  
 (31) 202310134195.8 (32) 17.02.23 (33) CN  
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 (74) Griffith Hack
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- (71) CHONGQING CHANGAN AUTOMOBILE CO., LTD.  
 (11) AU-A-2024349818  
 (21) 2024349818 (22) 05.02.2024  
 (54) EFFICIENCY TESTING SYSTEM AND METHOD FOR P13 CONFIGURATION ELECTRIC DRIVE ASSEMBLY  
 (51) Int. Cl.  
**G01L 3/26** ( 2006.01 )  
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 (43) 03.04.2025  
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 (74) Madderns Pty Ltd
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 (11) AU-A-2024368202  
 (21) 2024368202 (22) 05.02.2024  
 (54) OPERATING CONDITION DESIGN METHOD FOR RELIABILITY VERIFICATION OF DUAL-MOTOR SYSTEM OF P13-CONFIGURATION ELECTRIC DRIVE TRANSMISSION AND RELIABILITY TESTING METHOD FOR DUAL-MOTOR SYSTEM OF P13-CONFIGURATION ELECTRIC DRIVE TRANSMISSION  
 (51) Int. Cl.
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- (71) G06F 30/20 ( 2020.01 )  
 (87) WO2025/086505  
 (31) 202311380213.7 (32) 23.10.23 (33) CN  
 (43) 01.05.2025  
 (72) WANG, Peng; LI, Song; YANG, Xiaoling; WANG, Jianwen; YU, Yinglong  
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 (11) AU-A-2024215441  
 (21) 2024215441 (22) 17.01.2024  
 (54) EXTERNAL RELEASE MODULE AND LAUNDRY TREATING APPARATUS  
 (51) Int. Cl.  
**D06F 39/02** ( 2006.01 )  
**D06F 34/14** ( 2020.01 )  
**D06F 105/42** ( 2020.01 )  
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 (43) 08.08.2024  
 (72) HUANG, Tao; CHENG, Baozhen; WANG, Dejun  
 (74) Allens Patent & Trade Mark Attorneys
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- (71) CLOUDBLUE LLC  
 (11) AU-A-2024229254  
 (21) 2024229254 (22) 01.03.2024  
 (54) SHARING COMPONENTS AMONG APPLICATIONS METHOD FOR WEB APPLICATION DEVELOPMENT  
 (51) Int. Cl.  
**G06F 8/36** ( 2018.01 )  
**G06F 8/38** ( 2018.01 )  
**G06F 8/60** ( 2018.01 )  
**G06F 9/445** ( 2018.01 )  
**G06F 9/455** ( 2018.01 )  
 (87) WO2024/182768  
 (31) 18/177,723 (32) 02.03.23 (33) US  
 (43) 06.09.2024  
 (72) KOLESOV, Anatolii; NOZDRIN, Dmitry; DUBINSKII, Viacheslav  
 (74) RnB IP
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- (71) CNC WIRE FORMING PTY LTD  
 (11) AU-A-2024230616  
 (21) 2024230616 (22) 21.02.2024  
 (54) FASTENER INSERTION DEVICE HAVING TRANSITIONING COLLAR.  
 (51) Int. Cl.  
**B25C 5/11** ( 2006.01 )  
**B25C 5/06** ( 2006.01 )  
**B25C 5/16** ( 2006.01 )  
**B27F 7/07** ( 2006.01 )  
**B27F 7/32** ( 2006.01 )  
 (87) WO2024/178459  
 (31) 2023900539 (32) 01.03.23 (33) AU  
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 (72) LACY, Christopher  
 (74) Churchill Attorneys
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- (71) COLGATE-PALMOLIVE COMPANY  
 (11) AU-A-2024235403  
 (21) 2024235403 (22) 15.03.2024  
 (54) ORAL CARE COMPOSITIONS BASED ON KOCURIA AND METHODS  
 (51) Int. Cl.
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- (51) Int. Cl.  
**A61K 8/99** ( 2017.01 )  
**A61Q 11/00** ( 2006.01 )  
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 (31) 63/452,287 (32) 15.03.23 (33) US  
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 (72) NORTH, Michael; GRONLUND, Jennifer; SCHAEFFER-KORBYLO, Lyndsay; DAEP, Carlo  
 (74) Spruson & Ferguson
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- (71) CONFLUX TECHNOLOGY PTY LTD  
 (11) AU-A-2024232425  
 (21) 2024232425 (22) 06.03.2024  
 (54) HEAT SPREADER  
 (51) Int. Cl.  
**F28F 3/02** ( 2006.01 )  
**F28D 15/02** ( 2006.01 )  
**F28F 3/12** ( 2006.01 )  
**H01L 23/46** ( 2006.01 )  
**H02K 9/20** ( 2006.01 )  
**H05K 7/20** ( 2006.01 )  
 (87) WO2024/182847  
 (31) 2023900637 (32) 08.03.23 (33) AU  
 (43) 12.09.2024  
 (72) VELARDO, Jason; FULLER, Michael; LOUEY, Brandon  
 (74) Davies Collison Cave Pty Ltd
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- (71) CONOCOPHILLIPS COMPANY  
 (11) AU-A-2024246467  
 (21) 2024246467 (22) 29.02.2024  
 (54) KINETIC MODELING OF PETROLEUM EVOLUTION  
 (51) Int. Cl.  
**E21B 49/08** ( 2006.01 )  
**G01N 33/24** ( 2006.01 )  
 (87) WO2024/205814  
 (31) 63/492,363 (32) 27.03.23 (33) US  
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 (72) SONG, Yishu  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) CORDENPHARMA INTERNATIONAL GMBH  
 (11) AU-A-2024239849  
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 (54) NOVEL TAG FOR LIQUID-PHASE PEPTIDE SYNTHESIS  
 (51) Int. Cl.  
**C07D 251/26** ( 2006.01 )  
 (87) WO2024/194387  
 (31) 23162993.2 (32) 20.03.23 (33) EP  
 (43) 26.09.2024  
 (72) GIRAUD, Matthieu; ALBERICIO, Fernando; MARDER, Oleg; HELL-RIEGEL, Laura; HÜTTENSCHMIDT, Mareike; HOGENKAMP, Fabian; KRAMER, Tim  
 (74) Gestalt Law Pty Ltd
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- (71) CRITICAL SYSTEMS, INC.  
 (11) AU-A-2024226052  
 (21) 2024226052 (22) 23.02.2024  
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 (51) Int. Cl.

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**B23K 37/02** ( 2006.01 )  
 B23K 101/06 ( 2006.01 )  
**(87)** WO2024/178391  
**(31)** 63/486,863 **(32)** 24.02.23 **(33)** US  
**(43)** 29.08.2024  
**(72)** JONES, Theodore John; GUERRINA, Michael Scott; TYCZ, Timothy Andrew; BELKE, Joshua G.; WICKLUND, Derek D.  
**(74)** FPA Patent Attorneys Pty Ltd

**(71)** CRRC QIQIHAR ROLLING STOCK CO., LTD.; PETROCHINA COMPANY LIMITED  
**(11)** AU-A-2024400378  
**(21)** 2024400378 **(22)** 20.08.2024  
**(54)** UNLOADING METHOD FOR SYNTHETIC RESIN CONTAINER  
**(51)** Int. Cl.  
**B60P 1/00** ( 2006.01 )  
**B60P 1/16** ( 2006.01 )  
**B62D 33/04** ( 2006.01 )  
**B65D 88/54** ( 2006.01 )  
**B65D 90/54** ( 2006.01 )  
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**(87)** WO2025/123753  
**(31)** 202311738032.7 **(32)** 15.12.23 **(33)** CN  
**(43)** 19.06.2025  
**(72)** CHEN, Lanzhong; GONG, Wenxin; YANG, Tiankui; CAO, Bingwu; CHEN, Lei; YANG, Xuebai; ZHU, Wanhai; LI, Hua; LIU, Haipeng; YUE, Linghan; LI, Tao; HOU, Tianhua; YANG, Qipeng; YIN, Jing; LI, Cui; LI, Linjie; ZHANG, Junfeng; SAN, Junmin; LI, Zhongbo  
**(74)** Madderns Pty Ltd

**(71)** CRRC QIQIHAR ROLLING STOCK CO., LTD.; PETROCHINA COMPANY LIMITED  
**(11)** AU-A-2024400974  
**(21)** 2024400974 **(22)** 20.08.2024  
**(54)** UNLOADING PLATFORM AND UNLOADING METHOD  
**(51)** Int. Cl.  
**B65G 65/23** ( 2006.01 )  
**B60P 1/04** ( 2006.01 )  
**B65G 69/00** ( 2006.01 )  
**(87)** WO2025/123754  
**(31)** 202311738009.8 **(32)** 15.12.23 **(33)** CN  
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**(74)** Madderns Pty Ltd

**(71)** CRRC QIQIHAR ROLLING STOCK CO., LTD.; PETROCHINA COMPANY LIMITED  
**(11)** AU-A-2024401376  
**(21)** 2024401376 **(22)** 20.08.2024  
**(54)** CONTAINER UNDERFRAME AND CONTAINER HAVING SAME  
**(51)** Int. Cl.

**B65D 90/00** ( 2006.01 )  
**B60P 3/00** ( 2006.01 )  
**B65D 88/54** ( 2006.01 )  
**(87)** WO2025/123752  
**(31)** 202311738050.5 **(32)** 15.12.23 **(33)** CN  
**(43)** 19.06.2025  
**(72)** LI, Tao; ZHU, Wanhai; CHEN, Lei; CHEN, Lanzhong; YANG, Tiankui; CAO, Bingwu; YANG, Xuebai; HOU, Tianhua; LI, Hua; LIU, Haipeng; YUE, Linghan; CHEN, Tinggang; GONG, Wenxin; YU, Yonghuan; MENG, Xianlin; AN, Yang  
**(74)** Madderns Pty Ltd

**(71)** CSPC MEGALITH BIOPHARMACEUTICAL CO., LTD.  
**(11)** AU-A-2024228349  
**(21)** 2024228349 **(22)** 27.02.2024  
**(54)** PHARMACEUTICAL COMPOSITION OF RECOMBINANT HUMANIZED ANTI-NECTIN-4 MONOCLONAL ANTI-BODY-MMAE CONJUGATE DRUG  
**(51)** Int. Cl.  
**A61K 47/68** ( 2017.01 )  
**A61K 31/704** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
**C07K 16/30** ( 2006.01 )  
**C12N 15/13** ( 2006.01 )  
**(87)** WO2024/179453  
**(31)** 202310170388.9 **(32)** 27.02.23 **(33)** CN  
**(43)** 06.09.2024  
**(72)** XIE, Ru; HAN, Weiqiang; WANG, Xuming; SU, Li; CAO, Weirong; ZHANG, Di; YUAN, Can; TIAN, Fangyuan; HUI, Xiwu; YAO, Bing; WANG, Chao  
**(74)** WRAYS PTY LTD

**(71)** CURALEAF, INC.; LUX, A.; WINNICKI, R.S.  
**(11)** AU-A-2024229200  
**(21)** 2024229200 **(22)** 27.02.2024  
**(54)** AQUEOUS EXTRACTION OF CANNABINOID  
**(51)** Int. Cl.  
**B01D 11/02** ( 2006.01 )  
**(87)** WO2024/182411  
**(31)** 63/449,012 **(32)** 28.02.23 **(33)** US  
**(43)** 06.09.2024  
**(72)** LUX, Andrew; WINNICKI, Robert Scott  
**(74)** Halfords IP

**(71)** CYTED LTD  
**(11)** AU-A-2024223158  
**(21)** 2024223158 **(22)** 15.02.2024  
**(54)** A CELL COLLECTION DEVICE  
**(51)** Int. Cl.  
**A61B 10/02** ( 2006.01 )  
**(87)** WO2024/170904  
**(31)** 2302263.5 **(32)** 17.02.23 **(33)** GB  
**(43)** 22.08.2024  
**(72)** GEHRUNG, Marcel; GOEL, Neha; AFINOWI, Basirat Yetunde; ROBINSO, Elizabeth Joy; ARNATT, Richard John Dalton; WALKER, Maxwell Ian; FARN, Russell Graham  
**(74)** James Wan

**(71)** DAIRY MANAGEMENT INC.; CORNELL UNIVERSITY  
**(11)** AU-A-2024255410  
**(21)** 2024255410 **(22)** 12.04.2024  
**(54)** PROTEIN PARTICLES AND METHODS OF MAKING AND USING THE SAME  
**(51)** Int. Cl.  
**A61K 9/14** ( 2006.01 )  
**A23J 3/08** ( 2006.01 )  
**A23L 33/19** ( 2016.01 )  
**A61P 31/00** ( 2006.01 )  
**(87)** WO2024/216002  
**(31)** 63/495,883 **(32)** 13.04.23 **(33)** US  
**(43)** 17.10.2024  
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**(74)** RnB IP

**(71)** DANA-FARBER CANCER INSTITUTE, INC.  
**(11)** AU-A-2024231814  
**(21)** 2024231814 **(22)** 07.03.2024  
**(54)** RESPIRATORY SYNCYTIAL VIRUS SURFACE GLYCOPROTEIN PEPTIDES, CONJUGATES, AND USES THEREOF  
**(51)** Int. Cl.  
**A61K 38/16** ( 2006.01 )  
**A61P 31/14** ( 2006.01 )  
**C07K 14/005** ( 2006.01 )  
**(87)** WO2024/186964  
**(31)** 63/489,096 **(32)** 08.03.23 **(33)** US  
**(43)** 12.09.2024  
**(72)** BIRD, Gregory H.; WALENSKY, Loren D.  
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

**(71)** DAN-FOAM, APS  
**(11)** AU-A-2024230858  
**(21)** 2024230858 **(22)** 28.02.2024  
**(54)** SUPPORT CUSHION ASSEMBLY INCLUDING ACTIVE VENTILATION SYSTEM  
**(51)** Int. Cl.  
**A47C 21/04** ( 2006.01 )  
**(87)** WO2024/180500  
**(31)** 63/448,937 **(32)** 28.02.23 **(33)** US  
**(43)** 06.09.2024  
**(72)** REISENHUS, Thomas Hoegh  
**(74)** Spruson & Ferguson

**(71)** DANIMER IPCO, LLC  
**(11)** AU-A-2024214591  
**(21)** 2024214591 **(22)** 30.01.2024  
**(54)** POLYHYDROXYALKANOATE-BASED FIBERS  
**(51)** Int. Cl.  
**D01F 1/10** ( 2006.01 )  
**C08K 5/00** ( 2006.01 )  
**D01F 1/02** ( 2006.01 )  
**D01F 6/62** ( 2006.01 )

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- D01F 6/92** ( 2006.01 )  
**(87)** WO2024/163420  
**(31)** 63/482,337 **(32)** 31.01.23 **(33)** US  
**(43)** 08.08.2024  
**(72)** MANG, Michael, N.; KUNDU, Mangaldeep; DURIE, Karson; JOHNSON, Adam  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** DEBIOPHARM INTERNATIONAL S.A.  
**(11)** AU-A-2024220376  
**(21)** 2024220376 **(22)** 12.02.2024  
**(54)** DEBIO-0123 IN COMBINATION WITH TEMOZOLOMIDE AND RADIOTHERAPY FOR USE IN TREATING GLIOMA  
**(51)** Int. Cl.  
**A61K 31/519** ( 2006.01 )  
**A61K 31/495** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61N 5/00** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**(87)** WO2024/170480  
**(31)** 23156300.8 **(32)** 13.02.23 **(33)** EP  
23159653.7 02.03.23 EP  
**(43)** 22.08.2024  
**(72)** VASLIN CHESSEX, Anne; DARMSTRUP, Lars; BELLON, Anne; RODRIGO IMEDIO, Esteban; RODRIGUEZ FREIXINOS, Victor; PIGGOTT, Luke  
**(74)** Spruson & Ferguson
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- (71)** DECODA DIGITAL SERVICES PTY LTD  
**(11)** AU-A-2024225595  
**(21)** 2024225595 **(22)** 20.02.2024  
**(54)** GROUND HAZARD DETECTION  
**(51)** Int. Cl.  
**G06V 20/58** ( 2022.01 )  
**B60Q 9/00** ( 2006.01 )  
**G01S 17/931** ( 2020.01 )  
**G06G 1/16** ( 2006.01 )  
**G06V 10/20** ( 2022.01 )  
**G06V 10/30** ( 2022.01 )  
**(87)** WO2024/173984  
**(31)** 2023900428 **(32)** 20.02.23 **(33)** AU  
**(43)** 29.08.2024  
**(72)** MALAU, Christopher Halomoan; CHEN, Jianing; MOLL, Samuel Norman  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** DEXCOM, INC  
**(11)** AU-A-2024221785  
**(21)** 2024221785 **(22)** 09.02.2024  
**(54)** WIRELESS COMMUNICATION SECURITY FOR ANALYTE MONITORING SYSTEMS  
**(51)** Int. Cl.  
**H04L 9/08** ( 2006.01 )  
**H04L 9/32** ( 2006.01 )  
**H04L 9/40** ( 2022.01 )  
**H04W 12/03** ( 2021.01 )  
**(87)** WO2024/173189  
**(31)** 63/484,705 **(32)** 13.02.23 **(33)** US  
**(43)** 22.08.2024  
**(72)** BARRERAS, Jorge R.; SANCHEZ BAO, Reinier; ALVAREZ, Aniel  
**(74)** FB Rice Pty Ltd
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- (71)** DOMETIC SWEDEN AB; DOMETIC (ZHUHAI) TECHNOLOGY CO., LTD.  
**(11)** AU-A-2024258700  
**(21)** 2024258700 **(22)** 19.04.2024  
**(54)** VIBRATION DAMPING STRUCTURE FOR COMPRESSOR, AND VEHICLE-MOUNTED AIR CONDITIONER AND VEHICLE-MOUNTED REFRIGERATOR  
**(51)** Int. Cl.  
**F04B 39/00** ( 2006.01 )  
**B60H 1/00** ( 2006.01 )  
**B60N 3/10** ( 2006.01 )  
**F16F 15/04** ( 2006.01 )  
**F16F 15/08** ( 2006.01 )  
**(87)** WO2024/217525  
**(31)** 202320918872.0 **(32)** 21.04.23 **(33)** CN  
**(43)** 24.10.2024  
**(72)** CHEN, Jianmin; GUO, Shaohong  
**(74)** Spruson & Ferguson
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- (71)** DSM IP ASSETS B.V.  
**(11)** AU-A-2024228703  
**(21)** 2024228703 **(22)** 27.02.2024  
**(54)** MEANS AND METHODS FOR MODIFYING FUMONISINS  
**(51)** Int. Cl.  
**C12N 9/18** ( 2006.01 )  
**(87)** WO2024/180045  
**(31)** 23158934.2 **(32)** 28.02.23 **(33)** EP  
**(43)** 06.09.2024  
**(72)** BEDNAR, David; DAMBORSKY, Jiri; KERN, Corinna; LASKOVA, Veronika; MOLL, Wulf-Dieter; STEPANKOVA, Veronika; THAMHESL, Michaela; VOGTENTANZ, Gudrun  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** DYNE THERAPEUTICS, INC.  
**(11)** AU-A-2024230817  
**(21)** 2024230817 **(22)** 27.02.2024  
**(54)** METHODS AND COMPOSITIONS FOR INHIBITING PROGRESSION OF INTRAMUSCULAR FIBROSIS  
**(51)** Int. Cl.  
**C12N 15/113** ( 2010.01 )  
**A61K 31/713** ( 2006.01 )  
**A61K 47/68** ( 2017.01 )  
**A61P 21/00** ( 2006.01 )  
**(87)** WO2024/182358  
**(31)** 63/487,035 **(32)** 27.02.23 **(33)** US  
**(43)** 06.09.2024  
**(72)** DESJARDINS, Cody A.; ZANOTTI, Stefano; BESKROVNAYA, Oxana; HALL, John  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** EARTH SCIENCE LABORATORIES, INC.  
**(11)** AU-A-2024228973  
**(21)** 2024228973 **(22)** 01.03.2024  
**(54)** NANOPARTICLES OF AMMONIUM SALTS FOR PREVENTING AND TREATING INFECTIONS  
**(51)** Int. Cl.  
**A61K 31/14** ( 2006.01 )
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- A61P 31/00** ( 2006.01 )  
**A61K 31/13** ( 2006.01 )  
**(87)** WO2024/182766  
**(31)** 63/488,162 **(32)** 02.03.23 **(33)** US  
63/544,137 13.10.23 US  
63/544,140 13.10.23 US  
**(43)** 06.09.2024  
**(72)** SINGLETON, Freddie L.; BOWMAN, Reid Henry; NICHOLAS, David; KEISER, Jeffrey Alan  
**(74)** FB Rice Pty Ltd
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- (71)** ECOLAB USA INC.  
**(11)** AU-A-2024231598  
**(21)** 2024231598 **(22)** 08.03.2024  
**(54)** WATER REUSE AND CONTROL SYSTEM FOR INDUSTRIAL TEXTILE CLEANING FACILITIES  
**(51)** Int. Cl.  
**C02F 1/00** ( 2023.01 )  
**D06F 39/08** ( 2006.01 )  
**D06F 39/20** ( 2024.01 )  
**C02F 1/24** ( 2023.01 )  
**C02F 103/00** ( 2006.01 )  
**(87)** WO2024/187146  
**(31)** 63/489,111 **(32)** 08.03.23 **(33)** US  
**(43)** 12.09.2024  
**(72)** BERMAN, Russell Shawn; GHOSH, Kaustav; COLDIRON, Craig; TOKHTUEV, Eugene; ORTMANN, Nathan  
**(74)** Spruson & Ferguson
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- (71)** ECOLAB USA INC.  
**(11)** AU-A-2024247723  
**(21)** 2024247723 **(22)** 05.01.2024  
**(54)** MOTION BASED DYNAMIC TENSIOMETER FOR DETECTING THE PRESENCE OF SURFACTANTS  
**(51)** Int. Cl.  
**G01N 13/02** ( 2006.01 )  
**(87)** WO2024/205687  
**(31)** 63/492,407 **(32)** 27.03.23 **(33)** US  
**(43)** 03.10.2024  
**(72)** DOERRIES, Stephan; WERSHOFEN, Thomas  
**(74)** Spruson & Ferguson
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- (71)** ECOLECTRO, INC.  
**(11)** AU-A-2024214099  
**(21)** 2024214099 **(22)** 31.01.2024  
**(54)** PATTERNED ALKALINE EXCHANGE MEMBRANES  
**(51)** Int. Cl.  
**H01M 4/88** ( 2006.01 )  
**H01M 4/90** ( 2006.01 )  
**H01M 4/92** ( 2006.01 )  
**H01M 8/1004** ( 2016.01 )  
**H01M 8/124** ( 2016.01 )  
**(87)** WO2024/163617  
**(31)** 63/442,617 **(32)** 01.02.23 **(33)** US  
**(43)** 08.08.2024  
**(72)** SIMONEAU, Christopher  
**(74)** Pearce IP Pty Ltd
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- (71)** ECOLECTRO, INC.  
**(11)** AU-A-2024214812

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- (21) 2024214812 (22) 31.01.2024  
 (54) ELECTRODE MATERIALS FOR MEMBRANE ELECTRODE ASSEMBLY  
 (51) Int. Cl.  
*H01M 4/86* ( 2006.01 )  
*H01M 4/90* ( 2006.01 )  
*H01M 4/92* ( 2006.01 )  
*H01M 8/1004* ( 2016.01 )  
*H01M 8/1023* ( 2016.01 )  
*H01M 8/1025* ( 2016.01 )  
*H01M 8/1039* ( 2016.01 )  
*H01M 8/1072* ( 2016.01 )  
*H01M 8/10* ( 2016.01 )  
 (87) WO2024/163590  
 (31) 63/442,599 (32) 01.02.23 (33) US  
 (43) 08.08.2024  
 (72) HUGAR, Kristina; SIMONEAU, Christopher; SELHORST, Ryan  
 (74) Pearce IP Pty Ltd
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- (71) EDWARDS LIFESCIENCES CORPORATION  
 (11) AU-A-2024280410  
 (21) 2024280410 (22) 29.05.2024  
 (54) TRANSCATHETER HEART VALVES WITH IMPROVED BLOOD FLOW  
 (51) Int. Cl.  
*A61F 2/24* ( 2006.01 )  
 (87) WO2024/249522  
 (31) 63/470,097 (32) 31.05.23 (33) US  
 63/470,729 02.06.23 US  
 (43) 05.12.2024  
 (72) PETERSON, Matthew A.; VAD, Siddharth; LANDON, David Robert; GHOSH, Ram Proshad; CONROY, Olivia Marie; MAHMOUDI, Rani Abdullah  
 (74) Spruson & Ferguson
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- (71) EFFEE FOUNDRY AS  
 (11) AU-A-2024229087  
 (21) 2024229087 (22) 28.02.2024  
 (54) METHOD AND SYSTEM FOR CASTING A METAL  
 (51) Int. Cl.  
*B22C 9/08* ( 2006.01 )  
*B22D 2/00* ( 2006.01 )  
 (87) WO2024/181869  
 (31) 20230214 (32) 02.03.23 (33) NO  
 (43) 06.09.2024  
 (72) BELLAND, Eirik; BJERKELUND, Frank Andre; EKENGÅRD, Johan Carl Erik  
 (74) Griffith Hack
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- (71) EISANA CORP; SPANGLER VAUGHN, C.; MOORE, T.; JOHNSON, D.; ERDAHL, D.; RALEIGH, E.; VITITOE, K.; MCKEWEN, D.; KIA, S.; LOUDIN, H.M.; NAVIN, E.; MORA, L.  
 (11) AU-A-2024217116  
 (21) 2024217116 (22) 07.02.2024  
 (54) WEARABLE COOLING OR HEATING APPARATUS FOR THE PREVENTION OF COMPLICATIONS DUE TO CHEMOTHERAPY  
 (51) Int. Cl.  
*A61F 7/00* ( 2006.01 )  
*A41D 13/005* ( 2006.01 )  
 (87) WO2024/168070
- (31) 63/483,865 (32) 08.02.23 (33) US  
 (43) 15.08.2024  
 (72) SPANGLER VAUGHN, Carole; MOORE, Thomas; JOHNSON, Dan; ERDAHL, Dallas; RALEIGH, Edward; VITITOE, Kevin; MCKEWEN, Daniel; KIA, Stephannie; LOUDIN, Haley M.; NAVIN, Eric; MORA, Ludwin  
 (74) AJ PARK
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- (71) ELECTRO UNIVERS  
 (11) AU-A-2024217359  
 (21) 2024217359 (22) 05.02.2024  
 (54) CUTTING TOOL EQUIPPED WITH A DEVICE FOR APPLYING A TREATMENT PRODUCT  
 (51) Int. Cl.  
*A01G 3/02* ( 2006.01 )  
*A01G 7/06* ( 2006.01 )  
 (87) WO2024/165812  
 (31) FR2301076 (32) 06.02.23 (33) FR  
 (43) 15.08.2024  
 (72) ESPINADEL, Gérard  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) ELI LILLY AND COMPANY  
 (11) AU-A-2024235423  
 (21) 2024235423 (22) 06.03.2024  
 (54) METHODS FOR THE PREPARATION OF SSTR4 AGONISTS AND SALTS THEREOF  
 (51) Int. Cl.  
*C07D 209/52* ( 2006.01 )  
*A61K 31/403* ( 2006.01 )  
*A61P 25/02* ( 2006.01 )  
*A61P 29/00* ( 2006.01 )  
*C07D 403/12* ( 2006.01 )  
*C07D 413/12* ( 2006.01 )  
*C07D 471/04* ( 2006.01 )  
*C07D 487/04* ( 2006.01 )  
 (87) WO2024/191675  
 (31) 63/489,556 (32) 10.03.23 (33) US  
 (43) 19.09.2024  
 (72) COATES, David Andrew; FILLA, Sandra Ann; REMICK, David Michael; RIZZO, John Robert; TENG, Jing  
 (74) Spruson & Ferguson
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- (71) ELI LILLY AND COMPANY  
 (11) AU-A-2024236477  
 (21) 2024236477 (22) 08.03.2024  
 (54) METHODS OF TREATING ULCERATIVE COLITIS  
 (51) Int. Cl.  
*C07K 16/24* ( 2006.01 )  
*A61P 1/04* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
 (87) WO2024/191771  
 (31) 63/489,634 (32) 10.03.23 (33) US  
 63/511,264 30.06.23 US  
 (43) 19.09.2024  
 (72) FRIEDRICH, Stuart William; KOMOC-SAR, Wendy Jo; LARKIN, Amy E  
 (74) Davies Collison Cave Pty Ltd
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- (71) ENDEAVOR BIOMEDICINES, INC.  
 (11) AU-A-2024230449
- (21) 2024230449 (22) 28.02.2024  
 (54) METHODS OF TREATING FIBROSIS  
 (51) Int. Cl.  
*A61K 31/395* ( 2006.01 )  
*A61K 31/166* ( 2006.01 )  
*A61K 31/496* ( 2006.01 )  
*A61K 31/33* ( 2006.01 )  
 (87) WO2024/182483  
 (31) 18/115,598 (32) 28.02.23 (33) US  
 (43) 06.09.2024  
 (72) DE LOS RIOS, Miguel; HOOD, John; DIFRANCESCO, Anita; DELLAMARY, Luis A.; KC, Sunil K.  
 (74) James & Wells Intellectual Property
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- (71) ENEOS CORPORATION  
 (11) AU-A-2024224466  
 (21) 2024224466 (22) 19.02.2024  
 (54) CONTROL DEVICE, HYDROGEN CARRIER MANUFACTURING SYSTEM, AND CONTROL METHOD  
 (51) Int. Cl.  
*G06Q 50/04* ( 2012.01 )  
 (87) WO2024/176995  
 (31) 2023-025201 (32) 21.02.23 (33) JP  
 (43) 29.08.2024  
 (72) INOUE, Jun; MAEDA, Seiji; NEGISHI, Yoshinori; MACHII, Kenji; SEIKE, Tadahashi; MINODA, Ai  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) EQUASHIELD MEDICAL LTD  
 (11) AU-A-2024247957  
 (21) 2024247957 (22) 28.03.2024  
 (54) VERIFICATION OF SOLID DISSOLUTION IN ROBOTIC PHARMACEUTICAL PREPARATION  
 (51) Int. Cl.  
*B01F 21/00* ( 2022.01 )  
*A61J 3/00* ( 2006.01 )  
*B01F 31/20* ( 2022.01 )  
*B65B 3/30* ( 2006.01 )  
*G01F 22/00* ( 2006.01 )  
*G01F 23/00* ( 2022.01 )  
 (87) WO2024/201470  
 (31) 63/455,117 (32) 28.03.23 (33) US  
 (43) 03.10.2024  
 (72) SHEM-TOV, Eric; PERRY, Osnat; GERSHTEIN, Jenia  
 (74) AJ PARK
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- (71) ESSITY HYGIENE AND HEALTH AKTIEBOLAG  
 (11) AU-A-2023438338  
 (21) 2023438338 (22) 20.03.2023  
 (54) ABSORBENT ARTICLE COMPRISING AN OUTER COVER AND A DETACHABLE INSERT  
 (51) Int. Cl.  
*A61F 13/49* ( 2006.01 )  
*A61F 13/505* ( 2006.01 )  
 (87) WO2024/193807  
 (43) 26.09.2024  
 (72) HERMENIUS, Annika; RICHARDSON, Sofia; AUGUSTSSON, Lina; TERENTIC, Verica  
 (74) Griffith Hack

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- (71) ESSITY HYGIENE AND HEALTH AK-TIEBOLAG  
 (11) AU-A-2023438499  
 (21) 2023438499 (22) 20.03.2023  
 (54) ABSORBENT ARTICLE COMPRISING AN OUTER COVER AND A DETACHABLE INSERT  
 (51) Int. Cl.  
**A61F 13/505** ( 2006.01 )  
 (87) WO2024/193806  
 (43) 26.09.2024  
 (72) HERMENIUS, Annika; RICHARDSON, Sofia; AUGUSTSSON, Lina; TERENTIC, Verica  
 (74) Griffith Hack
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- (71) ESSITY HYGIENE AND HEALTH AK-TIEBOLAG  
 (11) AU-A-2024241520  
 (21) 2024241520 (22) 20.03.2024  
 (54) REUSABLE OUTER COVER FOR AN ABSORBENT ARTICLE  
 (51) Int. Cl.  
**A61F 13/49** ( 2006.01 )  
**A61F 13/505** ( 2006.01 )  
**A61F 13/514** ( 2006.01 )  
 (87) WO2024/194337  
 (31) PCT/ (32) 20.03.23 (33) EP  
 EP2023/057066  
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 EP2023/057067  
 (43) 26.09.2024  
 (72) AUGUSTSSON, Lina; CARLÉN, Henrik; HERMENIUS, Annika  
 (74) Griffith Hack
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- (71) E-THERAPEUTICS PLC  
 (11) AU-A-2024217327  
 (21) 2024217327 (22) 06.02.2024  
 (54) INHIBITORS OF EXPRESSION AND/OR FUNCTION  
 (51) Int. Cl.  
**C12N 15/113** ( 2010.01 )  
 (87) WO2024/165571  
 (31) 23155094.8 (32) 06.02.23 (33) EP  
 23217288.2 15.12.23 EP  
 23219939.8 22.12.23 EP  
 (43) 15.08.2024  
 (72) WHITMORE, Alan Victor; MALANDRAKI-MILLER, Sophia; DE SANTIAGO, Ines; PURSELL, Natalie; GIANNOUSTAS, Gaye Saginc  
 (74) Griffith Hack
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- (71) E-THERAPEUTICS PLC  
 (11) AU-A-2024218976  
 (21) 2024218976 (22) 06.02.2024  
 (54) INHIBITORS OF EXPRESSION AND/OR FUNCTION  
 (51) Int. Cl.  
**C12N 15/113** ( 2010.01 )  
 (87) WO2024/165568  
 (31) 23155091.4 (32) 06.02.23 (33) EP  
 23206777.7 30.10.23 EP  
 (43) 15.08.2024  
 (72) WHITMORE, Alan Victor; TENDENG, Christian; PURSELL, Natalie; ELLE, Damian  
 (74) Griffith Hack
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- (71) EVE POWER CO., LTD.  
 (11) AU-A-2023430219  
 (21) 2023430219 (22) 07.04.2023  
 (54) SELF-HEATING STRUCTURE AND BATTERY PACK COMPRISING SELF-HEATING STRUCTURE  
 (51) Int. Cl.  
**H01M 10/615** ( 2014.01 )  
**H01M 10/625** ( 2014.01 )  
**H01M 10/635** ( 2014.01 )  
 (87) WO2024/169016  
 (31) 202320253125.X (32) 16.02.23 (33) CN  
 (43) 22.08.2024  
 (72) JIAN, Xingwen; PEI, Tingting; CHEN, Liquan; LI, Yarong; WU, Tianyu; YANG, Gang; CHEN, Xiang; WEN, Man  
 (74) LexGeneris Pty Ltd
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- (71) EVITHE LIMITED  
 (11) AU-A-2024221532  
 (21) 2024221532 (22) 15.02.2024  
 (54) METHODS OF PREPARATION OF ZINGERONE, COMPOSITIONS COMPRISING ZINGERONE, AND USES THEREFOR  
 (51) Int. Cl.  
**A61K 31/12** ( 2006.01 )  
**A61K 36/9068** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
 (87) WO2024/171115  
 (31) 63/446,013 (32) 15.02.23 (33) US  
 (43) 22.08.2024  
 (72) HUNEFELD-GAIKEMA, Cynthia  
 (74) Southern Cross Intellectual Property
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- (71) EVONIK OPERATIONS GMBH  
 (11) AU-A-2023425987  
 (21) 2023425987 (22) 06.11.2023  
 (54) Polyamide composition and articles prepared therefrom  
 (51) Int. Cl.  
**C08L 77/06** ( 2006.01 )  
**C08K 13/02** ( 2006.01 )  
**C08L 51/00** ( 2006.01 )  
 (87) WO2024/156212  
 (31) PCT/ (32) 27.01.23 (33) CN  
 CN2023/073488  
 (43) 02.08.2024  
 (72) YE, Chenyu; LINEMANN, Reinhard; DANKE, Varun; HERMES, Florian  
 (74) AJ PARK
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- (71) EVONIK OPERATIONS GMBH  
 (11) AU-A-2024212245  
 (21) 2024212245 (22) 26.01.2024  
 (54) APPARATUS AND METHOD FOR SIMULTANEOUSLY TREATING DIFFERENT FLUCTUATING GAS FLOWS IN THE FIELD OF METHANATION  
 (51) Int. Cl.  
**B01D 53/22** ( 2006.01 )  
**C07C 1/12** ( 2006.01 )  
**C07C 7/144** ( 2006.01 )  
 (87) WO2024/156842  
 (31) 23153584.0 (32) 27.01.23 (33) EP
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- (43) 02.08.2024  
 (72) PRISKE, Markus; WINKLER, Florian  
 (74) AJ PARK
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- (71) EVONIK OPERATIONS GMBH  
 (11) AU-A-2024214542  
 (21) 2024214542 (22) 30.01.2024  
 (54) METHOD FOR THE FERMENTATIVE PRODUCTION OF GUANIDINOACETIC ACID USING A MICROORGANISM COMPRISING A HETEROLOGOUS L-THREONINE 3-DEHYDROGENASE GENE (TDH) AND A GLYCINE C-ACETYLTRANSFERASE GENE (KBL)  
 (51) Int. Cl.  
**C12N 15/77** ( 2006.01 )  
**A23K 20/105** ( 2016.01 )  
**A23K 50/75** ( 2016.01 )  
**A23L 33/175** ( 2016.01 )  
**C12P 1/00** ( 2006.01 )  
 (87) WO2024/160791  
 (31) 23154397.6 (32) 01.02.23 (33) EP  
 (43) 08.08.2024  
 (72) SCHAFFER, Steffen; CARRILLO CAMACHO, Martina; SCHNEIDER, Frank; WESSEL, Mirja  
 (74) AJ PARK
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- (71) EVONIK OPERATIONS GMBH  
 (11) AU-A-2024215398  
 (21) 2024215398 (22) 30.01.2024  
 (54) METHOD FOR THE FERMENTATIVE PRODUCTION OF GUANIDINOACETIC ACID USING A MICROORGANISM COMPRISING A HETEROLOGOUS L-THREONINE ALDOLASE GENE  
 (51) Int. Cl.  
**C12N 9/88** ( 2006.01 )  
**C12N 9/10** ( 2006.01 )  
**C12N 15/77** ( 2006.01 )  
**C12P 13/00** ( 2006.01 )  
**C12P 13/04** ( 2006.01 )  
**C12R 1/15** ( 2006.01 )  
 (87) WO2024/160790  
 (31) 23154399.2 (32) 01.02.23 (33) EP  
 (43) 08.08.2024  
 (72) SCHAFFER, Steffen; CARRILLO CAMACHO, Martina; SCHNEIDER, Frank; WESSEL, Mirja  
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- (71) F. HOFFMANN-LA ROCHE AG  
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 (54) MODULATION OF TARGET MOLECULE-LIPID BILAYER INTERACTIONS  
 (51) Int. Cl.  
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 (72) LAGUERRE, Aisha; NGUYEN, Courtney; NIE, Rongxin; VARGAS, Adolfo  
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 (72) SUDHOFF, Robin; WECHSUNG, Michael; GLOS, Stefan  
 (74) Griffith Hack
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- (71) FASTWAVE MEDICAL INC.  
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 (21) 2023443541 (22) 13.09.2023  
 (54) INTRAVASCULAR LITHOTRIPSY  
 (51) Int. Cl.  
*A61B 17/22* ( 2006.01 )  
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*A61M 25/10* ( 2013.01 )  
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 (31) 18/134,507 (32) 13.04.23 (33) US  
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- (71) FEMINAI LTD  
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 (54) UNIT, KIT AND SYSTEM FOR IDENTIFYING ABNORMALITIES IN A TISSUE OF A SUBJECT  
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 (72) NIELSEN, Kent Albin; PEDERSEN, Kim Bøgh; JAKOBSEN, Bine Hare  
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 (74) AJ PARK
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 (54) SYSTEMS AND METHODS OF HIGH-PRESSURE NANOFILTRATION TO REDUCE MAGNESIUM CONCENTRATION WHILE INCREASING LITHIUM CONCENTRATION  
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*B01D 61/02* ( 2006.01 )  
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*C22B 3/22* ( 2006.01 )  
*C22B 26/12* ( 2006.01 )  
*B01D 61/58* ( 2006.01 )  
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 (54) IMPROVEMENTS FOR BALLOON EXPANDABLE AND SELF EXPANDABLE PROSTHETIC HEART VALVES AND VALVE DELIVERY SYSTEMS  
 (51) Int. Cl.  
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 (54) REFRIGERATION CYCLE DEVICE  
 (51) Int. Cl.  
*F25B 41/40* ( 2021.01 )  
*F24F 1/0068* ( 2019.01 )  
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 (87) WO2024/195833  
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 (72) TAKAHASHI Hiroaki; TAKAHASHI Toshihiro; OGATA Naoki; SHIBATA Ryo; OKEDA Junpei  
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 (54) R-LOOP SENSOR  
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*C12Q 1/6816* ( 2018.01 )  
*C12Q 1/689* ( 2018.01 )  
*C12Q 1/70* ( 2006.01 )  
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 (31) PT118540 (32) 02.03.23 (33) PT  
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- (71) GALVIN ENGINEERING PTY LTD  
 (11) AU-A-2024233608  
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 (54) A FLUID DISCHARGE ARRANGEMENT  
 (51) Int. Cl.  
*E03C 1/10* ( 2006.01 )  
*E03B 1/02* ( 2006.01 )  
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*E03B 7/07* ( 2006.01 )  
*F16K 11/065* ( 2006.01 )  
*F16K 11/087* ( 2006.01 )  
 (87) WO2024/182855  
 (31) 2023900619 (32) 07.03.23 (33) AU  
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 (72) GRBEC, Simon; GRYGIERCZYK, Bartosz  
 (74) Integrated IP
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 (21) 2024225225 (22) 21.02.2024  
 (54) MODULAR DECK OR FLOORING SYSTEM  
 (51) Int. Cl.  
*E04F 15/024* ( 2006.01 )  
*E02D 5/28* ( 2006.01 )  
*E02D 5/48* ( 2006.01 )  
*E02D 5/54* ( 2006.01 )  
*E04B 5/10* ( 2006.01 )  
*E04F 15/02* ( 2006.01 )  
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 (74) Kings Patent & Trade Marks Attorneys Pty Ltd

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 (21) 2024235088 (22) 14.03.2024  
 (54) PROCESS FOR PRODUCTION OF RENEWABLE FUELS FROM ALCOHOLS  
 (51) Int. Cl.  
     C10L 1/02 ( 2006.01 )  
     C10L 1/14 ( 2006.01 )  
     C10L 1/16 ( 2006.01 )  
 (87) WO2024/192238  
 (31) 63/490,708 (32) 16.03.23 (33) US  
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 (72) O'NEILL, Brian; SMITH, Jonathan; INGRAM, Andrew  
 (74) Spruson & Ferguson

(71) GEVO, INC.  
 (11) AU-A-2024237167  
 (21) 2024237167 (22) 14.03.2024  
 (54) LOW ENERGY PRODUCTION PROCESS FOR RENEWABLE HYDROCARBONS  
 (51) Int. Cl.  
     C10G 50/00 ( 2006.01 )  
     B01D 3/02 ( 2006.01 )  
     B01D 5/00 ( 2006.01 )  
     C07C 2/86 ( 2006.01 )  
     C10L 1/04 ( 2006.01 )  
     C12M 1/00 ( 2006.01 )  
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 (72) GRUBER, Patrick; RYAN, Christopher; GALVEZ III, Adrian; STARKEY, Paul  
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 (21) 2024224958 (22) 22.02.2024  
 (54) COMPOSITION FOR IMPROVING THE AESTHETIC APPEARANCE OF HAIR AND SKIN APPENDAGES  
 (51) Int. Cl.  
     A61K 8/36 ( 2006.01 )  
     A61K 8/9783 ( 2017.01 )  
     A61K 8/9789 ( 2017.01 )  
     A61P 17/14 ( 2006.01 )  
     A61Q 7/00 ( 2006.01 )  
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 (72) GIULIANI, Giammaria; RINALDI, Fabio; PINTO, Daniela; MARZANI, Barbara  
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 (21) 2024225578 (22) 22.02.2024  
 (54) COMPOSITION FOR IMPROVING THE AESTHETIC APPEARANCE OF HAIR AND SKIN APPENDAGES

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     A61K 8/36 ( 2006.01 )  
     A61K 8/67 ( 2006.01 )  
     A61K 8/9783 ( 2017.01 )  
     A61P 17/14 ( 2006.01 )  
     A61Q 7/00 ( 2006.01 )  
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 (72) GIULIANI, Giammaria; RINALDI, Fabio; PINTO, Daniela; MARZANI, Barbara  
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 (54) COMPOUNDS  
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     A23B 2/733 ( 2025.01 )  
     A23L 33/105 ( 2016.01 )  
 (87) WO2024/160955  
 (31) 2301565.4 (32) 03.02.23 (33) GB  
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 (72) LAURENCON, Lise; ZIEGLER, Laure; BIRTIC, Simona  
 (74) PHILLIPS ORMONDE FITZPATRICK

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 (11) AU-A-2024223058  
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 (54) HYBRID EM-LC RESONATOR  
 (51) Int. Cl.  
     H02J 50/12 ( 2016.01 )  
     B60L 53/12 ( 2019.01 )  
     H01F 38/14 ( 2006.01 )  
     H02J 7/00 ( 2006.01 )  
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 (72) PLEKHANOV, Sergey; PLEKHANOV, Leonid  
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(71) GLUETACS THERAPEUTICS (SHANGHAI) CO., LTD.  
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 (54) COMPOUND BASED ON SULFUR/OXYGEN SUBSTITUTED GLUTARIMIDE-BASED ISOINDOLINONE SKELETON AND USE THEREOF  
 (51) Int. Cl.  
     C07D 401/14 ( 2006.01 )  
     A61K 31/40 ( 2006.01 )  
     A61K 31/454 ( 2006.01 )  
     A61K 31/4545 ( 2006.01 )  
     A61K 31/5377 ( 2006.01 )  
     A61P 25/00 ( 2006.01 )  
     A61P 29/00 ( 2006.01 )  
     A61P 35/00 ( 2006.01 )  
     C07D 409/14 ( 2006.01 )  
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(71) GMP BIOTECHNOLOGY LIMITED  
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 (54) MTOR THERAPEUTICS FOR CANCER  
 (51) Int. Cl.  
     A61K 39/395 ( 2006.01 )  
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     C12N 15/113 ( 2010.01 )  
     A61P 35/00 ( 2006.01 )  
     C12Q 1/6876 ( 2018.01 )  
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     G01N 33/48 ( 2006.01 )  
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 (72) TRIEU, Vuong  
 (74) FB Rice Pty Ltd

(71) GRADIANT CORPORATION  
 (11) AU-A-2024232220  
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 (54) GENERATION OF HYDROXYL RADICALS IN AN ADVANCED OXIDATION REACTOR  
 (51) Int. Cl.  
     C02F 1/46 ( 2023.01 )  
     C02F 1/461 ( 2023.01 )  
     C02F 1/72 ( 2023.01 )  
     H01M 4/133 ( 2010.01 )  
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     C02F 3/20 ( 2023.01 )  
     H01M 4/583 ( 2010.01 )  
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 (21) 2024240363 (22) 14.03.2024  
 (54) TRAY WITH DIVIDER FEATURES  
 (51) Int. Cl.  
     B65D 1/34 ( 2006.01 )  
     A47G 19/02 ( 2006.01 )  
     B29C 51/32 ( 2006.01 )  
     B29C 51/36 ( 2006.01 )  
     B65D 6/16 ( 2006.01 )  
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 (54) SWEETNESS COMPOSITION AND PREPARATION METHOD THEREOF  
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 (72) MACIOLEK, Eric Paul; LIBEN, Max Meyer  
 (74) Davies Collison Cave Pty Ltd
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 (54) MOTOR ASSEMBLY WITH AXIAL CIRCUIT ASSEMBLY AND SWITCH MOUNT  
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 (11) AU-A-2024221845  
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 (54) SALT OF BENZO-NITROGEN HETEROAROMATIC RING DERIVATIVE, CRYSTALLINE FORM, AND PHARMACEUTICAL USE THEREOF  
 (51) Int. Cl.  
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**C07D 401/02** ( 2006.01 )  
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 (11) AU-A-2024226460  
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 (54) PHARMACEUTICAL COMPOSITION OF BENZO NITROGEN HETEROAROMATIC RING DERIVATIVE AND USE THEREOF IN MEDICINE  
 (51) Int. Cl.  
**A61K 31/454** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
**A61K 47/00** ( 2006.01 )  
**A61P 13/12** ( 2006.01 )  
**C07D 401/02** ( 2006.01 )  
**C07D 401/06** ( 2006.01 )  
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 (87) WO2024/175028  
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- (71) HALEON US HOLDINGS LLC  
 (11) AU-A-2024228239  
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 (54) POPPING CRYSTAL COMPOSITIONS  
 (51) Int. Cl.  
**A23G 3/34** ( 2006.01 )  
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**A61K 9/00** ( 2006.01 )  
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 (74) AJ PARK

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 (51) Int. Cl.  
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**E21B 23/04** ( 2006.01 )  
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 (72) KING, Douglas  
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 (54) STACKING MEMBER AND STACKING SYSTEM  
 (51) Int. Cl.  
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 (31) 202320568831.3 (32) 17.03.23 (33) CN  
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 (74) Madderns Pty Ltd
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- (71) HAWA SLIDING SOLUTIONS AG  
 (11) AU-A-2024236913  
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 (54) RAIL DEVICE AND FUNCTIONAL UNIT  
 (51) Int. Cl.  
**E05D 15/26** ( 2006.01 )  
**E05D 15/58** ( 2006.01 )  
 (87) WO2024/188686  
 (31) 23162443.8 (32) 16.03.23 (33) EP  
 (43) 19.09.2024  
 (72) TUBERGA, Marco; URECH, Cédric  
 (74) Madderns Pty Ltd
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- (71) HAWA SLIDING SOLUTIONS AG  
 (11) AU-A-2024255172  
 (21) 2024255172 (22) 08.04.2024  
 (54) CLOSING DEVICE FOR A SLIDING DOOR DEVICE, AND SLIDING DOOR DEVICE  
 (51) Int. Cl.  
**E05F 1/16** ( 2006.01 )  
**E05F 5/00** ( 2017.01 )  
 (87) WO2024/213514  
 (31) 23168097.6 (32) 14.04.23 (33) EP  
 (43) 17.10.2024  
 (72) EGGER, Ralph; LACH, Marek  
 (74) Madderns Pty Ltd
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- (71) HAWA SLIDING SOLUTIONS AG  
 (11) AU-A-2024267755  
 (21) 2024267755 (22) 26.04.2024  
 (54) GUIDE DEVICE, GUIDE CARRIAGE, AND FUNCTIONAL UNIT  
 (51) Int. Cl.



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**E05D 15/58** ( 2006.01 )  
**(87)** WO2024/231138  
**(31)** 23171916.2 **(32)** 05.05.23 **(33)** EP  
**(43)** 14.11.2024  
**(72)** PALOMBELLA, Flavio; TUBERGA, Marco  
**(74)** Madderns Pty Ltd
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- (71)** HEALTH AND HAPPINESS (H&H) HONG KONG LIMITED  
**(11)** AU-A-2024416013  
**(21)** 2024416013 **(22)** 15.03.2024  
**(54)** USE OF SILYBUM MARIANUM PHARMACEUTICAL COMPOSITION IN PREPARATION OF DRUGS FOR TREATING FATTY LIVER DISEASES  
**(51)** Int. Cl.  
**A61K 31/357** ( 2006.01 )  
**A61K 31/353** ( 2006.01 )  
**A61P 1/16** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
**(31)** 202410223526.X **(32)** 28.02.24 **(33)** CN  
**(43)** 11.09.2025  
**(72)** ZHAO, Lingling; ZHANG, Hua; XIANG, Lan; Yi, Meijuan; HUANG, Jingya; WANG, Lianjing; LIU, Wei  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** HEBEI YILING MEDICAL RESEARCH INSTITUTE CO., LTD  
**(11)** AU-A-2024228270  
**(21)** 2024228270 **(22)** 01.02.2024  
**(54)** TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING AMYOTROPHIC LATERAL SCLEROSIS AND USE THEREOF  
**(51)** Int. Cl.  
**A61K 36/64** ( 2006.01 )  
**A61K 9/14** ( 2006.01 )  
**A61K 9/20** ( 2006.01 )  
**A61K 36/258** ( 2006.01 )  
**A61P 21/04** ( 2006.01 )  
**(87)** WO2024/179269  
**(31)** 202310190284.4 **(32)** 02.03.23 **(33)** CN  
**(43)** 06.09.2024  
**(72)** WU, Yiling  
**(74)** GLMR
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- (71)** HEIDECHE, S.  
**(11)** AU-A-2024240310  
**(21)** 2024240310 **(22)** 22.03.2024  
**(54)** RUN CYCLE EXERCISE DEVICE  
**(51)** Int. Cl.  
**A63B 22/06** ( 2006.01 )  
**A63B 21/22** ( 2006.01 )  
**A63B 22/00** ( 2006.01 )  
**(87)** WO2024/197224  
**(31)** 63/454,128 **(32)** 23.03.23 **(33)** US  
 18/612,158 21.03.24 US  
**(43)** 26.09.2024  
**(72)** HEIDECHE, Steven  
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD
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- (71)** HEIMDALYTICS GMBH  
**(11)** AU-A-2024213237  
**(21)** 2024213237 **(22)** 30.01.2024  
**(54)** SPECTROMETRY PLUG FOR A BATTERY PACK IN AN ELECTRIC MOBILITY APPLICATION  
**(51)** Int. Cl.  
**G01R 31/364** ( 2019.01 )  
**G01R 31/389** ( 2019.01 )  
**(87)** WO2024/160833  
**(31)** 23154204.4 **(32)** 31.01.23 **(33)** EP  
**(43)** 08.08.2024  
**(72)** VAN ZEYL, Clemens  
**(74)** Spruson & Ferguson
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- (71)** HERRENKNECHT AKTIENGESELLSCHAFT  
**(11)** AU-A-2024258997  
**(21)** 2024258997 **(22)** 15.03.2024  
**(54)** TUNNEL BORING MACHINE  
**(51)** Int. Cl.  
**E21D 9/06** ( 2006.01 )  
**(87)** WO2024/217794  
**(31)** 10 2023 109 996.5 **(32)** 20.04.23 **(33)** DE  
**(43)** 24.10.2024  
**(72)** JAHN, Thomas; WIEST, Achim; BIRLIN, Jörg; FÖRSTER, Florian; FEISST, Albert; HIMMELSBACH, Christian; WEHRMEYER, Gerhard  
**(74)** PHILLIPS ORMONDE FITZPATRICK
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- (71)** HIPPOKRATES GMBH  
**(11)** AU-A-2024229559  
**(21)** 2024229559 **(22)** 01.03.2024  
**(54)** TEMPERATURE-CONTROL ARRANGEMENT, METHOD FOR THE INSTALLATION THEREOF AND METHOD FOR CONTROLLING THE TEMPERATURE OF A ROOM  
**(51)** Int. Cl.  
**F24F 5/00** ( 2006.01 )  
**F24F 6/12** ( 2006.01 )  
**F24F 6/14** ( 2006.01 )  
**F24F 11/020** ( 2018.01 )  
**(87)** WO2024/180247  
**(31)** 10 2023 105 177.6 **(32)** 02.03.23 **(33)** DE  
**(43)** 06.09.2024  
**(72)** BELKA, Jonny; VON GEHREN, Martin  
**(74)** Spruson & Ferguson
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- (71)** HITACHI ENERGY LTD  
**(11)** AU-A-2023438724  
**(21)** 2023438724 **(22)** 22.03.2023  
**(54)** A METHOD OF DETECTING A FAULT IN A TRANSMISSION LINE IN AN AC POWER TRANSMISSION SYSTEM  
**(51)** Int. Cl.  
**H02H 3/40** ( 2006.01 )  
**(87)** WO2024/193819  
**(43)** 26.09.2024  
**(72)** GAJIC, Zoran  
**(74)** FB Rice Pty Ltd
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- (71)** HITACHI ENERGY LTD  
**(11)** AU-A-2024244987  
**(21)** 2024244987 **(22)** 28.03.2024
- 
- (54)** APPARATUS FOR POWER CONVERSION AND METHOD FOR OPERATING THE APPARATUS  
**(51)** Int. Cl.  
**H02M 1/00** ( 2007.01 )  
**H02J 3/38** ( 2006.01 )  
**H02J 3/46** ( 2006.01 )  
**H02M 1/32** ( 2007.01 )  
**H02M 3/158** ( 2006.01 )  
**(87)** WO2024/200747  
**(31)** 202310340209.1 **(32)** 31.03.23 **(33)** CN  
 23168562.9 18.04.23 EP  
**(43)** 03.10.2024  
**(72)** HUANG, Xing; YANG, XiaoBo; TUCKEY, Andrew Mark  
**(74)** FB Rice Pty Ltd
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- (71)** HITACHI INDUSTRIAL PRODUCTS, LTD.  
**(11)** AU-A-2023447265  
**(21)** 2023447265 **(22)** 11.05.2023  
**(54)** ELECTRIC VEHICLE  
**(51)** Int. Cl.  
**B60L 7/14** ( 2006.01 )  
**B60L 7/22** ( 2006.01 )  
**(87)** WO2024/232096  
**(43)** 14.11.2024  
**(72)** HIGASHIMATA Itaru; FURUKAWA Isao; AMEMIYA Yoshiki; ABE Yusuke  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** HITACHI INDUSTRIAL PRODUCTS, LTD.  
**(11)** AU-A-2023449263  
**(21)** 2023449263 **(22)** 23.05.2023  
**(54)** ELECTRICALLY DRIVEN VEHICLE  
**(51)** Int. Cl.  
**B60L 7/16** ( 2006.01 )  
**B60L 9/18** ( 2006.01 )  
**(87)** WO2024/241497  
**(43)** 28.11.2024  
**(72)** KIKUCHI Akira; FURUKAWA Isao; HIGASHIMATA Itaru; AMEMIYA Yoshiki  
**(74)** Davies Collison Cave Pty Ltd
- 
- (71)** HITGEN INC.  
**(11)** AU-A-2024228835  
**(21)** 2024228835 **(22)** 01.03.2024  
**(54)** AROMATIC-RING COMPOUND AND USE THEREOF  
**(51)** Int. Cl.  
**C07C 323/62** ( 2006.01 )  
**A61K 31/00** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07D 333/20** ( 2006.01 )  
**(87)** WO2024/179572  
**(31)** 202310183442.3 **(32)** 01.03.23 **(33)** CN  
 202311106221.2 30.08.23 CN  
**(43)** 06.09.2024  
**(72)** LI, Jin; WANG, Qingyang; WANG, Xiaotao; LI, Xiaomei; DOU, Dengfeng; MENG, Xiaoyun; LI, Xianyang; CHEN, Qiuxia; GUO, Anping; ZHENG, Nuo; HU, Hong; HE, Wei  
**(74)** A.P.T. Patent and Trade Mark Attorneys

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(71) HOLLISTER INCORPORATED (11) AU-A-2024260888 (21) 2024260888 (22) 10.04.2024 (54) SOFT CONVEX OSTOMY BARRIER APPLIANCE (51) Int. Cl. A61F 5/445 ( 2006.01 ) (87) WO2024/226294 (31) 63/498,195 (32) 25.04.23 (33) US (43) 31.10.2024 (72) CZAPLEWSKI, Gregory, J. (74) GLMR	202310359894.2 28.03.23 CN 202310491179.4 28.04.23 CN 202311055979.8 18.08.23 CN (43) 29.08.2024 (72) HUANG, Kechao; LUO, Ji; YANG, Xiaoling; MA, Huixiao (74) PHILLIPS ORMONDE FITZPATRICK	(21) 2024305213 (22) 29.03.2024 (54) FUEL PREHEATER (51) Int. Cl. F23K 5/00 ( 2006.01 ) C01B 3/04 ( 2006.01 ) F23C 13/08 ( 2006.01 ) F23D 14/18 ( 2006.01 ) (87) WO2024/257438 (31) 2023-097818 (32) 14.06.23 (33) JP (43) 19.12.2024 (72) OZAKI, Naoki; WATANABE, Kazuhiro; KAMEOKA, Yushi; YAMADA, Toshihiko (74) Spruson & Ferguson
(71) HOLLISTER INCORPORATED (11) AU-A-2024261274 (21) 2024261274 (22) 22.04.2024 (54) URINARY CATHETER WITH INTRODUCING AID (51) Int. Cl. A61L 29/08 ( 2006.01 ) A61L 29/16 ( 2006.01 ) A61M 25/00 ( 2006.01 ) (87) WO2024/226429 (31) 63/497,926 (32) 24.04.23 (33) US (43) 31.10.2024 (72) PANESAR, Satwinder, S.; FARRELL, David, J. (74) Spruson & Ferguson	(71) HUAWEI TECHNOLOGIES CO., LTD. (11) AU-A-2024226522 (21) 2024226522 (22) 25.01.2024 (54) APPLICATION CONTEXT RELOCATION METHOD, COMMUNICATION METHOD, RELATED APPARATUS, AND SYSTEM (51) Int. Cl. G06F 9/48 ( 2006.01 ) H04L 67/563 ( 2022.01 ) (87) WO2024/174803 (31) 202310193234.1 (32) 20.02.23 (33) CN (43) 29.08.2024 (72) HU, Yajie; YANG, Yanmei; LI, Yongcui (74) PHILLIPS ORMONDE FITZPATRICK	(71) INMAGENE PTE. LTD. (11) AU-A-2024235162 (21) 2024235162 (22) 18.03.2024 (54) ILT-TARGETING ANTIBODIES AND USES THEREOF (51) Int. Cl. A61P 37/06 ( 2006.01 ) C07K 16/28 ( 2006.01 ) (87) WO2024/188356 (31) PCT/CN2023/082006 (32) 16.03.23 (33) CN (43) 19.09.2024 (72) FAN, Pengcheng; LEI, Run; GUO, Chongtian; WU, Xiaotong; LI, Yiqing; XU, Steven (74) Spruson & Ferguson
(71) HOLLISTER INCORPORATED (11) AU-A-2024261540 (21) 2024261540 (22) 10.04.2024 (54) DEEP CONVEX OSTOMY BARRIER APPLIANCE (51) Int. Cl. A61F 5/445 ( 2006.01 ) (87) WO2024/226298 (31) 63/498,205 (32) 25.04.23 (33) US (43) 31.10.2024 (72) CZAPLEWSKI, Gregory, J. (74) GLMR	(71) HUMANWELL PHARMACEUTICAL US, INC. (11) AU-A-2024236277 (21) 2024236277 (22) 14.03.2024 (54) SIGMA-1 RECEPTOR ANTAGONISTS AND THEIR APPLICATIONS (51) Int. Cl. A61K 31/416 ( 2006.01 ) A61K 31/4188 ( 2006.01 ) A61K 31/4409 ( 2006.01 ) A61K 31/4427 ( 2006.01 ) A61K 31/5377 ( 2006.01 ) C07D 213/04 ( 2006.01 ) A61P 29/00 ( 2006.01 ) (87) WO2024/192247 (31) 63/452,034 (32) 14.03.23 (33) US (43) 19.09.2024 (72) ZHAO, Shuo; LIAO, Subo; YANG, Jun; ZHOU, Hao; DING, Zejian; HE, Yao; MOU, Xiongjun; NING, Youjian; ZHENG, Xin (74) RNB IP PTY LTD	(71) INNOBIO CORPORATION LIMITED; INNOBIO (HEI LONG JIANG) LIMITED (11) AU-A-2024412280 (21) 2024412280 (22) 25.12.2024 (54) ENGINEERED BACTERIUM, CONSTRUCTION METHOD THEREFOR AND USE THEREOF (51) Int. Cl. C12N 1/21 ( 2006.01 ) C07K 14/245 ( 2006.01 ) C12N 9/48 ( 2006.01 ) C12N 15/31 ( 2006.01 ) C12P 13/22 ( 2006.01 ) (87) WO2025/140256 (31) 202311807065.2 (32) 26.12.23 (33) CN (43) 03.07.2025 (72) FAN, Chao; QI, Jiakun; HONG, Hao; LIU, Jun; CHEN, Jianbin; WU, Wenzhong (74) Madderns Pty Ltd
(71) HOLLISTER INCORPORATED (11) AU-A-2024263066 (21) 2024263066 (22) 22.04.2024 (54) URINARY CATHETER ASSEMBLY WITH GUIDANCE DEVICE (51) Int. Cl. A61M 25/00 ( 2006.01 ) A61M 25/01 ( 2006.01 ) A61M 27/00 ( 2006.01 ) (87) WO2024/226427 (31) 63/497,923 (32) 24.04.23 (33) US (43) 31.10.2024 (72) FARRELL, David, J.; PIERCE, David (74) Spruson & Ferguson	(71) HYFE INC (11) AU-A-2024214504 (21) 2024214504 (22) 30.01.2024 (54) METHODS FOR AUTOMATIC COUGH DETECTION AND USES THEREOF (51) Int. Cl. A61B 5/08 ( 2006.01 ) A61B 5/00 ( 2006.01 ) G16H 50/20 ( 2018.01 ) (87) WO2024/163390 (31) 63/442,310 (32) 31.01.23 (33) US (43) 08.08.2024 (72) CIRCO, Julian-Alexandru; DREW, Joseph, Russell; RIEGER, Paul, Simon; SMALL, Peter, Mcmichael; KAFENTZIS, Georgios (74) LAMINAR IP PTY LTD	(71) INNOSPEC LIMITED (11) AU-A-2024230210 (21) 2024230210 (22) 27.02.2024 (54) COMPOSITION, METHOD AND USE FOR REDUCING EMISSIONS OF A DIESEL ENGINE (51) Int. Cl. C10L 1/222 ( 2006.01 ) (87) WO2024/180333 (31) 2302845.9 (32) 27.02.23 (33) GB (43) 06.09.2024 (72) BROOM, Nigel; KNIGHT, Peter (74) PHILLIPS ORMONDE FITZPATRICK
(71) HUAWEI TECHNOLOGIES CO., LTD. (11) AU-A-2024224535 (21) 2024224535 (22) 22.02.2024 (54) DATA PROCESSING METHOD AND DATA PROCESSING DEVICE (51) Int. Cl. H04L 27/34 ( 2006.01 ) H04L 1/00 ( 2006.01 ) (87) WO2024/175059 (31) 202310206681.6 (32) 25.02.23 (33) CN	(71) IHI CORPORATION (11) AU-A-2024305213	

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- (71) INNOVATIVE MANGANESE TECHNOLOGIES SA (PTY) LTD.  
 (11) AU-A-2024233656  
 (21) 2024233656 (22) 14.02.2024  
 (54) PRODUCTION OF MnSO<sub>4</sub>  
 (51) Int. Cl.  
 C01G 45/10 ( 2006.01 )  
 C22B 3/20 ( 2006.01 )  
 C22B 47/00 ( 2006.01 )  
 (87) WO2024/184712  
 (31) 2023/03282 (32) 03.03.23 (33) ZA  
 (43) 12.09.2024  
 (72) PRETORIUS, Gerard  
 (74) MBIP
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- (71) INNOVENT BIOLOGICS (SUZHOU) CO., LTD.  
 (11) AU-A-2024218755  
 (21) 2024218755 (22) 18.02.2024  
 (54) PHARMACEUTICAL PREPARATION CONTAINING ANTI-VEGFA AND ANTI-VEGFC BISPECIFIC BINDING PROTEIN  
 (51) Int. Cl.  
 A61K 39/395 ( 2006.01 )  
 A61P 35/00 ( 2006.01 )  
 C07K 16/22 ( 2006.01 )  
 (87) WO2024/165077  
 (31) 202310101989.4 (32) 10.02.23 (33) CN  
 (43) 15.08.2024  
 (72) LIU, Yi; HE, Bing; MA, Yidong  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) INPIPE ENERGY, INC.  
 (11) AU-A-2024245320  
 (21) 2024245320 (22) 25.01.2024  
 (54) SYSTEM AND METHOD FOR AN IN-CONDUIT HYDROTURBINE  
 (51) Int. Cl.  
 F03B 15/08 ( 2006.01 )  
 F03B 11/00 ( 2006.01 )  
 F03B 13/00 ( 2006.01 )  
 (87) WO2024/205707  
 (31) 18/190,672 (32) 27.03.23 (33) US  
 (43) 03.10.2024  
 (72) CONNOR JR., Michael; BEALES, Thomas; SEMLER, Gregory T.  
 (74) MBIP
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- (71) INSMED INCORPORATED  
 (11) AU-A-2024237520  
 (21) 2024237520 (22) 15.03.2024  
 (54) DPP1 INHIBITORS WITH POLYCYCLIC LINKERS AND USES THEREOF  
 (51) Int. Cl.  
 A61K 31/553 ( 2006.01 )  
 C07D 267/10 ( 2006.01 )  
 A61P 9/04 ( 2006.01 )  
 A61P 11/00 ( 2006.01 )  
 A61P 19/02 ( 2006.01 )  
 (87) WO2024/192416  
 (31) 63/452,636 (32) 16.03.23 (33) US  
 63/546,686 31.10.23 US  
 (43) 19.09.2024  
 (72) PLAUNT, Adam J.  
 (74) Adams Pluck
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- (71) INSMED INCORPORATED  
 (11) AU-A-2024241485  
 (21) 2024241485 (22) 18.03.2024  
 (54) SPRAY DRIED TREPSTINIL FORMULATION  
 (51) Int. Cl.  
 A61K 31/216 ( 2006.01 )  
 A61K 9/16 ( 2006.01 )  
 A61P 9/12 ( 2006.01 )  
 (87) WO2024/196899  
 (31) 63/452,985 (32) 17.03.23 (33) US  
 (43) 26.09.2024  
 (72) CIPOLLA, David; LI, Zhili; PALWAI, Naveen; AMIN, Harshh; SULLIVAN, Eugene; FERNANDEZ, Carlos  
 (74) Adams Pluck
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- (71) INS ORTHO, INC.  
 (11) AU-A-2024220940  
 (21) 2024220940 (22) 20.02.2024  
 (54) SELF-CINCHING ADJUSTABLE LOOP SUTURE CONSTRUCT  
 (51) Int. Cl.  
 A61B 17/04 ( 2006.01 )  
 (87) WO2024/173952  
 (31) 63/446,836 (32) 18.02.23 (33) US  
 (43) 22.08.2024  
 (72) ANDERSON, Christian N.  
 (74) AJ PARK
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- (71) IN THE BOWL ANIMAL HEALTH, INC.  
 (11) AU-A-2024250942  
 (21) 2024250942 (22) 01.04.2024  
 (54) MATERIALS AND METHODS FOR THE MANUFACTURE OF AN ANIMAL FEED  
 (51) Int. Cl.  
 A23K 20/10 ( 2016.01 )  
 A23K 20/163 ( 2016.01 )  
 A23K 20/24 ( 2016.01 )  
 A61P 3/02 ( 2006.01 )  
 A23K 20/158 ( 2016.01 )  
 (87) WO2024/211233  
 (31) 63/493,741 (32) 01.04.23 (33) US  
 63/571,839 29.03.24 US  
 (43) 10.10.2024  
 (72) READNOUR, Robin, S.; WINKLE, Joseph, R.; WILLARD, Kevin, E.; HOLMSTROM, Scott  
 (74) Spruson & Ferguson
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- (71) IONCTURA SA  
 (11) AU-A-2024231699  
 (21) 2024231699 (22) 01.03.2024  
 (54) COMBINATION OF ROGINOLISIB AND HDAC INHIBITOR IN THE TREATMENT OF HAEMATOLOGICAL MALIGNANCY  
 (51) Int. Cl.  
 A61K 31/167 ( 2006.01 )  
 A61K 31/18 ( 2006.01 )  
 A61K 31/19 ( 2006.01 )  
 A61K 31/343 ( 2006.01 )  
 A61K 31/4045 ( 2006.01 )  
 A61K 31/4184 ( 2006.01 )  
 A61K 31/4406 ( 2006.01 )  
 A61K 31/506 ( 2006.01 )  
 A61K 31/5377 ( 2006.01 )  
 A61K 38/15 ( 2006.01 )
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- (71) A61K 45/06 ( 2006.01 )  
 A61P 35/00 ( 2006.01 )  
 A61P 35/02 ( 2006.01 )  
 (87) WO2024/184266  
 (31) 2303191.7 (32) 03.03.23 (33) GB  
 2308112.8 31.05.23 GB  
 (43) 12.09.2024  
 (72) NIEWOLA-STASZKOWSKA, Karolina; LAHN, Michael; DI CONZA, Giusy; BERTONI, Francesco; TARANTELLI, Chiara  
 (74) FB Rice Pty Ltd
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- (71) ISTESEO 1 LIMITED  
 (11) AU-A-2024234404  
 (21) 2024234404 (22) 15.03.2024  
 (54) MITOCHONDRIAL COMPLEX I MODULATOR COMPOUNDS FOR ADAPTIVE REPAIR  
 (51) Int. Cl.  
 A61K 31/18 ( 2006.01 )  
 A61K 31/10 ( 2006.01 )  
 A61K 31/277 ( 2006.01 )  
 A61K 31/4418 ( 2006.01 )  
 A61K 31/445 ( 2006.01 )  
 A61P 11/00 ( 2006.01 )  
 A61P 19/00 ( 2006.01 )  
 A61P 19/02 ( 2006.01 )  
 A61P 29/00 ( 2006.01 )  
 A61P 35/00 ( 2006.01 )  
 A61P 37/00 ( 2006.01 )  
 A61P 43/00 ( 2006.01 )  
 (87) WO2024/189230  
 (31) 23162131.9 (32) 15.03.23 (33) EP  
 (43) 19.09.2024  
 (72) FOSTER, Martyn Leslie; MAZANETZ, Michael Philip; PATEL, Lisa; VINK, Paul  
 (74) Forte Intellectual Property Pty Ltd
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- (71) JANSSEN PHARMACEUTICA NV  
 (11) AU-A-2024213537  
 (21) 2024213537 (22) 26.01.2024  
 (54) IMIDAZO[1,2-D][1,2,4]TRIAZINES AS NLRP3 INHIBITORS  
 (51) Int. Cl.  
 C07D 487/04 ( 2006.01 )  
 A61K 31/53 ( 2006.01 )  
 A61P 25/16 ( 2006.01 )  
 A61P 25/28 ( 2006.01 )  
 C07D 519/00 ( 2006.01 )  
 (87) WO2024/160692  
 (31) 23154299.4 (32) 31.01.23 (33) EP  
 (43) 08.08.2024  
 (72) MAMMOLITI, Oscar; JERHAOUI, Soufyan; PEREZ BENITO, Laura; CAÑELLAS ROMAN, Santiago; RY-ABCHUK, Pavel; DEMIN, Samuel Dominique; LUTTER, Ferdinand Hermann  
 (74) Spruson & Ferguson
- 
- (71) JANSSEN PHARMACEUTICA NV  
 (11) AU-A-2024214096  
 (21) 2024214096 (22) 26.01.2024  
 (54) [1,2,4]TRIAZOLO[4,3-a]PYRIDINES AND [1,2,4]TRIAZOLO[4,3-a]PYRAZINES AS NLRP3 INHIBITORS  
 (51) Int. Cl.  
 C07D 471/04 ( 2006.01 )

PCT applications which have entered the National Phase - Name Index cont'd

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**A61P 25/28** ( 2006.01 )  
**(87)** WO2024/160694  
**(31)** 23154304.2 ( **32** ) 31.01.23 ( **33** ) EP  
**(43)** 08.08.2024  
**(72)** MAMMOLITI, Oscar; JERHAOUI, Soufyan; PEREZ BENITO, Laura; CAÑELLAS ROMAN, Santiago; CID-NÚÑEZ, José Maria  
**(74)** Spruson & Ferguson

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**(71)** JANSSEN PHARMACEUTICA NV  
**(11)** AU-A-2024214354  
**(21)** 2024214354 ( **22** ) 26.01.2024  
**(54)** PYRROLO[1,2-d][1,2,4]TRIAZINES AND PYRAZOLO[1,5-d][1,2,4]TRIAZINES AS NLRP3 INHIBITORS  
**(51)** Int. Cl.  
**C07D 487/04** ( 2006.01 )  
**A61K 31/407** ( 2006.01 )  
**A61K 31/4162** ( 2006.01 )  
**A61K 31/53** ( 2006.01 )  
**A61P 25/16** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
**C07D 519/00** ( 2006.01 )  
**(87)** WO2024/160691  
**(31)** 23154277.0 ( **32** ) 31.01.23 ( **33** ) EP  
**(43)** 08.08.2024  
**(72)** MAMMOLITI, Oscar; JERHAOUI, Soufyan; PEREZ BENITO, Laura; JACOBY, Edgar; CAÑELLAS ROMAN, Santiago  
**(74)** Spruson & Ferguson

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**(71)** JANSSEN PHARMACEUTICA NV  
**(11)** AU-A-2024214952  
**(21)** 2024214952 ( **22** ) 26.01.2024  
**(54)** 2-(PYRIDAZIN-3-YL)-5-(TRIFLUOROMETHYL)PHENOLS AS NLRP3 INHIBITORS  
**(51)** Int. Cl.  
**C07D 401/06** ( 2006.01 )  
**A61K 31/501** ( 2006.01 )  
**A61K 31/502** ( 2006.01 )  
**A61K 31/5025** ( 2006.01 )  
**A61P 25/16** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
**C07D 401/14** ( 2006.01 )  
**C07D 403/06** ( 2006.01 )  
**C07D 405/14** ( 2006.01 )  
**C07D 413/06** ( 2006.01 )  
**C07D 471/04** ( 2006.01 )  
**C07D 491/04** ( 2006.01 )  
**(87)** WO2024/160690  
**(31)** 23154273.9 ( **32** ) 31.01.23 ( **33** ) EP  
**(43)** 08.08.2024  
**(72)** MAMMOLITI, Oscar; JERHAOUI, Soufyan; PEREZ BENITO, Laura; CAÑELLAS ROMAN, Santiago; OEHLRICH, Daniel; PRIERI, Marion Laurence Christiane; MURATORE, Michael Eric; RICCIOLI, Riccardo  
**(74)** Spruson & Ferguson

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**(71)** JANSSEN PHARMACEUTICA NV  
**(11)** AU-A-2024215094  
**(21)** 2024215094 ( **22** ) 26.01.2024

**(54)** PYRIDIN-2(1H)-ONES AND PYRIMIDIN-4(3H)-ONES AS NLRP3 INHIBITORS  
**(51)** Int. Cl.  
**C07D 239/22** ( 2006.01 )  
**A61K 31/4427** ( 2006.01 )  
**A61K 31/513** ( 2006.01 )  
**A61P 25/16** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
**C07D 401/04** ( 2006.01 )  
**C07D 401/06** ( 2006.01 )  
**C07D 403/06** ( 2006.01 )  
**C07D 405/04** ( 2006.01 )  
**C07D 405/06** ( 2006.01 )  
**C07D 409/06** ( 2006.01 )  
**C07D 411/06** ( 2006.01 )  
**C07D 413/06** ( 2006.01 )  
**C07D 471/04** ( 2006.01 )  
**C07D 471/08** ( 2006.01 )  
**C07D 487/08** ( 2006.01 )  
**C07D 491/10** ( 2006.01 )  
**C07D 491/107** ( 2006.01 )  
**C07D 493/08** ( 2006.01 )  
**C07D 495/08** ( 2006.01 )  
**C07D 498/08** ( 2006.01 )  
**(87)** WO2024/160693  
**(31)** 23154301.8 ( **32** ) 31.01.23 ( **33** ) EP  
**(43)** 08.08.2024  
**(72)** MAMMOLITI, Oscar; JERHAOUI, Soufyan; PEREZ BENITO, Laura; CAÑELLAS ROMAN, Santiago; OEHLRICH, Daniel; PRIERI, Marion Laurence Christiane; MURATORE, Michael Eric; RYABCHUK, Pavel  
**(74)** Spruson & Ferguson

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**(71)** JAPAN TOBACCO INC.  
**(11)** AU-A-2024226032  
**(21)** 2024226032 ( **22** ) 22.02.2024  
**(54)** SUBSTITUTED PYRAZOLOPYRIMIDINE COMPOUND AND PHARMACEUTICAL USE THEREOF  
**(51)** Int. Cl.  
**C07D 487/04** ( 2006.01 )  
**A61K 31/519** ( 2006.01 )  
**A61P 1/04** ( 2006.01 )  
**A61P 1/16** ( 2006.01 )  
**A61P 9/00** ( 2006.01 )  
**A61P 9/10** ( 2006.01 )  
**A61P 17/00** ( 2006.01 )  
**A61P 19/02** ( 2006.01 )  
**A61P 21/00** ( 2006.01 )  
**A61P 25/00** ( 2006.01 )  
**A61P 25/14** ( 2006.01 )  
**A61P 25/16** ( 2006.01 )  
**A61P 25/28** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**(87)** WO2024/177127  
**(31)** 2023-027432 ( **32** ) 24.02.23 ( **33** ) JP  
**(43)** 29.08.2024  
**(72)** OHBA, Yusuke; ADACHI, Kaoru; SAKURAI, Kentaro; SATO, Shimpei  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** JFE ENGINEERING CORPORATION; NATIONAL UNIVERSITY CORPORATION UNIVERSITY OF TOYAMA  
**(11)** AU-A-2024231187  
**(21)** 2024231187 ( **22** ) 29.02.2024

**(54)** METHOD AND DEVICE FOR SUPPLYING TO CATALYST  
**(51)** Int. Cl.  
**C10G 2/00** ( 2006.01 )  
**B01J 29/072** ( 2006.01 )  
**C10K 1/00** ( 2006.01 )  
**(87)** WO2024/185654  
**(31)** 2023-035210 ( **32** ) 08.03.23 ( **33** ) JP  
**(43)** 12.09.2024  
**(72)** DOI, Makoto; TSUBAKI, Noritatsu; GUO, Xiaoyu  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** JFE STEEL CORPORATION  
**(11)** AU-A-2024271667  
**(21)** 2024271667 ( **22** ) 18.01.2024  
**(54)** IRON-BASED MIXED POWDER AND OXYGEN REACTANT  
**(51)** Int. Cl.  
**B01J 20/02** ( 2006.01 )  
**B01D 53/14** ( 2006.01 )  
**B01J 20/28** ( 2006.01 )  
**C09K 5/18** ( 2006.01 )  
**(87)** WO2024/236860  
**(31)** 2023-081836 ( **32** ) 17.05.23 ( **33** ) JP  
**(43)** 21.11.2024  
**(72)** YAMAMOTO Naoki; ASHIZUKA Kohsuke; UNAMI Shigeru  
**(74)** Davies Collison Cave Pty Ltd

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**(71)** JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.; SHANGHAI HANSOH BIOMEDICAL CO., LTD.  
**(11)** AU-A-2024213693  
**(21)** 2024213693 ( **22** ) 02.02.2024  
**(54)** SALT AND CRYSTAL FORM OF CYCLOALKENE COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF  
**(51)** Int. Cl.  
**C07D 405/14** ( 2006.01 )  
**A61K 31/4184** ( 2006.01 )  
**A61K 31/4188** ( 2006.01 )  
**A61K 31/435** ( 2006.01 )  
**A61P 3/04** ( 2006.01 )  
**A61P 3/10** ( 2006.01 )  
**C07D 407/14** ( 2006.01 )  
**(87)** WO2024/160271  
**(31)** 202310093824.7 ( **32** ) 02.02.23 ( **33** ) CN  
**(43)** 08.08.2024  
**(72)** YANG, Shiyi; XU, Wei; GUO, Linsong  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.  
**(11)** AU-A-2024230386  
**(21)** 2024230386 ( **22** ) 27.02.2024  
**(54)** TRIAZOLO RING COMPOUND METHANESULFONATE CRYSTAL FORM, PREPARATION METHOD THEREFOR AND USE THEREOF  
**(51)** Int. Cl.  
**C07D 519/00** ( 2006.01 )  
**A61K 31/5383** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**A61P 35/02** ( 2006.01 )  
**A61P 35/04** ( 2006.01 )  
**(87)** WO2024/179438  
**(31)** 202310179589.5 ( **32** ) 27.02.23 ( **33** ) CN

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 (72) LIU, Mengyu; LIAN, Xiaogang; HE, Lei  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) JOHANN WOLFGANG GOETHE-UNIVERSITÄT FRANKFURT AM MAIN  
 (11) AU-A-2024233659  
 (21) 2024233659 (22) 08.03.2024  
 (54) SLACK-ACTIVATING COMPOUNDS AND THEIR MEDICAL USE  
 (51) Int. Cl.  
 A61P 17/04 ( 2006.01 )  
 A61K 31/553 ( 2006.01 )  
 A61K 31/554 ( 2006.01 )  
 A61P 29/02 ( 2006.01 )  
 C07D 413/04 ( 2006.01 )  
 C07D 413/14 ( 2006.01 )  
 C07D 417/04 ( 2006.01 )  
 (87) WO2024/184543  
 (31) 23160797.9 (32) 08.03.23 (33) EP  
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 (43) 12.09.2024  
 (72) SCHMIDTKO, Achim; PROSCHAK, Eugen; BALZULAT, Annika; ZHU, Wenxin; FLAUUAUS, Cathrin; STEINHILBER, Dieter; LU, Ruirui; HERNANDEZ OLMOS, Victor; HEERING, Jan  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) JOINT STOCK COMPANY "BIOCAD"  
 (11) AU-A-2024232879  
 (21) 2024232879 (22) 27.02.2024  
 (54) ANTIBODY-LIKE MOLECULE COMPRISING HETERODIMER OF HUMAN CD1B (CLUSTER OF DIFFERENTIATION 1) PROTEIN  
 (51) Int. Cl.  
 C07K 16/46 ( 2006.01 )  
 C07K 1/00 ( 2006.01 )  
 C07K 19/00 ( 2006.01 )  
 C12N 15/13 ( 2006.01 )  
 C12N 15/62 ( 2006.01 )  
 C12N 15/79 ( 2006.01 )  
 (87) WO2024/186232  
 (31) 2023105130 (32) 06.03.23 (33) RU  
 (43) 12.09.2024  
 (72) POLIAKOV, Dmitrii Nikolaevich; LEG-OTSKII, Sergei Aleksandrovich; DANILOV, Maksim Andreevich; BARANOVSKAIA, Marianna Dmitrievna; IVANOVA, Ksenia Vitalievna; NAZARENKO, Olga Viktorovna; IAKOVLEV, Pavel Andreevich; MOROZOV, Dmitry Valentinovich  
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- (71) JOINT-STOCK COMPANY "GENERIUM"  
 (11) AU-A-2024224961  
 (21) 2024224961 (22) 20.02.2024  
 (54) PHARMACEUTICAL COMPOSITION AND METHOD FOR THE PROPHYLAXIS AND TREATMENT OF A LYSSOMAL ENZYME DEFICIENCY IN A SUBJECT WITH MUCOPOLYSACCHARIDOSIS TYPE II  
 (51) Int. Cl.  
 C07K 16/26 ( 2006.01 )  
 A61K 38/46 ( 2006.01 )
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- A61K 39/395 ( 2006.01 )  
 A61P 3/00 ( 2006.01 )  
 A61P 25/28 ( 2006.01 )  
 C12N 9/16 ( 2006.01 )  
 (87) WO2024/177535  
 (31) 2023104014 (32) 21.02.23 (33) RU  
 (43) 29.08.2024  
 (72) SHUKUROV, Rakhim Rakhmankulyyevich; RESHETNIK, Elizaveta Vyacheslavovna; KHAMITOV, Ravil Avgatovich; SHUSTER, Aleksandr Mikhailovich  
 (74) IP Guardian Pty Ltd
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- (71) KABUSHIKI KAISHA DARTSLIVE D/B/A DARTSLIVE CO., LTD.; SEGA CORPORATION  
 (11) AU-A-2024226012  
 (21) 2024226012 (22) 21.02.2024  
 (54) GAME SYSTEM, GAME DEVICE, AND PROGRAM  
 (51) Int. Cl.  
 A63F 9/02 ( 2006.01 )  
 A63F 9/00 ( 2006.01 )  
 A63F 9/24 ( 2006.01 )  
 (87) WO2024/177103  
 (31) 2023-024963 (32) 21.02.23 (33) JP  
 (43) 29.08.2024  
 (72) TAKAHISA, Koichi  
 (74) Davies Collison Cave Pty Ltd
- 
- (71) KENVUE BRANDS LLC  
 (11) AU-A-2024249349  
 (21) 2024249349 (22) 27.03.2024  
 (54) THERAPEUTIC LIQUID COMPOSITIONS  
 (51) Int. Cl.  
 A61K 9/00 ( 2006.01 )  
 A61K 31/00 ( 2006.01 )  
 A61K 47/10 ( 2017.01 )  
 A61K 47/12 ( 2006.01 )  
 A61K 47/26 ( 2006.01 )  
 A61K 47/46 ( 2006.01 )  
 (87) WO2024/206425  
 (31) 63/493,395 (32) 31.03.23 (33) US  
 18/615,156 25.03.24 US  
 (43) 03.10.2024  
 (72) KOLL, Gregory E.; ZESZOTARSKI, Jonathan; HOXHA, Gersi  
 (74) Spruson & Ferguson
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- (71) KERRY GROUP SERVICES INTERNATIONAL LTD.  
 (11) AU-A-2024227927  
 (21) 2024227927 (22) 27.02.2024  
 (54) SPRAY DRIED MILK OR MILK-BASED POWDER COMPOSITION AND METHODS THEREOF  
 (51) Int. Cl.  
 A23C 1/04 ( 2006.01 )  
 A23C 9/12 ( 2006.01 )  
 A23C 9/16 ( 2006.01 )  
 A23C 9/18 ( 2006.01 )  
 C12N 9/38 ( 2006.01 )  
 C12N 9/42 ( 2006.01 )  
 (87) WO2024/180040  
 (31) 23159104.1 (32) 28.02.23 (33) EP  
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- (43) 06.09.2024  
 (72) VOJINOVIC, Vojislav  
 (74) Spruson & Ferguson
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- (71) KITE PHARMA, INC.  
 (11) AU-A-2024233069  
 (21) 2024233069 (22) 06.03.2024  
 (54) ANTIGEN BINDING MOLECULES AND METHODS OF USE  
 (51) Int. Cl.  
 C07K 16/10 ( 2006.01 )  
 C07K 16/28 ( 2006.01 )  
 C07K 16/42 ( 2006.01 )  
 (87) WO2024/186927  
 (31) 63/489,373 (32) 09.03.23 (33) US  
 63/620,111 11.01.24 US  
 (43) 12.09.2024  
 (72) COON, Michael E.; CORTESIO, Christa; SIEVERS, Stuart A.  
 (74) FPA Patent Attorneys Pty Ltd
- 
- (71) KOKKINOS, V.; KAKAROUNTAS, A.  
 (11) AU-A-2023432245  
 (21) 2023432245 (22) 07.09.2023  
 (54) INTRACRANIAL NEURONAL ELECTRICAL STIMULATION SYSTEM BASED ON INTERICTAL EPILEPTIC ACTIVITY FOR THE TREATMENT OF EPILEPTIC SEIZURES  
 (51) Int. Cl.  
 A61N 1/36 ( 2006.01 )  
 A61B 5/00 ( 2006.01 )  
 A61B 5/37 ( 2021.01 )  
 A61N 1/05 ( 2006.01 )  
 A61N 1/378 ( 2006.01 )  
 (87) WO2024/175218  
 (31) GR20230100146 (32) 20.02.23 (33) GR  
 (43) 29.08.2024  
 (72) KOKKINOS, Vasileios; KAKAROUNTAS, Athanasios  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) KOKKINOS, V.  
 (11) AU-A-2023433410  
 (21) 2023433410 (22) 08.09.2023  
 (54) DEPTH STEREO-ELECTROENCEPHALOGRAPHY ELECTRODE FOR INTRACRANIAL NEURONAL ELECTRICAL STIMULATION OF THE BRAIN  
 (51) Int. Cl.  
 A61N 1/05 ( 2006.01 )  
 A61B 5/00 ( 2006.01 )  
 A61B 5/01 ( 2006.01 )  
 A61B 5/03 ( 2006.01 )  
 A61N 1/36 ( 2006.01 )  
 (87) WO2024/175219  
 (31) 20230100157 (32) 23.02.23 (33) GR  
 (43) 29.08.2024  
 (72) KOKKINOS, Vasileios  
 (74) FPA Patent Attorneys Pty Ltd
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- (71) KOMATSU LTD.  
 (11) AU-A-2024277171  
 (21) 2024277171 (22) 17.04.2024  
 (54) SYSTEM AND METHOD FOR CONTROLLING WORK MACHINE  
 (51) Int. Cl.

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- E02F 9/22** ( 2006.01 )  
**E02F 9/20** ( 2006.01 )  
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**(31)** 2023-085466 **(32)** 24.05.23 **(33)** JP  
**(43)** 28.11.2024  
**(72)** NAKANO Kei; TSUMURA Souichi; MORI Shouta; KOYAMA Haruka; NAKAYAMA Yutaka  
**(74)** FB Rice Pty Ltd
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- (71)** KRAFT FOODS SCHWEIZ HOLDING GMBH  
**(11)** AU-A-2024217468  
**(21)** 2024217468 **(22)** 30.01.2024  
**(54)** METHOD OF MANUFACTURING A CHOCOLATE PRODUCT  
**(51)** Int. Cl.  
**A23G 1/00** ( 2006.01 )  
**A23G 1/10** ( 2006.01 )  
**(87)** WO2024/165369  
**(31)** 2301848.4 **(32)** 09.02.23 **(33)** GB  
**(43)** 15.08.2024  
**(72)** CLARK, Catherine; BROWN, David; TIMMINS, Gareth  
**(74)** Griffith Hack
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- (71)** KUHN SAS  
**(11)** AU-A-2024237745  
**(21)** 2024237745 **(22)** 14.03.2024  
**(54)** METHOD FOR DETERMINING SEMI-AUTOMATICALLY PATHS TO BE FOLLOVED BY AT LEAST ONE AGRICULTURAL ROBOT TO WORK A PLOT  
**(51)** Int. Cl.  
**A01B 69/04** ( 2006.01 )  
**(87)** WO2024/189136  
**(31)** FR2302426 **(32)** 16.03.23 **(33)** FR  
**(43)** 19.09.2024  
**(72)** HOELLINGER, Marie; LABOUREY, Quentin  
**(74)** Spruson & Ferguson
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- (71)** KYINNO BIOTECHNOLOGY CO., LTD.  
**(11)** AU-A-2024221409  
**(21)** 2024221409 **(22)** 08.02.2024  
**(54)** POLYPEPTIDE AND ANTIBODY CONTAINING SAME ACTING AS LIGHT-CHAIN  
**(51)** Int. Cl.  
**C07K 16/00** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
**C07K 16/46** ( 2006.01 )  
**(87)** WO2024/169925  
**(31)** 202310116909.2 **(32)** 15.02.23 **(33)** CN  
**(43)** 22.08.2024  
**(72)** NING, Jinying; PENG, Hao; HAO, Feng; WU, Guojin  
**(74)** Collison & Co
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- (71)** KYMAB LIMITED  
**(11)** AU-A-2024213706  
**(21)** 2024213706 **(22)** 29.01.2024  
**(54)** ANTIBODIES  
**(51)** Int. Cl.  
**A61K 39/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )
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- C07K 16/28** ( 2006.01 )  
**A61K 39/00** ( 2006.01 )  
**(87)** WO2024/160721  
**(31)** 23154055.0 **(32)** 30.01.23 **(33)** EP  
**(43)** 08.08.2024  
**(72)** BILLAUD, Margot; ROWLANDS, Robert; MCCOURT, John Matthew; WAKE, Matthew Stephen; LE-COINTRE, Morgane Marie; BARNES, Matthew, Joseph; HUTCHINGS, Catherine, Jane; BENNETT, Kirstie; STOTT, Lisa  
**(74)** Griffith Hack
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- (71)** LANOVA MEDICINES LIMITED  
**(11)** AU-A-2024229974  
**(21)** 2024229974 **(22)** 28.02.2024  
**(54)** CEACAM5-DEPENDENT 4-1BB-AGONISTIC BISPECIFIC ANTIBODIES  
**(51)** Int. Cl.  
**C07K 16/46** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
**C12N 15/13** ( 2006.01 )  
**C12N 15/63** ( 2006.01 )  
**(87)** WO2024/179515  
**(31)** PCT/ CN2023/078788 **(32)** 28.02.23 **(33)** CN  
**(43)** 06.09.2024  
**(72)** LI, Runsheng; CAO, Wei; ZANG, Ying Qin; HUANG, Wentao  
**(74)** FPA Patent Attorneys Pty Ltd
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- (71)** LANXESS CORPORATION  
**(11)** AU-A-2024211855  
**(21)** 2024211855 **(22)** 26.01.2024  
**(54)** FLAME RETARDANT AND ORANGE COLORANT COMBINED FOR USE WITH THERMOPLASTICS  
**(51)** Int. Cl.  
**C08K 5/5317** ( 2006.01 )  
**C07F 9/38** ( 2006.01 )  
**C08K 5/3447** ( 2006.01 )  
**C08K 7/14** ( 2006.01 )  
**C08K 13/02** ( 2006.01 )  
**(87)** WO2024/159089  
**(31)** 63/441,482 **(32)** 27.01.23 **(33)** US  
**(43)** 02.08.2024  
**(72)** HE, Qingliang; JACOBS, Patrick; SIMPSON, Christopher  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** LENOVO (BEIJING) LIMITED  
**(11)** AU-A-2023370778  
**(21)** 2023370778 **(22)** 11.08.2023  
**(54)** DATA HANDLING BASED ON PDU SET CONFIGURATION  
**(51)** Int. Cl.  
**H04W 28/06** ( 2009.01 )  
**(87)** WO2024/093430  
**(43)** 10.05.2024  
**(72)** XU, Xiaoying; DAI, Mingzeng; WU, Lianhai; LUO, Haiyan  
**(74)** FPA Patent Attorneys Pty Ltd
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- (71)** LEONARDO UK LTD  
**(11)** AU-A-2024236117  
**(21)** 2024236117 **(22)** 08.03.2024  
**(54)** AN OPTICAL AMPLIFIER SYSTEM  
**(51)** Int. Cl.  
**H04B 10/291** ( 2013.01 )  
**H01S 3/094** ( 2006.01 )  
**H04B 10/2537** ( 2013.01 )  
**(87)** WO2024/188900  
**(31)** 2303539.7 **(32)** 10.03.23 **(33)** GB  
**(43)** 19.09.2024  
**(72)** BARR, John; MACISAAC, Ross  
**(74)** Griffith Hack
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- (71)** LG ENERGY SOLUTION, LTD.  
**(11)** AU-A-2024235748  
**(21)** 2024235748 **(22)** 11.03.2024  
**(54)** BATTERY PACK WITH IMPROVED SAFETY  
**(51)** Int. Cl.  
**H01M 50/24** ( 2021.01 )  
**A62C 3/16** ( 2006.01 )  
**A62C 35/10** ( 2006.01 )  
**A62D 1/00** ( 2006.01 )  
**B29C 45/00** ( 2006.01 )  
**H01M 50/204** ( 2021.01 )  
**H01M 50/251** ( 2021.01 )  
**H01M 50/502** ( 2021.01 )  
**H01M 50/509** ( 2021.01 )  
**(87)** WO2024/191153  
**(31)** 10-2023-0033765 **(32)** 15.03.23 **(33)** KR  
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**(43)** 19.09.2024  
**(72)** YUN, Youngwon; KIM, Kiyoun; AHN, Jong Kyu; KIM, Yongmin; KIM, Youngbum; CHOI, Dongmin  
**(74)** FB Rice Pty Ltd
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- (71)** LIEBHERR-WERK NENZING GMBH  
**(11)** AU-A-2024266419  
**(21)** 2024266419 **(22)** 14.03.2024  
**(54)** METHOD FOR IDENTIFYING LOAD DATA  
**(51)** Int. Cl.  
**G01G 19/00** ( 2006.01 )  
**G05B 13/02** ( 2006.01 )  
**(87)** WO2024/227534  
**(31)** 10 2023 111 654.1 **(32)** 04.05.23 **(33)** DE  
**(43)** 07.11.2024  
**(72)** SCHALL, Paul; WEBER, Fabian  
**(74)** Spruson & Ferguson
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- (71)** LIGHTMANUFACTURING, INC.  
**(11)** AU-A-2024225419  
**(21)** 2024225419 **(22)** 23.02.2024  
**(54)** SOLAR THERMAL PROCESSING OF AGRICULTURAL PRODUCTS  
**(51)** Int. Cl.  
**F26B 11/04** ( 2006.01 )  
**F26B 3/24** ( 2006.01 )  
**F26B 3/28** ( 2006.01 )  
**(87)** WO2024/178295  
**(31)** 18/114,147 **(32)** 24.02.23 **(33)** US  
**(43)** 29.08.2024  
**(72)** VON KRIES, Karl  
**(74)** FPA Patent Attorneys Pty Ltd

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- (71) LIVA POWER MANAGEMENT SYSTEMS GMBH  
 (11) AU-A-2024258781  
 (21) 2024258781 (22) 16.04.2024  
 (54) METHOD FOR MONITORING THE STATE OF A REDOX FLOW BATTERY SYSTEM  
 (51) Int. Cl.  
*H01M 8/18* (2006.01)  
*G01R 31/382* (2019.01)  
*G01R 31/392* (2019.01)  
*H01M 8/04537* (2016.01)  
*H01M 8/04746* (2016.01)  
*H01M 8/04791* (2016.01)  
 (87) WO2024/218076  
 (31) 10 2023 109 591.9 (32) 17.04.23 (33) DE  
 (43) 24.10.2024  
 (72) LÜTH, Thomas; LI, Yifeng  
 (74) LAMINAR IP PTY LTD
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- (71) LONGI GREEN ENERGY TECHNOLOGY CO., LTD.  
 (11) AU-A-2025204141  
 (21) 2025204141 (22) 10.02.2025  
 (54) BACK CONTACT SOLAR CELL AND METHOD FOR MANUFACTURING SAME  
 (51) Int. Cl.  
*H10F 77/20* (2025.01)  
*H10F 10/14* (2025.01)  
*H10F 71/00* (2025.01)  
 (31) 202410216919.8 (32) 27.02.24 (33) CN  
 (43) 11.09.2025  
 (72) CHEN, Chen; CHEN, Yao; TONG, Hongbo  
 (74) WRAYS PTY LTD
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- (71) LOUVER-LITE LIMITED  
 (11) AU-A-2023435256  
 (21) 2023435256 (22) 09.03.2023  
 (54) END CAP FOR VANE OF A ROLLER SHUTTER  
 (51) Int. Cl.  
*E04F 10/08* (2006.01)  
*E06B 9/386* (2006.01)  
 (87) WO2024/184612  
 (43) 12.09.2024  
 (72) GREENING, Andrew  
 (74) Pipers Intellectual Property
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- (71) MANUFACTURE D'HORLOGERIE AUDEMARS PIGUET SA  
 (11) AU-A-2024211631  
 (21) 2024211631 (22) 12.01.2024  
 (54) SECULAR MODULE FOR A PERPETUAL CALENDAR MECHANISM OF A CLOCK MOVEMENT  
 (51) Int. Cl.  
*G04B 19/253* (2006.01)  
 (87) WO2024/157108  
 (31) 23153711.9 (32) 27.01.23 (33) EP  
 (43) 02.08.2024  
 (72) MARTEL, Julien; PAPI, Giulio  
 (74) PHILLIPS ORMONDE FITZPATRICK
- 
- (71) MARINOMED BIOTECH AG  
 (11) AU-A-2024236993  
 (21) 2024236993 (22) 12.03.2024  
 (54) SPRAYING DEVICE COMPRISING AQUEOUS BUDESONIDE COMPOSITION  
 (51) Int. Cl.  
*A61K 9/00* (2006.01)  
*A61K 9/08* (2006.01)  
*A61K 31/00* (2006.01)  
*A61K 31/58* (2006.01)  
*A61K 35/06* (2006.01)  
*A61K 47/10* (2017.01)  
*A61K 47/12* (2006.01)  
*A61K 47/18* (2017.01)  
*A61M 11/00* (2006.01)  
*A61P 1/00* (2006.01)  
*A61P 11/00* (2006.01)  
*A61P 17/00* (2006.01)  
*A61P 43/00* (2006.01)  
 (87) WO2024/189046  
 (31) 23161630.1 (32) 13.03.23 (33) EP  
 (43) 19.09.2024  
 (72) PRIESCHL-GRASSAUER, Eva; ROCHNAKOWITSCH, Sabine; GÖSSL, Andreas; SLADEK, Svenja  
 (74) FB Rice Pty Ltd
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- (71) MASCHINENFABRIK KÖPPERNGMBH & CO. KG  
 (11) AU-A-2023437757  
 (21) 2023437757 (22) 19.12.2023  
 (54) SYSTEM AND METHOD FOR PRODUCING FERTILISER GRANULES  
 (51) Int. Cl.  
*B01J 2/20* (2006.01)  
*B01J 2/22* (2006.01)  
*C05G 5/12* (2020.01)  
 (87) WO2024/193846  
 (31) 10 2023 106 787.7 (32) 17.03.23 (33) DE  
 (43) 26.09.2024  
 (72) HEINICKE, Felix; HORBERT, Fabian; WACKERBARTH, Eckard; DE WELDIGE, Eggert  
 (74) Spruson & Ferguson
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- (71) MASKINFABRIK DAHL ENGINEERING APS  
 (11) AU-A-2024227945  
 (21) 2024227945 (22) 19.01.2024  
 (54) DOCKING DEVICE FOR WHEELCHAIRS  
 (51) Int. Cl.  
*A61G 3/08* (2006.01)  
 (87) WO2024/179745  
 (31) PA202300184 (32) 28.02.23 (33) DK  
 (43) 06.09.2024  
 (72) PEDERSEN, Claus Dahl  
 (74) Catalyst Intellectual Property
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- (71) MASKINFABRIK DAHL ENGINEERING APS  
 (11) AU-A-2024229497  
 (21) 2024229497 (22) 19.01.2024  
 (54) DOCKING DEVICE FOR WHEELCHAIRS  
 (51) Int. Cl.  
*A61G 3/08* (2006.01)  
*A61G 5/04* (2013.01)  
*B60P 3/073* (2006.01)  
 (87) WO2024/179746
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- (31) PA202300182 (32) 28.02.23 (33) DK  
 (43) 06.09.2024  
 (72) PEDERSEN, Claus Dahl  
 (74) Catalyst Intellectual Property
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- (71) MASTERCRAFT BOAT COMPANY, LLC  
 (11) AU-A-2024254881  
 (21) 2024254881 (22) 20.03.2024  
 (54) BOATS WITH MULTIPLE MARINE DRIVES USED TO GENERATE A DESIRED WAKE AND ASSOCIATED METHODS  
 (51) Int. Cl.  
*B63B 34/70* (2020.01)  
*B63H 5/08* (2006.01)  
*B63H 5/125* (2006.01)  
*B63H 20/08* (2006.01)  
 (87) WO2024/206013  
 (31) 63/492.301 (32) 27.03.23 (33) US  
 (43) 03.10.2024  
 (72) UGGERI, Michael J.; HERRINGTON, Fredrick C.  
 (74) Griffith Hack
- 
- (71) MATEER, C.  
 (11) AU-A-2024213263  
 (21) 2024213263 (22) 26.01.2024  
 (54) RETURN LEG REMOTE PASSENGER CHECK-IN  
 (51) Int. Cl.  
*G07B 11/00* (2006.01)  
*B42D 15/00* (2006.01)  
*G09F 3/20* (2006.01)  
 (87) WO2024/163298  
 (31) 18/104,359 (32) 01.02.23 (33) US  
 18/311,566 03.05.23 US  
 18/201,908 25.05.23 US  
 18/332,377 09.06.23 US  
 18/406,785 08.01.24 US  
 (43) 08.08.2024  
 (72) MATEER, Craig  
 (74) Spruson & Ferguson
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- (71) MATEER, C.  
 (11) AU-A-2024213340  
 (21) 2024213340 (22) 31.01.2024  
 (54) GLOBAL BAG TAG SYSTEM AND METHOD OF USE  
 (51) Int. Cl.  
*G07B 11/00* (2006.01)  
*B42D 15/00* (2006.01)  
*G09F 3/20* (2006.01)  
 (87) WO2024/163627  
 (31) 18/104,359 (32) 01.02.23 (33) US  
 18/311,566 03.05.23 US  
 18/197,840 16.05.23 US  
 18/201,908 25.05.23 US  
 18/332,377 09.06.23 US  
 18/337,288 19.06.23 US  
 63/543,667 11.10.23 US  
 63/598,824 14.11.23 US  
 18/514,015 20.11.23 US  
 18/514,195 20.11.23 US  
 18/514,295 20.11.23 US  
 18/514,369 20.11.23 US  
 18/514,826 20.11.23 US  
 18/514,877 20.11.23 US  
 18/514,914 20.11.23 US

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18/514,924	20.11.23	US	18/514,914	20.11.23	US	18/515,060	20.11.23	US
18/514,937	20.11.23	US	18/514,924	20.11.23	US	PCT/	19.01.24	US
18/515,004	20.11.23	US	18/514,937	20.11.23	US	US2024/012226		
18/515,060	20.11.23	US	18/515,004	20.11.23	US	PCT/	19.01.24	US
18/529,705	05.12.23	US	18/515,060	20.11.23	US	US2024/012231		
18/406,785	08.01.24	US	(43) 08.08.2024			(43) 08.08.2024		
PCT/	19.01.24	US	(72) MATEER, Craig			(72) MATEER, Craig		
US2024/012226			(74) Spruson & Ferguson			(74) Spruson & Ferguson		
PCT/	19.01.24	US						
US2024/012231								
18/418,972	22.01.24	US	(71) MATEER, C.			(71) MATEER, C.		
18/421,581	24.01.24	US	(11) AU-A-2024213379			(11) AU-A-2024213640		
18/421,595	24.01.24	US	(21) 2024213379	(22) 19.01.2024		(21) 2024213640	(22) 27.01.2024	
18/421,601	24.01.24	US	(54) SYSTEM AND METHOD FOR SECURITY SCREENING INTEGRATION FOR MULTIPLE MODES OF TRAVEL			(54) SYSTEM AND METHOD FOR EXPANDED BAGGAGE INFORMATION MESSAGES		
PCT/	26.01.24	US						
US2024/013083			(51) Int. Cl.			(51) Int. Cl.		
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US2024/013221			B42D 15/00 ( 2006.01 )			B42D 15/00 ( 2006.01 )		
PCT/	26.01.24	US	G09F 3/20 ( 2006.01 )			G09F 3/20 ( 2006.01 )		
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US2024/013257			18/311,566	03.05.23	US	18/311,566	03.05.23	US
PCT/	27.01.24	US	18/197,840	16.05.23	US	18/201,908	25.05.23	US
US2024/013258			18/201,908	25.05.23	US	18/332,377	09.06.23	US
PCT/	27.01.24	US	18/332,377	09.06.23	US	18/337,288	19.06.23	US
US2024/013259			18/337,288	19.06.23	US	18/529,705	05.12.23	US
PCT/	27.01.24	US	63/543,667	11.10.23	US	18/421,595	24.01.24	US
US2024/013261			18/514,015	20.11.23	US	18/421,601	24.01.24	US
PCT/	27.01.24	US	18/514,195	20.11.23	US	(43) 08.08.2024		
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PCT/	27.01.24	US	18/514,369	20.11.23	US	(74) Spruson & Ferguson		
US2024/013263			18/514,826	20.11.23	US			
18/427,323	30.01.24	US	18/514,877	20.11.23	US			
18/427,396	30.01.24	US	18/514,914	20.11.23	US	(71) MATEER, C.		
18/427,438	30.01.24	US	18/514,924	20.11.23	US	(11) AU-A-2024213808		
18/427,469	30.01.24	US	18/514,937	20.11.23	US	(21) 2024213808	(22) 01.02.2024	
18/427,516	30.01.24	US	18/515,004	20.11.23	US	(54) USE OF UNIVERSAL BAGGAGE SOURCE MESSAGES IN OFF-AIR-PORT LOCATIONS		
PCT/	30.01.24	US	18/515,060	20.11.23	US	(51) Int. Cl.		
US2024/013594			(43) 08.08.2024			G07B 11/00 ( 2006.01 )		
PCT/	30.01.24	US	(72) MATEER, Craig			B42D 15/00 ( 2006.01 )		
US2024/013597			(74) Spruson & Ferguson			G09F 3/20 ( 2006.01 )		
PCT/	30.01.24	US				(87) WO2024/163693		
US2024/013599						(31) 18/421,581	(32) 24.01.24	(33) US
(43) 08.08.2024			(71) MATEER, C.			18/421,595	24.01.24	US
(72) MATEER, Craig			(11) AU-A-2024213466			18/421,601	24.01.24	US
(74) Spruson & Ferguson			(21) 2024213466	(22) 26.01.2024		18/104,359	01.02.23	US
			(54) SYSTEM AND METHOD FOR CREATING A LUGGAGE MANIFEST AND REMOTELY CHECKING IN			18/311,566	03.05.23	US
			(51) Int. Cl.			18/201,908	25.05.23	US
			G07B 11/00 ( 2006.01 )			18/332,377	09.06.23	US
			B42D 15/00 ( 2006.01 )			18/337,288	19.06.23	US
			G09F 3/20 ( 2006.01 )			18/529,705	05.12.23	US
			(87) WO2024/163281			(43) 08.08.2024		
			(31) 18/104,359	(32) 01.02.23	(33) US	(72) MATEER, Craig		
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			18/197,840	16.05.23	US			
			18/201,908	25.05.23	US			
			18/332,377	09.06.23	US	(71) MATEER, C.		
			63/543,667	11.10.23	US	(11) AU-A-2024213907		
			18/514,015	20.11.23	US	(21) 2024213907	(22) 27.01.2024	
			18/514,195	20.11.23	US	(54) AUTOMATED BAGGAGE TRANSPORT AND CHECK-IN USING SIMULATED BAGGAGE SOURCE MESSAGE		
			18/514,295	20.11.23	US	(51) Int. Cl.		
			18/514,369	20.11.23	US	G07B 11/00 ( 2006.01 )		
			18/514,826	20.11.23	US	B42D 15/00 ( 2006.01 )		
			18/514,877	20.11.23	US	G09F 3/20 ( 2006.01 )		
			18/514,914	20.11.23	US	(87) WO2024/163305		
			18/514,924	20.11.23	US	(31) 18/104,359	(32) 01.02.23	(33) US
			18/514,937	20.11.23	US			
			18/515,004	20.11.23	US			





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(72) MATEER, Craig				18/337,288	19.06.23	US	18/332,377	09.06.23	US	
(74) Spruson & Ferguson				63/543,667	11.10.23	US	18/337,288	19.06.23	US	
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(71) MATEER, C.				63/598,824	14.11.23	US	63/543,667	11.10.23	US	
(11) AU-A-2024215194				18/514,015	20.11.23	US	63/598,824	14.11.23	US	
(21) 2024215194	(22) 30.01.2024			18/514,195	20.11.23	US	18/514,015	20.11.23	US	
(54) SECURITY, TRACKING DEVICE, AND MORE				18/514,295	20.11.23	US	18/514,195	20.11.23	US	
(51) Int. Cl.				18/514,369	20.11.23	US	18/514,295	20.11.23	US	
				18/514,826	20.11.23	US	18/514,369	20.11.23	US	
				18/514,877	20.11.23	US	18/514,826	20.11.23	US	
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				PCT/	19.01.24	US	18/406,785	08.01.24	US	
				US2024/012226			PCT/	19.01.24	US	
				US2024/012231	19.01.24	US	US2024/012226			
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				18/421,581	24.01.24	US	US2024/012231			
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				US2024/013226			US2024/013221			
				PCT/	27.01.24	US	PCT/	26.01.24	US	
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(43) 08.08.2024				PCT/	27.01.24	US	PCT/	27.01.24	US	
(72) MATEER, Craig				US2024/013258			US2024/013257			
(74) Spruson & Ferguson				PCT/	27.01.24	US	PCT/	27.01.24	US	
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				PCT/	27.01.24	US	US2024/013259			
				US2024/013261			PCT/	27.01.24	US	
(71) MATEER, C.				PCT/	27.01.24	US	US2024/013261			
(11) AU-A-2024215294				US2024/013262			PCT/	27.01.24	US	
(21) 2024215294	(22) 27.01.2024			PCT/	27.01.24	US	US2024/013262			
(54) MULTI-LEG TRAVEL BAGGAGE TRACKING				US2024/013263			PCT/	27.01.24	US	
(51) Int. Cl.				18/427,323	30.01.24	US	US2024/013263			
				18/427,396	30.01.24	US	18/427,323	30.01.24	US	
				18/427,438	30.01.24	US	18/427,396	30.01.24	US	
				18/427,469	30.01.24	US	18/427,438	30.01.24	US	
				18/427,516	30.01.24	US	18/427,469	30.01.24	US	
(87) WO2024/163303				PCT/	30.01.24	US	18/427,516	30.01.24	US	
(31) 18/104,359	(32) 01.02.23	(33) US		US2024/013594			18/427,516	30.01.24	US	
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				US2024/013597			US2024/013594			
				PCT/	30.01.24	US	PCT/	30.01.24	US	
(43) 08.08.2024				US2024/013599			US2024/013597			
(72) MATEER, Craig				PCT/	30.01.24	US	PCT/	30.01.24	US	
(74) Spruson & Ferguson				US2024/013599			US2024/013599			
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				(72) MATEER, Craig			(43) 08.08.2024			
				(74) Spruson & Ferguson			(72) MATEER, Craig			
				<hr/>						(74) Spruson & Ferguson
(71) MATEER, C.				(71) MATEER, C.			(71) MATEER, C.			
(11) AU-A-2024215314				(11) AU-A-2024215384			(11) AU-A-2024215943			
(21) 2024215314	(22) 31.01.2024			(21) 2024215384	(22) 31.01.2024		(21) 2024215943	(22) 26.01.2024		
(54) GLOBAL BAG TAG SYSTEM AND METHOD OF USE				(54) GLOBAL BAG TAG SYSTEM AND METHOD OF USE			(54) SYSTEM AND METHOD FOR CREATING LUGGAGE MANIFESTS			
(51) Int. Cl.				(51) Int. Cl.			(51) Int. Cl.			
							G07B 11/00 ( 2006.01 )			
							B42D 15/00 ( 2006.01 )			
							G09F 3/20 ( 2006.01 )			
(87) WO2024/163632				(87) WO2024/163637						
(31) 18/104,359	(32) 01.02.23	(33) US		(31) 18/104,359	(32) 01.02.23	(33) US	(87) WO2024/163279			
							(31) 18/104,359	(32) 01.02.23	(33) US	
							18/311,566	03.05.23	US	
							18/197,840	16.05.23	US	
							18/201,908	25.05.23	US	

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18/201,908	25.05.23	US	(72) COSTER, Leonard	(72) KWON, Sunghoon; LEE, Chungwon; LEE, Su Min; KIM, Kyong Jun; JANG, Hae Wook
18/332,377	09.06.23	US	(74) JMSP IP Pty Ltd	(74) A.P.T. Patent and Trade Mark Attor- neys
18/337,288	19.06.23	US		
63/543,667	11.10.23	US		
18/514,015	20.11.23	US	(71) MERCK SHARP & DOHME LLC	(71) MICROUNI CO., LTD.
18/514,195	20.11.23	US	(11) AU-A-2024232705	(11) AU-A-2024229843
18/514,295	20.11.23	US	(21) 2024232705 (22) 29.02.2024	(21) 2024229843 (22) 26.02.2024
18/514,369	20.11.23	US	(54) ALPHA-SYNUCLEIN BINDERS AND METHODS OF USE	(54) SELF-AMPLIFYING RNA CON- STRUCT AND USE THEREOF
18/514,826	20.11.23	US	(51) Int. Cl.	(51) Int. Cl.
18/514,877	20.11.23	US	A61K 51/04 ( 2006.01 )	C12N 15/11 ( 2006.01 )
18/514,914	20.11.23	US	A61K 51/02 ( 2006.01 )	A61K 39/12 ( 2006.01 )
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18/514,937	20.11.23	US	(87) WO2024/186584	C07K 14/005 ( 2006.01 )
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(72) MATEER, Craig				(72) SONG, Min-Suk; BAEK, Yun Hee; CHOI, Won-Suk; OH, Sol
(74) Spruson & Ferguson				(74) PHILLIPS ORMONDE FITZPATRICK
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(54) APPARATUS AND METHODS FOR PROCESSING SEEDS			(54) CUSTOMIZABLE TANNING APPARAT- US	(54) CO2 RECOVERY DEVICE AND CON- TROL METHOD
(51) Int. Cl.			(51) Int. Cl.	(51) Int. Cl.
A23N 5/00 ( 2006.01 )			A61N 5/06 ( 2006.01 )	B01D 53/96 ( 2006.01 )
A23N 5/08 ( 2006.01 )			E04H 15/58 ( 2006.01 )	B01D 53/14 ( 2006.01 )
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A23P 10/40 ( 2016.01 )			(87) WO2024/233350	C01B 32/50 ( 2017.01 )
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(72) RAWLINGS, Matthew				(72) NAKAGAWA Yosuke; KAMADA Toru; KONDO Shigeki; MIYAMOTO Osamu
(74) Elliptic Legal & Patent Services				(74) Davies Collison Cave Pty Ltd
(71) MCMANUS, R.; MCMANUS, T.			(71) MESO SCALE TECHNOLOGIES, LLC.	(71) MODERNATX, INC.
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(54) ANTI-INFECTION SURGICAL DEVICE AND METHOD FOR BIOFILM AGITA- TION			(54) SELF-ALIGNING GRIPPER ASSEM- BLIES FOR ROBOTIC ARMS	(54) NUCLEIC ACID INFLUENZA VAC- CINES AND RESPIRATORY VIRUS COMBINATION VACCINES
(51) Int. Cl.			(51) Int. Cl.	(51) Int. Cl.
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B08B 1/00 ( 2024.01 )			(87) WO2024/178308	A61K 39/145 ( 2006.01 )
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B01D 61/12 ( 2006.01 )			G16C 20/30 ( 2019.01 )	(71) MÖLNLYCKE HEALTH CARE AB
B01D 61/22 ( 2006.01 )			G16C 20/20 ( 2019.01 )	(11) AU-A-2024242091
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*E04H 12/12* ( 2006.01 )  
*E04G 23/02* ( 2006.01 )  
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- (71) PA KNOWLEDGE LIMITED  
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 (21) 2024217477 (22) 07.02.2024
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 (51) Int. Cl.  
*B60L 3/00* ( 2019.01 )  
*B60K 31/00* ( 2006.01 )  
*B60W 30/095* ( 2012.01 )  
*B61L 15/00* ( 2006.01 )  
*B61L 23/04* ( 2006.01 )  
*B61L 25/02* ( 2006.01 )  
*B61L 29/00* ( 2006.01 )  
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 (74) Catalyst Intellectual Property
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- (71) PANDROL LIMITED  
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 (51) Int. Cl.  
*E01B 31/17* ( 2006.01 )  
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 (31) 2303021.6 (32) 01.03.23 (33) GB  
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 (72) HERDEGARD, Per  
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- (71) PARAGON 28, INC.  
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 (21) 2024215472 (22) 05.02.2024  
 (54) DYNAMIC SYNDESOSIS IMPLANT SYSTEMS AND METHODS  
 (51) Int. Cl.  
*A61B 17/04* ( 2006.01 )  
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*A61F 2/08* ( 2006.01 )  
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 (31) 63/483,261 (32) 03.02.23 (33) US  
 (43) 08.08.2024  
 (72) HARTSON, Kyle James; FARLEY, Kevin  
 (74) PHILLIPS ORMONDE FITZPATRICK
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- (71) PATHOLOGY WATCH INC.  
 (11) AU-A-2024242684  
 (21) 2024242684 (22) 20.03.2024  
 (54) SYSTEMS, METHODS, AND DEVICES FOR MELANOMA PATHOLOGY USING ONE OR MORE NEURAL NETWORKS  
 (51) Int. Cl.  
*G16H 50/30* ( 2018.01 )  
*G16B 20/00* ( 2019.01 )  
*G06T 7/00* ( 2017.01 )  
*G06V 10/80* ( 2022.01 )  
 (87) WO2024/206023  
 (31) 18/189,965 (32) 24.03.23 (33) US  
 (43) 03.10.2024  
 (72) LAMBERT, Daniel; REQUA, James; HESTER, Jeffery  
 (74) Davies Collison Cave Pty Ltd
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 (54) METHOD AND SYSTEM FOR SIMULATING AND CALCULATING YIELD OF MULTILAYER COMMINGLED PRODUCTION COALBED METHANE WELL  
 (51) Int. Cl.  
*G06F 30/20* ( 2020.01 )  
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*C07K 5/068* ( 2006.01 )  
*A61K 47/54* ( 2017.01 )  
*A61P 31/04* ( 2006.01 )  
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*C07K 5/072* ( 2006.01 )  
*C07K 5/11* ( 2006.01 )  
*C07K 7/02* ( 2006.01 )  
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 (54) METHODS FOR PREDICTING RESPONSE TO PHARMACOLOGICAL AGENTS IN PATIENTS WITH OBESITY  
 (51) Int. Cl.  
*G16B 20/40* ( 2019.01 )  
*C12Q 1/68* ( 2018.01 )  
*G16B 20/20* ( 2019.01 )  
*G16B 40/00* ( 2019.01 )  
*G16H 50/20* ( 2018.01 )  
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*G16H 50/50* ( 2018.01 )  
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(51) Int. Cl.

F16K 37/00 ( 2006.01 )

E21B 34/08 ( 2006.01 )

F16K 17/28 ( 2006.01 )

(87) WO2025/015381

(31) 2023902303 (32) 19.07.23 (33) AU

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(72) CLARKSON, Andrew George William; OLSZEWSKI, Gabriel Edward

(74) Kings Patent & Trade Marks Attorneys Pty Ltd

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(54) DATA COMMUNICATIONS NETWORK UTILISING SATELLITE COMMUNICATIONS TO PROVIDE EMERGENCY ALERT WARNINGS

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G08B 27/00 ( 2006.01 )

G01C 21/34 ( 2006.01 )

G08B 26/00 ( 2006.01 )

H04B 17/318 ( 2015.01 )

H04M 11/04 ( 2006.01 )

H04W 4/02 ( 2018.01 )

H04W 4/021 ( 2018.01 )

H04W 4/90 ( 2018.01 )

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(72) POIDEVIN, Matthew; POIDEVIN, Mark

(74) Murray Trento & Associates Pty Ltd

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(54) METHODS OF TREATING ESSENTIAL TREMOR

(51) Int. Cl.

A61K 31/395 ( 2006.01 )

A61K 31/166 ( 2006.01 )

A61K 31/445 ( 2006.01 )

A61K 31/33 ( 2006.01 )

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(54) CRYSTALLINE SALTS OF A T-TYPE CALCIUM CHANNEL MODULATOR AND METHODS OF USE THEREOF

(51) Int. Cl.

A61P 25/00 ( 2006.01 )

C07D 211/34 ( 2006.01 )

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(54) HIGH STRENGTH SINGLE UNIT DOSE FORMULATIONS AND METHODS OF USE THEREOF

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A61K 31/395 ( 2006.01 )

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A61K 31/33 ( 2006.01 )

(87) WO2024/182654

(31) 63/449,529 (32) 02.03.23 (33) US

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(71) PRC-DESOTO INTERNATIONAL, INC.

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(21) 2024220473 (22) 16.02.2024

(54) COMPOSITIONS COMPRISING MAGNESIUM OXIDE AND RARE EARTH METAL OXIDE

(51) Int. Cl.

C09D 5/08 ( 2006.01 )

C09D 7/40 ( 2018.01 )

C09D 163/00 ( 2006.01 )

C09K 3/10 ( 2006.01 )

(87) WO2024/173767

(31) 63/485,390 (32) 16.02.23 (33) US

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(54) LIMITED CLEARANCE TOOL

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B25B 21/00 ( 2006.01 )

(87) WO2024/182005

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(72) DAVIS, John

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(21) 2024214470 (22) 31.01.2024

(54) METHODS OF DIAGNOSING AND TREATING MULTIPLE SCLEROSIS BY DETECTING A BIOMARKER IN THE CEREBROSPINAL FLUID

(51) Int. Cl.

A61K 31/4545 ( 2006.01 )

A61P 21/00 ( 2006.01 )

A61P 25/28 ( 2006.01 )

C12Q 1/00 ( 2006.01 )

G01N 33/50 ( 2006.01 )

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63/623,681 22.01.24 US

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(54) PHENOTHIAZINYL COMPOUNDS AND USES

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A61K 31/395 ( 2006.01 )

A61K 31/38 ( 2006.01 )

A61K 31/40 ( 2006.01 )

A61K 31/33 ( 2006.01 )

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(54) QUINAZOLINE COMPOUNDS AND USES

(51) Int. Cl.

A61K 31/395 ( 2006.01 )

A61K 31/415 ( 2006.01 )

A61K 31/4985 ( 2006.01 )

A61K 31/505 ( 2006.01 )

A61K 31/517 ( 2006.01 )

A61K 31/33 ( 2006.01 )

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(54) MODULAR INTERCONNECTED QUANTUM PHOTONIC SYSTEM

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G06N 10/40 ( 2022.01 )

G06N 10/00 ( 2022.01 )

H04B 10/70 ( 2013.01 )

(87) WO2024/182458

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 (54) SIGNALING USAGE OF PDU SET AND END OF BURST MARKING FOR COMMUNICATING WEBRTC MEDIA DATA  
 (51) Int. Cl.  
*H04L 65/1069* ( 2022.01 )  
*H04L 65/75* ( 2022.01 )  
*H04L 65/80* ( 2022.01 )  
 (87) WO2024/215654  
 (31) 63/495,201 (32) 10.04.23 (33) US  
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 (43) 17.10.2024  
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(71) RADIOVAXX GMBH  
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 (54) DRUG AND TREATMENT METHOD  
 (51) Int. Cl.  
*A61K 47/54* ( 2017.01 )  
*A61K 47/62* ( 2017.01 )  
*A61K 47/66* ( 2017.01 )  
*A61K 51/04* ( 2006.01 )  
*A61K 51/08* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*A61K 103/30* ( 2006.01 )  
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 (31) 23156637.3 (32) 14.02.23 (33) EP  
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 (51) Int. Cl.  
*A61K 39/00* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07K 16/28* ( 2006.01 )  
*C07K 16/42* ( 2006.01 )  
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*A61K 39/395* ( 2006.01 )  
*C07K 16/18* ( 2006.01 )  
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 (54) MULTISPECIFIC MOLECULES COMPRISING A PEPTIDE-MHC COMPLEX COMPRISING AN MHC DOMAIN AND AN ANTIGENIC PEPTIDE AND AN IMMUNE CELL ANTIGEN TARGETING MOIETY  
 (51) Int. Cl.  
*C07K 16/28* ( 2006.01 )  
*A61K 39/00* ( 2006.01 )  
*A61K 39/12* ( 2006.01 )  
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 (54) COMPOSITIONS AND METHODS FOR MAKING AND USING SMALL MOLECULES FOR THE TREATMENT OF HEALTH CONDITIONS  
 (51) Int. Cl.  
*A61K 31/395* ( 2006.01 )  
*A61K 31/425* ( 2006.01 )  
*A61K 31/505* ( 2006.01 )  
*A61K 31/33* ( 2006.01 )  
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 (31) 63/448,964 (32) 28.02.23 (33) US  
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 (72) GOKHALE, Vijay; SUZUKI, Teri, C.  
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 (54) METHODS FOR TREATING NERVOUS SYSTEM DISORDERS  
 (51) Int. Cl.  
*C12N 15/113* ( 2010.01 )  
 (87) WO2024/196998  
 (31) 63/453,814 (32) 22.03.23 (33) US

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 (72) CARLSON, Morgan; HOPKINS, Patrycja; DRYGIN, Denis  
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 (54) MODIFIED OLIGONUCLEOTIDE FOR TREATING POLYCYSTIC KIDNEY DISEASE  
 (51) Int. Cl.  
*A61K 31/7115* ( 2006.01 )  
*A61P 13/12* ( 2006.01 )  
*C12N 15/113* ( 2010.01 )  
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 (31) 63/495,576 (32) 12.04.23 (33) US  
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 (72) LEE, Edmund Chun Yu; GARG, Rekha  
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 (21) 2024236242 (22) 18.03.2024  
 (54) CONTAMINANT IMMOBILISATION IN ASPHALT  
 (51) Int. Cl.  
*B09C 1/08* ( 2006.01 )  
*B01J 20/08* ( 2006.01 )  
*B01J 20/12* ( 2006.01 )  
*B01J 20/20* ( 2006.01 )  
*B09B 3/20* ( 2022.01 )  
*C08K 3/04* ( 2006.01 )  
*C08K 3/22* ( 2006.01 )  
*C08K 3/34* ( 2006.01 )  
*C10C 3/00* ( 2006.01 )  
*B09B 101/40* ( 2022.01 )  
*B09B 101/90* ( 2022.01 )  
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 (31) 2023900726 (32) 16.03.23 (33) AU  
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 (72) STEWART, Richard John; THOMPSON, Michael  
 (74) Madderns Pty Ltd

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 (54) PROCESS AND PLANT FOR RECYCLING TEXTILES  
 (51) Int. Cl.  
*C08J 11/14* ( 2006.01 )  
*D06M 11/36* ( 2006.01 )  
 (87) WO2024/170563  
 (31) 23156251.3 (32) 13.02.23 (33) EP  
 (43) 22.08.2024  
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 (74) Patent Attorney Services



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(11) AU-A-2023432237  
(21) 2023432237 (22) 26.09.2023  
(54) CERAMIC COOKING DEVICE  
(51) Int. Cl.  
A47J 37/06 ( 2006.01 )  
A47J 37/07 ( 2006.01 )  
(87) WO2024/176501  
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(72) HAYASHI Shusaku; YAMADA Isao  
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(11) AU-A-2024212795  
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(54) TUNNEL BORING MACHINE FOR EXCAVATING SEMICIRCULAR-ARCHED TUNNELS  
(51) Int. Cl.  
E21D 9/087 ( 2006.01 )  
E21D 9/08 ( 2006.01 )  
E21D 9/10 ( 2006.01 )  
E21D 9/11 ( 2006.01 )  
E21D 9/06 ( 2006.01 )  
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(72) GROTHEN, Bradley Dean; MCNEE-LEY, Jay Michael; SMADING, Stephen Mitchell  
(74) Madderns Pty Ltd
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(54) CONTROL DEVICE, OFF-ROAD VEHICLE, AND CONTROL METHOD  
(51) Int. Cl.  
B60T 7/12 ( 2006.01 )  
(87) WO2024/157123  
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(43) 02.08.2024  
(72) SAKATA, Daisuke  
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(54) EXERCISE SYSTEM USING HEART RATE INFORMATION  
(51) Int. Cl.  
A63B 24/00 ( 2006.01 )  
A63B 71/06 ( 2006.01 )  
(87) WO2025/135572  
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(54) ORAL CARE SYSTEMS  
(51) Int. Cl.
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- A46B 11/00 ( 2006.01 )  
A46B 9/04 ( 2006.01 )  
A46B 15/00 ( 2006.01 )  
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(11) AU-A-2024240231  
(21) 2024240231 (22) 11.03.2024  
(54) FIRE PROTECTION STRUCTURE FOR BUILDING ELEMENT, FRAME UNIT, AND FRAME ELEMENT  
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B32B 9/04 ( 2006.01 )  
E04B 1/94 ( 2006.01 )  
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- (71) SANDVIK MINING AND CONSTRUCTION OY  
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(54) SHANK SLEEVE ASSEMBLY, ROCK DRILLING MACHINE AND METHOD  
(51) Int. Cl.  
E21B 17/03 ( 2006.01 )  
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(54) ARRANGEMENT FOR FEEDING BULK-LIKE RESIN, MINING MACHINE AND METHOD  
(51) Int. Cl.  
E21D 20/02 ( 2006.01 )  
E21D 20/00 ( 2006.01 )  
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(54) RAAV PRODUCTION METHODS  
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(74) Davies Collison Cave Pty Ltd
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(54) ROOF-DRAINING MEMBER AND ROOF PROVIDED WITH ROOF-DRAINING MEMBER  
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(72) NAKAMURA Gaku; KANEYASU Kentarou; SETO Masatoshi; TAKAGI Takeshi; SUZUKI Hideki  
(74) James & Wells Intellectual Property
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G01N 21/77 ( 2006.01 )  
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G01N 21/33 ( 2006.01 )  
G01N 21/85 ( 2006.01 )  
G01N 31/22 ( 2006.01 )  
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(54) ALBUMIN NANOCOMPOSITE COMPRISING PHYTOCHEMICAL AND COMPOSITION FOR IMPROVING MUSCLE DISEASE CONTAINING SAME  
(51) Int. Cl.  
A61K 47/69 ( 2017.01 )  
A61K 31/352 ( 2006.01 )  
A61K 47/64 ( 2017.01 )  
A61P 21/00 ( 2006.01 )  
A61P 29/00 ( 2006.01 )  
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 (54) VIRTUAL AGENT GENERATION BASED ON HISTORICAL CONVERSATION DATA  
 (51) Int. Cl.  
*G06F 9/451* (2018.01)  
*G06F 9/455* (2018.01)  
*G06N 20/00* (2019.01)  
*G06Q 10/10* (2023.01)  
*G10L 15/22* (2006.01)  
*H04L 51/02* (2022.01)  
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 (11) AU-A-2024219251  
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 (54) XANTHINE COMPOUND AND USE THEREOF  
 (51) Int. Cl.  
*C07D 473/04* (2006.01)  
*A61K 31/519* (2006.01)  
*A61P 25/00* (2006.01)  
*C07D 487/04* (2006.01)  
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 (74) FPA Patent Attorneys Pty Ltd
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- (71) SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY, CHINESE ACADEMY OF SCIENCES; THE REGENTS OF THE UNIVERSITY OF MICHIGAN; LIVZON PHARMACEUTICAL GROUP INC.  
 (11) AU-A-2024225659  
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 (54) ARYL SUBSTITUENT-CONTAINING DEGRADATION AGENT FOR CDK12/13, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF  
 (51) Int. Cl.  
*C07D 401/14* (2006.01)  
*A61K 31/496* (2006.01)  
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*A61P 35/00* (2006.01)  
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 (54) CARPET TILES AND SYSTEMS AND METHODS OF MAKING SAME  
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*B32B 27/12* (2006.01)  
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*B32B 5/22* (2006.01)  
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 (74) FPA Patent Attorneys Pty Ltd
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*A61P 25/16* (2006.01)  
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 (54) IN VITRO DIAGNOSTIC SYSTEM  
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*B01J 19/00* (2006.01)  
*B01L 3/00* (2006.01)  
*C12Q 1/6825* (2018.01)  
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*G01N 33/50* (2006.01)  
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 (51) Int. Cl.  
*C07F 9/10* (2006.01)  
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 (74) FPA Patent Attorneys Pty Ltd
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 (54) ARMREST ASSEMBLY AND CHAIR INCLUDING SAME  
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*A47C 7/54* (2006.01)  
*F16H 19/04* (2006.01)  
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 (54) COMPOUNDS AND COMPOSITIONS FOR USE IN STEM CELL TRANSPLANTATION  
 (51) Int. Cl.  
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*A61P 3/02* (2006.01)  
*C12N 15/113* (2010.01)  
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 (11) AU-A-2024232781  
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 (54) CONNECTOR FOR PRE-FABRICATED WALLS  
 (51) Int. Cl.  
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 (51) Int. Cl.  
**A61K 31/44** ( 2006.01 )  
**A61K 31/352** ( 2006.01 )  
**A61P 1/16** ( 2006.01 )  
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**C07D 213/81** ( 2006.01 )  
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 (54) METHODS AND SYSTEMS OF REGISTERING A THREE-DIMENSIONAL BONE MODEL  
 (51) Int. Cl.  
**A61B 1/045** ( 2006.01 )  
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 (74) Patent Attorney Services
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 (54) METHODS AND COMPOSITION FOR PALATABLE PET FOODS  
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**A23K 20/105** ( 2016.01 )  
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 (72) VANACKER, Pascal; GLABASNIA, Arne; ZHANG, Jiyuan; POLLIEN, Philippe; VLAEMINCK, Hanne  
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- (71) SPRINGWORKS THERAPEUTICS, INC.; KATHOLIEKE UNIVERSITEIT LEUVEN; VIB VZW  
 (11) AU-A-2024270866  
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 (54) BENZOPIPERAZINE AND RELATED ANALOGS FOR INHIBITING YAP/TAZ-TEAD  
 (51) Int. Cl.  
**A61K 31/395** ( 2006.01 )  
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 (21) 2024273720 (22) 16.05.2024  
 (54) TETRAHYDRONAPHTHYRIDINE AND RELATED ANALOGS FOR INHIBITING YAP/TAZ-TEAD  
 (51) Int. Cl.  
**C07D 215/02** ( 2006.01 )  
**A61K 31/47** ( 2006.01 )  
**A61P 35/00** ( 2006.01 )  
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 (11) AU-A-2024237075  
 (21) 2024237075 (22) 10.03.2024  
 (54) ENHANCED CONNECTOR FOR USE IN FORMING JOINTS  
 (51) Int. Cl.  
**E04B 1/48** ( 2006.01 )  
**E04B 1/41** ( 2006.01 )  
**E04B 1/68** ( 2006.01 )  
**E04B 5/32** ( 2006.01 )  
**E04C 5/12** ( 2006.01 )  
**E04F 15/14** ( 2006.01 )  
**F16B 13/00** ( 2006.01 )  
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 (72) HINTON, Cameron  
 (74) Elliptic Legal & Patent Services
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 (54) PENCIL, SHAFT AND PROCESS FOR PRODUCTION THEREOF  
 (51) Int. Cl.  
**B43K 19/14** ( 2006.01 )  
**A45D 40/20** ( 2006.01 )  
**B43K 19/16** ( 2006.01 )  
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 (31) 10 2023 111 014.4 (32) 28.04.23 (33) DE  
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- (71) STALLION CARDIO, LLC  
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 (54) SYSTEM AND METHOD FOR MEASURING CHARACTERISTICS OF CORONARY ARTERIAL SYSTEM  
 (51) Int. Cl.  
**A61B 5/0215** ( 2006.01 )  
**A61M 25/09** ( 2006.01 )  
**A61B 8/08** ( 2006.01 )  
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- (71) STALLION CATHETER, INC.  
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 (54) GUIDE CATHETER  
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 (21) 2024248186 (22) 28.03.2024  
 (54) PURGE GAS CONDITIONING OF NH<sub>3</sub> PLANTS  
 (51) Int. Cl.  
 C01B 3/02 ( 2006.01 )  
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 C01B 3/52 ( 2006.01 )  
 C01C 1/04 ( 2006.01 )  
 C25B 1/04 ( 2021.01 )  
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 (31) 23165617.4 (32) 30.03.23 (33) EP  
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 (72) CUCCHIELLA, Barbara; DOBREE, Joey; PATEL, Mahal; VERHEIJEN, Michael Mattis Carlos; POSTMA, Rolf Sybren  
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 (54) INFLATABLE MATTRESS AND CONTROL THEREOF  
 (51) Int. Cl.  
 A47C 27/10 ( 2006.01 )  
 A61G 7/057 ( 2006.01 )  
 A47C 27/08 ( 2006.01 )  
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 (31) 63/468,142 (32) 22.05.23 (33) US  
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 (72) DERENNE, Richard A.; FLEWWEL-LIN, Tashana; GALER, James K.; NAHAVANDI, Kurosh; KOCH, Nicholas D.; CHEADLE, Brian; ALVAREZ, Ryan Ariel  
 (74) Davies Collison Cave Pty Ltd
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- (71) SUMITOMO CHEMICAL COMPANY, LIMITED  
 (11) AU-A-2024251973  
 (21) 2024251973 (22) 09.04.2024  
 (54) PHENYLHEXANEDIONE COMPOUND AND USE THEREFOR  
 (51) Int. Cl.  
 C07C 317/24 ( 2006.01 )  
 A01G 7/06 ( 2006.01 )  
 A01N 25/04 ( 2006.01 )  
 A01N 31/04 ( 2006.01 )  
 A01P 3/00 ( 2006.01 )  
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 (72) MAEHATA, Ryota  
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 (11) AU-A-2024252670  
 (21) 2024252670 (22) 09.04.2024  
 (54) PHENYLCYCLOHEXANONE COMPOUND AND USE THEREFOR  
 (51) Int. Cl.  
 C07C 317/24 ( 2006.01 )  
 A01N 25/04 ( 2006.01 )  
 A01N 31/06 ( 2006.01 )  
 A01P 3/00 ( 2006.01 )
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 (11) AU-A-2024254987  
 (21) 2024254987 (22) 09.04.2024  
 (54) METHOD FOR PRODUCING 3-HYDROXYBIPHENYL COMPOUND AND DERIVATIVE THEREOF  
 (51) Int. Cl.  
 C07C 37/20 ( 2006.01 )  
 C07C 39/15 ( 2006.01 )  
 C07C 59/68 ( 2006.01 )  
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 C07C 67/31 ( 2006.01 )  
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 (54) CARBON DIOXIDE FIXATION METHOD  
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 B01D 53/14 ( 2006.01 )  
 B01D 53/62 ( 2006.01 )  
 C01B 32/50 ( 2017.01 )  
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 (54) ENERGY STORAGE THERMAL MANAGEMENT SYSTEM AND METHOD  
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 H01M 10/63 ( 2014.01 )  
 H01M 10/613 ( 2014.01 )  
 H01M 10/615 ( 2014.01 )  
 H01M 10/6556 ( 2014.01 )  
 H01M 10/6563 ( 2014.01 )  
 H01M 10/6568 ( 2014.01 )  
 H01M 10/6569 ( 2014.01 )  
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 C07B 59/00 ( 2006.01 )  
 C07D 231/10 ( 2006.01 )  
 C07D 487/04 ( 2006.01 )  
 A61P 17/14 ( 2006.01 )  
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 A61K 31/36 ( 2006.01 )  
 A23L 2/52 ( 2006.01 )  
 A23L 33/105 ( 2016.01 )  
 A61K 8/365 ( 2006.01 )  
 A61K 8/49 ( 2006.01 )  
 A61K 31/192 ( 2006.01 )  
 A61P 43/00 ( 2006.01 )  
 A61Q 19/08 ( 2006.01 )  
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 A23C 9/152 ( 2006.01 )  
 A23F 3/16 ( 2006.01 )  
 A23L 2/00 ( 2006.01 )  
 A23L 2/38 ( 2021.01 )  
 A23L 2/52 ( 2006.01 )  
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(54) WASTE HEAT INTEGRATION INTO PUMPED THERMAL ENERGY STORAGE  
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*F01K 3/12* (2006.01)  
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*G10L 19/008* (2013.01)  
*H04N 21/84* (2011.01)
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**(54)** PRESSURE VESSEL FOR STORING A PRESSURISED FLUID, SUCH AS HYDROGEN  
**(51)** Int. Cl.  
**F17C 13/04** ( 2006.01 )  
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**A61B 5/145** ( 2006.01 )  
**G01N 33/49** ( 2006.01 )  
**A61B 5/02** ( 2006.01 )  
**A61B 5/05** ( 2021.01 )  
**G01N 33/50** ( 2006.01 )  
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**A61B 5/12** ( 2006.01 )  
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**A61B 5/024** ( 2006.01 )  
**A61B 5/1455** ( 2006.01 )  
**A61G 11/00** ( 2006.01 )  
**A61M 21/00** ( 2006.01 )  
**G16H 50/20** ( 2018.01 )  
**G16H 50/70** ( 2018.01 )  
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**(51)** Int. Cl.  
**A61K 48/00** ( 2006.01 )  
**C12N 15/113** ( 2010.01 )  
**A61P 13/12** ( 2006.01 )  
**C07H 21/04** ( 2006.01 )  
**C12N 15/85** ( 2006.01 )  
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**C12Q 1/6809** ( 2018.01 )  
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**C40B 70/00** ( 2006.01 )  
**G01N 33/68** ( 2006.01 )  
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**A61K 38/00** ( 2006.01 )  
**A61K 38/22** ( 2006.01 )  
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**A61P 1/10** ( 2006.01 )  
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**C07K 14/62** ( 2006.01 )  
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**A61N 7/00** ( 2006.01 )  
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**G10K 11/30** ( 2006.01 )  
**A61B 17/225** ( 2006.01 )  
**A61B 17/32** ( 2006.01 )  
**B06B 1/02** ( 2006.01 )  
**G01N 29/22** ( 2006.01 )  
**G01N 29/24** ( 2006.01 )  
**G10K 11/168** ( 2006.01 )  
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**C01B 13/02** ( 2006.01 )  
**B01D 1/30** ( 2006.01 )  
**B01D 1/06** ( 2006.01 )  
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 C09B 57/00 ( 2006.01 )  
 A61K 8/49 ( 2006.01 )  
 A61Q 17/04 ( 2006.01 )  
 C07D 201/00 ( 2006.01 )  
 C07D 275/00 ( 2006.01 )  
 C07D 513/04 ( 2006.01 )  
 C11D 1/00 ( 2006.01 )  
 C11D 3/42 ( 2006.01 )  
 D06M 13/355 ( 2006.01 )  
 D21H 21/30 ( 2006.01 )  
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 G06Q 10/08 ( 2024.01 )  
 G06Q 10/0833 ( 2023.01 )  
 G06Q 10/087 ( 2023.01 )  
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 A61K 35/26 ( 2015.01 )  
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 B07C 3/10 ( 2006.01 )  
 B07C 5/38 ( 2006.01 )  
 B65G 47/49 ( 2006.01 )  
 B07C 5/04 ( 2006.01 )  
 B65G 1/137 ( 2006.01 )  
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 C10G 3/00 ( 2006.01 )  
 C10B 53/07 ( 2006.01 )  
 C10G 1/10 ( 2006.01 )  
 C10G 45/02 ( 2006.01 )  
 C10G 65/04 ( 2006.01 )  
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 H04W 72/02 ( 2009.01 )  
 H04W 72/40 ( 2023.01 )  
 H04W 74/0808 ( 2024.01 )  
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 KIILLERICH PRATAS, Nuno Manuel;  
 JACOBSEN, Thomas Haaning; SHIM-  
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 ARZELIER, Claude  
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 (21) 2024218668 (22) 08.02.2024  
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 A61B 17/064 ( 2006.01 )  
 A61B 17/068 ( 2006.01 )
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 (43) 15.08.2024  
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 LINDEMANN, Madeline; WILCOX, Bry-  
 an; SCANLAN, Sean F.; MAY, Jason;  
 SANTROCK, Robert D.; EASLEY, Mark  
 Erik; DAYTON, Paul; MCALEER, Jody;  
 DECARBO, William T.; HATCH, Daniel  
 J.; NORTON, Steve  
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 LINDEMANN, Madeline; SCANLAN,  
 Sean, F.; MAY, Jason; SANTROCK,  
 Robert, D.; EASLEY, Mark, Erik;  
 DAYTON, Paul; MCALEER, Jody; DE-  
 CARBO, William, T.; HATCH, Daniel, J.;  
 NORTON, Steve  
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 SMITH, W., Bret; LINDEMANN,  
 Madeline; SCANLAN, Sean, F.; MAY,  
 Jason; SANTROCK, Robert, D.; EAS-  
 LEY, Mark, Erik; DAYTON, Paul;  
 MCALEER, Jody; DECARBO, William,  
 T.; HATCH, Daniel, J.; STEADHAM, Mi-  
 chael; NORTON, Steve  
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 A61B 17/15 ( 2006.01 )  
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A61B 17/15 (2006.01)  
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(51) Int. Cl.  
C12Q 1/6886 (2018.01)  
C12Q 1/689 (2018.01)  
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(74) James & Wells Intellectual Property
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(54) INTERFACE AND METHOD FOR THE PREPARATION OF MATERIAL FOR TRANSFER INTO A MASS SPECTROMETER  
(51) Int. Cl.  
H01J 49/04 (2006.01)  
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A61B 5/1473 (2006.01)  
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C01C 1/02 (2006.01)  
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C01C 1/04 (2006.01)  
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(51) Int. Cl.  
G16H 20/17 (2018.01)  
A61M 5/172 (2006.01)  
A61B 5/145 (2006.01)  
A61K 38/28 (2006.01)  
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(11) AU-A-2024254114  
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(51) Int. Cl.  
C12P 9/00 (2006.01)  
A01N 57/20 (2006.01)  
C12N 9/04 (2006.01)  
C12N 9/06 (2006.01)  
C12N 9/10 (2006.01)  
C12P 7/50 (2006.01)  
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(11) AU-A-2024230681  
(21) 2024230681 (22) 01.03.2024  
(54) INSECTICIDAL COMPOSITION AND PROCESS FOR PREPARATION THEREOF  
(51) Int. Cl.  
A01N 43/90 (2006.01)  
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(31) 2303005.9 (32) 01.03.23 (33) GB  
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(21) 2024248636 (22) 27.03.2024  
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(51) Int. Cl.  
A01N 37/36 (2006.01)  
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(51) Int. Cl.  
C02F 1/40 (2023.01)  
(87) WO2025/057686  
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(43) 20.03.2025  
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- (71) UVEX ARBEITSSCHUTZ GMBH  
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(21) 2024235933 (22) 21.02.2024  
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(51) Int. Cl.  
G02C 3/00 (2006.01)  
G02C 5/14 (2006.01)  
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 (54) AIR STREAM SELECTOR  
 (51) Int. Cl.  
 A01C 7/08 (2006.01)  
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 (72) ESAU, Jordan; GILSTRING, Gert  
 (74) FB Rice Pty Ltd
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 (11) AU-A-2024235914  
 (21) 2024235914 (22) 16.02.2024  
 (54) INDUSTRIAL FILTER CLOTH  
 (51) Int. Cl.  
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 (54) PERSON MONITOR  
 (51) Int. Cl.  
 G08B 21/02 (2006.01)  
 A61B 5/00 (2006.01)  
 A61B 5/083 (2006.01)  
 A61B 5/11 (2006.01)  
 G02B 23/00 (2006.01)  
 G06F 18/25 (2023.01)  
 G08B 21/22 (2006.01)  
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 (72) NOORDHUIS, Joeke; WESTRUP, Geert Hendrik; AALFS, Daniel; OP-STAL VAN, Edwin; VAN BOXTEL, Jaap  
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 (54) MODULATORS OF SORTILIN ACTIVITY  
 (51) Int. Cl.  
 C07D 213/36 (2006.01)  
 A61K 31/44 (2006.01)  
 A61P 25/18 (2006.01)  
 A61P 25/28 (2006.01)  
 A61P 35/00 (2006.01)  
 C07C 15/04 (2006.01)  
 C07C 229/36 (2006.01)  
 C07C 309/04 (2006.01)  
 C07D 239/42 (2006.01)  
 C07D 239/47 (2006.01)  
 C07D 239/94 (2006.01)  
 C07D 241/20 (2006.01)  
 C07D 241/44 (2006.01)  
 C07D 257/04 (2006.01)  
 C07D 401/12 (2006.01)  
 C07D 403/12 (2006.01)  
 C07D 471/04 (2006.01)  
 (87) WO2024/184469  
 (31) 23160615.3 (32) 07.03.23 (33) EP  
 (43) 12.09.2024  
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- (71) VETROPACK HOLDING AG  
 (11) AU-A-2024238982  
 (21) 2024238982 (22) 15.03.2024  
 (54) TEMPERED GLASS BOTTLE WITH THIN WALL THICKNESS  
 (51) Int. Cl.  
 C03B 27/06 (2006.01)  
 (87) WO2024/194184  
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 (72) STUHNE, Dubravko; CORNAZ, Claude; EGGER, Daniel  
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 (11) AU-A-2024240458  
 (21) 2024240458 (22) 15.03.2024  
 (54) TEMPERED GLASS BOTTLE WITH SANDWICH STRUCTURE  
 (51) Int. Cl.  
 C03B 27/06 (2006.01)  
 (87) WO2024/194167  
 (31) 23162621.9 (32) 17.03.23 (33) EP  
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 (21) 2023436525 (22) 13.03.2023  
 (54) PER LINK MOBILE SATELLITE BEAM DECONFLICTION  
 (51) Int. Cl.  
 H04B 7/185 (2006.01)  
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 (74) Adams Pluck
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- (71) VIKING THERAPEUTICS, INC.  
 (11) AU-A-2024235143  
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 (54) PHARMACEUTICAL COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC AND LIVER DISORDERS  
 (51) Int. Cl.  
 A61K 38/26 (2006.01)  
 A61K 9/00 (2006.01)  
 A61K 9/20 (2006.01)  
 A61K 47/12 (2006.01)  
 A61K 47/18 (2017.01)  
 A61K 47/32 (2006.01)  
 A61K 47/38 (2006.01)  
 A61P 1/16 (2006.01)  
 A61P 3/10 (2006.01)  
 A61P 13/12 (2006.01)  
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 (74) Davies Collison Cave Pty Ltd
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- (71) VOYAGER THERAPEUTICS, INC.  
 (11) AU-A-2024266140  
 (21) 2024266140 (22) 29.04.2024  
 (54) COMPOSITIONS AND METHODS FOR REGULATING MAPT  
 (51) Int. Cl.  
 C07K 14/47 (2006.01)  
 C12N 15/86 (2006.01)  
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**(51)** Int. Cl.  
*B01D 53/34* ( 2006.01 )  
*C01D 7/12* ( 2006.01 )  
**(87)** WO2024/186614  
**(31)** 63/488,440 (32) 03.03.23 (33) US  
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**(43)** 12.09.2024  
**(72)** SHI, Xianming; LI, Zhipeng  
**(74)** Halfords IP
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- (71)** WATTS, Quinton  
**(11)** AU-A-2023478833  
**(21)** 2023478833 (22) 30.12.2023  
**(54)** Chain marker  
**(51)** Int. Cl.  
*F16G 13/12* ( 2006.01 )  
**(87)** WO2024/146865  
**(31)** 2300010.2 (32) 03.01.23 (33) GB  
**(43)** 11.07.2024  
**(72)** WATTS, Quinton  
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- (71)** WESTROCK PACKAGING SYSTEMS, LLC  
**(11)** AU-A-2024230202  
**(21)** 2024230202 (22) 01.03.2024  
**(54)** ARTICLE CARRIER AND BLANK THEREFOR  
**(51)** Int. Cl.  
*B65D 71/44* ( 2006.01 )  
**(87)** WO2024/182726  
**(31)** 63/449,148 (32) 01.03.23 (33) US  
**(43)** 06.09.2024  
**(72)** YOKOSAWA, Ikuko  
**(74)** Spruson & Ferguson
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- (71)** WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH  
**(11)** AU-A-2024220624  
**(21)** 2024220624 (22) 16.02.2024  
**(54)** COMPOSITIONS AND METHODS FOR MAKING EPIGENETIC MODIFICATIONS  
**(51)** Int. Cl.  
*C12N 15/62* ( 2006.01 )  
*C12N 9/10* ( 2006.01 )  
**(87)** WO2024/173896  
**(31)** 63/485,860 (32) 17.02.23 (33) US  
 63/520,594 18.08.23 US  
**(43)** 22.08.2024  
**(72)** NEUMANN, Edwin; BERTOZZI, Tessa; WEISSMAN, Jonathan  
**(74)** James & Wells Intellectual Property
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- (71)** WILLIAM MARSH RICE UNIVERSITY; THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK  
**(11)** AU-A-2024229931  
**(21)** 2024229931 (22) 27.02.2024  
**(54)** BONE-DIRECTED THERAPEUTICS FOR THE TREATMENT OF CANCER  
**(51)** Int. Cl.  
*A61K 47/62* ( 2017.01 )
- A61K 51/00* ( 2006.01 )  
*A61P 35/04* ( 2006.01 )  
*C07K 16/30* ( 2006.01 )  
**(87)** WO2024/182454  
**(31)** 63/487,151 (32) 27.02.23 (33) US  
 63/507,584 12.06.23 US  
**(43)** 06.09.2024  
**(72)** XIAO, Han; BERGER, Julian  
**(74)** Davies Collison Cave Pty Ltd
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- (71)** WIRTH RESEARCH LIMITED  
**(11)** AU-A-2024224676  
**(21)** 2024224676 (22) 21.02.2024  
**(54)** AN AIR EXTRACTION APPARATUS FOR OPEN REFRIGERATED DISPLAY CASE AND LINKED METHOD  
**(51)** Int. Cl.  
*A47F 3/04* ( 2006.01 )  
**(87)** WO2024/175678  
**(31)** 2302565.3 (32) 22.02.23 (33) GB  
**(43)** 29.08.2024  
**(72)** WIRTH, Nicholas  
**(74)** AJ PARK
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- (71)** WISCONSIN ALUMNI RESEARCH FOUNDATION  
**(11)** AU-A-2024230878  
**(21)** 2024230878 (22) 29.02.2024  
**(54)** HIGH THROUGHPUT INFUSION PEPTIDE MAPPING  
**(51)** Int. Cl.  
*G01N 33/68* ( 2006.01 )  
*C07K 1/12* ( 2006.01 )  
*C12N 9/50* ( 2006.01 )  
*C12P 21/06* ( 2006.01 )  
*G01N 1/40* ( 2006.01 )  
*G01N 30/04* ( 2006.01 )  
*H01J 49/00* ( 2006.01 )  
**(87)** WO2024/182604  
**(31)** 63/487,739 (32) 01.03.23 (33) US  
**(43)** 06.09.2024  
**(72)** HEBERT, Alexander; COON, Joshua  
**(74)** AJ PARK
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- (71)** WISETECH GLOBAL (LICENSING) PTY LTD  
**(11)** AU-A-2024256396  
**(21)** 2024256396 (22) 10.04.2024  
**(54)** DETECTING INACCURACIES IN CARRIER LOCATION DATA OF A VESSEL  
**(51)** Int. Cl.  
*G01C 21/20* ( 2006.01 )  
*G01C 21/00* ( 2006.01 )  
*G01S 5/00* ( 2006.01 )  
*G01S 19/01* ( 2010.01 )  
*G06F 16/29* ( 2019.01 )  
*G06Q 10/0833* ( 2023.01 )  
*G08G 3/00* ( 2006.01 )  
**(87)** WO2024/216325  
**(31)** 2023202360 (32) 18.04.23 (33) AU  
**(43)** 24.10.2024  
**(72)** NUZHNOV, Igor; KISLOV, Dmitry  
**(74)** FB Rice Pty Ltd
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- (71)** WOLF CARDIO, LLC  
**(11)** AU-A-2024225360  
**(21)** 2024225360 (22) 21.02.2024
- (54)** IMPLANTABLE INTRACARDIAC ATRIAL RESTRAINING DEVICE AND SYSTEM FOR SENSING AND IDENTIFYING LOCATIONS OF CHANGES TO CARDIAC TISSUE THAT IMPACT ELECTRICAL SIGNALS THEREIN  
**(51)** Int. Cl.  
*A61B 5/361* ( 2021.01 )  
*A61B 5/367* ( 2021.01 )  
*A61B 5/02* ( 2006.01 )  
*A61B 5/318* ( 2021.01 )  
*A61B 5/346* ( 2021.01 )  
*A61B 5/349* ( 2021.01 )  
**(87)** WO2024/178156  
**(31)** 63/486,438 (32) 22.02.23 (33) US  
**(43)** 29.08.2024  
**(72)** WOLF, Randall K.  
**(74)** FB Rice Pty Ltd
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- (71)** XERO LIMITED  
**(11)** AU-A-2024229351  
**(21)** 2024229351 (22) 27.02.2024  
**(54)** METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR DETERMINING DATE INFORMATION  
**(51)** Int. Cl.  
*G06F 16/14* ( 2019.01 )  
*G06F 16/38* ( 2019.01 )  
**(87)** WO2024/181873  
**(31)** 2023900523 (32) 28.02.23 (33) AU  
**(43)** 06.09.2024  
**(72)** OBRIGHT, Bryan; OBERG, Alan  
**(74)** FB Rice Pty Ltd
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- (71)** XERO LIMITED  
**(11)** AU-A-2024229965  
**(21)** 2024229965 (22) 27.02.2024  
**(54)** SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR DETERMINING INFORMATION FROM IMAGE-BASED DOCUMENTS  
**(51)** Int. Cl.  
*G06F 40/10* ( 2020.01 )  
*G06F 40/20* ( 2020.01 )  
*G06F 16/93* ( 2019.01 )  
*G06F 40/205* ( 2020.01 )  
**(87)** WO2024/181872  
**(31)** 2023900525 (32) 28.02.23 (33) AU  
**(43)** 06.09.2024  
**(72)** OBRIGHT, Bryan; OBERG, Alan  
**(74)** FB Rice Pty Ltd
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- (71)** XINGMAI INNOVATION TECHNOLOGY (SUZHOU) CO., LTD  
**(11)** AU-A-2023431323  
**(21)** 2023431323 (22) 14.08.2023  
**(54)** POOL CLEANING ROBOT  
**(51)** Int. Cl.  
*B08B 9/087* ( 2006.01 )  
*E04H 4/16* ( 2006.01 )  
**(87)** WO2024/169145  
**(31)** 202320244919.X (32) 17.02.23 (33) CN  
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**(43)** 22.08.2024  
**(72)** ZHANG, Shilei  
**(74)** Madderns Pty Ltd

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- (71) XINGMAI INNOVATION TECHNOLOGY (SUZHOU) CO., LTD.  
 (11) AU-A-2023428980  
 (21) 2023428980 (22) 03.04.2023  
 (54) POOL CLEANING ROBOT  
 (51) Int. Cl.  
*E04H 4/16* ( 2006.01 )  
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 (43) 15.08.2024  
 (72) ZHANG, Shilei  
 (74) Madderns Pty Ltd
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- (71) YALE UNIVERSITY  
 (11) AU-A-2024236949  
 (21) 2024236949 (22) 11.03.2024  
 (54) COMPOSITIONS AND METHODS FOR TREATING, AMELIORATING, AND/OR PREVENTING DISEASES AND/OR DISORDERS  
 (51) Int. Cl.  
*C12N 9/22* ( 2006.01 )  
*A61K 38/46* ( 2006.01 )  
*C07K 19/00* ( 2006.01 )  
*A61K 38/00* ( 2006.01 )  
*A61K 38/43* ( 2006.01 )  
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 (43) 19.09.2024  
 (72) BRADDOCK, Demetrios; STABACH, Paul; LESTER, Ethan  
 (74) RnB IP
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- (71) YOKOGAWA ELECTRIC CORPORATION  
 (11) AU-A-2024232882  
 (21) 2024232882 (22) 01.03.2024  
 (54) CONTAINER AND WATER TREATMENT SYSTEM  
 (51) Int. Cl.  
*B01D 61/18* ( 2006.01 )  
*B01D 61/58* ( 2006.01 )  
*B01D 65/02* ( 2006.01 )  
*B01D 65/06* ( 2006.01 )  
*C02F 1/44* ( 2023.01 )  
 (87) WO2024/185716  
 (31) 2023-033035 (32) 03.03.23 (33) JP  
 (43) 12.09.2024  
 (72) MATSUI, Yasuhiro; KAMIGUCHI, Junji  
 (74) FB Rice Pty Ltd
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- (71) YOKOGAWA ELECTRIC CORPORATION  
 (11) AU-A-2024233391  
 (21) 2024233391 (22) 01.03.2024  
 (54) ANALYSIS DEVICE, ANALYSIS METHOD, ANALYSIS PROGRAM, AND WATER TREATMENT SYSTEM  
 (51) Int. Cl.  
*B01D 65/10* ( 2006.01 )  
*C02F 1/44* ( 2023.01 )  
*C12M 1/00* ( 2006.01 )  
*C12Q 1/686* ( 2018.01 )  
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 (72) MATSUI, Yasuhiro; KAMIGUCHI, Junji  
 (74) FB Rice Pty Ltd
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- (71) ZHEJIANG GEELY HOLDING GROUP CO., LTD.; GEELY AUTOMOBILE RESEARCH INSTITUTE (NINGBO) CO., LTD.  
 (11) AU-A-2023456818  
 (21) 2023456818 (22) 07.11.2023  
 (54) VEHICLE KEY POSITIONING METHOD, AND APPARATUS AND STORAGE MEDIUM  
 (51) Int. Cl.  
*H04W 64/00* ( 2009.01 )  
 (87) WO2024/255089  
 (31) 202310725924.7 (32) 16.06.23 (33) CN  
 (43) 19.12.2024  
 (72) CHEN, Guoan  
 (74) Madderns Pty Ltd
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- (71) ZHEJIANG GEELY HOLDING GROUP CO., LTD.; GEELY AUTOMOBILE RESEARCH INSTITUTE (NINGBO) CO., LTD.  
 (11) AU-A-2024304353  
 (21) 2024304353 (22) 06.06.2024  
 (54) VEHICLE KEY POSITIONING METHOD, AND APPARATUS AND STORAGE MEDIUM  
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*H04W 4/02* ( 2018.01 )  
*H04W 4/021* ( 2018.01 )  
*H04W 4/40* ( 2018.01 )  
*H04W 64/00* ( 2009.01 )  
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 (72) CHEN, Guoan  
 (74) Madderns Pty Ltd
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- (71) ZHONGSHAN HOSPITAL, FUDAN UNIVERSITY  
 (11) AU-A-2024361197  
 (21) 2024361197 (22) 29.07.2024  
 (54) COMBINED SYSTEM OF CONCEALED CLOSED TRACHEOSCOPE AND ARTIFICIAL AIRWAY BREATHING CIRCUIT  
 (51) Int. Cl.  
*A61M 16/04* ( 2006.01 )  
*A61B 1/06* ( 2006.01 )  
*A61B 1/267* ( 2006.01 )  
*A61M 16/08* ( 2006.01 )  
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 (31) 202410220471.7 (32) 28.02.24 (33) CN  
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 (43) 11.09.2025  
 (72) JIANG, Jinjun; CHEN, Shujing  
 (74) Davies Collison Cave Pty Ltd
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- (71) ZIP HEATERS (AUST) PTY LTD  
 (11) AU-A-2024224897  
 (21) 2024224897 (22) 21.02.2024  
 (54) A TAP ASSEMBLY  
 (51) Int. Cl.  
*E03C 1/04* ( 2006.01 )
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 (87) WO2024/173989  
 (31) 2023900446 (32) 21.02.23 (33) AU  
 (43) 29.08.2024  
 (72) MOULT, Kevin Ralph; TAN, Lydia; MATHEW, Anish Cherian  
 (74) GLMR
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- (71) ZIP HEATERS (AUST) PTY LTD  
 (11) AU-A-2024225715  
 (21) 2024225715 (22) 21.02.2024  
 (54) A HOSE MANAGEMENT SYSTEM  
 (51) Int. Cl.  
*E03C 1/04* ( 2006.01 )  
*B65H 75/44* ( 2006.01 )  
*B65H 75/48* ( 2006.01 )  
*E03C 1/02* ( 2006.01 )  
 (87) WO2024/173988  
 (31) 2023900445 (32) 21.02.23 (33) AU  
 (43) 29.08.2024  
 (72) MOULT, Kevin Ralph; ABELEV, Michail; KEKIC, Ivan; MANSUETO, David; LI, Anson  
 (74) GLMR
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- (71) ZOETIS SERVICES LLC  
 (11) AU-A-2024234735  
 (21) 2024234735 (22) 07.03.2024  
 (54) PHOSPHODIESTERASE 3 (PDE3) INHIBITORS  
 (51) Int. Cl.  
*A61P 9/00* ( 2006.01 )  
*A61K 31/501* ( 2006.01 )  
*C07D 401/04* ( 2006.01 )  
*C07D 401/14* ( 2006.01 )  
*C07D 403/04* ( 2006.01 )  
*C07D 417/04* ( 2006.01 )  
*C07D 417/14* ( 2006.01 )  
 (87) WO2024/191714  
 (31) 63/489,441 (32) 10.03.23 (33) US  
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 (43) 19.09.2024  
 (72) EWIN, Richard A.; CURTIS, Michael P.; MADDUX, Todd M.; KYNE, Graham M.  
 (74) AJ PARK
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- (71) ZOZO, INC.  
 (11) AU-A-2024252951  
 (21) 2024252951 (22) 30.04.2024  
 (54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM  
 (51) Int. Cl.  
*G16H 20/60* ( 2018.01 )  
 (87) WO2024/210221  
 (31) 2023-061935 (32) 06.04.23 (33) JP  
 (43) 10.10.2024  
 (72) INUI, Utahiro; KAWAKAMI, Yohei  
 (74) Davies Collison Cave Pty Ltd
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- (71) ZTE CORPORATION  
 (11) AU-A-2023429157  
 (21) 2023429157 (22) 11.12.2023  
 (54) CHANNEL INFORMATION FEEDBACK METHOD, CHANNEL INFORMATION

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ACQUISITION METHOD, AND STORAGE MEDIUM

- (51) Int. Cl.  
**H04B 7/06** ( 2006.01 )  
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(43) 15.08.2024  
(72) YU, Hongkang; CHEN, Yijian; JIAN, Mengnan; ZHANG, Shujuan; YANG, Jun; SI, Yuan  
(74) Davies Collison Cave Pty Ltd
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- (71) ZYDUS LIFESCIENCES LIMITED  
(11) AU-A-2024229488  
(21) 2024229488 (22) 01.03.2024  
(54) TREATMENT FOR INFLAMMATORY BOWEL DISEASE  
(51) Int. Cl.  
**C07C 311/55** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
**A61K 31/64** ( 2006.01 )  
**A61K 47/02** ( 2006.01 )  
**A61K 47/26** ( 2006.01 )  
**A61K 47/32** ( 2006.01 )  
**A61K 47/38** ( 2006.01 )  
**A61P 1/04** ( 2006.01 )  
**C07C 311/54** ( 2006.01 )  
**C07C 311/57** ( 2006.01 )  
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(87) WO2024/180521  
(31) 202321014154 (32) 02.03.23 (33) IN  
(43) 06.09.2024  
(72) AGARWAL, Sameer; CHATTERJEE, Abhijit; JAIN, Mukul; SHARMA, Rajiv; PARMAR, Deven V.  
(74) FPA Patent Attorneys Pty Ltd
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- (71) ZYMEDYNE THERAPEUTICS INC.  
(11) AU-A-2024228837  
(21) 2024228837 (22) 27.02.2024  
(54) TETRAHYDROQUINOLINE DERIVATIVES FOR INHIBITING CAV3.2-USP5 INTERACTIONS  
(51) Int. Cl.  
**C07D 491/048** ( 2006.01 )  
**A61K 31/473** ( 2006.01 )  
**A61K 31/4741** ( 2006.01 )  
**A61K 31/4745** ( 2006.01 )  
**A61K 31/496** ( 2006.01 )  
**A61P 25/04** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**C07D 221/16** ( 2006.01 )  
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(87) WO2024/178505  
(31) 63/448,421 (32) 27.02.23 (33) US  
(43) 06.09.2024  
(72) PATEL, Ketulbhai; DERKSEN, Darren; ZAMPONI, Gerald W.  
(74) Griffith Hack

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2023370778	LENOVO (BEIJING) LIMITED	2024213837	SAREPTA THERAPEUTICS, INC.
2023415041	GLUETACS THERAPEUTICS (SHANGHAI) CO., LTD.	2024213907	MATEER, C.
2023425816	AIZEN GLOBAL CO., INC.	2024214096	JANSSEN PHARMACEUTICA NV
2023425987	EVONIK OPERATIONS GMBH	2024214099	ECOLECTRO, INC.
2023426653	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	2024214354	JANSSEN PHARMACEUTICA NV
2023427324	GRIFFITH UNIVERSITY	2024214470	PRINCIPIA BIOPHARMA INC.; THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
2023428715	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)		
2023428980	XINGMAI INNOVATION TECHNOLOGY (SUZHOU) CO., LTD.	2024214504	HYFE INC
2023429157	ZTE CORPORATION	2024214542	EVONIK OPERATIONS GMBH
2023430219	EVE POWER CO., LTD.	2024214591	DANIMER IPCO, LLC
2023430667	THE FIFTH AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY	2024214684	MATEER, C.
2023431280	mitsubishi heavy industries, LTD.	2024214764	MATEER, C.
2023431323	XINGMAI INNOVATION TECHNOLOGY (SUZHOU) CO., LTD	2024214812	ECOLECTRO, INC.
2023431557	TOYOTA JIDOSHA KABUSHIKI KAISHA	2024214820	MATEER, C.
2023432237	RINNAI CORPORATION	2024214861	MATEER, C.
2023432245	KOKKINOS, V.; KAKAROUNTAS, A.	2024214937	MATEER, C.
2023432368	SUNGROW POWER SUPPLY CO., LTD.	2024214952	JANSSEN PHARMACEUTICA NV
2023432575	ASADA LADIES CLINIC	2024215094	JANSSEN PHARMACEUTICA NV
2023433168	CAREFUSION 303, INC.	2024215107	MATEER, C.
2023433410	KOKKINOS, V.	2024215194	MATEER, C.
2023433451	SNH SOLUTION CO.,LTD	2024215294	MATEER, C.
2023434377	PANDROL LIMITED	2024215314	MATEER, C.
2023434760	PRIMESOURCE CONSULTING LLC	2024215317	STALLION CARDIO, LLC
2023435256	LOUVER-LITE LIMITED	2024215331	FERTIN PHARMA A/S
2023436525	VIASAT, INC.	2024215384	MATEER, C.
2023437316	SIDIZ INC.	2024215398	EVONIK OPERATIONS GMBH
2023437655	HANGZHOU GREAT STAR INDUSTRIAL CO., LTD.	2024215441	CHONGQING HAIER WASHING MACHINE CO., LTD.; HAIER SMART HOME CO., LTD.
2023437757	MASCHINENFABRIK KÖPPER GMBH & CO. KG	2024215472	PARAGON 28, INC.
2023438338	ESSITY HYGIENE AND HEALTH AKTIEBOLAG	2024215837	CANON PRODUCTION PRINTING HOLDING B.V.
2023438499	ESSITY HYGIENE AND HEALTH AKTIEBOLAG	2024215919	GIVAUDAN SA
2023438724	HITACHI ENERGY LTD	2024215943	MATEER, C.
2023438983	SEKISUI HOUSE, LTD.	2024216570	NINGBO DAYE GARDEN MACHINERY CO., LTD.
2023439766	TELIX PHARMACEUTICALS (INNOVATIONS) PTY LTD; ELI LILLY AND COMPANY	2024216572	UNIVERSITY OF CONNECTICUT
2023442355	PETROCHINA COMPANY LIMITED	2024216768	BIOHAVEN THERAPEUTICS LTD.
2023442585	HALLIBURTON ENERGY SERVICES, INC.	2024217116	EISANA CORP; SPANGLER VAUGHN, C.; MOORE, T.; JOHNSON, D.; ERDAHL, D.; RALEIGH, E.; VITITOE, K.; MCKEWEN, D.; KIA, S.; LOUDIN, H.M.; NAVIN, E.; MORA, L.
2023442603	TELIX PHARMACEUTICALS (INNOVATIONS) PTY LTD; ELI LILLY AND COMPANY	2024217207	GMP BIOTECHNOLOGY LIMITED
2023443541	FASTWAVE MEDICAL INC.	2024217219	NANJING BIOHENG BIOTECH CO., LTD
2023447265	HITACHI INDUSTRIAL PRODUCTS, LTD.	2024217327	E-THERAPEUTICS PLC
2023449263	HITACHI INDUSTRIAL PRODUCTS, LTD.	2024217359	ELECTRO UNIVERS
2023456818	ZHEJIANG GEELY HOLDING GROUP CO., LTD.; GEELY AUTOMOBILE RESEARCH INSTITUTE (NINGBO) CO., LTD.	2024217466	SINOVEDA CANADA INC.
2023457514	GUILIN GFS MONK FRUIT CORPORATION	2024217468	KRAFT FOODS SCHWEIZ HOLDING GMBH
2023478833	WATTS, Quinton	2024217477	PA KNOWLEDGE LIMITED
2024211026	STALLION CATHETER, INC.	2024217644	VENTION LAB LIMITED
2024211404	ROBERT BOSCH GMBH	2024217851	BIOHAVEN THERAPEUTICS LTD.
2024211631	MANUFACTURE D'HORLOGERIE AUDEMARS PIGUET SA	2024218170	THE BIONICS INSTITUTE OF AUSTRALIA
2024211855	LANXESS CORPORATION	2024218532	TRUSTLIFE GLOBAL INC
2024212245	EVONIK OPERATIONS GMBH	2024218668	TREACE MEDICAL CONCEPTS, INC.
2024212795	ROBBINS MINING, INC.	2024218683	MCMANUS, R.; MCMANUS, T.
2024213237	HEIMDALYTICS GMBH	2024218717	CHENGDU NEW RADIOMEDICINE TECHNOLOGY CO., LTD.
2024213263	MATEER, C.	2024218755	INNOVENT BIOLOGICS (SUZHOU) CO., LTD.
2024213340	MATEER, C.	2024218781	AQUARDEN TECHNOLOGIES APS
2024213375	MATEER, C.	2024218782	TREACE MEDICAL CONCEPTS, INC.
2024213379	MATEER, C.	2024218906	TREACE MEDICAL CONCEPTS, INC.
2024213466	MATEER, C.	2024218976	E-THERAPEUTICS PLC
2024213537	JANSSEN PHARMACEUTICA NV	2024219251	SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES; CHINA PHARMACEUTICAL UNIVERSITY
2024213640	MATEER, C.	2024220376	DEBIOPHARM INTERNATIONAL S.A.
2024213693	JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.; SHANGHAI HANSOH BIOMEDICAL CO., LTD.	2024220458	VADERSTAD INDUSTRIES INC.
2024213706	KYMAB LIMITED	2024220473	PRC-DESOTO INTERNATIONAL, INC.
2024213808	MATEER, C.		

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2024220624	WHITEHEAD INSTITUTE FOR BIOMEDICAL RE-SEARCH	2024226652	FISHER & PAYKEL HEALTHCARE LIMITED
2024220940	INS ORTHO, INC.	2024227900	FUNDAÇÃO GIMM - GULBENKIAN INSTITUTE FOR MOLECULAR MEDICINE; FACULDADE DE MEDICINA DA UNIVERSIDADE DE LISBOA
2024221409	KYINNO BIOTECHNOLOGY CO., LTD.	2024227927	KERRY GROUP SERVICES INTERNATIONAL LTD.
2024221532	EVITHE LIMITED	2024227937	CALIFORNIA INSTITUTE OF TECHNOLOGY
2024221604	AJINOMOTO CO., INC.	2024227945	MASKINFABRIK DAHL ENGINEERING APS
2024221785	DEXCOM, INC	2024228129	ONO PHARMACEUTICAL CO., LTD.
2024221799	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	2024228239	HALEON US HOLDINGS LLC
2024221845	HAISCO PHARMACEUTICAL GROUP CO., LTD.	2024228270	HEBEI YILING MEDICAL RESEARCH INSTITUTE CO., LTD
2024221970	RADIOVAXX GMBH	2024228349	CSPC MEGALITH BIOPHARMACEUTICAL CO., LTD.
2024221993	CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.	2024228593	BIOATLA, INC.
2024222377	RE UP Geri Dönüşüm Sanayi ve Ticaret A.Ş	2024228703	DSM IP ASSETS B.V.
2024222787	UNIVERSITE DE LILLE; INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE; CENTRE HOSPITALIER UNIVERSITAIRE DE LILLE	2024228770	AGRI SMILE, INC.
2024222849	TREACE MEDICAL CONCEPTS, INC.	2024228835	HITGEN INC.
2024222862	SHENZHEN HIGHTIDE BIOPHARMACEUTICAL LTD.	2024228837	ZYMEDYNE THERAPEUTICS INC.
2024223058	GLOBAL ENERGY TRANSMISSION, CO.	2024228973	EARTH SCIENCE LABORATORIES, INC.
2024223158	CYTED LTD	2024229079	THREE SMITH GROUP LIMITED
2024223474	SHIZUOKA PREFECTURAL UNIVERSITY CORPORATION; NIPPON FINE CHEMICAL CO., LTD.	2024229087	EFFEE FOUNDRY AS
2024223918	REGENERON PHARMACEUTICALS, INC.	2024229109	UNIVERSITY OF CINCINNATI
2024223953	SHAW INDUSTRIES GROUP, INC.	2024229193	PAIRWISE PLANTS SERVICES, INC.
2024224065	BAKER HUGHES OILFIELD OPERATIONS LLC	2024229200	CURALEAF, INC.; LUX, A.; WINNICKI, R.S.
2024224074	TREACE MEDICAL CONCEPTS, INC.	2024229254	CLOUDBLUE LLC
2024224152	CATERPILLAR INC.	2024229351	XERO LIMITED
2024224241	CATERPILLAR INC.	2024229488	ZYDUS LIFESCIENCES LIMITED
2024224306	PROSETTA BIOSCIENCES, INC.	2024229494	REGENERON PHARMACEUTICALS, INC.
2024224466	ENEOS CORPORATION	2024229497	MASKINFABRIK DAHL ENGINEERING APS
2024224535	HUAWEI TECHNOLOGIES CO., LTD.	2024229559	HIPPOKRATES GMBH
2024224676	WIRTH RESEARCH LIMITED	2024229800	PRAXIS PRECISION MEDICINES, INC.
2024224687	NUNHEMS B.V.	2024229823	REGLAGENE, INC.
2024224709	SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION	2024229843	MICROUNI CO., LTD.
2024224897	ZIP HEATERS (AUST) PTY LTD	2024229931	WILLIAM MARSH RICE UNIVERSITY; THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
2024224958	GIULIANI S.P.A.	2024229946	PRAXIS PRECISION MEDICINES, INC.
2024224961	JOINT-STOCK COMPANY "GENERIUM"	2024229965	XERO LIMITED
2024225123	NUOVO PIGNONE TECNOLOGIE - S.R.L.	2024229973	FLUID TECHNOLOGY SOLUTIONS (FTS), INC.
2024225154	AORTYX S.L.; INSTITUT QUÍMIC DE SARRIÀ. CETS FUNDACIÓ PRIVADA; HOSPITAL CLÍNIC DE BARCELONA	2024229974	LANOVA MEDICINES LIMITED
2024225189	FOLDAX, INC.	2024230025	TARO PHARMACEUTICAL INDUSTRIES LTD.
2024225225	GBIP PTY LTD	2024230123	BLOM, G.F.
2024225360	WOLF CARDIO, LLC	2024230156	REGENERON PHARMACEUTICALS, INC.
2024225419	LIGHTMANUFACTURING, INC.	2024230202	WESTROCK PACKAGING SYSTEMS, LLC
2024225471	NUOVO PIGNONE TECNOLOGIE - S.R.L.	2024230210	INNOSPEC LIMITED
2024225509	SAGE PRODUCTS, LLC	2024230386	JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.
2024225578	GIULIANI S.P.A.	2024230434	H3X TECHNOLOGIES INC.
2024225591	MOON CREATIVE LAB INC.	2024230449	ENDEAVOR BIOMEDICINES, INC.
2024225595	DECODA DIGITAL SERVICES PTY LTD	2024230477	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.
2024225659	SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY, CHINESE ACADEMY OF SCIENCES; THE REGENTS OF THE UNIVERSITY OF MICHIGAN; LIVZON PHARMACEUTICAL GROUP INC.	2024230616	CNC WIRE FORMING PTY LTD
2024225715	ZIP HEATERS (AUST) PTY LTD	2024230662	PRAXIS PRECISION MEDICINES, INC.
2024225721	PROSETTA BIOSCIENCES, INC.	2024230681	UPL MAURITIUS LIMITED; UPL EUROPE SUPPLY CHAIN GMBH
2024225818	AB SCIENCE	2024230748	METEOR BIOTECH CO., LTD.
2024225945	NUOVO PIGNONE TECNOLOGIE - S.R.L.	2024230751	PSIQUANTUM, CORP.
2024225990	MESO SCALE TECHNOLOGIES, LLC.	2024230817	DYNE THERAPEUTICS, INC.
2024226009	O2 PARTNERS, LLC	2024230858	DAN-FOAM, APS
2024226012	KABUSHIKI KAISHA DARTSLIVE D/B/A DARTSLIVE CO., LTD.; SEGA CORPORATION	2024230878	WISCONSIN ALUMNI RESEARCH FOUNDATION
2024226032	JAPAN TOBACCO INC.	2024231111	MAVERICK TECHNOLOGY LTD
2024226052	CRITICAL SYSTEMS, INC.	2024231187	JFE ENGINEERING CORPORATION; NATIONAL UNIVERSITY CORPORATION UNIVERSITY OF TOYAMA
2024226173	CENTRE FOR NOVOSTICS	2024231328	ANYCOMM HOLDINGS CORPORATION
2024226382	BYD COMPANY LIMITED	2024231390	BIOMASON INC.
2024226392	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY	2024231394	WASHINGTON STATE UNIVERSITY
2024226394	THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM	2024231425	OPSOLUTION GMBH
2024226460	HAISCO PHARMACEUTICAL GROUP CO., LTD.	2024231545	CHAMPIONX LLC
2024226522	HUAWEI TECHNOLOGIES CO., LTD.	2024231598	ECOLAB USA INC.
		2024231675	NUTRECO IP ASSETS B.V.
		2024231699	IONCTURA SA
		2024231714	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
		2024231814	DANA-FARBER CANCER INSTITUTE, INC.
		2024231880	TAURX THERAPEUTICS MANAGEMENT LTD.

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2024232220	GRADIANT CORPORATION	2024239849	CORDENPHARMA INTERNATIONAL GMBH
2024232425	CONFLUX TECHNOLOGY PTY LTD	2024240033	BIMINI, LLC
2024232705	MERCK SHARP & DOHME LLC	2024240231	SAINT-GOBAIN PLACO
2024232781	SIMPSON STRONG-TIE COMPANY INC	2024240310	HEIDECKE, S.
2024232837	FEMINAI LTD	2024240363	GRAPHIC PACKAGING INTERNATIONAL, LLC
2024232879	JOINT STOCK COMPANY "BIOCAD"	2024240447	TOPSOE A/S
2024232882	YOKOGAWA ELECTRIC CORPORATION	2024240458	VETROPACK HOLDING AG
2024233069	KITE PHARMA, INC.	2024240793	REGULUS THERAPEUTICS, INC.
2024233097	CERES BRAIN THERAPEUTICS	2024240837	ARROWHEAD PHARMACEUTICALS, INC.
2024233134	VESPER BIO APS	2024241288	SANDVIK MINING AND CONSTRUCTION OY
2024233233	BOEHRINGER INGELHEIM VETMEDICA GMBH	2024241485	INSMED INCORPORATED
2024233391	YOKOGAWA ELECTRIC CORPORATION	2024241520	ESSITY HYGIENE AND HEALTH AKTIEBOLAG
2024233608	GALVIN ENGINEERING PTY LTD	2024242091	MÖLNLYCKE HEALTH CARE AB
2024233656	INNOVATIVE MANGANESE TECHNOLOGIES SA (PTY) LTD.	2024242164	OCTAPHARMA AG
2024233659	JOHANN WOLFGANG GOETHE-UNIVERSITÄT FRANKFURT AM MAIN	2024242684	PATHOLOGY WATCH INC.
2024233755	THOMAS SWAN & CO. LTD.	2024242885	ARIALYS THERAPEUTICS, INC.
2024233848	AFIMMUNE LIMITED	2024242953	CALIFORNIA INSTITUTE OF TECHNOLOGY; MOLECULAR INSTRUMENTS
2024234017	CARDIO DIAGNOSTICS, INC.	2024243348	THYMMUNE THERAPEUTICS, INC.
2024234404	ISTESSO 1 LIMITED	2024243818	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
2024234735	ZOETIS SERVICES LLC	2024244202	THE REGENTS OF THE UNIVERSITY OF MICHIGAN
2024234961	UNIVERSITY OF VIRGINIA	2024244929	SILENCE THERAPEUTICS GMBH; NEW YORK BLOOD CENTER, INC.
2024235086	MODERNATX, INC.	2024244987	HITACHI ENERGY LTD
2024235088	GEVO, INC.	2024245317	SHERLOCK BIOSCIENCES, INC.
2024235143	VIKING THERAPEUTICS, INC.	2024245320	INPIPE ENERGY, INC.
2024235162	INMAGENE PTE. LTD.	2024245362	OJI HOLDINGS CORPORATION
2024235403	COLGATE-PALMOLIVE COMPANY	2024246364	BESPAK EUROPE LIMITED
2024235419	PHENOMIX SCIENCES, INC.; MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH	2024246467	CONOCOPHILLIPS COMPANY
2024235423	ELI LILLY AND COMPANY	2024246785	F. HOFFMANN-LA ROCHE AG
2024235606	BAE SYSTEMS CONTROLS INC.	2024247292	BAYER HEALTHCARE LLC
2024235748	LG ENERGY SOLUTION, LTD.	2024247358	BENDER GMBH & CO. KG
2024235838	AMGEN INC.	2024247723	ECOLAB USA INC.
2024235914	VALMET TECHNOLOGIES OY	2024247957	EQUASHIELD MEDICAL LTD
2024235933	UVEX ARBEITSSCHUTZ GMBH	2024248136	MEMBRANE SENSOR SYSTEMS LIMITED
2024236117	LEONARDO UK LTD	2024248181	CARDIO DIAGNOSTICS, INC.
2024236242	REMBIND PTY LTD; FULTON HOGAN INDUSTRIES PTY LTD	2024248186	STAMICARBON B.V.
2024236277	HUMANWELL PHARMACEUTICAL US, INC.	2024248264	NEXTGEN BIOSCIENCE CO., LTD.
2024236360	NABACO INC.	2024248419	FACTOR2ENERGY GMBH
2024236477	ELI LILLY AND COMPANY	2024248636	UPL MAURITIUS LIMITED; UPL EUROPE SUPPLY CHAIN GMBH
2024236544	BAE SYSTEMS CONTROLS INC.	2024248738	BAYER AKTIENGESELLSCHAFT
2024236767	TENARIS CONNECTIONS B.V.	2024249034	BYD COMPANY LIMITED
2024236841	OFFICINE MACCAFERRI S.P.A.	2024249302	PHARMAIN CORPORATION
2024236908	THE FLOREY INSTITUTE OF NEUROSCIENCE AND MENTAL HEALTH	2024249349	KENVUE BRANDS LLC
2024236913	HAWA SLIDING SOLUTIONS AG	2024249490	BEIERSDORF AG
2024236949	YALE UNIVERSITY	2024249775	NOVELQUIP FORESTRY (PTY) LTD
2024236993	MARINOMED BIOTECH AG	2024250449	ABIOMED EUROPE GMBH
2024237075	SRG GLOBAL IP PTY LTD	2024250942	IN THE BOWL ANIMAL HEALTH, INC.
2024237111	AXICHEM AB	2024251566	THE REGENTS OF THE UNIVERSITY OF MICHIGAN
2024237113	TAKEDA PHARMACEUTICAL COMPANY LIMITED	2024251973	SUMITOMO CHEMICAL COMPANY, LIMITED
2024237167	GEVO, INC.	2024252670	SUMITOMO CHEMICAL COMPANY, LIMITED
2024237287	BAE SYSTEMS CONTROLS INC.	2024252951	ZOZO, INC.
2024237293	NABACO INC.	2024253887	SMITH & NEPHEW, INC.; SMITH & NEPHEW ORTHOPAEDICS AG; SMITH & NEPHEW ASIA PACIFIC PTE. LIMITED
2024237520	INSMED INCORPORATED	2024254052	POIDEVIN, M.; POIDEVIN, M.
2024237567	SUNTORY HOLDINGS LIMITED	2024254114	UPL LIMITED; INSTITUTE OF CHEMICAL TECHNOLOGY
2024237745	KUHN SAS	2024254881	MASTERCRAFT BOAT COMPANY, LLC
2024237893	FUJITSU GENERAL LIMITED	2024254987	SUMITOMO CHEMICAL COMPANY, LIMITED
2024237926	CHEVRON PHILLIPS CHEMICAL COMPANY LP	2024255172	HAWA SLIDING SOLUTIONS AG
2024238346	THE TRUSTEES OF PRINCETON UNIVERSITY	2024255201	ADAGENE PTE. LTD.
2024238356	NEXTRACKER LLC	2024255359	REGULUS THERAPEUTICS INC.
2024238649	TEXAS TECH UNIVERSITY SYSTEM	2024255410	DAIRY MANAGEMENT INC.; CORNELL UNIVERSITY
2024238799	SOCIÉTÉ DES PRODUITS NESTLÉ S.A.	2024255533	QUALCOMM INCORPORATED
2024238978	ADVANTAGE THERAPEUTICS, INC.	2024256396	WISETECH GLOBAL (LICENSING) PTY LTD
2024238982	VETROPACK HOLDING AG	2024256634	SANDVIK MINING AND CONSTRUCTION OY; DSI
2024239283	NORDEX ENERGY SPAIN S.A.U.	2024258700	UNDERGROUND POLAND SP. Z.O.O.
2024239313	CHEVRON PHILLIPS CHEMICAL COMPANY LP		DOMETIC SWEDEN AB; DOMETIC (ZHUHAI) TECHNOLOGY CO., LTD.
2024239369	TOMPKINS ROBOTICS, INC.		

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2024258997	HERRENKNECHT AKTIENGESELLSCHAFT
2024260657	STAEDTLER SE
2024260861	BOSTON SCIENTIFIC SCIMED, INC.
2024260888	HOLLISTER INCORPORATED
2024261274	HOLLISTER INCORPORATED
2024261540	HOLLISTER INCORPORATED
2024262816	SUNTORY HOLDINGS LIMITED
2024263066	HOLLISTER INCORPORATED
2024264242	H3X TECHNOLOGIES INC.
2024264397	SUMITOMO METAL MINING CO., LTD.; THE UNIVERSITY OF TOKYO
2024264620	NUC ELECTRONICS CO., LTD.
2024266140	VOYAGER THERAPEUTICS, INC.
2024266419	LIEBHERR-WERK NENZING GMBH
2024266587	BLOSSOMHILL THERAPEUTICS, INC.
2024267755	HAWA SLIDING SOLUTIONS AG
2024269895	MERSKY, R.
2024270061	SERVICENOW, INC.
2024270313	SOCIETE DES PRODUITS NESTLE SA
2024270866	SPRINGWORKS THERAPEUTICS, INC.; KATHOLIEKE UNIVERSITEIT LEUVEN; VIB VZW
2024271667	JFE STEEL CORPORATION
2024273720	SPRINGWORKS THERAPEUTICS, INC.; KATHOLIEKE UNIVERSITEIT LEUVEN; VIB VZW
2024277171	KOMATSU LTD.
2024277386	STRYKER CORPORATION
2024280410	EDWARDS LIFESCIENCES CORPORATION
2024289421	SUPERCritical STORAGE COMPANY, INC.
2024293555	PHOENIX ENERGY SERVICES PTY LTD
2024304353	ZHEJIANG GEELY HOLDING GROUP CO., LTD.; GEELY AUTOMOBILE RESEARCH INSTITUTE (NINGBO) CO., LTD.
2024305213	IHI CORPORATION
2024340877	UTSUNOMIYA KOGYO CO., LTD.
2024349818	CHONGQING CHANGAN AUTOMOBILE CO., LTD.
2024352721	ANIPHA TECHNOLOGIES PTY LTD
2024360854	SUN PHARMACEUTICAL INDUSTRIES, INC.
2024361197	ZHONGSHAN HOSPITAL, FUDAN UNIVERSITY
2024368202	CHONGQING CHANGAN AUTOMOBILE CO., LTD.
2024400378	CRRQ QIQIHAR ROLLING STOCK CO., LTD.; PETROCHINA COMPANY LIMITED
2024400974	CRRQ QIQIHAR ROLLING STOCK CO., LTD.; PETROCHINA COMPANY LIMITED
2024401376	CRRQ QIQIHAR ROLLING STOCK CO., LTD.; PETROCHINA COMPANY LIMITED
2024405130	RONFIC CO.,LTD.
2024412280	INNOBIO CORPORATION LIMITED; INNOBIO (HEI LONG JIANG) LIMITED
2024416013	HEALTH AND HAPPINESS (H&H) HONG KONG LIMITED
2025203819	NORTHWEST INSTITUTE OF ECO-ENVIRONMENT AND RESOURCES, CHINESE ACADEMY OF SCIENCES; HEXI UNIVERSITY
2025204141	LONGI GREEN ENERGY TECHNOLOGY CO., LTD.
2025204333	VERSUNI HOLDING B.V.
2025218733	BRAVILOR BONAMAT B.V.



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2024224961	2024248738	2024236477	2024226032	2024237567	2024229200
2024228349	2024249349	2024236908	2024228837	2024238978	<b>B01D 25 /-</b>
2024229494	2024255410	2024236993	2024233659		
2024229843	<b>A61L 2 /-</b>	2024416013	2024234404	<b>A61P 7 /-</b>	<b>B01D 25 /-</b>
2024229974			2024235423		
2024230156	2024218683	<b>A61P 11 /-</b>	2024236277	2024233848	2024235914
2024235086			2024237111	2024242164	<b>B01D 3 /-</b>
2024236477	<b>A61L 29 /-</b>	2024234404	2024416013		
2024242885		2024236993	<b>A61P 3 /-</b>	<b>A61P 9 /-</b>	<b>B01D 3 /-</b>
2024244929	2024261274	2024237520			2024237167
<b>A61K 45 /-</b>	<b>A61M 11 /-</b>	<b>A61P 13 /-</b>	2024213693	2024226032	<b>B01D 5 /-</b>
			2024217851	2024233233	
2024216768	2024236993	2024226394	2024224961	2024234735	2024237167
2024231699	2024246364	2024226460	2024228129	2024237113	<b>B01D 53 /-</b>
2024233848	<b>A61M 16 /-</b>	2024235143	2024233233	2024237520	
2024237111		2024240837	2024235143	2024241485	2023431280
2024244929	2024226652	2024255359	2024236908	<b>A61Q 11 /-</b>	2024212245
<b>A61K 47 /-</b>	2024361197	<b>A61P 17 /-</b>	2024237113		2024231394
	<b>A61M 21 /-</b>		2024244929	2024235403	2024264397
2024217851		2024224958	2024250942		2024271667
2024221970	2024218170	2024225578	<b>A61P 31 /-</b>	<b>A61Q 17 /-</b>	<b>B01D 61 /-</b>
2024223474		2024226032		2024233755	
2024224709	<b>A61M 25 /-</b>	2024236659	2023427324	2024249490	2024229973
2024226460		2024236993	2024228973		2024231714
2024228349	2023443541	2024360854	2024229843	<b>A61Q 19 /-</b>	2024232882
2024229488	2024211026	<b>A61P 19 /-</b>	2024231814		2024248136
2024229931	2024215317		2024235086	2024237567	<b>B01D 63 /-</b>
2024230817	2024225154	2024226032	2024249302	2024238978	
2024233097	2024261274	2024234404	2024255410	<b>A61Q 7 /-</b>	2024231714
2024235143	2024263066	2024237113	2024416013		2024248136
2024236993	<b>A61M 27 /-</b>	2024237520	<b>A61P 35 /-</b>	2024224958	<b>B01D 65 /-</b>
2024249302		<b>A61P 21 /-</b>		2024225578	
2024249349	2024263066		2023415041	<b>A62C 3 /-</b>	2024231714
<b>A61K 48 /-</b>		2024214470	2023430667		2024232882
	<b>A61M 39 /-</b>	2024224709	2023439766	2024235748	2024233391
2024217207		2024226032	2024213706	<b>A62C 35 /-</b>	2024248136
2024223474	2024247292	2024228270	2024217207		<b>B01F 21 /-</b>
2024226394		2024230817	2024217219	2024235748	
2024238978	<b>A61M 5 /-</b>	<b>A61P 25 /-</b>	2024217466		2024247957
<b>A61K 51 /-</b>			2024218717		
	2023433168	2023415041	2024218755		
2023439766	2024233233		2024220376		
			2024221970		

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<b><u>B01F 31 /-</u></b>	<b><u>B23K 101 /-</u></b>	2024213375 2024213379 2024213466 2024213640 2024213808	<b><u>B60R 13 /-</u></b>	<b><u>B65D 88 /-</u></b>	<b><u>C02F 103 /-</u></b>
2024247957	2024226052	2024213907 2024214684 2024214764 2024214820 2024214861 2024214937 2024215107 2024215194 2024215294 2024215314 2024215384 2024215943	2024226382	2024400378 2024401376	2024231598
<b><u>B01J 19 /-</u></b>	<b><u>B23K 37 /-</u></b>	<b><u>B43K 19 /-</u></b>	<b><u>B60T 7 /-</u></b>	<b><u>B65D 90 /-</u></b>	<b><u>C02F 3 /-</u></b>
2024245317	2024226052	2024260657	2024211404	2024400378 2024401376	2024232220
<b><u>B01J 2 /-</u></b>	<b><u>B23K 9 /-</u></b>	<b><u>B60H 1 /-</u></b>	<b><u>B60W 20 /-</u></b>	<b><u>B65G 1 /-</u></b>	<b><u>C02F 5 /-</u></b>
2023437757	2024226052	2024258700	2024249034	2024239369	2024231545
<b><u>B01J 20 /-</u></b>	<b><u>B24B 23 /-</u></b>	<b><u>B60K 31 /-</u></b>	<b><u>B60W 30 /-</u></b>	<b><u>B65G 47 /-</u></b>	<b><u>C03B 27 /-</u></b>
2024236242 2024271667	2023434377	2024217477	2024217477	2024239369	2024238982 2024240458
<b><u>B01J 29 /-</u></b>	<b><u>B25B 21 /-</u></b>	<b><u>B61L 15 /-</u></b>	<b><u>B61L 15 /-</u></b>	<b><u>B65G 65 /-</u></b>	<b><u>C04B 30 /-</u></b>
2024231187	2023434760	2024217477	2024217477	2024400974	2024231390
<b><u>B01J 38 /-</u></b>	<b><u>B25C 5 /-</u></b>	<b><u>B61L 23 /-</u></b>	<b><u>B61L 23 /-</u></b>	<b><u>B65G 69 /-</u></b>	<b><u>C05C 7 /-</u></b>
2024237926 2024239313	2024230616	2024217477	2024217477	2024400974	2024230123
<b><u>B01L 3 /-</u></b>	<b><u>B25J 15 /-</u></b>	<b><u>B61L 25 /-</u></b>	<b><u>B61L 25 /-</u></b>	<b><u>B65H 63 /-</u></b>	<b><u>C05G 5 /-</u></b>
2024245317	2024225990	2024217477	2024217477	2024231328	2023437757
<b><u>B02B 3 /-</u></b>	<b><u>B27F 7 /-</u></b>	<b><u>B60L 3 /-</u></b>	<b><u>B61L 29 /-</u></b>	<b><u>B65H 75 /-</u></b>	<b><u>C07B 59 /-</u></b>
2024231111	2024230616	2024217477	2024217477	2024225715	2024360854
<b><u>B06B 1 /-</u></b>	<b><u>B29C 44 /-</u></b>	<b><u>B60L 53 /-</u></b>	<b><u>B62D 33 /-</u></b>	<b><u>C01B 13 /-</u></b>	<b><u>C07C 1 /-</u></b>
2024251566	2024226009	2023425816 2024223058	2024400378	2024238346	2024212245
<b><u>B07C 3 /-</u></b>	<b><u>B29C 45 /-</u></b>	<b><u>B60L 58 /-</u></b>	<b><u>B63B 34 /-</u></b>	<b><u>C01B 21 /-</u></b>	<b><u>C07C 15 /-</u></b>
2024239369	2024235748	2024217477	2024254881	2024216572	2024233134
<b><u>B07C 5 /-</u></b>	<b><u>B29C 48 /-</u></b>	<b><u>B60L 7 /-</u></b>	<b><u>B63H 20 /-</u></b>	<b><u>C01B 3 /-</u></b>	<b><u>C07C 2 /-</u></b>
2024239369	2024225591	2023447265 2023449263	2024254881	2024216572 2024248186 2024305213	2024237167
<b><u>B08B 1 /-</u></b>	<b><u>B29C 51 /-</u></b>	<b><u>B60L 9 /-</u></b>	<b><u>B63H 5 /-</u></b>	<b><u>C01B 32 /-</u></b>	<b><u>C07C 229 /-</u></b>
2024218683	2024240363	2023447265 2023449263	2024254881	2023431280 2024264397	2024233134
<b><u>B08B 9 /-</u></b>	<b><u>B32B 13 /-</u></b>	<b><u>B60M 1 /-</u></b>	<b><u>B65B 3 /-</u></b>	<b><u>C01C 1 /-</u></b>	<b><u>C07C 309 /-</u></b>
2023431323	2024240231	2024240363	2024247957	2024216572 2024248186 2024305213	2024233134
<b><u>B09B 101 /-</u></b>	<b><u>B32B 27 /-</u></b>	<b><u>B65D 21 /-</u></b>	<b><u>B65D 1 /-</u></b>	<b><u>C01D 7 /-</u></b>	<b><u>C07C 311 /-</u></b>
2024236242	2024223953	2023437655	2024240363	2024231394	2024229488
<b><u>B09B 3 /-</u></b>	<b><u>B32B 5 /-</u></b>	<b><u>B65D 6 /-</u></b>	<b><u>B65D 21 /-</u></b>	<b><u>C01G 45 /-</u></b>	<b><u>C07C 317 /-</u></b>
2024236242	2024223953	2024242421	2024224241	2024233656	2024251973 2024252670
2024236242	<b><u>B32B 9 /-</u></b>	<b><u>B60P 1 /-</u></b>	<b><u>B60N 3 /-</u></b>	<b><u>C02F 1 /-</u></b>	<b><u>C07C 323 /-</u></b>
<b><u>B09C 1 /-</u></b>	2024240231	2024400378 2024400974	2024258700	2024231598 2024232220 2024232882 2024233391 2024340877	2024254987
2024236242	<b><u>B41J 11 /-</u></b>	<b><u>B60P 3 /-</u></b>	2024240363	<b><u>C07C 39 /-</u></b>	
<b><u>B22C 9 /-</u></b>	2024215837	2024229497 2024401376	2024240363		
2024229087	<b><u>B41M 7 /-</u></b>	<b><u>B60Q 9 /-</u></b>	2024245362		
<b><u>B22D 2 /-</u></b>	2024215837	2024225595	<b><u>B65D 71 /-</u></b>		
2024229087	<b><u>B42D 15 /-</u></b>	2024225595	2024230202		
	2024213263 2024213340		<b><u>B65D 81 /-</u></b>		
			2024237293		

PCT applications which have entered the National Phase - IPC Index cont'd

<b><u>C07C 53 /-</u></b>	2024233134	<b><u>C07D 413 /-</u></b>	<b><u>C07D 513 /-</u></b>	<b><u>C07K 19 /-</u></b>	<b><u>C09K 8 /-</u></b>
2024352721	<b><u>C07D 251 /-</u></b>	2023415041	2024233755	2024221604	2024231545
<b><u>C07C 57 /-</u></b>	2024239849	2024214952	<b><u>C07D 519 /-</u></b>	2024232879	<b><u>C10B 53 /-</u></b>
2024352721	<b><u>C07D 257 /-</u></b>	2024215094	2024213537	2024236949	<b><u>C10B 53 /-</u></b>
<b><u>C07C 59 /-</u></b>	2024233134	2024228129	2024214354	<b><u>C07K 5 /-</u></b>	2024240447
2024254987	<b><u>C07D 267 /-</u></b>	202423659	2024230386	2024249302	<b><u>C10C 3 /-</u></b>
<b><u>C07C 63 /-</u></b>	2024237520	2024248264	2024266587	<b><u>C07K 7 /-</u></b>	2024236242
2024352721	<b><u>C07D 275 /-</u></b>	<b><u>C07D 417 /-</u></b>	<b><u>C07F 9 /-</u></b>	2024218717	<b><u>C10G 1 /-</u></b>
<b><u>C07C 67 /-</u></b>	2024233755	2023415041	2024211855	2024249302	2024240447
2024254987	<b><u>C07D 307 /-</u></b>	2024228129	2024223474	2024255201	<b><u>C10G 2 /-</u></b>
<b><u>C07C 69 /-</u></b>	2024352721	202423659	<b><u>C07H 15 /-</u></b>	<b><u>C08J 11 /-</u></b>	<b><u>C10G 2 /-</u></b>
2024254987	<b><u>C07D 311 /-</u></b>	2024234735	2024233233	2024222377	2024231187
<b><u>C07C 7 /-</u></b>	2024217466	<b><u>C07D 451 /-</u></b>	<b><u>C07H 17 /-</u></b>	<b><u>C08J 9 /-</u></b>	<b><u>C10G 3 /-</u></b>
2024212245	<b><u>C07D 333 /-</u></b>	2024221845	2024233233	2024226009	2024240447
<b><u>C07D 201 /-</u></b>	2024228835	<b><u>C07D 455 /-</u></b>	<b><u>C07H 19 /-</u></b>	<b><u>C08K 13 /-</u></b>	<b><u>C10G 45 /-</u></b>
2024233755	2024352721	202422862	2024233233	2023425987	2024240447
<b><u>C07D 207 /-</u></b>	<b><u>C07D 401 /-</u></b>	<b><u>C07D 471 /-</u></b>	<b><u>C07H 21 /-</u></b>	2024211855	<b><u>C10G 50 /-</u></b>
2024230025	2023415041	2024214096	2024226394	<b><u>C08K 3 /-</u></b>	2024237167
<b><u>C07D 209 /-</u></b>	2024214952	2024214952	<b><u>C07H 7 /-</u></b>	2024236242	<b><u>C10G 65 /-</u></b>
2024235423	2024215094	2024215094	2024233233	<b><u>C08K 5 /-</u></b>	2024240447
<b><u>C07D 211 /-</u></b>	<b><u>C07D 401 /-</u></b>	2024221845	<b><u>C07K 1 /-</u></b>	2024211855	<b><u>C10K 1 /-</u></b>
2024229946	2023415041	2024228837	2024230878	2024214591	2024231187
<b><u>C07D 213 /-</u></b>	2024214952	2024233134	2024232879	<b><u>C08K 7 /-</u></b>	<b><u>C10L 1 /-</u></b>
2024217466	2024215094	2024235423	<b><u>C07K 14 /-</u></b>	2024211855	<b><u>C10L 1 /-</u></b>
2024233134	<b><u>C07D 403 /-</u></b>	2024213537	2024217851	<b><u>C08L 51 /-</u></b>	2024230210
2024236277	2024214952	2024214354	2024229843	2023425987	2024235088
2024352721	2024215094	2024215094	2024231814	<b><u>C08L 77 /-</u></b>	2024237167
<b><u>C07D 215 /-</u></b>	2024226460	2024219251	2024235086	2023425987	2024233755
2024273720	2024228129	2024219251	2024236908	<b><u>C09B 57 /-</u></b>	<b><u>C11D 3 /-</u></b>
<b><u>C07D 221 /-</u></b>	2024233134	2024221993	2024242164	2024233755	2024233755
2024228837	2024226460	2024226032	2024412280	<b><u>C09D 163 /-</u></b>	<b><u>C12M 1 /-</u></b>
<b><u>C07D 223 /-</u></b>	2024228129	2024235423	2024217851	2024220473	2023432575
2024228129	<b><u>C07D 407 /-</u></b>	2024360854	2024229843	<b><u>C09D 5 /-</u></b>	2024233391
<b><u>C07D 231 /-</u></b>	2024213693	<b><u>C07D 491 /-</u></b>	2024218755	2024220473	2024235838
2024266587	<b><u>C07D 409 /-</u></b>	2024214952	2024221409	<b><u>C09B 57 /-</u></b>	<b><u>C11D 3 /-</u></b>
2024360854	2023415041	2024215094	2024223918	2024233755	2024233755
<b><u>C07D 239 /-</u></b>	2024215094	2024221993	2024224961	<b><u>C09D 163 /-</u></b>	<b><u>C12M 1 /-</u></b>
2024215094	<b><u>C07D 411 /-</u></b>	2024228837	2024228349	2024220473	2023432575
2024233134	2024215094	<b><u>C07D 493 /-</u></b>	2024228593	<b><u>C09D 5 /-</u></b>	2024233391
<b><u>C07D 241 /-</u></b>	2024215094	2024215094	2024229494	2024220473	2024235838
2024232705		2024228129	2024229931	<b><u>C09K 3 /-</u></b>	<b><u>C12N 1 /-</u></b>
		<b><u>C07D 495 /-</u></b>	2024229974	2024220473	2024221604
		2024215094	2024230156	<b><u>C09K 5 /-</u></b>	2024412280
		2024221845	2024232879	2024271667	2024214542
		<b><u>C07D 498 /-</u></b>	2024233069		
		2024215094	2024235162		
		2024237113	2024236477		
		2024266587	2024242885		

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2024215398	2024226173	<u>D06M 11 /-</u>		<u>F01K 25 /-</u>	<u>F16K 11 /-</u>
2024217207	2024226392		<u>E04F 10 /-</u>		
2024217219	2024227900	2024222377		2024248419	2024233608
2024217327	2024227937		2023435256	2024289421	
2024218976	2024233391	<u>D06M 13 /-</u>			<u>F16K 17 /-</u>
2024220624	2024235419		<u>E04F 15 /-</u>	<u>F01K 3 /-</u>	
2024221604	2024242953	2024233755		2024289421	2024293555
2024226394	2024245317		2024225225		<u>F16K 37 /-</u>
2024228349	2024246785	<u>D21H 19 /-</u>	2024237075		
2024229193	2024248181		<u>E04G 23 /-</u>	<u>F01K 7 /-</u>	
2024229843		2024245362		2024248419	2024293555
2024229974	<u>C12R 1 /-</u>	<u>D21H 21 /-</u>	2024239283	2024289421	<u>F16L 15 /-</u>
2024230817					
2024232879	2024215398	2024233755	<u>E04H 12 /-</u>	<u>F02C 1 /-</u>	2024231900
2024240793					
2024240837	<u>C22B 26 /-</u>	<u>D21H 27 /-</u>	2024239283	2024225471	<u>F17C 13 /-</u>
2024244929					
2024255359	2024229973	2024245362	<u>E04H 15 /-</u>	<u>F02C 3 /-</u>	2024236767
2024266140					
2024412280	<u>C22B 3 /-</u>	<u>E01B 29 /-</u>	2024269895	2024225471	<u>F21V 9 /-</u>
<u>C12N 5 /-</u>	2024229973	2024224241	<u>E04H 4 /-</u>	<u>F02C 6 /-</u>	2024269895
	2024233656				
2023432575	<u>C22B 47 /-</u>	<u>E01B 31 /-</u>	2023428980	2023431280	<u>F23C 13 /-</u>
2024217219			2023431323		
	2024233656	2023434377		<u>F02C 7 /-</u>	2024305213
<u>C12N 9 /-</u>			<u>E05D 15 /-</u>		
	<u>C25B 1 /-</u>	<u>E01F 15 /-</u>		2024225123	<u>F23D 14 /-</u>
2024215398			2024236913	2024225945	2024305213
2024220624	2024248186	2024224241	2024267755		
2024221604				<u>F03B 11 /-</u>	
2024224961	<u>C25D 7 /-</u>	<u>E01F 7 /-</u>	<u>E05F 1 /-</u>	2024245320	<u>F23K 5 /-</u>
2024227927					
2024228703	2024231900	2024236841	2024255172	<u>F03B 13 /-</u>	2024305213
2024229193					
2024229843	<u>C40B 40 /-</u>	<u>E02D 5 /-</u>	<u>E05F 5 /-</u>	2024245320	<u>F24F 1 /-</u>
2024230878					
2024236949	2024255201	2024225225	2024255172	<u>F03B 15 /-</u>	2024237893
2024238978					
2024254114	<u>C40B 70 /-</u>	<u>E02F 9 /-</u>	<u>E06B 9 /-</u>	2024245320	<u>F24F 110 /-</u>
2024412280					
	2024226392	2024277171	2023435256	<u>F03D 13 /-</u>	2024229559
<u>C12P 1 /-</u>					
	<u>D01D 5 /-</u>	<u>E03B 1 /-</u>	<u>E21B 17 /-</u>	2024239283	<u>F24F 5 /-</u>
2024214542					
	2024225591	2024233608	2024241288	<u>F04B 39 /-</u>	2024229559
<u>C12P 13 /-</u>					
	<u>D01F 1 /-</u>	<u>E03B 7 /-</u>	<u>E21B 23 /-</u>	2024258700	<u>F24F 6 /-</u>
2024215398					
2024254114	2024214591	2024233608	2023442585	<u>F04D 17 /-</u>	2024229559
2024412280					
	<u>D01F 6 /-</u>	<u>E03C 1 /-</u>	<u>E21B 34 /-</u>	2024225945	<u>F24S 25 /-</u>
<u>C12P 21 /-</u>					
	2024214591	2024224897	2023442585	<u>F04D 29 /-</u>	2024238356
2024221604		2024225715	2024224065		
2024230878	<u>D04H 3 /-</u>	2024233608	2024293555	2024225945	<u>F25B 39 /-</u>
	2024225591	<u>E04B 1 /-</u>	<u>E21B 49 /-</u>	2024225945	2024237893
<u>C12P 41 /-</u>					
	<u>D06F 105 /-</u>	2024232781	2024246467	<u>F16B 13 /-</u>	<u>F25B 41 /-</u>
2024254114		2024237075		2024237075	2024237893
	2024215441	2024240231	<u>E21D 20 /-</u>		
<u>C12P 7 /-</u>				<u>F16F 15 /-</u>	<u>F26B 11 /-</u>
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	2024215441	2024225225	<u>E21D 9 /-</u>	<u>F16G 13 /-</u>	
<u>C12P 9 /-</u>		2024237075			<u>F26B 3 /-</u>
2024254114	<u>D06F 39 /-</u>	<u>E04C 5 /-</u>	2024212795	2023478833	2024225419
			2024258997		
	2024215441	2024237075	<u>F01D 25 /-</u>	<u>F16H 19 /-</u>	<u>F28D 15 /-</u>
<u>C12Q 1 /-</u>	2024231598				
2024214470		<u>E04D 13 /-</u>	2024225123	2023437316	2024232425
2024217207					
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2024247957	2024236544	2024229254	2024217644	2024234017	<b><u>H02J 3 /-</u></b>
<b><u>G01F 23 /-</u></b>	2024237287	2024270061	<b><u>G08B 26 /-</u></b>	<b><u>G16C 20 /-</u></b>	2024244987
2024247957	2024258781	<b><u>G06G 1 /-</u></b>	2024254052	2024230748	<b><u>H02J 50 /-</u></b>
<b><u>G01G 19 /-</u></b>	<b><u>G01S 17 /-</u></b>	2024225595	<b><u>G08B 27 /-</u></b>	<b><u>G16H 10 /-</u></b>	2024223058
2024266419	2024225595	<b><u>G06N 10 /-</u></b>	2024254052	2024234017	<b><u>H02J 7 /-</u></b>
<b><u>G01K 7 /-</u></b>	<b><u>G01S 19 /-</u></b>	2024230751	<b><u>G08G 3 /-</u></b>	<b><u>G16H 20 /-</u></b>	2024223058
2024237287	2024256396	<b><u>G06N 20 /-</u></b>	2024256396	2024234017	<b><u>H02K 1 /-</u></b>
<b><u>G01L 3 /-</u></b>	<b><u>G01S 5 /-</u></b>	2024270061	<b><u>G09F 3 /-</u></b>	2024234961	2024230434
2024349818	2024256396	<b><u>G06Q 10 /-</u></b>	2024213263	2024252951	2024264242
<b><u>G01L 5 /-</u></b>	2025203819	2023425816	2024213340	<b><u>G16H 50 /-</u></b>	<b><u>H02K 11 /-</u></b>
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2024230878	<b><u>G02C 3 /-</u></b>	2024270061	2024213466	2024234017	2024230434
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2024247723	<b><u>G02C 5 /-</u></b>	2023425816	2024213808	2024242684	2024230434
<b><u>G01N 17 /-</u></b>	2024235933	<b><u>G06Q 50 /-</u></b>	2024213907	<b><u>H01F 38 /-</u></b>	<b><u>H02K 9 /-</u></b>
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2024239830	2024211631	<b><u>G06T 7 /-</u></b>	2024215107	2024230878	2024264242
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2024251566	2024242684	<b><u>G06V 10 /-</u></b>	2024215294	2024232425	2024244987
<b><u>G01N 30 /-</u></b>	<b><u>G05B 19 /-</u></b>	2024225595	2024215314	<b><u>H01M 10 /-</u></b>	<b><u>H02M 3 /-</u></b>
2024230878	2024266419	2024242684	2024215384	2023430219	2024244987
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2024239830	2024239369	2024225595	<b><u>G10K 11 /-</u></b>	2024235606	<b><u>H02S 20 /-</u></b>
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2023442603	2024229351	<b><u>G07B 11 /-</u></b>	<b><u>G10L 15 /-</u></b>	2024237287	<b><u>H01M 4 /-</u></b>
2024214470	2024229965	2024213263	2024217644	<b><u>H01M 50 /-</u></b>	2024216570
2024217207	2024234017	2024213340	2024270061	2024235606	2024236117
2024226392	2024256396	2024213375	<b><u>G10L 19 /-</u></b>	2024235748	<b><u>H04B 17 /-</u></b>
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2024245317	2024234017	2024213907	2024242684	<b><u>H01M 50 /-</u></b>	2024230751
2024246467	<b><u>G06F 3 /-</u></b>	2024214684	2024242684	2024216570	2024236117
	2024234017	2024214764	2024248181	2024235748	<b><u>H04B 17 /-</u></b>
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	2023442355	2024214861	2024248181	2024214099	<b><u>H04B 7 /-</u></b>
	2024368202	2024214937	<b><u>G16B 40 /-</u></b>	2024214812	2023429157
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2024270061	
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<b><u>H04L 9 /-</u></b>	
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*B82Y 30/00* ( 2011.01 )  
*H01M 10/056* ( 2010.01 )  
*H02M 7/48* ( 2007.01 )  
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**A61J 1/14** ( 2023.01 )  
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**A63F 1/06** ( 2006.01 )  
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**B66F 9/075** ( 2006.01 )  
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**A61P 21/00** ( 2006.01 )  
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 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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 (54) COMPOSITION FOR PREVENTING OR TREATING MUSCULAR DISEASE, COMPRISING OXICAM-BASED COMPOUND  
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**A01D 34/01** ( 2006.01 )  
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**B03D 1/02** ( 2006.01 )  
**C10L 5/36** ( 2006.01 )  
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(74) Allens Patent & Trade Mark Attorneys

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 EMPLOYING DAPAGLIFLOZIN AND  
 COMPOSITIONS COMPRISING THE  
 SAME  
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 (72) Langkilde, Anna Maria  
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 (51) Int. Cl.  
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 (54) Temperature control device  
 (51) Int. Cl.  
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 (51) Int. Cl.  
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*A62C 3/04* ( 2006.01 )  
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 (74) Allens Patent & Trade Mark Attorneys

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 (51) Int. Cl.

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 (74) Davies Collison Cave Pty Ltd

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*E05F 15/43* ( 2015.01 )  
*E05F 15/74* ( 2015.01 )  
*G01S 7/487* ( 2006.01 )  
*G01S 17/42* ( 2006.01 )  
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 (54) Blood collection devices, systems, and methods facilitating blood flashback  
 (51) Int. Cl.  
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 (72) WANG, Bin; BURKHOLZ, Jonathan Karl  
 (74) FB Rice Pty Ltd

(71) BEDNAR FMT S.R.O.  
 (11) AU-B-2022397710  
 (21) 2022397710 (22) 24.11.2022  
 (54) AGRICULTURAL SOIL PROCESSING DEVICE  
 (51) Int. Cl.  
*A01B 73/04* ( 2006.01 )  
*A01B 73/06* ( 2006.01 )  
*A01B 37/00* ( 2006.01 )  
*A01B 59/042* ( 2006.01 )  
*A01C 7/20* ( 2006.01 )  
 (87) WO2023/093925  
 (31) PV 2021-533 (32) 24.11.21 (33) CZ  
 (43) 01.06.2023  
 (44) 11.09.2025  
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 (74) Spruson & Ferguson

**BEIJING CCRI-TIANMA AUTOMATION TECHNOLOGY CO., LTD. see CCTEG**

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**BEIJING TIANMA INTELLIGENT CONTROL TECHNOLOGY CO., LTD.**

(21) 2023255824

(71) BEIJING DONGFANG BIOTECH CO., LTD; BEIJING JINGYITAI XIANG TECHNOLOGY DEVELOPMENT CO. LTD.

(11) AU-B-2021398061

(21) 2021398061 (22) 29.11.2021

(54) ANTI-LAG-3 MONOCLONAL ANTIBODY AND ANTIGEN BINDING FRAGMENT THEREOF, AND USE THEREOF

(51) Int. Cl.

*C07K 16/28* ( 2006.01 )

*A61K 39/395* ( 2006.01 )

*A61P 35/00* ( 2006.01 )

*C12N 5/10* ( 2006.01 )

*C12N 15/13* ( 2006.01 )

*C12N 15/85* ( 2006.01 )

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(31) 202011436581.5 (32) 10.12.20 (33) CN

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(72) BAI, Yi; ZHOU, Junjie; LIU, Si

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(71) BEIJING HONGHUI MEDITECH CO., LTD

(11) AU-B-2022408746

(21) 2022408746 (22) 12.12.2022

(54) PYRIMIDINE-ANNULATED TRIAZOLE DERIVATIVES AND THEIR USE IN PLATELET AGGREGATION INHIBITION

(51) Int. Cl.

*C07D 471/04* ( 2006.01 )

*A61K 31/519* ( 2006.01 )

*A61P 9/00* ( 2006.01 )

(87) WO2023/109775

(31) PCT/ (32) 13.12.21 (33) CN

CN2021/137533

(43) 22.06.2023

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(72) ZHANG, Pingping; ZHOU, Xiaoxiong; TONG, Weimin; LIU, Ye

(74) James & Wells Intellectual Property

**BEIJING JINGYITAI XIANG TECHNOLOGY DEVELOPMENT CO. LTD. see BEIJING DONGFANG BIOTECH CO., LTD**

(21) 2021398061

(71) BEIJING ROBOROCK TECHNOLOGY CO., LTD.

(11) AU-B-2021397991

(21) 2021397991 (22) 15.09.2021

(54) WASHING CONTROL METHOD AND APPARATUS, COMPUTER READABLE STORAGE MEDIUM, AND ELECTRONIC DEVICE

(51) Int. Cl.

*A47L 11/292* ( 2006.01 )

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(72) LI, Xing; DUAN, Chuanlin; PENG, Song; WANG, Yixing; JIA, Jingtao; WU, Qi; HAN, Xinyu

(74) Allens Patent & Trade Mark Attorneys

(71) BEIJING ROBOROCK TECHNOLOGY CO., LTD.

(11) AU-B-2021450883

(21) 2021450883 (22) 28.10.2021

(54) RECYCLING BUCKET AND CLEANING DEVICE

(51) Int. Cl.

*A47L 11/40* ( 2006.01 )

*A47L 11/29* ( 2006.01 )

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(31) 202110662275.1 (32) 15.06.21 (33) CN

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(72) LIU, Wang; LUO, Guangzhong; LUO, Ping; LI, Jiapeng

(74) Allens Patent & Trade Mark Attorneys

(71) BEIJING ROBOROCK TECHNOLOGY CO., LTD.

(11) AU-B-2022340312

(21) 2022340312 (22) 13.07.2022

(54) CLEANING METHOD AND APPARATUS, BASE STATION AND STORAGE MEDIUM

(51) Int. Cl.

*A47L 11/282* ( 2006.01 )

*A47L 11/40* ( 2006.01 )

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(74) Halfords IP

(71) BEIJING SCITECH-MQ PHARMACEUTICALS LIMITED

(11) AU-B-2022235956

(21) 2022235956 (22) 18.03.2022

(54) QUINAZOLINE-BASED COMPOUND, COMPOSITION, AND APPLICATION OF QUINAZOLINE-BASED COMPOUND

(51) Int. Cl.

*C07D 239/94* ( 2006.01 )

*A61K 31/517* ( 2006.01 )

*A61P 1/06* ( 2006.01 )

*A61P 9/10* ( 2006.01 )

*A61P 17/00* ( 2006.01 )

*A61P 17/06* ( 2006.01 )

*A61P 17/14* ( 2006.01 )

*A61P 19/02* ( 2006.01 )

*A61P 27/02* ( 2006.01 )

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*A61P 35/02* ( 2006.01 )

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*C07D 401/14* ( 2006.01 )

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(31) 202110296394.X (32) 19.03.21 (33) CN

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(74) WRAYS PTY LTD

(71) Beijing Tide Pharmaceutical Co., Ltd.

(11) AU-B-2020265327

(21) 2020265327 (22) 29.04.2020

(54) Method for treating cough by using diaminopyrimidine compound

(51) Int. Cl.

*A61K 31/506* ( 2006.01 )

*A61P 11/14* ( 2006.01 )

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(74) FB Rice Pty Ltd

(71) BEIJING UNIVERSITY OF TECHNOLOGY

(11) AU-B-2024339212

(21) 2024339212 (22) 11.07.2024

(54) SEWAGE TREATMENT APPARATUS AND METHOD FOR REALIZING ENHANCED NITROGEN AND PHOSPHORUS REMOVAL AND N2O EMISSION REDUCTION BY AOA PROCESS

(51) Int. Cl.

*C02F 3/30* ( 2023.01 )

*C02F 3/22* ( 2023.01 )

*C02F 3/28* ( 2023.01 )

*C02F 9/00* ( 2023.01 )

(31) 202410510273.4 (32) 26.04.24 (33) CN

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(74) Alder IP Pty Ltd

**BEIJING YIMIAOYILIAO CO., LTD. see IMUNOPHARM TECHNOLOGY CO., LTD.**

(21) 2021391330

**Bernal, E. see Cole, C.**

(21) 2020254708

(71) BGI SHENZHEN

(11) AU-B-2021442183

(21) 2021442183 (22) 22.04.2021

(54) CONSTRUCTION METHOD FOR RNA SEQUENCING LIBRARY, SEQUENCING METHOD, AND KIT

(51) Int. Cl.

*C40B 50/06* ( 2006.01 )

*C12N 15/10* ( 2006.01 )

*C12Q 1/68* ( 2018.01 )

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 (74) Zone Law Limited
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 (11) AU-B-2024220765  
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 (54) NEMATICIDAL COMPOUNDS, THEIR COMPOSITION AND USE THEREOF  
 (51) Int. Cl.  
*C07C 279/14* (2006.01)  
*A01N 25/00* (2006.01)  
*A01N 37/52* (2006.01)  
*A01N 43/28* (2006.01)  
*A01N 43/44* (2006.01)  
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*C07C 279/04* (2006.01)  
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 (11) AU-B-2020304536  
 (21) 2020304536 (22) 10.06.2020  
 (54) Oxidase-based chemiluminescence assay of phagocytic leukocytes in whole blood and body fluids applicable to point-of-care (POC) diagnostic testing point-of-care (POC) measurement of absolute neutrophil function (ANF)  
 (51) Int. Cl.  
*G01N 21/76* (2006.01)  
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*G01N 33/50* (2006.01)  
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 (74) K&L Gates
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- (71) Biocorp Production S.A.S  
 (11) AU-B-2020261314  
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 (54) Injection monitoring module  
 (51) Int. Cl.  
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 (72) MARCOZ, Alain; ALDON, Lionel  
 (74) Baxter Patent Attorneys Pty Ltd

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 (21) 2022325230 (22) 11.08.2022  
 (54) ENZYMATIC DEGRADATION OF POLYETHYLENE TEREPHTHALATE  
 (51) Int. Cl.  
*C12N 9/18* (2006.01)  
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 (11) AU-B-2023215673  
 (21) 2023215673 (22) 01.02.2023  
 (54) BIRTHING DEVICE  
 (51) Int. Cl.  
*A61B 17/42* (2006.01)  
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 (72) GUO, Tianze  
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- (71) BITDEFENDER IPR MANAGEMENT LTD  
 (11) AU-B-2022415411  
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 (54) SYSTEMS AND METHODS OF CONTROLLING INTERNET ACCESS USING ENCRYPTED DNS  
 (51) Int. Cl.  
*H04L 9/40* (2022.01)  
*H04L 61/4511* (2022.01)  
*H04L 61/59* (2022.01)  
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- (71) Black & Decker Inc.  
 (11) AU-B-2023201275  
 (21) 2023201275 (22) 01.03.2023  
 (54) System and tool for wireless retrieval of measured component data  
 (51) Int. Cl.  
*H04W 4/33* (2018.01)  
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 (43) 06.04.2023  
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 (74) Davies Collison Cave Pty Ltd

- (71) Blitz Systems Pty Ltd  
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 (54) Support structure  
 (51) Int. Cl.  
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*F16B 9/00* (2006.01)  
*F16B 39/02* (2006.01)  
*H02G 3/00* (2006.01)  
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 (54) Raw sensor input encryption for passcode entry security  
 (51) Int. Cl.  
*G06F 21/30* (2013.01)  
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 (11) AU-B-2020275105  
 (21) 2020275105 (22) 15.05.2020  
 (54) Systems and methods for digital workforce intelligent orchestration  
 (51) Int. Cl.  
*G06F 9/48* (2006.01)  
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*G06Q 10/10* (2012.01)  
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- (71) Board of Regents, The University of Texas System  
 (11) AU-B-2019239568  
 (21) 2019239568 (22) 14.03.2019  
 (54) Dual specificity antibodies to human PD-L1 and PD-L2 and methods of use therefor  
 (51) Int. Cl.  
*C07K 16/28* (2006.01)  
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 (31) 62/647,407 (32) 23.03.18 (33) US  
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 (72) CURRAN, Michael A.; JAISWAL, Ashvin R.; ZHA, Dongxing; TONIATTI, Carlo; PRINZ, Bianca; BOLAND, Nadthakarn; KRAULAND, Eric  
 (74) FPA Patent Attorneys Pty Ltd

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(71) Boart Longyear Manufacturing and Distribution Inc.  
 (11) AU-B-2019387239  
 (21) 2019387239 (22) 27.11.2019  
 (54) Core tube handling device  
 (51) Int. Cl.  
*E21B 19/08* ( 2006.01 )  
*B25J 15/00* ( 2006.01 )  
*B65H 57/12* ( 2006.01 )  
*E21B 7/02* ( 2006.01 )  
*E21B 15/00* ( 2006.01 )  
*E21B 19/00* ( 2006.01 )  
 (87) WO2020/112988  
 (31) 62/772,386 (32) 28.11.18 (33) US  
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 (72) UPMEIER, Thorsten; KRUSE, Christof; ZWAR, Trevor  
 (74) FPA Patent Attorneys Pty Ltd

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 (11) AU-B-2020374874  
 (21) 2020374874 (22) 28.10.2020  
 (54) Breast pumping system  
 (51) Int. Cl.  
*A61M 1/06* ( 2006.01 )  
 (87) WO2021/086891  
 (31) 16/665,448 (32) 28.10.19 (33) US  
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 (43) 06.05.2021  
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 (72) BODDIE, Micolene; SAMA, Blake  
 (74) FPA Patent Attorneys Pty Ltd

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**Bodlovich, A. see Gleeson, K.**  
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 (11) AU-B-2020318697  
 (21) 2020318697 (22) 21.07.2020  
 (54) N-methyl, N-(6-(methoxy)pyridazin-3-yl) amine derivatives as autotaxin (ATX) modulators for the treatment of inflammatory airway or fibrotic diseases  
 (51) Int. Cl.  
*C07D 401/14* ( 2006.01 )  
*A61K 31/444* ( 2006.01 )  
*A61K 31/497* ( 2006.01 )  
*A61P 11/00* ( 2006.01 )  
*A61P 29/00* ( 2006.01 )  
*C07D 401/12* ( 2006.01 )  
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 (31) 19187616.8 (32) 22.07.19 (33) EP  
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 (74) Spruson & Ferguson

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 (11) AU-B-2019228294  
 (21) 2019228294 (22) 25.02.2019

(54) Method for reducing skatole and/or indole in animals  
 (51) Int. Cl.  
*A61K 39/00* ( 2006.01 )  
*A61K 39/02* ( 2006.01 )  
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 (31) 18159151.2 (32) 28.02.18 (33) EP  
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 (72) MOKI, Ryouichi; SAKAMOTO, Eigo; YAMAGUCHI, Takeshi  
 (74) FB Rice Pty Ltd

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(71) Boston Scientific Scimed, Inc.  
 (11) AU-B-2020334920  
 (21) 2020334920 (22) 21.08.2020  
 (54) Systems, apparatuses, and methods for tissue ablation  
 (51) Int. Cl.  
*A61B 18/04* ( 2006.01 )  
*A61B 1/00* ( 2006.01 )  
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 (74) Spruson & Ferguson

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 (11) AU-B-2024204221  
 (21) 2024204221 (22) 20.06.2024  
 (54) Fluid management system with integrated laser fiber cooling  
 (51) Int. Cl.  
*A61B 18/22* ( 2006.01 )  
*A61B 18/00* ( 2006.01 )  
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 (74) Spruson & Ferguson

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 (11) AU-B-2019350621  
 (21) 2019350621 (22) 27.09.2019  
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 (51) Int. Cl.  
*B65D 81/32* ( 2006.01 )  
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 (74) GLMR

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(71) Brian Clifford Arthur Bruce  
 (11) AU-B-2024219668  
 (21) 2024219668 (22) 12.09.2024  
 (54) Soft suspension railway bogie

(51) Int. Cl.  
*B61F 5/46* ( 2006.01 )  
*B61F 3/16* ( 2006.01 )  
*B61F 5/30* ( 2006.01 )  
*B61F 5/38* ( 2006.01 )  
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 (72) BRUCE, Brian Clifford Arthur  
 (74) Spruson & Ferguson

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(71) Brisa International LLC  
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 (21) 2023222945 (22) 31.08.2023  
 (54) System and method for biomass growth and processing  
 (51) Int. Cl.  
*B01J 15/00* ( 2006.01 )  
 (43) 21.09.2023  
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 (72) HARMON, Kevin C.; JOHNSON, Shannon M.; HOLMES, Eugene T.  
 (74) FB Rice Pty Ltd

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(71) Bristol-Myers Squibb Company  
 (11) AU-B-2020387392  
 (21) 2020387392 (22) 18.11.2020  
 (54) Compounds useful as inhibitors of Helios protein  
 (51) Int. Cl.  
*C07D 407/14* ( 2006.01 )  
*A61K 31/4439* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07D 401/14* ( 2006.01 )  
*C07D 413/14* ( 2006.01 )  
*C07D 417/14* ( 2006.01 )  
*C07D 487/04* ( 2006.01 )  
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 (74) AJ PARK

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(71) Brooks England Limited  
 (11) AU-B-2020269512  
 (21) 2020269512 (22) 06.04.2020  
 (54) Modular bag for bicycles and the like  
 (51) Int. Cl.  
*B62J 9/21* ( 2020.01 )  
*B62J 9/23* ( 2020.01 )  
*B62J 9/27* ( 2020.01 )  
*B62J 11/04* ( 2020.01 )  
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 (31) 102019000006695 (32) 09.05.19 (33) IT  
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 (74) Phillips Ormonde Fitzpatrick

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(54) Engine, system, and method of providing automated risk mitigation  
 (51) Int. Cl.  
*G06F 3/0484* ( 2013.01 )  
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 (31) 16/265,248 (32) 01.02.19 (33) US  
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 (72) BURPULIS, Byron; KELSO, Josh  
 (74) Davies Collison Cave Pty Ltd

(71) BYD COMPANY LIMITED  
 (11) AU-B-2022299892  
 (21) 2022299892 (22) 17.05.2022  
 (54) ELECTRIC VALVE  
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*H01R 25/14* ( 2006.01 )  
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**G01S 13/02** ( 2006.01 )  
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**G06T 7/00** ( 2017.01 )  
**G06V 10/70** ( 2022.01 )  
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 (54) Anti-MICA/B antibodies that block MICA/B shedding and methods of use  
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     **G06N 3/08** ( 2023.01 )  
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     **A61K 45/00** ( 2006.01 )  
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 (54) RESOURCE CONFIGURATION METHOD AND APPARATUS, NETWORK DEVICE, AND TERMINAL DEVICE  
 (51) Int. Cl.  
     **H04L 5/00** ( 2006.01 )  
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 (54) METHOD FOR INSTALLING A SET OF ELECTRONIC DETONATORS AND ASSOCIATED IGNITION METHOD  
 (51) Int. Cl.  
     **F42D 1/055** ( 2006.01 )  
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     **A47K 5/12** ( 2006.01 )  
     **E03C 1/046** ( 2006.01 )  
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 (74) Phillips Ormonde Fitzpatrick

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(71) Deere & Company  
 (11) AU-B-2020244411

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 (54) Volumetric metering system with improved roller detection  
 (51) Int. Cl.  
     **A01C 7/10** ( 2006.01 )  
     **A01C 7/06** ( 2006.01 )  
     **A01C 7/20** ( 2006.01 )  
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 (74) Davies Collison Cave Pty Ltd

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 (11) AU-B-2024216007  
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 (54) ANTI-CORROSION TAPE COMPRISING AT LEAST ONE WOVEN FABRIC  
 (51) Int. Cl.  
     **B32B 5/02** ( 2006.01 )  
     **B32B 1/08** ( 2006.01 )  
     **B32B 5/08** ( 2006.01 )  
     **B32B 7/022** ( 2019.01 )  
     **B32B 7/03** ( 2019.01 )  
     **B32B 7/12** ( 2006.01 )  
     **B32B 25/10** ( 2006.01 )  
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 (31) 10 2023 102 631.3 (32) 02.02.23 (33) DE  
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 (21) 2019398883 (22) 04.12.2019  
 (54) Surgical instrument mounted display system  
 (51) Int. Cl.  
     **A61B 17/17** ( 2006.01 )  
     **A61B 17/16** ( 2006.01 )  
     **A61B 34/10** ( 2016.01 )  
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(71) DET-IO PTY LIMITED  
 (11) AU-B-2024203136  
 (21) 2024203136 (22) 12.05.2024  
 (54) Decentralized system for identification, authentication, data encryption, cloud and distributed cluster computing  
 (51) Int. Cl.  
     **G06Q 50/26** ( 2024.01 )  
     **G06F 9/50** ( 2006.01 )  
     **G06F 21/32** ( 2013.01 )  
     **G06F 21/41** ( 2013.01 )  
     **G06Q 10/00** ( 2023.01 )  
     **H04L 9/08** ( 2006.01 )  
     **H04L 9/32** ( 2006.01 )  
     **G06N 3/0464** ( 2023.01 )  
 (31) 2023901444 (32) 12.05.23 (33) AU  
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 (11) AU-B-2022309125  
 (21) 2022309125 (22) 08.07.2022  
 (54) METHOD FOR JITTER COMPENSATION DURING RECEIPT OF VOICE CONTENT OVER IP-BASED NETWORKS AND RECEIVER FOR THAT AND METHOD AND DEVICE FOR SENDING AND RECEIVING VOICE CONTENT WITH JITTER COMPENSATION  
 (51) Int. Cl.  
*H04J 3/06* ( 2006.01 )  
*H04L 47/10* ( 2022.01 )  
*H04L 47/2416* ( 2022.01 )  
*H04L 47/283* ( 2022.01 )  
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 (54) A cleaning system  
 (51) Int. Cl.  
*B01F 33/502* ( 2022.01 )  
*B01F 35/10* ( 2022.01 )  
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**C12Q 1/04** ( 2006.01 )  
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**C12Q 1/689** ( 2018.01 )  
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**A61M 5/142** ( 2006.01 )  
**A61J 15/00** ( 2006.01 )  
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 (54) Fuel pick-up device  
 (51) Int. Cl.  
**F02M 37/24** ( 2019.01 )  
**B01D 17/02** ( 2006.01 )  
**B60K 15/077** ( 2006.01 )  
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(71) FUJIFILM CORPORATION; National University Corporation Tokyo Medical and Dental University  
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 (54) PRODUCTION METHOD FOR THERAPEUTIC AGENT FOR ARTHROSIS, AND THERAPEUTIC AGENT FOR ARTHROSIS  
 (51) Int. Cl.  
**A61K 35/28** ( 2015.01 )

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**A61P 19/02** ( 2006.01 )  
**C12Q 1/06** ( 2006.01 )  
**G01N 33/48** ( 2006.01 )  
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**B67D 7/82** ( 2010.01 )  
**B01J 4/00** ( 2006.01 )  
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 (11) AU-B-2022357654  
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 (54) AIR CONDITIONER AND AIR CONDITIONING SYSTEM  
 (51) Int. Cl.  
**F25B 49/02** ( 2006.01 )  
**F24F 11/38** ( 2018.01 )  
**F24F 11/49** ( 2018.01 )  
**F24F 11/54** ( 2018.01 )  
**F24F 11/61** ( 2018.01 )  
**F24F 11/64** ( 2018.01 )  
**F25B 6/02** ( 2006.01 )  
**F24F 140/00** ( 2018.01 )  
**F24F 140/12** ( 2018.01 )  
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 (54) Air conditioner and air conditioning system  
 (51) Int. Cl.  
**F24F 11/65** ( 2018.01 )  
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**F24F 11/58** ( 2018.01 )  
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(54) AIR CONDITIONER  
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F25B 1/00 ( 2006.01 )  
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De Girona Dr. Josep Trueta see Goodgut  
S.L.  
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(54) WHEEL ASSEMBLY INCLUDING IN-BOARD AND OUTBOARD FLANGES DEFINING MECHANICAL STOPS AND RELATED METHODS  
(51) Int. Cl.  
B60B 9/24 ( 2006.01 )  
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(51) Int. Cl.  
B60B 9/24 ( 2006.01 )  
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F16F 9/02 ( 2006.01 )  
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A47J 37/07 ( 2006.01 )

F23N 5/12 ( 2006.01 )  
F23N 5/14 ( 2006.01 )  
F23N 5/24 ( 2006.01 )  
F24C 1/02 ( 2021.01 )  
F24C 1/16 ( 2006.01 )  
F24C 3/10 ( 2006.01 )  
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(74) Wrays Pty Ltd

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(54) METHOD OF COLORING DENTAL BLOCK AND DENTAL BLOCK  
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A61C 13/00 ( 2006.01 )  
A61C 5/70 ( 2017.01 )  
A61C 13/083 ( 2006.01 )  
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(11) AU-B-2022286271  
(21) 2022286271 (22) 09.02.2022  
(54) WALL-MOUNTED AIR CONDITIONER  
(51) Int. Cl.  
F24F 1/0007 ( 2019.01 )  
F24F 13/08 ( 2006.01 )  
F24F 13/20 ( 2006.01 )  
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(54) ELECTRIC CONTROL BOX, AIR CONDITIONER OUTDOOR UNIT, AND AIR CONDITIONER  
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F24F 1/22 ( 2011.01 )  
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(71) Genentech, Inc.  
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(54) Method for treating multiple sclerosis  
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A61P 25/14 ( 2006.01 )  
A61K 39/395 ( 2006.01 )  
C07K 16/28 ( 2006.01 )  
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(71) Geneoscopy, Inc.  
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C12Q 1/6886 ( 2018.01 )  
G01N 33/574 ( 2006.01 )  
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(51) Int. Cl.  
F23R 3/34 ( 2006.01 )  
F02C 3/20 ( 2006.01 )  
F02C 7/22 ( 2006.01 )  
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 (51) Int. Cl.  
 C12Q 1/6888 ( 2018.01 )  
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 (74) FB Rice Pty Ltd

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 (54) Methods and compositions for detecting Candida species  
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 (54) Variant RNAi against alpha-synuclein  
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 C12N 15/113 ( 2010.01 )  
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 (31) 62/714,616 (32) 03.08.18 (33) US  
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(71) Georgia-Pacific Gypsum LLC  
 (11) AU-B-2020287127  
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 (51) Int. Cl.  
 E04B 7/22 ( 2006.01 )  
 B32B 13/14 ( 2006.01 )  
 E04C 2/04 ( 2006.01 )  
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 (21) 2021333577 (22) 23.08.2021  
 (54) Multi-specific antigen binding molecules targeting HIV and methods of use  
 (51) Int. Cl.  
 A61P 31/18 ( 2006.01 )  
 C07K 14/73 ( 2006.01 )  
 C07K 16/10 ( 2006.01 )  
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 (74) Davies Collison Cave Pty Ltd

(71) Gleeson, K.; Bodlovich, A.; Green Camel Pty Limited  
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 (51) Int. Cl.  
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 (74) Allens Patent & Trade Mark Attorneys

(71) GLOBUS (SHETLAND) LIMITED  
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 (54) VALVE ASSEMBLY  
 (51) Int. Cl.  
 A62B 18/02 ( 2006.01 )  
 A41D 13/11 ( 2006.01 )  
 A62B 18/10 ( 2006.01 )  
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(71) GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.  
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 (21) 2021454302 (22) 24.09.2021  
 (54) HIGH VOLTAGE RIDE THROUGH DEVICE AND METHOD, WIND POWER CONVERTER, AND WIND TURBINE SET  
 (51) Int. Cl.  
 H02J 1/00 ( 2006.01 )  
 H02H 9/04 ( 2006.01 )

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 (54) Improved method for the screening, diagnosis and/or monitoring of colorectal advanced neoplasia, advanced adenoma and/or colorectal cancer  
 (51) Int. Cl.  
 C12Q 1/6883 ( 2018.01 )  
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 C12Q 1/689 ( 2018.01 )  
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 (44) 11.09.2025  
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 (74) Spruson & Ferguson

(71) GOOGLE LLC  
 (11) AU-B-2022328309  
 (21) 2022328309 (22) 05.08.2022  
 (54) USER INTERFACES FOR SURFACING WEB BROWSER HISTORY DATA  
 (51) Int. Cl.  
 G06F 16/955 ( 2019.01 )  
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 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) GOOGLE LLC  
 (11) AU-B-2024204939  
 (21) 2024204939 (22) 18.07.2024  
 (54) OVERLAP JOINT FLEX CIRCUIT BOARD INTERCONNECTION  
 (51) Int. Cl.  
 H05K 1/02 ( 2006.01 )  
 H05K 1/11 ( 2006.01 )  
 H05K 1/14 ( 2006.01 )  
 H05K 3/36 ( 2006.01 )  
 H05K 1/03 ( 2006.01 )  
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 (72) MARTINIS, John; BUCKLEY, Bob Benjamin; HUANG, Xiaojun Trent  
 (74) Pizzeyes Patent and Trade Mark Attorneys Pty Ltd

**Green Camel Pty Limited see Gleeson, K.**  
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- (71) GrowOp World Ltd.  
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 (21) 2019462366 (22) 20.08.2019  
 (54) Compact closed-space system for illumination, climate control and air purification  
 (51) Int. Cl.  
*A01G 7/04* ( 2006.01 )  
*A01G 9/02* ( 2018.01 )  
 (87) WO2021/033175  
 (43) 25.02.2021  
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 (72) CHAMAMI, Ziv  
 (74) LAMINAR IP PTY LTD

- (71) Guangdong Oppo Mobile Telecommunications Corp., Ltd.  
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 (21) 2019467045 (22) 24.09.2019  
 (54) Predicted value determination method, encoder, decoder, and computer storage medium  
 (51) Int. Cl.  
*H04N 19/593* ( 2014.01 )  
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 (74) Spruson & Ferguson

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 (21) 2021472065 (22) 12.11.2021  
 (54) LENS FOR ELECTROMAGNETIC WAVES BASED ON ARTIFICIAL DIELECTRIC MATERIAL  
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*H01Q 15/08* ( 2006.01 )  
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 (31) 202111318806.1 (32) 08.11.21 (33) CN  
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 (72) LI, Zimeng  
 (74) Madderns Pty Ltd

**Hadasit Medical Research Services and Development Ltd. see Cell Cure Neurosciences Ltd.**

- (21) 2025205526

**HAIER SMART HOME CO., LTD. see QING-DAO HAIER REFRIGERATOR CO., LTD.**  
 (21) 2022399647

- (71) Halliburton Energy Services, Inc.  
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 (54) Protective barrier coating to improve bond integrity in downhole exposures  
 (51) Int. Cl.  
*E21B 17/10* ( 2006.01 )  
*C09J 5/06* ( 2006.01 )  
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 (74) Phillips Ormonde Fitzpatrick

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 (54) A downhole barrier device having a barrier housing and an integrally formed rupture section  
 (51) Int. Cl.  
*E21B 34/06* ( 2006.01 )  
*B22F 3/105* ( 2006.01 )  
*B22F 5/00* ( 2006.01 )  
*B33Y 30/00* ( 2015.01 )  
*E21B 33/127* ( 2006.01 )  
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 (72) FRIPP, Michael Linley; GRECI, Stephen Michael; ORNELAZ, Richard Decena; TRUJILLO, Celso Max. Jr.  
 (74) Phillips Ormonde Fitzpatrick

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 (54) Fragile and normal viscoelastic components of drilling fluid gels  
 (51) Int. Cl.  
*E21B 21/08* ( 2006.01 )  
*E21B 43/26* ( 2006.01 )  
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 (54) Barrier coating layer for an expandable member wellbore tool

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*E21B 41/02* ( 2006.01 )  
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 (11) AU-B-2020401277  
 (21) 2020401277 (22) 10.12.2020  
 (54) Unitary lateral leg with three or more openings  
 (51) Int. Cl.  
*E21B 17/18* ( 2006.01 )  
*E21B 23/00* ( 2006.01 )  
*E21B 41/00* ( 2006.01 )  
*E21B 43/26* ( 2006.01 )  
 (87) WO2021/119368  
 (31) 62/946,219 (32) 10.12.19 (33) US  
 17/118,582 10.12.20 US  
 (43) 17.06.2021  
 (44) 11.09.2025  
 (72) STEELE, David Joe; VEMURI, Srinivasa Prasanna; DONOVAN, Stacey Blaine; FALNES, Morten; DIETZ, Wesley Paul; RAMIREZ, Christian Alexander  
 (74) Spruson & Ferguson

- (71) Halliburton Energy Services, Inc.  
 (11) AU-B-2020426042  
 (21) 2020426042 (22) 11.02.2020  
 (54) Completion systems and methods to perform completion operations  
 (51) Int. Cl.  
*E21B 43/26* ( 2006.01 )  
*E21B 33/12* ( 2006.01 )  
*E21B 34/00* ( 2006.01 )  
*E21B 34/10* ( 2006.01 )  
 (87) WO2021/154312  
 (31) 16/776,270 (32) 29.01.20 (33) US  
 (43) 05.08.2021  
 (44) 11.09.2025  
 (72) MACEK, Mark Douglas; KAPPE, Colin E.  
 (74) Phillips Ormonde Fitzpatrick

- (71) Halliburton Energy Services, Inc.  
 (11) AU-B-2020443367  
 (21) 2020443367 (22) 30.04.2020  
 (54) Valve position sensing using electric and magnetic coupling  
 (51) Int. Cl.  
*E21B 34/14* ( 2006.01 )  
*E21B 31/06* ( 2006.01 )  
*E21B 34/06* ( 2006.01 )  
*E21B 47/12* ( 2012.01 )  
 (87) WO2021/216095

- (31) 16/855,134 (32) 22.04.20 (33) US  
 (43) 28.10.2021

Applications Accepted - Name Index cont'd

(44) 11.09.2025  
 (72) JOSEPH, Joseph Chakkungal;  
 JAMES, Paul Gregory; WANG, Ziquan;  
 VAYEDA, Ravi Sharad  
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) Halliburton Energy Services, Inc.  
 (11) AU-B-2020456100  
 (21) 2020456100 (22) 01.07.2020  
 (54) Hydraulic retrieving tool with drifting capabilities  
 (51) Int. Cl.  
*E21B 7/06* ( 2006.01 )  
*E21B 23/04* ( 2006.01 )  
*E21B 33/1295* ( 2006.01 )  
 (87) WO2022/005471  
 (31) 16/915,554 (32) 29.06.20 (33) US  
 (43) 06.01.2022  
 (44) 11.09.2025  
 (72) RODRIGUEZ, Franklin Charles; FAL-  
 NES, Morten; HEPBURN, Neil  
 (74) Spruson & Ferguson

(71) HALLIBURTON ENERGY SERVICES,  
 INC.  
 (11) AU-B-2022377265  
 (21) 2022377265 (22) 11.10.2022  
 (54) MIXTURE WITH POZZOLANIC MA-  
 TERIAL FOR CONTROLLING AN-  
 NULAR PRESSURE-BUILDUP IN A  
 WELLBORE  
 (51) Int. Cl.  
*E21B 33/14* ( 2006.01 )  
*C09K 8/467* ( 2006.01 )  
*E21B 43/16* ( 2006.01 )  
*E21B 43/25* ( 2006.01 )  
 (87) WO2023/076027  
 (31) 17/513,439 (32) 28.10.21 (33) US  
 (43) 04.05.2023  
 (44) 11.09.2025  
 (72) BENKLEY, James; PISKLAK, Thomas  
 Jason; LEWIS, Samuel J.  
 (74) Spruson & Ferguson

(71) Harbour Biomed (Shanghai), Co., Ltd.  
 (11) AU-B-2021302126  
 (21) 2021302126 (22) 29.06.2021  
 (54) Binding protein having h2I2 and hcab  
 structures  
 (51) Int. Cl.  
*A61K 39/395* ( 2006.01 )  
*A61K 38/16* ( 2006.01 )  
*A61P 35/00* ( 2006.01 )  
*C07K 19/00* ( 2006.01 )  
 (87) WO2022/002033  
 (31) 202010618158.0 (32) 30.06.20 (33) CN  
 (43) 06.01.2022  
 (44) 11.09.2025  
 (72) HE, Yun; SHI, Lei; LUO, Haishan; LV,  
 Qiang; HE, Jinqiu; PEI, Zenglin; WANG,  
 Yongqiang; ZHONG, Chen; HUANG,  
 Bing; ZHAO, Jianxun; JIA, Xingxing;  
 ZHANG, Xuekun; ZHAO, Chuchu;  
 CHEN, Fei; NIU, Lei; ZHOU, Wei; TAN,  
 Xiangyang; RONG, Yiping  
 (74) WRAYS PTY LTD

HEFEI MIDEA HEATING & VENTILATING  
 EQUIPMENT CO., LTD. see GD MIDEA  
 HEATING & VENTILATING EQUIPMENT  
 CO., LTD.  
 (21) 2022286271

HEFEI MIDEA HEATING VENTILATING  
 EQUIPMENT CO., LTD see GD MIDEA  
 HEATING VENTILATING EQUIPMENT CO.,  
 LTD  
 (21) 2022326662

(71) Heidelberg Pharma Research GmbH  
 (11) AU-B-2019312801  
 (21) 2019312801 (22) 30.07.2019  
 (54) Humanized antibodies against PSMA  
 (51) Int. Cl.  
*C07K 16/30* ( 2006.01 )  
*C07K 16/40* ( 2006.01 )  
 (87) WO2020/025564  
 (31) 18186591.6 (32) 31.07.18 (33) EP  
 (43) 06.02.2020  
 (44) 11.09.2025  
 (72) HECHLER, Torsten; PAHL, Andreas  
 (74) Pizzey's Patent and Trade Mark Attor-  
 neys Pty Ltd

(71) Hemanext Inc.  
 (11) AU-B-2023203290  
 (21) 2023203290 (22) 25.05.2023  
 (54) ANAEROBIC BLOOD STORAGE AND  
 PATHOGEN INACTIVATION METHOD  
 (51) Int. Cl.  
*A61K 41/00* ( 2020.01 )  
*A61L 2/00* ( 2006.01 )  
 (43) 15.06.2023  
 (44) 11.09.2025  
 (62) 2017271545  
 (72) Sowemimo-Coker, Samuel O.; Sutton,  
 Jeffrey; Yoshida, Tatsuro  
 (74) IP GATEWAY PATENT & TRADE  
 MARK ATTORNEYS PTY LTD

(71) Hemex Health, Inc.  
 (11) AU-B-2020301305  
 (21) 2020301305 (22) 25.06.2020  
 (54) External sonication  
 (51) Int. Cl.  
*G01N 29/02* ( 2006.01 )  
*G01N 1/28* ( 2006.01 )  
*G01N 1/38* ( 2006.01 )  
*G01N 33/483* ( 2006.01 )  
 (87) WO2020/264162  
 (31) 62/866,468 (32) 25.06.19 (33) US  
 (43) 30.12.2020  
 (44) 11.09.2025  
 (72) GALEN, Peter; BLEDSOE, James Dar-  
 en; WIKANDER, Jered; GOSS, Steven  
 M.  
 (74) Franke Hyland Pty Ltd

(71) Hempel A/S  
 (11) AU-B-2020301564  
 (21) 2020301564 (22) 26.06.2020  
 (54) Use of coating compositions for wind  
 turbine blades

(51) Int. Cl.  
*C09D 5/00* ( 2006.01 )  
*C08G 18/48* ( 2006.01 )  
*C08G 18/72* ( 2006.01 )  
*C09D 175/12* ( 2006.01 )  
 (87) WO2020/260578  
 (31) 19183414.2 (32) 28.06.19 (33) EP  
 20151250.6 10.01.20 EP  
 (43) 30.12.2020  
 (44) 11.09.2025  
 (72) BERNAD, Pablo Luis; KALLESØE, Erik;  
 MEHROTRA, Kushagra  
 (74) Griffith Hack

(71) Henke-Sass, Wolf GmbH  
 (11) AU-B-2020341058  
 (21) 2020341058 (22) 09.07.2020  
 (54) Device for administering a fluid  
 (51) Int. Cl.  
*A61M 5/20* ( 2006.01 )  
*A61M 5/30* ( 2006.01 )  
*A61M 5/31* ( 2006.01 )  
 (87) WO2021/043472  
 (31) 10 2019 123 734.3 (32) 04.09.19 (33) DE  
 (43) 11.03.2021  
 (44) 11.09.2025  
 (72) ALTERMANN, Frank; WIEDMANN,  
 Maikel; SAUTER, Robin; SEEH, Daniel;  
 SCHMIDT, Anika  
 (74) Davies Collison Cave Pty Ltd

(71) Henke-Sass, Wolf GmbH  
 (11) AU-B-2020341784  
 (21) 2020341784 (22) 09.07.2020  
 (54) Device for administering a fluid  
 (51) Int. Cl.  
*A61M 5/20* ( 2006.01 )  
*A61D 7/00* ( 2006.01 )  
*A61M 5/315* ( 2006.01 )  
 (87) WO2021/043477  
 (31) 10 2019 123 735.1 (32) 04.09.19 (33) DE  
 (43) 11.03.2021  
 (44) 11.09.2025  
 (72) ALTERMANN, Frank; SAUTER, Robin;  
 SCHMIDT, Anika; WIEDMANN, Maikel;  
 SEEH, Daniel  
 (74) Davies Collison Cave Pty Ltd

(71) Hiltec Designs Ltd  
 (11) AU-B-2020200050  
 (21) 2020200050 (22) 03.01.2020  
 (54) COUPLER WITH POWER CONNec-  
 TION SYSTEM  
 (51) Int. Cl.  
*E02F 3/96* ( 2006.01 )  
*E02F 3/36* ( 2006.01 )  
 (31) 1900235.1 (32) 08.01.19 (33) GB  
 (43) 23.07.2020  
 (44) 11.09.2025  
 (72) Hill, Ian; Haughian, Terence  
 (74) Madderns Pty Ltd

(71) Hitachi, Ltd.  
 (11) AU-B-2024202349  
 (21) 2024202349 (22) 11.04.2024  
 (54) Failure probability evaluation apparatus  
 (51) Int. Cl.

Applications Accepted - Name Index cont'd

**G06N 7/01** ( 2023.01 )  
**G05B 23/02** ( 2006.01 )  
**G06F 17/18** ( 2006.01 )  
**(31)** 2023-148400 **(32)** 13.09.23 **(33)** JP  
**(43)** 27.03.2025  
**(44)** 11.09.2025  
**(72)** Shintani, Hiroshi  
**(74)** Davies Collison Cave Pty Ltd

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**(71)** HITACHI ENERGY LTD  
**(11)** AU-B-2023259558  
**(21)** 2023259558 **(22)** 24.04.2023  
**(54)** APPARATUS AND SYSTEM FOR POWER CONVERSION AND METHOD FOR CONTROLLING THE APPARATUS  
**(51)** Int. Cl.  
**H02J 1/10** ( 2006.01 )  
**H02J 7/34** ( 2006.01 )  
**H02M 1/00** ( 2007.01 )  
**H02M 1/32** ( 2007.01 )  
**H02M 3/335** ( 2006.01 )  
**(87)** WO2023/208860  
**(31)** 202210442083.4 **(32)** 25.04.22 **(33)** CN  
 22174699.3 20.05.22 EP  
**(43)** 02.11.2023  
**(44)** 11.09.2025  
**(72)** HUANG, Xing; YANG, XiaoBo  
**(74)** FB Rice Pty Ltd

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**(71)** Hollister Incorporated  
**(11)** AU-B-2021309661  
**(21)** 2021309661 **(22)** 13.07.2021  
**(54)** Medical devices having anti-microbial properties and methods for making the same  
**(51)** Int. Cl.  
**A61L 29/04** ( 2006.01 )  
**A61L 29/08** ( 2006.01 )  
**A61L 29/14** ( 2006.01 )  
**A61L 29/16** ( 2006.01 )  
**(87)** WO2022/015755  
**(31)** 63/050,935 **(32)** 13.07.20 **(33)** US  
**(43)** 20.01.2022  
**(44)** 11.09.2025  
**(72)** MURNAGHAN, Kevin; FARRELL, David, J.  
**(74)** Spruson & Ferguson

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**(71)** HOWMEDICA OSTEONICS CORP.  
**(11)** AU-B-2021202888  
**(21)** 2021202888 **(22)** 06.05.2021  
**(54)** MEDIAL TROCHANTERIC PLATE FIXATION  
**(51)** Int. Cl.  
**A61B 17/80** ( 2006.01 )  
**A61B 17/88** ( 2006.01 )  
**(31)** 63/029,795 **(32)** 26.05.20 **(33)** US  
**(43)** 16.12.2021  
**(44)** 11.09.2025  
**(72)** CHAKRAMAKKIL, Keith; PROUT, Haley; IMAMI, Don; CORBIN, Erika; NIDHAN, Sheldon; GIBBONS, Rachel; ABDEL, Matthew P  
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

**(71)** Huawei Technologies Co., Ltd.  
**(11)** AU-B-2020371074  
**(21)** 2020371074 **(22)** 23.09.2020  
**(54)** Communication method and device  
**(51)** Int. Cl.  
**H04W 40/24** ( 2009.01 )  
**H04W 40/34** ( 2009.01 )  
**H04W 40/36** ( 2009.01 )  
**(87)** WO2021/077971  
**(31)** 201911008408.2 **(32)** 22.10.19 **(33)** CN  
 201911137412.9 19.11.19 CN  
 201911046892.8 30.10.19 CN  
**(43)** 29.04.2021  
**(44)** 11.09.2025  
**(72)** DONG, Jijia; HU, Zhibo  
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Huawei Technologies Co., Ltd.  
**(11)** AU-B-2024200725  
**(21)** 2024200725 **(22)** 06.02.2024  
**(54)** Deblocking filter for sub-partition boundaries caused by intra sub-partition coding tool  
**(51)** Int. Cl.  
**H04N 19/86** ( 2014.01 )  
**H04N 19/159** ( 2014.01 )  
**(43)** 22.02.2024  
**(44)** 11.09.2025  
**(62)** 2020206823  
**(72)** WANG, Biao; KOTRA, Anand Meher; ESENLIK, Semih; GAO, Han; CHEN, Jianle  
**(74)** Spruson & Ferguson

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**(71)** Huawei Technologies Co., Ltd.  
**(11)** AU-B-2024203800  
**(21)** 2024203800 **(22)** 05.06.2024  
**(54)** Data transmission method and apparatus  
**(51)** Int. Cl.  
**H04W 28/02** ( 2009.01 )  
**(43)** 27.06.2024  
**(44)** 11.09.2025  
**(62)** 2021238794  
**(72)** GAN, Ming; HUANG, Guogang; LIANG, Dandan; YU, Jian; LI, Yunbo; GUO, Yuchen; HU, Mengshi  
**(74)** Spruson & Ferguson

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**(71)** HUAWEI TECHNOLOGIES CO., LTD.  
**(11)** AU-B-2022313924  
**(21)** 2022313924 **(22)** 29.06.2022  
**(54)** RADIO FRAME SENDING METHOD AND APPARATUS, AND RADIO FRAME RECEIVING METHOD AND APPARATUS  
**(51)** Int. Cl.  
**H04L 1/00** ( 2006.01 )  
**(87)** WO2023/000941  
**(31)** 202110826539.2 **(32)** 21.07.21 **(33)** CN  
**(43)** 26.01.2023  
**(44)** 11.09.2025  
**(72)** GUO, Yuchen; LI, Yiqing; HUANG, Guogang; LI, Yunbo; GAN, Ming  
**(74)** Halfords IP

**(71)** HUAWEI TECHNOLOGIES CO., LTD.  
**(11)** AU-B-2022330226  
**(21)** 2022330226 **(22)** 17.08.2022  
**(54)** RANDOM ACCESS METHOD AND APPARATUS  
**(51)** Int. Cl.  
**H04W 74/00** ( 2009.01 )  
**H04W 74/08** ( 2009.01 )  
**(87)** WO2023/020542  
**(31)** 202110963322.6 **(32)** 20.08.21 **(33)** CN  
**(43)** 23.02.2023  
**(44)** 11.09.2025  
**(72)** YAN, Mao  
**(74)** Spruson & Ferguson

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**(71)** HUAWEI TECHNOLOGIES CO., LTD.  
**(11)** AU-B-2022388446  
**(21)** 2022388446 **(22)** 08.11.2022  
**(54)** METHOD FOR OBTAINING SECURITY CLASSIFICATION RESULT AND COMMUNICATION APPARATUS  
**(51)** Int. Cl.  
**H04W 12/122** ( 2021.01 )  
**H04W 12/12** ( 2021.01 )  
**(87)** WO2023/083153  
**(31)** 202111331286.8 **(32)** 11.11.21 **(33)** CN  
**(43)** 19.05.2023  
**(44)** 11.09.2025  
**(72)** LEI, Ao; WU, Yizhuang; CUI, Yang; SUN, Taoran  
**(74)** Spruson & Ferguson

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**(71)** HUAWEI TECHNOLOGIES CO., LTD.  
**(11)** AU-B-2022416217  
**(21)** 2022416217 **(22)** 12.12.2022  
**(54)** SIGNAL PROCESSING METHOD AND APPARATUS  
**(51)** Int. Cl.  
**H04L 69/323** ( 2022.01 )  
**(87)** WO2023/109773  
**(31)** 202111521474.7 **(32)** 13.12.21 **(33)** CN  
**(43)** 22.06.2023  
**(44)** 11.09.2025  
**(72)** DU, Rui; ZHOU, Zhengchun; SHEN, Bingsheng; TANG, Xiaohu; LIU, Chenchen; HAN, Xiao  
**(74)** Halfords IP

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**(71)** HUNAN SINOBROOM INTELLIGENT EQUIPMENT CO., LTD.  
**(11)** AU-B-2022434139  
**(21)** 2022434139 **(22)** 13.04.2022  
**(54)** CONTROL METHOD AND CONTROL SYSTEM FOR CONTROLLING RETRACTION OF BOOM, MECHANICAL DEVICE AND STORAGE MEDIUM  
**(51)** Int. Cl.  
**F15B 11/04** ( 2006.01 )  
**B66F 11/04** ( 2006.01 )  
**F15B 13/02** ( 2006.01 )  
**(87)** WO2023/134041  
**(31)** 202210048197.0 **(32)** 17.01.22 **(33)** CN  
**(43)** 20.07.2023  
**(44)** 11.09.2025  
**(72)** ZOU, Junhui; LIU, Guoliang; SHI, Wei  
**(74)** Madderns Pty Ltd

Applications Accepted - Name Index cont'd

- (71) Hydropool Inc.  
 (11) AU-B-2020390446  
 (21) 2020390446 (22) 26.11.2020  
 (54) Swim spa cover  
 (51) Int. Cl.  
*E04H 4/06* ( 2006.01 )  
*A61H 33/00* ( 2006.01 )  
*E04H 4/08* ( 2006.01 )  
*E04H 4/10* ( 2006.01 )
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- (87) WO2021/102575  
 (31) 62/940,464 (32) 26.11.19 (33) US  
 (43) 03.06.2021  
 (44) 11.09.2025  
 (72) MACKAY, Andrew  
 (74) FB Rice Pty Ltd
- 
- (71) I.V.A.R. S.p.A.  
 (11) AU-B-2020223900  
 (21) 2020223900 (22) 10.02.2020  
 (54) Fitting for connecting pipes, in particular flexible pipes  
 (51) Int. Cl.  
*F16L 13/14* ( 2006.01 )  
*F16L 33/207* ( 2006.01 )
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- (87) WO2020/170066  
 (31) 102019000002345 (32) 18.02.19 (33) IT  
 (43) 27.08.2020  
 (44) 11.09.2025  
 (72) BERTOLOTTI, Umberto; CONTINI, Mario  
 (74) GLMR
- 
- (71) I4F Licensing NV  
 (11) AU-B-2021253599  
 (21) 2021253599 (22) 06.04.2021  
 (54) Tile panel, surface covering of a multitude of such tile panels for a floor, ceiling or wall surface  
 (51) Int. Cl.  
*E04F 15/02* ( 2006.01 )  
*E04F 15/10* ( 2006.01 )
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- (87) WO2021/204810  
 (31) 2025283 (32) 06.04.20 (33) NL  
 (43) 14.10.2021  
 (44) 11.09.2025  
 (72) BOUCKÉ, Eddy Alberic  
 (74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD
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- (71) Iconic Therapeutics LLC  
 (11) AU-B-2019205330  
 (21) 2019205330 (22) 04.01.2019  
 (54) Anti-tissue factor antibodies, antibody-drug conjugates, and related methods  
 (51) Int. Cl.  
*C07K 16/36* ( 2006.01 )  
*A61K 39/395* ( 2006.01 )
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- (87) WO2019/136309  
 (31) 62/646,788 (32) 22.03.18 (33) US  
 62/613,545 04.01.18 US  
 62/713,804 02.08.18 US  
 62/713,797 02.08.18 US  
 62/613,564 04.01.18 US  
 (43) 11.07.2019
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- (44) 11.09.2025  
 (72) THEUNISSEN, Jan-Willem; AVERY II, Andrew D.; CAI, Allen G.; COOPER, Anthony Byron; MIGONE, Thi-Sau  
 (74) FB Rice Pty Ltd
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- (71) ICS ICE CLEANING SYSTEMS S.R.O.  
 (11) AU-B-2022398051  
 (21) 2022398051 (22) 23.11.2022  
 (54) A DEVICE FOR ADJUSTING AND METERING OF DRY ICE GRANULATE FOR A DEVICE FOR MIXING SOLID PARTICLES OF DRY ICE WITH A FLOW OF GASEOUS MEDIUM  
 (51) Int. Cl.  
*F25C 5/02* ( 2006.01 )  
*F25C 5/14* ( 2006.01 )  
*B24C 1/00* ( 2006.01 )  
*B24C 7/00* ( 2006.01 )
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- (87) WO2023/096590  
 (31) PP 50060-2021 (32) 23.11.21 (33) SK  
 (43) 01.06.2023  
 (44) 11.09.2025  
 (72) BAKALA, Ludovít; GABRIS, Peter; KUBIS, Ivan  
 (74) P.L. Berry & Associates Ltd
- 
- (71) IDEMIA France  
 (11) AU-B-2019279983  
 (21) 2019279983 (22) 11.12.2019  
 (54) Secure access to encrypted data of a user terminal  
 (51) Int. Cl.  
*G06F 21/62* ( 2013.01 )
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- (31) 1872779 (32) 12.12.18 (33) FR  
 (43) 02.07.2020  
 (44) 11.09.2025  
 (72) HAMOUDA, Mourad; DUMOULIN, Jérôme  
 (74) Griffith Hack
- 
- (71) IDE WATER TECHNOLOGIES LTD  
 (11) AU-B-2022424191  
 (21) 2022424191 (22) 29.12.2022  
 (54) RENEWABLE ENERGY SOURCE USING PRESSURE DRIVEN FILTRATION PROCESSES AND SYSTEMS  
 (51) Int. Cl.  
*C02F 1/461* ( 2023.01 )  
*C02F 1/469* ( 2023.01 )  
*C25B 1/04* ( 2021.01 )  
*C25B 9/19* ( 2021.01 )
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- (87) WO2023/126881  
 (31) 2119106.9 (32) 29.12.21 (33) GB  
 289506 29.12.21 IL  
 2206994.2 13.05.22 GB  
 293000 13.05.22 IL  
 299462 25.12.22 IL  
 (43) 06.07.2023  
 (44) 11.09.2025  
 (72) LIBERMAN, Boris; EFRAT, Tomer  
 (74) MBIP
- 
- (71) IDEXX Laboratories Inc.  
 (11) AU-B-2023286023  
 (21) 2023286023 (22) 28.12.2023
- 
- (54) Laser optics assembly of flow cytometer  
 (51) Int. Cl.  
*G02B 7/02* ( 2021.01 )  
*G02B 19/00* ( 2006.01 )  
*G02B 27/09* ( 2006.01 )  
*G01N 15/14* ( 2006.01 )
- 
- (43) 18.01.2024  
 (44) 11.09.2025  
 (62) 2022200534  
 (72) MISENER, Garland Christian; MOON, Michael Ryan; MCELWAIN, Spencer Franklin; PAPALE, Alan  
 (74) Spruson & Ferguson
- 
- (71) IDS Group  
 (11) AU-B-2019419702  
 (21) 2019419702 (22) 31.12.2019  
 (54) Isotopic marking and identification of liquids  
 (51) Int. Cl.  
*G01N 33/02* ( 2006.01 )  
*A01K 11/00* ( 2006.01 )  
*G06Q 10/08* ( 2012.01 )
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- (87) WO2020/141179  
 (31) 1900017 (32) 02.01.19 (33) FR  
 (43) 09.07.2020  
 (44) 11.09.2025  
 (72) FAUVET, Patrice; MIGEON, Valérie  
 (74) MBIP
- 
- (71) igus GmbH  
 (11) AU-B-2024220087  
 (21) 2024220087 (22) 26.09.2024  
 (54) Device for supplying a consumer  
 (51) Int. Cl.  
*B63J 3/04* ( 2006.01 )  
*E02B 3/20* ( 2006.01 )  
*H02G 11/00* ( 2006.01 )
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 WANG, Zhan  
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**(74)** IP GATEWAY PATENT & TRADE  
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 LTD.; BEIJING YIMIAOYILIAO CO.,  
 LTD.  
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 CELL LINE AND PREPARATION  
 METHOD THEREFOR  
**(51)** Int. Cl.  
**C12N 5/10** ( 2006.01 )  
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 Cuiyun  
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**H04B 10/54** ( 2013.01 )  
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 Amir  
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 CONVERSION OF CARBON DIOXIDE  
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**B01D 53/02** ( 2006.01 )  
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**C25B 1/04** ( 2021.01 )  
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 James  
**(74)** WRAYS PTY LTD

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**(54)** METHOD AND USE  
**(51)** Int. Cl.  
**C10L 1/19** ( 2006.01 )  
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**A61B 5/318** ( 2021.01 )  
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**A61M 60/135** ( 2021.01 )  
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 (72) Geoffrey Guy; Stephen Wright; Alice Mead; Orrin Devinsky  
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**H01M 4/02** ( 2006.01 )  
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**G02B 5/08** ( 2006.01 )  
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(54) METHOD FOR CONSTRUCTING TRIPLE-SHELL TANK  
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**E04H 7/06** ( 2006.01 )  
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(51) Int. Cl.  
**B60L 53/10** ( 2019.01 )  
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**B60L 53/65** ( 2019.01 )  
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**H02J 1/08** ( 2006.01 )  
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(74) JMSD IP Pty Ltd

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**A23L 2/38** ( 2021.01 )  
**A23L 2/00** ( 2006.01 )  
**A23L 2/52** ( 2006.01 )  
**C12N 1/20** ( 2006.01 )  
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**A61P 15/00** ( 2006.01 )  
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**E01H 3/02** ( 2006.01 )  
**E01H 1/00** ( 2006.01 )  
**G05D 1/43** ( 2024.01 )  
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**B66B 19/00** ( 2006.01 )  
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**H04N 19/119** ( 2014.01 )  
**H04N 19/174** ( 2014.01 )  
**H04N 19/176** ( 2014.01 )  
**H04N 19/50** ( 2014.01 )  
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 (54) LIFTER FOR FASTENER DRIVING TOOL  
 (51) Int. Cl.  
 B25C 1/04 ( 2006.01 )  
 B25C 1/06 ( 2006.01 )  
 B25C 1/00 ( 2006.01 )

(87) WO2023/205068  
 (31) 63/331,993 (32) 18.04.22 (33) US  
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(43) 26.10.2023  
 (44) 11.09.2025  
 (72) MCCARDLE, Thomas A.  
 (74) GLMR

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(71) Kyoto University; Takeda Pharmaceutical Company Limited  
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 (21) 2019388011 (22) 29.11.2019  
 (54) Drug delivery system using solution  
 (51) Int. Cl.  
 A61K 48/00 ( 2006.01 )  
 C12N 5/10 ( 2006.01 )  
 C12N 15/09 ( 2006.01 )

(87) WO2020/111229  
 (31) 2018-224965 (32) 30.11.18 (33) JP  
 (43) 04.06.2020  
 (44) 11.09.2025  
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 (74) Griffith Hack

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(71) L'Air Liquide Societe Anonyme Pour L'Etude et L'Exploitation des Procèdes Georges Claude  
 (11) AU-B-2020325952  
 (21) 2020325952 (22) 08.07.2020  
 (54) Refrigeration device and facility  
 (51) Int. Cl.  
 F25J 1/00 ( 2006.01 )  
 F25B 1/053 ( 2006.01 )  
 F25B 1/10 ( 2006.01 )  
 F25B 9/06 ( 2006.01 )  
 F25B 11/04 ( 2006.01 )  
 F25B 31/02 ( 2006.01 )  
 F25J 1/02 ( 2006.01 )  
 F25J 5/00 ( 2006.01 )

(87) WO2021/023455  
 (31) FR1908948 (32) 05.08.19 (33) FR  
 (43) 11.02.2021  
 (44) 11.09.2025  
 (72) DURAND, Fabien; DELAUTRE, Guillaume  
 (74) Phillips Ormonde Fitzpatrick

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(71) Lam, T.T.  
 (11) AU-B-2025203463  
 (21) 2025203463 (22) 14.05.2025  
 (54) VERTICAL RING-BASED FLOATING SOLAR ENERGY SYSTEMS

(51) Int. Cl.  
 B63B 35/00 ( 2020.01 )

(31) EA1A (32) 04.04.25 (33) IB  
 AE98 09.04.25 IB  
 C2CF 22.04.25 IB  
 6B79 29.04.25 IB  
 379E 04.05.25 IB  
 7ACD 06.05.25 IB  
 B185 10.05.25 IB

(43) 11.09.2025  
 (44) 11.09.2025  
 (72) Lam, Thanh Tri  
 (74) Thanh Tri Lam

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(71) Lam, T.T.  
 (11) AU-B-2025203896  
 (21) 2025203896 (22) 26.05.2025  
 (54) NONHORIZONTAL RING-BASED FLOATING SOLAR ENERGY SYSTEMS  
 (51) Int. Cl.  
 B63B 35/44 ( 2006.01 )

(31) C5D9 (32) 25.05.25 (33) IB  
 4A8C 20.05.25 IB

(43) 11.09.2025  
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 (72) Lam, Thanh Tri  
 (74) Thanh Tri Lam

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(71) LAM-X A.S.  
 (11) AU-B-2022391895  
 (21) 2022391895 (22) 14.11.2022  
 (54) ANTIMICROBIAL PHOTOACTIVE NANOFIBROUS POLYMER MATERIAL  
 (51) Int. Cl.  
 A01N 33/18 ( 2006.01 )  
 A01N 25/10 ( 2006.01 )  
 A01N 25/26 ( 2006.01 )  
 A01N 25/34 ( 2006.01 )  
 A01N 35/06 ( 2006.01 )  
 A01N 43/42 ( 2006.01 )  
 A01N 43/84 ( 2006.01 )  
 A01N 43/90 ( 2006.01 )  
 A01N 59/12 ( 2006.01 )  
 A01P 1/00 ( 2006.01 )  
 A61L 2/08 ( 2006.01 )  
 D06M 10/04 ( 2006.01 )  
 D06M 16/00 ( 2006.01 )

(87) WO2023/088507  
 (31) 21208640.9 (32) 16.11.21 (33) EP  
 (43) 25.05.2023  
 (44) 11.09.2025  
 (72) MOSINGER, Jiri; LISKA, Vojtech; KRTENOVA, Petra; HENKE, Petr; CHALOUPKA, Roman  
 (74) PHILLIPS ORMONDE FITZPATRICK

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(71) La Trobe University  
 (11) AU-B-2019389908  
 (21) 2019389908 (22) 29.11.2019  
 (54) Method of identifying a structure  
 (51) Int. Cl.  
 G01N 21/552 ( 2014.01 )  
 B82Y 15/00 ( 2011.01 )  
 G02B 5/00 ( 2006.01 )  
 G02B 21/34 ( 2006.01 )

(87) WO2020/110070  
 (31) 2018904552 (32) 29.11.18 (33) AU  
 (43) 04.06.2020

(44) 11.09.2025  
 (72) ABBEY, Brian; BALAUR, Eugeniu  
 (74) BOSH IP Pty Ltd

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(71) Leo Cancer Care, Inc.  
 (11) AU-B-2024205499  
 (21) 2024205499 (22) 02.08.2024  
 (54) Patient positioning apparatus  
 (51) Int. Cl.  
 A61B 6/04 ( 2006.01 )  
 A61N 5/10 ( 2006.01 )

(43) 22.08.2024  
 (44) 11.09.2025  
 (62) 2018337070  
 (72) FEAIN, Ilana; TOWE, Stephen; STRANGEMAN, Mark  
 (74) Davies Collison Cave Pty Ltd

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(71) LG Electronics Inc.  
 (11) AU-B-2023204339  
 (21) 2023204339 (22) 06.07.2023  
 (54) Refrigerator  
 (51) Int. Cl.  
 F25D 11/00 ( 2006.01 )  
 F25C 1/18 ( 2006.01 )  
 F25C 1/24 ( 2018.01 )  
 F25C 5/02 ( 2006.01 )  
 F25D 25/02 ( 2006.01 )  
 F25D 29/00 ( 2006.01 )

(43) 28.09.2023  
 (44) 11.09.2025  
 (62) 2019354475  
 (72) LEE, Donghoon; LEE, Wookyong; SON, Sunggyun; LEE, Donghoon; YEOM, Seungseob; BAE, Yongjun; PARK, Chongyoung  
 (74) Dentons Patent Attorneys Australasia Limited

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(71) LG Electronics Inc.  
 (11) AU-B-2023204359  
 (21) 2023204359 (22) 06.07.2023  
 (54) REFRIGERATOR  
 (51) Int. Cl.  
 F25D 11/00 ( 2006.01 )  
 F25C 1/18 ( 2006.01 )  
 F25C 1/24 ( 2018.01 )  
 F25C 5/02 ( 2006.01 )  
 F25D 25/02 ( 2006.01 )  
 F25D 29/00 ( 2006.01 )

(43) 27.07.2023  
 (44) 11.09.2025  
 (62) 2019352421  
 (72) LEE, Donghoon; LEE, Wookyong; YEOM, Seungseob; LEE, Donghoon; BAE, Yongjun; SON, Sunggyun; PARK, Chongyoung  
 (74) Dentons Patent Attorneys Australasia Limited

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(71) LG Electronics Inc.  
 (11) AU-B-2023206135  
 (21) 2023206135 (22) 19.07.2023  
 (54) Refrigerator  
 (51) Int. Cl.  
 F25D 11/00 ( 2006.01 )  
 F25C 1/24 ( 2018.01 )

Applications Accepted - Name Index cont'd

**F25C 5/02** ( 2006.01 )  
**F25D 25/02** ( 2006.01 )  
**F25D 29/00** ( 2006.01 )  
**(43)** 10.08.2023  
**(44)** 11.09.2025  
**(62)** 2019352426  
**(72)** LEE, Donghoon; LEE, Donghoon;  
 LEE, Wookyong; YEOM, Seungseob;  
 BAE, Yongjun; SON, Sunggyun; PARK,  
 Chongyoung  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG Electronics Inc.  
**(11)** AU-B-2023206156  
**(21)** 2023206156 **(22)** 19.07.2023  
**(54)** REFRIGERATOR  
**(51)** Int. Cl.  
**F25D 11/00** ( 2006.01 )  
**F25C 1/18** ( 2006.01 )  
**F25C 1/24** ( 2018.01 )  
**F25C 5/02** ( 2006.01 )  
**F25D 25/02** ( 2006.01 )  
**F25D 29/00** ( 2006.01 )

**(43)** 10.08.2023  
**(44)** 11.09.2025  
**(62)** 2019355673  
**(72)** LEE, Donghoon; LEE, Wookyong;  
 PARK, Chongyoung; LEE, Donghoon;  
 YEOM, Seungseob; BAE, Yongjun;  
 SON, Sunggyun  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG Electronics Inc.  
**(11)** AU-B-2024200705  
**(21)** 2024200705 **(22)** 06.02.2024  
**(54)** IMAGE ENCODING/DECODING  
 METHOD, APPARATUS AND METH-  
 OD FOR TRANSMITTING BITSTREAM  
 USING MAXIMUM TRANSFORM SIZE  
 LIMITATION OF CHROMA COMPON-  
 ENT CODING BLOCK

**(51)** Int. Cl.  
**H04N 19/122** ( 2014.01 )  
**H04N 19/176** ( 2014.01 )  
**H04N 19/186** ( 2014.01 )  
**H04N 19/44** ( 2014.01 )  
**H04N 19/593** ( 2014.01 )

**(43)** 22.02.2024  
**(44)** 11.09.2025  
**(62)** 2020303803  
**(72)** LI, Ling; NAM, Jung Hak  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG Electronics Inc.  
**(11)** AU-B-2024201124  
**(21)** 2024201124 **(22)** 21.02.2024  
**(54)** IMAGE DECODING METHOD AND  
 DEVICE FOR DERIVING WEIGHT IN-  
 DEX INFORMATION FOR GENERA-  
 TION OF PREDICTION SAMPLE

**(51)** Int. Cl.  
**H04N 19/527** ( 2014.01 )  
**H04N 19/105** ( 2014.01 )  
**H04N 19/109** ( 2014.01 )  
**H04N 19/132** ( 2014.01 )  
**H04N 19/137** ( 2014.01 )

**H04N 19/176** ( 2014.01 )  
**H04N 19/70** ( 2014.01 )  
**(43)** 14.03.2024  
**(44)** 11.09.2025  
**(62)** 2020293843  
**(72)** PARK, Naeri; NAM, Junghak; JANG,  
 Hyeongmoon  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG Electronics Inc.  
**(11)** AU-B-2024201368  
**(21)** 2024201368 **(22)** 29.02.2024  
**(54)** METHOD AND DEVICE FOR IMAGE  
 CODING USING MOTION VECTOR  
 DIFFERENCES

**(51)** Int. Cl.  
**H04N 19/573** ( 2014.01 )  
**H04N 19/105** ( 2014.01 )  
**H04N 19/109** ( 2014.01 )  
**H04N 19/132** ( 2014.01 )  
**H04N 19/176** ( 2014.01 )  
**H04N 19/513** ( 2014.01 )  
**H04N 19/70** ( 2014.01 )

**(43)** 21.03.2024  
**(44)** 11.09.2025  
**(62)** 2020292097  
**(72)** PARK, Naeri; NAM, Junghak; JANG,  
 Hyeongmoon  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG Electronics Inc.  
**(11)** AU-B-2024204169  
**(21)** 2024204169 **(22)** 19.06.2024  
**(54)** Dishwasher  
**(51)** Int. Cl.  
**A47L 15/48** ( 2006.01 )  
**A47L 15/42** ( 2006.01 )

**(31)** 10-2023-0078905 **(32)** 20.06.23 **(33)** KR  
**(43)** 16.01.2025  
**(44)** 11.09.2025  
**(72)** HWANG, Gyu Han; JU, Byeong Hyeon;  
 JUNG, Chang Yoon  
**(74)** FB Rice Pty Ltd

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**(71)** LG ELECTRONICS INC.  
**(11)** AU-B-2021437878  
**(21)** 2021437878 **(22)** 01.04.2021  
**(54)** NON-ELUTABLE ANTIMICROBIAL  
 GLASS COMPOSITION, AND METH-  
 OD FOR PREPARING ANTIMICROBI-  
 AL GLASS POWDER USING SAME

**(51)** Int. Cl.  
**C03C 3/066** ( 2006.01 )  
**C03C 3/089** ( 2006.01 )  
**C03C 3/097** ( 2006.01 )  
**C03C 12/00** ( 2006.01 )

**(87)** WO2022/211156  
**(43)** 06.10.2022  
**(44)** 11.09.2025  
**(72)** KIM, Namjin; KIM, Daesung; KIM,  
 Young Seok  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

**(71)** LG ELECTRONICS INC.  
**(11)** AU-B-2022215409  
**(21)** 2022215409 **(22)** 07.02.2022  
**(54)** LAUNDRY TREATING APPARATUS  
**(51)** Int. Cl.  
**D06F 58/20** ( 2006.01 )  
**D06F 58/04** ( 2006.01 )  
**D06F 58/24** ( 2006.01 )  
**(87)** WO2022/169319  
**(31)** 10-2021-0017559 **(32)** 08.02.21 **(33)** KR  
**(43)** 11.08.2022  
**(44)** 11.09.2025  
**(72)** BAE, Yeeseok  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG ELECTRONICS INC.  
**(11)** AU-B-2022218062  
**(21)** 2022218062 **(22)** 07.02.2022  
**(54)** LAUNDRY TREATING APPARATUS  
 AND METHOD FOR CONTROLLING  
 THE SAME

**(51)** Int. Cl.  
**D06F 39/00** ( 2020.01 )  
**D06F 33/50** ( 2020.01 )  
**D06F 34/14** ( 2020.01 )  
**D06F 39/08** ( 2006.01 )  
**D06F 58/08** ( 2006.01 )  
**D06F 58/20** ( 2006.01 )  
**D06F 58/24** ( 2006.01 )  
**D06F 58/26** ( 2006.01 )  
**D06F 58/34** ( 2020.01 )

**(87)** WO2022/169320  
**(31)** 10-2021-0017566 **(32)** 08.02.21 **(33)** KR  
 10-2021-0040833 30.03.21 KR  
 10-2021-0089470 08.07.21 KR

**(43)** 11.08.2022  
**(44)** 11.09.2025  
**(72)** YOON, Juhun; HEO, Nameong; JIN,  
 Donghyun; LEE, Manseok; BAE, Jin-  
 woo  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG ELECTRONICS INC.  
**(11)** AU-B-2022224922  
**(21)** 2022224922 **(22)** 25.02.2022  
**(54)** LAUNDRY TREATING APPARATUS  
**(51)** Int. Cl.  
**D06F 58/08** ( 2006.01 )  
**D06F 37/40** ( 2006.01 )  
**D06F 37/42** ( 2006.01 )  
**D06F 58/06** ( 2006.01 )

**(87)** WO2022/182215  
**(31)** 10-2021-0026612 **(32)** 26.02.21 **(33)** KR  
**(43)** 01.09.2022  
**(44)** 11.09.2025  
**(72)** YOON, Juhun; LEE, Jongmin; BAE, Jin-  
 woo; LEE, Manseok  
**(74)** Dentons Patent Attorneys Australasia  
 Limited

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**(71)** LG ELECTRONICS INC.  
**(11)** AU-B-2022306644  
**(21)** 2022306644 **(22)** 08.07.2022  
**(54)** CLEANER STATION  
**(51)** Int. Cl.  
**A47L 9/16** ( 2006.01 )  
**A47L 7/00** ( 2006.01 )

Applications Accepted - Name Index cont'd

**A47L 9/10** ( 2006.01 )  
**A47L 9/14** ( 2006.01 )  
**A47L 9/28** ( 2006.01 )  
**(87)** WO2023/282693  
**(31)** 63/219,881 **(32)** 09.07.21 **(33)** US  
 10-2022-0083895 07.07.22 KR  
**(43)** 12.01.2023  
**(44)** 11.09.2025  
**(72)** KIM, Hanshin; HYUN, Kietak; SONG,  
 Hyunsup; HER, Jonguk  
**(74)** FB Rice Pty Ltd

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**(71)** LG ELECTRONICS INC.  
**(11)** AU-B-2022477090  
**(21)** 2022477090 **(22)** 12.12.2022  
**(54)** LAUNDRY TREATING APPARATUS  
**(51)** Int. Cl.  
**D06F 39/02** ( 2006.01 )  
**(87)** WO2024/101518  
**(31)** 10-2022-0150745 **(32)** 11.11.22 **(33)** KR  
**(43)** 30.05.2024  
**(44)** 11.09.2025  
**(72)** KIM, Younghun; KIM, Kunwoo; JUNG,  
 Sungwoon  
**(74)** FB Rice Pty Ltd

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**(71)** LG Energy Solution, Ltd.  
**(11)** AU-B-2020312301  
**(21)** 2020312301 **(22)** 10.07.2020  
**(54)** Battery rack and power storage appar-  
 atus comprising same  
**(51)** Int. Cl.  
**H01M 10/6567** ( 2014.01 )  
**H01M 10/48** ( 2006.01 )  
**H01M 10/613** ( 2014.01 )  
**H01M 10/627** ( 2014.01 )  
**H01M 10/63** ( 2014.01 )  
**(87)** WO2021/010677  
**(31)** 10-2019-0086397 **(32)** 17.07.19 **(33)** KR  
**(43)** 21.01.2021  
**(44)** 11.09.2025  
**(72)** LEE, Jin-Kyu  
**(74)** FB Rice Pty Ltd

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**(71)** LG Energy Solution, Ltd.  
**(11)** AU-B-2020324234  
**(21)** 2020324234 **(22)** 23.07.2020  
**(54)** Battery management system and bat-  
 tery pack  
**(51)** Int. Cl.  
**H01M 10/48** ( 2006.01 )  
**H01M 10/42** ( 2006.01 )  
**(87)** WO2021/025341  
**(31)** 10-2019-0097000 **(32)** 08.08.19 **(33)** KR  
**(43)** 11.02.2021  
**(44)** 11.09.2025  
**(72)** CHO, Hyun Ki; PARK, Jae Dong; LEE,  
 Keun Wook  
**(74)** FB Rice Pty Ltd

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**(71)** LINDSAY CORPORATION  
**(11)** AU-B-2021351639  
**(21)** 2021351639 **(22)** 21.09.2021  
**(54)** SYSTEM AND METHOD FOR CALIB-  
 RATING AN IRRIGATION SYSTEM  
**(51)** Int. Cl.  
**A01G 25/16** ( 2006.01 )

**A01G 25/09** ( 2006.01 )  
**B05B 12/08** ( 2006.01 )  
**B05B 12/12** ( 2006.01 )  
**(87)** WO2022/072165  
**(31)** 17/060,425 **(32)** 01.10.20 **(33)** US  
**(43)** 07.04.2022  
**(44)** 11.09.2025  
**(72)** RICKETTS, Michael George; MAG-  
 NUSSON, Brain James  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** Lindsay Transportation Solutions, LLC  
**(11)** AU-B-2021297159  
**(21)** 2021297159 **(22)** 21.06.2021  
**(54)** System and method for managing mi-  
 gration of road barriers  
**(51)** Int. Cl.  
**B23Q 7/05** ( 2006.01 )  
**B60P 3/40** ( 2006.01 )  
**E01F 15/00** ( 2006.01 )  
**(87)** WO2021/262578  
**(31)** 16/911,963 **(32)** 25.06.20 **(33)** US  
**(43)** 30.12.2021  
**(44)** 11.09.2025  
**(72)** PROVAZNIK, Richard Edward; DYKE,  
 Gerrit A.; ELMORE, Matthew A.  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**LINGAM, V.S.P.R. see BHUKHANWALA, K.**  
**(21)** 2024220765

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**(71)** Liv Labs Inc.  
**(11)** AU-B-2023266329  
**(21)** 2023266329 **(22)** 16.11.2023  
**(54)** Stress urinary incontinence (SUI)  
 device  
**(51)** Int. Cl.  
**A61F 2/02** ( 2006.01 )  
**A61F 5/44** ( 2006.01 )  
**A61F 5/451** ( 2006.01 )  
**A61F 5/455** ( 2006.01 )  
**A61F 6/08** ( 2006.01 )  
**A61F 13/20** ( 2006.01 )  
**A61F 13/26** ( 2006.01 )  
**(43)** 14.12.2023  
**(44)** 11.09.2025  
**(62)** 2017395751  
**(72)** Carly Rachel PRICE; Eric Justin PRICE  
**(74)** FB Rice Pty Ltd

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**(71)** Loc Performance Products LLC  
**(11)** AU-B-2022291489  
**(21)** 2022291489 **(22)** 21.12.2022  
**(54)** TRACK ASSEMBLY  
**(51)** Int. Cl.  
**B62D 55/30** ( 2006.01 )  
**B62D 55/24** ( 2006.01 )  
**(31)** 18/070,901 **(32)** 29.11.22 **(33)** US  
**(43)** 13.06.2024  
**(44)** 11.09.2025  
**(72)** Franck, Randall F.; Osterholt, Kevin  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** LOGICBIO THERAPEUTICS, INC.  
**(11)** AU-B-2022227005  
**(21)** 2022227005 **(22)** 25.02.2022

**(54)** MANUFACTURING AND USE OF RE-  
 COMBINANT AAV VECTORS  
**(51)** Int. Cl.  
**C12N 15/86** ( 2006.01 )  
**C12N 15/864** ( 2006.01 )  
**(87)** WO2022/182986  
**(31)** 63/154,474 **(32)** 26.02.21 **(33)** US  
 63/234,610 18.08.21 US  
 63/257,036 18.10.21 US  
**(43)** 01.09.2022  
**(44)** 11.09.2025  
**(72)** HEBBEN, Matthias Charles Jerome;  
 LIAO, Jing; WU, Carmen; REUTER,  
 Wilhad Hans; EDWARDS, Thomas  
 Matthew  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** LONGI GREEN ENERGY TECHNO-  
 LOGY CO., LTD.  
**(11)** AU-B-2024335458  
**(21)** 2024335458 **(22)** 17.10.2024  
**(54)** BACK CONTACT SOLAR CELL AND  
 METHOD FOR MANUFACTURING  
 SAME  
**(51)** Int. Cl.  
**H10F 10/10** ( 2025.01 )  
**(31)** 202410111962.8 **(32)** 26.01.24 **(33)** CN  
**(43)** 14.08.2025  
**(44)** 11.09.2025  
**(72)** TONG, Hongbo; LI, Zhenguang; LIU,  
 Qingping; DING, Chao; CHEN, Chen;  
 DONG, Guangbin; HE, Jinhua; ZHANG,  
 Hongchao; YU, Long; XU, Xinxing  
**(74)** Madderns Pty Ltd

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**(71)** MacDon Industries Ltd  
**(11)** AU-B-2024213114  
**(21)** 2024213114 **(22)** 21.08.2024  
**(54)** WEAR-INHIBITING CLIP FOR  
 DRAPER CLEAT OR SLAT OF A  
 CROP HARVESTING HEADER  
**(51)** Int. Cl.  
**A01D 41/14** ( 2006.01 )  
**A01D 43/00** ( 2006.01 )  
**A01D 57/20** ( 2006.01 )  
**(43)** 05.09.2024  
**(44)** 11.09.2025  
**(62)** 2018204353  
**(72)** MARTENS, Kris; GEORGINSON, Ryan;  
 ROGALSKY, Doug  
**(74)** IP GATEWAY PATENT & TRADE  
 MARK ATTORNEYS PTY LTD

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**(71)** Mackool, R.  
**(11)** AU-B-2020333037  
**(21)** 2020333037 **(22)** 21.05.2020  
**(54)** Capsular retractors  
**(51)** Int. Cl.  
**A61F 9/007** ( 2006.01 )  
**A61F 2/16** ( 2006.01 )  
**A61F 9/00** ( 2006.01 )  
**(87)** WO2021/034361  
**(31)** 16/544,300 **(32)** 19.08.19 **(33)** US  
**(43)** 25.02.2021  
**(44)** 11.09.2025  
**(72)** MACKOOL, Richard  
**(74)** FPA Patent Attorneys Pty Ltd

Applications Accepted - Name Index cont'd

(71) Magnetica Limited  
 (11) AU-B-2019429503  
 (21) 2019429503 (22) 22.11.2019  
 (54) Magnets and magnetic resonance imaging systems  
 (51) Int. Cl.  
**G01R 33/3815** ( 2006.01 )  
**A61B 5/055** ( 2006.01 )  
**G01R 33/48** ( 2006.01 )  
**H01F 6/00** ( 2006.01 )  
 (87) WO2020/163892  
 (31) 2019900450 (32) 12.02.19 (33) AU  
 (43) 20.08.2020  
 (44) 11.09.2025  
 (72) LIU, Feng; WEI, Riyu; WEBER, Ewald  
 (74) MBIP

(71) Magnetic Autocontrol GmbH  
 (11) AU-B-2020317454  
 (21) 2020317454 (22) 26.06.2020  
 (54) Access control device and pedestrian gate for same  
 (51) Int. Cl.  
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**E05F 15/611** ( 2015.01 )  
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**F16L 19/02** ( 2006.01 )  
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**F16L 1/12** ( 2006.01 )  
**F16L 1/26** ( 2006.01 )  
**F16L 23/20** ( 2006.01 )  
**F16L 37/00** ( 2006.01 )  
**F16L 37/62** ( 2006.01 )  
**F16L 58/18** ( 2006.01 )  
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**F16C 19/28** ( 2006.01 )  
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**F16C 19/52** ( 2006.01 )  
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**A61P 11/06** ( 2006.01 )  
**A61P 17/00** ( 2006.01 )  
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**A61B 5/11** ( 2006.01 )  
**A61B 5/383** ( 2021.01 )  
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**(51)** Int. Cl.  
**C12M 1/00** ( 2006.01 )  
**A23L 13/00** ( 2016.01 )  
**C12M 3/00** ( 2006.01 )  
**C12N 5/0735** ( 2010.01 )  
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**(74)** Pizeys Patent and Trade Mark Attorneys Pty Ltd

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**(51)** Int. Cl.  
**C12N 5/0789** ( 2010.01 )

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**(74)** FB Rice Pty Ltd

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**(54)** Vehicle mirrors  
**(51)** Int. Cl.  
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**(72)** MILES, Shane  
**(74)** Ahearn Fox

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**(51)** Int. Cl.  
**A61K 31/48** ( 2006.01 )  
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**(74)** FPA Patent Attorneys Pty Ltd

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**(11)** AU-B-2022294861  
**(21)** 2022294861 **(22)** 16.06.2022  
**(54)** An anti-tumor compound and its application  
**(51)** Int. Cl.  
**C07D 491/22** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
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**(74)** FPA Patent Attorneys Pty Ltd

**MINGHUI PHARMACEUTICAL (SHANGHAI) LTD. see MINGHUI PHARMACEUTICAL (HANGZHOU) LTD.**  
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**(11)** AU-B-2022346364  
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**(54)** HYDROGEN SUPPLY SYSTEM, HYDROGEN-CONSUMING PLANT PROVIDED WITH HYDROGEN SUPPLY SYSTEM, AND METHOD FOR SUPPLYING HYDROGEN TO HYDROGEN-CONSUMING DEVICE  
**(51)** Int. Cl.  
**F17C 5/06** ( 2006.01 )  
**C01B 3/00** ( 2006.01 )  
**C01B 3/38** ( 2006.01 )  
**F02M 21/02** ( 2006.01 )

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**(71)** MITSUBISHI TANABE PHARMA CORPORATION; PHARMA FOODS INTERNATIONAL CO., LTD.

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**(54)** NOVEL ANTI-PAD4 ANTIBODY  
**(51)** Int. Cl.  
**C12N 15/13** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )

**A61P 13/12** ( 2006.01 )  
**A61P 19/02** ( 2006.01 )  
**A61P 29/00** ( 2006.01 )  
**A61P 37/02** ( 2006.01 )  
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**A61P 43/00** ( 2006.01 )  
**C07K 16/40** ( 2006.01 )  
**C12N 1/15** ( 2006.01 )  
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**(51)** Int. Cl.

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**B05D 7/00** ( 2006.01 )  
**B32B 27/18** ( 2006.01 )  
**B32B 27/20** ( 2006.01 )  
**B32B 27/30** ( 2006.01 )  
**B65D 55/02** ( 2006.01 )  
**C07C 63/08** ( 2006.01 )  
**C09D 11/322** ( 2014.01 )  
**C09D 11/328** ( 2014.01 )  
**C09D 11/38** ( 2014.01 )  
**C09D 129/04** ( 2006.01 )  
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**C11D 17/04** ( 2006.01 )  
**H01M 50/116** ( 2021.01 )  
**H01M 50/124** ( 2021.01 )

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**(71)** Monsanto Technology LLC  
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**(54)** Novel insect inhibitory proteins  
**(51)** Int. Cl.

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**A01H 5/10** ( 2018.01 )  
**A01N 37/18** ( 2006.01 )  
**C07K 1/107** ( 2006.01 )  
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*C12N 5/04* ( 2006.01 )  
*C12N 9/02* ( 2006.01 )  
*C12N 15/82* ( 2006.01 )  
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*H04L 45/48* ( 2022.01 )  
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 (54) Nutritional composition comprising 2'fucosyllactose and dietary butyrate

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*A23L 33/00* ( 2016.01 )  
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*A61K 31/19* ( 2006.01 )  
*A61K 31/702* ( 2006.01 )  
*A23C 9/20* ( 2006.01 )  
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 (72) POTAPPEL - van 't LAND, Belinda; RENES, Ingrid Brunhilde; WI-ERTSEMA, Selma Paulien; THOMASSEN, Gabriël; OVERBEEK, Saskia Adriana; BEN AMOR, Kaouther; BRABER, Saskia  
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*A23L 33/10* ( 2016.01 )  
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*A61K 31/19* ( 2006.01 )  
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*F03D 13/10* ( 2016.01 )  
*E04H 12/10* ( 2006.01 )  
*E04H 12/18* ( 2006.01 )  
*F03D 13/20* ( 2016.01 )  
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 (74) LAMINAR IP PTY LTD

- National University Corporation Tokyo Medical and Dental University see FUJIFILM CORPORATION  
 (21) 2021432587

- (71) National University of Singapore  
 (11) AU-B-2025205147  
 (21) 2025205147 (22) 04.07.2025  
 (54) Blockade of CD7 expression and chimeric antigen receptors for immunotherapy of T-cell malignancies  
 (51) Int. Cl.  
*C12N 5/0783* ( 2010.01 )  
*A61K 35/17* ( 2015.01 )  
*C07K 16/28* ( 2006.01 )  
*C12N 5/10* ( 2006.01 )  
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 (72) Campana, Dario; Vinanica, Natasha; Kamiya, Takahiro; Png, Yi Tian  
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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 (51) Int. Cl.  
*A61K 31/519* ( 2006.01 )  
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*A61K 9/19* ( 2006.01 )  
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*A61K 45/06* ( 2006.01 )  
*A61K 47/42* ( 2017.01 )  
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 (72) ZISAPEL, Nava; LAUDON, Moshe  
 (74) FPA Patent Attorneys Pty Ltd

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 (11) AU-B-2023421988  
 (21) 2023421988 (22) 05.12.2023  
 (54) BEARING AND BEARING LINER  
 (51) Int. Cl.  
*F16C 17/02* ( 2006.01 )  
*B32B 15/04* ( 2006.01 )  
*B32B 15/08* ( 2006.01 )  
*F16C 17/04* ( 2006.01 )  
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 (31) 18/151,111 (32) 06.01.23 (33) US  
 (43) 11.07.2024  
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 (72) SOELCH, Richard R.; LEWIS, Brandyn Duane; DREW, Grant A.  
 (74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD



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 (11) AU-B-2023210497  
 (21) 2023210497 (22) 18.01.2023  
 (54) DEVICE FOR ADAPTIVE TREATMENT OF NEUROLOGICAL DISEASES AND METHOD FOR CONTROLLING A DEVICE FOR ADAPTIVE TREATMENT OF NEUROLOGICAL DISEASES  
 (51) Int. Cl.  
**A61N 1/36** ( 2006.01 )  
**A61B 5/00** ( 2006.01 )  
**A61B 5/37** ( 2021.01 )  
**A61B 5/374** ( 2021.01 )  
**A61B 5/383** ( 2021.01 )  
 A61N 1/05 ( 2006.01 )  
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 (31) 10202200000965 (32) 20.01.22 (33) IT  
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 (72) ROSSI, Lorenzo; ARLOTTI, Mattia  
 (74) FPA Patent Attorneys Pty Ltd

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 (21) 2019414430 (22) 26.12.2019  
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 (51) Int. Cl.  
**F16K 1/00** ( 2006.01 )  
**F16K 1/38** ( 2006.01 )  
**F16K 15/00** ( 2006.01 )  
**F16K 31/26** ( 2006.01 )  
**F17C 5/02** ( 2006.01 )  
 (87) WO2020/139912  
 (31) 16/235,157 (32) 28.12.18 (33) US  
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 (72) DANIELS, Mia; KOLONSKY, Kevin  
 (74) FB Rice Pty Ltd

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 (54) ELECTROCHEMICAL DEVICE AND ELECTRONIC DEVICE  
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**H01M 4/02** ( 2006.01 )  
**H01M 4/505** ( 2010.01 )  
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**A61K 9/00** ( 2006.01 )  
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**A61K 47/10** ( 2017.01 )  
**A61P 27/14** ( 2006.01 )  
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**B60G 5/01** ( 2006.01 )  
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**A61M 27/00** ( 2006.01 )  
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**H02J 7/00** ( 2006.01 )  
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(71) OJI HOLDINGS CORPORATION  
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**B41M 5/26** ( 2006.01 )  
**D21H 19/38** ( 2006.01 )  
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 of for preventing or treating nonalcohol-  
 ic steatohepatitis, obesity and diabetes  
 (51) Int. Cl.  
**A61K 47/64** ( 2017.01 )  
**A61K 38/16** ( 2006.01 )  
**A61K 38/18** ( 2006.01 )  
**A61K 38/20** ( 2006.01 )  
**A61K 38/22** ( 2006.01 )  
**A61K 38/26** ( 2006.01 )  
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 (74) Pizeys Patent and Trade Mark Attor-  
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 (11) AU-B-2022396005  
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 (54) METHOD FOR PRODUCING SHAPED  
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 PAPER, AND DEVICE FOR THE PRO-  
 DUCATION THEREOF  
 (51) Int. Cl.  
**D21J 3/00** ( 2006.01 )  
**B29C 51/08** ( 2006.01 )  
**B65D 65/46** ( 2006.01 )  
**D21J 5/00** ( 2006.01 )  
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**B60R 16/03** ( 2006.01 )  
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 (54) Infusion device for continuous glucose  
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 (51) Int. Cl.  
**A61B 5/145** ( 2006.01 )  
**A61M 5/142** ( 2006.01 )  
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(71) PARITY QUANTUM COMPUTING  
 GMBH  
 (11) AU-B-2022443191  
 (21) 2022443191 (22) 23.02.2022  
 (54) METHOD OF PERFORMING A  
 QUANTUM COMPUTATION, AP-  
 PARATUS FOR PERFORMING A  
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 (51) Int. Cl.  
**G06N 5/00** ( 2023.01 )  
**G06N 10/20** ( 2022.01 )  
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**A01H 1/02** ( 2006.01 )  
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**C12N 15/113** ( 2010.01 )  
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**A63B 71/06** ( 2006.01 )  
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 (54) Beverage container  
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**B65D 1/40** ( 2006.01 )  
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 (74) Allens Patent & Trade Mark Attorneys

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     **C07D 487/04** ( 2006.01 )  
     **A61K 31/496** ( 2006.01 )  
     **A61P 9/12** ( 2006.01 )  
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 (74) FPA Patent Attorneys Pty Ltd

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     **B23K 37/04** ( 2006.01 )  
     **B21F 27/12** ( 2006.01 )  
     **B25B 11/02** ( 2006.01 )  
     **E04C 5/01** ( 2006.01 )  
     **E04C 5/04** ( 2006.01 )  
     **E04C 5/06** ( 2006.01 )  
     **E21D 11/10** ( 2006.01 )  
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 (51) Int. Cl.  
     **A61K 31/05** ( 2006.01 )  
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 (74) Pizzeyes Patent and Trade Mark Attorneys Pty Ltd

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 (51) Int. Cl.  
     **C08G 18/32** ( 2006.01 )  
     **C08G 18/42** ( 2006.01 )  
     **C08G 18/62** ( 2006.01 )  
     **C08G 18/65** ( 2006.01 )  
     **C08G 18/79** ( 2006.01 )  
     **C09D 5/36** ( 2006.01 )  
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 (54) Fusion constructs and methods of using thereof  
 (51) Int. Cl.  
     **A61K 38/00** ( 2006.01 )  
     **C07K 16/30** ( 2006.01 )  
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 (31) 62/695,623 (32) 09.07.18 (33) US  
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 (72) SABZEVARI, Helen; METENOU, Simon; CHEN, ChangHung; SHAH, Rutul R.  
 (74) Spruson & Ferguson

(71) President and Fellows of Harvard College  
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 (21) 2022263471 (22) 31.10.2022  
 (54) Small molecules for mouse satellite cell proliferation  
 (51) Int. Cl.  
     **A61K 31/553** ( 2006.01 )  
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     **A61K 31/7076** ( 2006.01 )  
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 (74) Spruson & Ferguson

(71) Primozone Production AB  
 (11) AU-B-2020227180  
 (21) 2020227180 (22) 24.02.2020  
 (54) A low frequency ozone generator  
 (51) Int. Cl.  
     **H05H 1/48** ( 2006.01 )  
     **H01F 27/00** ( 2006.01 )  
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 (31) 19159104.9 (32) 25.02.19 (33) EP  
 (43) 03.09.2020  
 (44) 11.09.2025  
 (72) SCOTT, Mikael  
 (74) FPA Patent Attorneys Pty Ltd

(71) Promptu Systems Corporation  
 (11) AU-B-2023258338  
 (21) 2023258338 (22) 31.10.2023  
 (54) SYSTEMS AND METHODS FOR ADAPTIVE PROPER NAME ENTITY RECOGNITION AND UNDERSTANDING  
 (51) Int. Cl.  
     **G10L 15/08** ( 2006.01 )  
     **G06F 40/20** ( 2020.01 )  
     **G06N 20/00** ( 2019.01 )  
     **G10L 15/07** ( 2013.01 )  
     **G10L 15/22** ( 2006.01 )  
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 (43) 25.01.2024  
 (44) 11.09.2025  
 (62) 2018365166  
 (72) Harry William PRINTZ  
 (74) RnB IP Pty Ltd

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS  
 (11) AU-B-2023446728  
 (21) 2023446728 (22) 27.07.2023

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(54) NICKEL LATERITE ORE HIGH-PRESSURE LEACHING RESIDENCE TIME OPTIMIZATION SYSTEM

(51) Int. Cl.  
**C22B 3/06** ( 2006.01 )  
**C22B 23/00** ( 2006.01 )  
**G05D 7/00** ( 2006.01 )

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(44) 11.09.2025

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(74) Madderns Pty Ltd

**PT GEM INDONESIA NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL**

(21) 2023446728

**PT QMB NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL**

(21) 2023446728

(71) QILU UNIVERSITY OF TECHNOLOGY#SHANDONG ACADEMY OF SCIENCES#

(11) AU-B-2024287082

(21) 2024287082 (22) 20.12.2024

(54) METHOD AND SYSTEM FOR CONTROLLING ATTITUDE OF QUADROTOR AIRCRAFT BASED ON NEURAL NETWORK

(51) Int. Cl.  
**G06N 3/045** ( 2023.01 )  
**G05B 13/02** ( 2006.01 )  
**G05D 1/49** ( 2024.01 )  
**G06N 7/08** ( 2006.01 )

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(43) 11.09.2025

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(74) Collison & Co

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(11) AU-B-2022399647

(21) 2022399647 (22) 21.10.2022

(54) AGING DRAWER FOR REFRIGERATION APPARATUS, AND REFRIGERATION APPARATUS

(51) Int. Cl.  
**F25D 25/02** ( 2006.01 )  
**A23B 4/06** ( 2006.01 )  
**A23L 13/10** ( 2016.01 )  
**A23L 13/70** ( 2023.01 )  
**F25D 11/02** ( 2006.01 )  
**F25D 17/08** ( 2006.01 )  
**F25D 23/12** ( 2006.01 )

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(71) QTS Holdings, LLC

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(54) Method for collision avoidance in transfer of network packets

(51) Int. Cl.  
**H04L 12/28** ( 2006.01 )  
**G08C 17/02** ( 2006.01 )  
**H04B 1/50** ( 2006.01 )

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(71) Qualcomm Incorporated

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(51) Int. Cl.  
**H04W 74/08** ( 2009.01 )  
**H04L 1/18** ( 2006.01 )

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(21) 2023236294 (22) 25.09.2023

(54) MULTIPLE HISTORY BASED NON-ADJACENT MVPs FOR WAVEFRONT PROCESSING OF VIDEO CODING

(51) Int. Cl.  
**H04N 19/436** ( 2014.01 )  
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(54) Device for, and method of, neuromodulation with closed-loop micromagnetic hybrid waveforms to relieve pain

(51) Int. Cl.  
**A61N 1/05** ( 2006.01 )  
**A61N 1/36** ( 2006.01 )  
**A61N 1/40** ( 2006.01 )

**A61N 2/00** ( 2006.01 )

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(72) REILLY, Thomas

(74) Oxygene IP

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(21) 2019373095 (22) 31.10.2019

(54) Apparatus and process for the continuous steam distillation of sandalwood

(51) Int. Cl.  
**C11B 9/02** ( 2006.01 )  
**B01D 3/38** ( 2006.01 )

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**A61P 35/00** ( 2006.01 )  
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**G01N 33/74** ( 2006.01 )  
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**H04L 12/28** ( 2006.01 )  
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 (51) Int. Cl.  
**B60P 3/34** ( 2006.01 )  
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**B62D 63/06** ( 2006.01 )  
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 (11) AU-B-2024200892  
 (21) 2024200892 (22) 13.02.2024  
 (54) A check valve, associated downhole  
 data collection system and inner core  
 barrel assembly  
 (51) Int. Cl.  
**F16K 15/02** ( 2006.01 )  
**E21B 10/02** ( 2006.01 )  
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 tions and methods of use thereof  
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**F16L 37/092** ( 2006.01 )  
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**G02B 6/44** ( 2006.01 )  
 (87) WO2021/005319  
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 (51) Int. Cl.  
**A61K 47/68** ( 2017.01 )  
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 (51) Int. Cl.  
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**H01H 27/00** ( 2006.01 )  
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 (54) ADJUSTABLE BENCH  
 (51) Int. Cl.  
**A63B 21/00** ( 2006.01 )  
**A47C 11/00** ( 2006.01 )  
**A47C 15/00** ( 2006.01 )  
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 and/or characterizing a user interface  
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**G08C 17/02** ( 2006.01 )  
**B60H 1/00** ( 2006.01 )  
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**B60J 7/19** ( 2006.01 )  
**B60J 7/12** ( 2006.01 )  
**B60P 3/32** ( 2006.01 )  
**E05C 1/04** ( 2006.01 )  
**E05F 11/02** ( 2006.01 )  
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**B01D 53/14** ( 2006.01 )  
**B01D 53/22** ( 2006.01 )  
**C25B 1/042** ( 2021.01 )  
**C25B 1/23** ( 2021.01 )  
**C01F 5/24** ( 2006.01 )  
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 (74) Gary John William Ross

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**H01M 8/18** ( 2006.01 )  
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**B62D 33/077** ( 2006.01 )  
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**B62D 33/02** ( 2006.01 )  
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 (74) Patenteur Pty Ltd

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**A61K 31/47** ( 2006.01 )  
**A61P 37/00** ( 2006.01 )  
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**E05C 3/12** ( 2006.01 )  
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**E05B 65/00** ( 2006.01 )  
**E05C 3/22** ( 2006.01 )  
**E05C 19/16** ( 2006.01 )  
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**C07J 5/00** ( 2006.01 )  
**A61K 31/57** ( 2006.01 )  
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**A61K 31/58** ( 2006.01 )  
**A61P 25/00** ( 2006.01 )  
**C07J 7/00** ( 2006.01 )  
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*E04B 1/04* ( 2006.01 )  
*E04B 1/24* ( 2006.01 )  
*E04B 1/38* ( 2006.01 )  
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 (54) Apparatus and method for encoding and decoding motion information by using neighboring motion information  
 (51) Int. Cl.  
*H04N 19/513* ( 2014.01 )  
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*A47L 9/28* ( 2006.01 )  
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 (21) 2024202190 (22) 05.04.2024  
 (54) METHOD FOR ENCODING AND DECODING MOTION INFORMATION AND DEVICE FOR ENCODING AND DECODING MOTION INFORMATION  
 (51) Int. Cl.  
*H04N 19/139* ( 2014.01 )  
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**F16L 55/46** ( 2006.01 )  
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**B60K 15/03** ( 2006.01 )  
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**B25F 5/02** ( 2006.01 )  
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**A23D 9/007** ( 2006.01 )  
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**A61K 38/01** ( 2006.01 )  
**A23C 21/00** ( 2006.01 )  
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**A61K 9/51** ( 2006.01 )  
**A61K 35/20** ( 2006.01 )  
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**C07C 215/68** ( 2006.01 )  
**C07F 9/09** ( 2006.01 )  
**C07F 9/24** ( 2006.01 )  
**C07F 9/572** ( 2006.01 )  
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*A01N 25/02* ( 2006.01 )  
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*A01N 59/26* ( 2006.01 )  
*C05B 15/00* ( 2006.01 )  
 (43) 16.11.2023

(44) 11.09.2025  
 (62) 2021269338  
 (72) Thompson, Brian M.; Augustin, Jorg  
 (74) Pizzzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Spogen Biotech Inc.  
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 (21) 2023226743 (22) 07.09.2023  
 (54) Methods for promoting plant health using free enzymes and microorganisms that overexpress enzymes  
 (51) Int. Cl.  
*A01N 25/02* ( 2006.01 )  
*A01N 57/12* ( 2006.01 )  
*A01N 59/26* ( 2006.01 )  
*C05B 15/00* ( 2006.01 )  
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 (72) Thompson, Brian M.; Augustin, Jorg  
 (74) Pizzzeys Patent and Trade Mark Attorneys Pty Ltd

(71) Subsea 7 Norway AS  
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 (54) Generating electrical power underwater  
 (51) Int. Cl.  
*F03B 13/06* ( 2006.01 )  
 (87) WO2020/084150  
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 (43) 30.04.2020  
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 (72) KLOSTER, Ernst Kristen Helgøy; JUHLIN, Rasmus Asp  
 (74) Allens Patent & Trade Mark Attorneys

(71) Suez International  
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 (54) An improved method for evaluating pipe condition  
 (51) Int. Cl.  
*G01N 29/04* ( 2006.01 )  
*F17D 5/06* ( 2006.01 )  
*G01M 3/00* ( 2006.01 )  
*G01M 3/24* ( 2006.01 )  
*G01M 3/28* ( 2006.01 )  
*G01N 27/28* ( 2006.01 )  
*G06N 3/12* ( 2006.01 )  
*G06N 5/00* ( 2006.01 )  
*G06N 20/00* ( 2019.01 )  
*G06N 20/20* ( 2019.01 )

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 (31) 18306777.6 (32) 20.12.18 (33) EP  
 (43) 25.06.2020  
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 (72) CLAUDIO, Karim; LECLERC, Cyril  
 (74) FB Rice Pty Ltd

(71) Sulzer Management AG  
 (11) AU-B-2020368580  
 (21) 2020368580 (22) 28.09.2020  
 (54) Structured packing element with reduced material requirement

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**B01J 19/32** ( 2006.01 )  
**(87)** WO2021/073860  
**(31)** 19202985.8 **(32)** 14.10.19 **(33)** EP  
**(43)** 22.04.2021  
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**(72)** WEHRLI, Marc; AUSNER, Ilija; KEHRER, Florian; DUSS, Markus  
**(74)** Spruson & Ferguson

**(71)** SUMITOMO SHI FW ENERGIA OY  
**(11)** AU-B-2021471099  
**(21)** 2021471099 **(22)** 01.11.2021  
**(54)** A FLUIDIZED BED REACTOR FOR CONTINUOUS GENERATION OF THERMOCHEMICAL HEAT ENERGY AND CORRESPONDING METHOD AND SYSTEM

(51) Int. Cl.  
**B01J 4/00** ( 2006.01 )  
**B01J 8/00** ( 2006.01 )  
**B01J 8/18** ( 2006.01 )  
**B01J 15/00** ( 2006.01 )  
**B01J 16/00** ( 2006.01 )  
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**(72)** ROSNELL, Teemu  
**(74)** Griffith Hack

**(71)** Sun, H.; WU, K.; McNicol, J.  
**(11)** AU-B-2020259189  
**(21)** 2020259189 **(22)** 20.03.2020  
**(54)** Synchronization for subcarrier communication

(51) Int. Cl.  
**H04B 10/40** ( 2013.01 )  
**H04B 10/50** ( 2013.01 )  
**H04B 10/61** ( 2013.01 )  
**H04J 14/02** ( 2006.01 )  
**H04L 7/00** ( 2006.01 )  
**H04L 7/033** ( 2006.01 )  
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**(31)** 62/836,354 **(32)** 19.04.19 **(33)** US  
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**(72)** SUN, Han H.; WU, Kuang-Tsan; MCNICOL, John D.  
**(74)** Spruson & Ferguson

**(71)** SUNGROW (SHANGHAI) CO., LTD.  
**(11)** AU-B-2023263498  
**(21)** 2023263498 **(22)** 09.11.2023  
**(54)** Communication method, apparatus and system  
**(51)** Int. Cl.  
**G06F 16/24** ( 2019.01 )  
**H04L 12/403** ( 2006.01 )  
**(31)** 202310120834.5 **(32)** 15.02.23 **(33)** CN  
**(43)** 29.08.2024  
**(44)** 11.09.2025  
**(72)** Gan Zhang; Keliang Yao; Yi He; Yu Yang  
**(74)** Davies Collison Cave Pty Ltd

**(71)** Sun Pharmaceutical Industries Limited  
**(11)** AU-B-2020369236  
**(21)** 2020369236 **(22)** 23.10.2020  
**(54)** A stable parenteral dosage form of cetorelix acetate  
**(51)** Int. Cl.  
**A61K 9/08** ( 2006.01 )  
**A61K 38/09** ( 2006.01 )  
**A61K 47/12** ( 2006.01 )  
**A61P 15/00** ( 2006.01 )  
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**(31)** 201921043355 **(32)** 24.10.19 **(33)** IN  
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**(74)** Phillips Ormonde Fitzpatrick

**(71)** Sun Pharmaceutical Industries Limited  
**(11)** AU-B-2022203135  
**(21)** 2022203135 **(22)** 11.05.2022  
**(54)** TOPICAL CYCLOSPORINE-CONTAINING FORMULATIONS AND USES THEREOF  
**(51)** Int. Cl.  
**A61K 38/13** ( 2006.01 )  
**A61P 27/02** ( 2006.01 )  
**(43)** 02.06.2022  
**(44)** 11.09.2025  
**(62)** 2017227585  
**(72)** Weiss, Sidney L.; Mitra, Ashim K.; McNally, Eugene J.  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** Sunray Scientific, LLC  
**(11)** AU-B-2023274124  
**(21)** 2023274124 **(22)** 29.11.2023  
**(54)** SYSTEM AND METHOD FOR IMPROVED ELECTRONIC COMPONENT INTERCONNECTIONS  
**(51)** Int. Cl.  
**H05K 3/32** ( 2006.01 )  
**H05K 3/00** ( 2006.01 )  
**H05K 13/00** ( 2006.01 )  
**(43)** 21.12.2023  
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**(62)** 2018368939  
**(72)** Andrew STEMMERMANN  
**(74)** Pizzeyes Patent and Trade Mark Attorneys Pty Ltd

**(71)** Sunshine Lake Pharma Co., Ltd.  
**(11)** AU-B-2020281378  
**(21)** 2020281378 **(22)** 28.05.2020  
**(54)** Anti-TrkA antibodies and uses thereof  
**(51)** Int. Cl.  
**C07K 16/28** ( 2006.01 )  
**A61K 39/395** ( 2006.01 )  
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**(43)** 03.12.2020  
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**(74)** MINTER ELLISON

**(71)** Sunstar Engineering Inc.  
**(11)** AU-B-2020245761  
**(21)** 2020245761 **(22)** 04.02.2020  
**(54)** Rotation transmission disk  
**(51)** Int. Cl.  
**F16D 13/64** ( 2006.01 )  
**F16D 65/12** ( 2006.01 )  
**F16H 55/30** ( 2006.01 )  
**(87)** WO2020/195179  
**(31)** 2019-054374 **(32)** 22.03.19 **(33)** JP  
**(43)** 01.10.2020  
**(44)** 11.09.2025  
**(72)** KUBOTA, Satoshi; MURAYAMA, Yuki  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** Sunstar Engineering Inc.  
**(11)** AU-B-2020247974  
**(21)** 2020247974 **(22)** 02.03.2020  
**(54)** Brake disc  
**(51)** Int. Cl.  
**B62L 1/00** ( 2006.01 )  
**F16D 65/12** ( 2006.01 )  
**(87)** WO2020/195561  
**(31)** 2019-054376 **(32)** 22.03.19 **(33)** JP  
**(43)** 01.10.2020  
**(44)** 11.09.2025  
**(72)** KUBOTA, Satoshi  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** SUPER FOODS NEW ZEALAND LIMITED  
**(11)** AU-B-2022203945  
**(21)** 2022203945 **(22)** 07.06.2022  
**(54)** Krill oil soft capsule with high phospholipid content and preparation method thereof  
**(51)** Int. Cl.  
**A61K 9/48** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
**A61K 35/612** ( 2015.01 )  
**(31)** 788932 **(32)** 31.05.22 **(33)** NZ  
**(43)** 14.12.2023  
**(44)** 11.09.2025  
**(72)** Wu, Yue  
**(74)** Qian Wang

**(71)** Support Technologies Innovations Pty Ltd  
**(11)** AU-B-2020213604  
**(21)** 2020213604 **(22)** 23.01.2020  
**(54)** Rock bolt  
**(51)** Int. Cl.  
**E21D 21/00** ( 2006.01 )  
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**(43)** 06.08.2020  
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**(74)** SPICER SPICER PTY LTD

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 (11) AU-B-2019438812  
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 (54) An adjustable wheelchair seat cushion apparatus  
 (51) Int. Cl.  
     A47C 31/00 ( 2006.01 )  
     A47C 16/00 ( 2006.01 )  
     A47C 20/02 ( 2006.01 )  
     A47C 27/08 ( 2006.01 )  
     A61G 5/10 ( 2006.01 )  
     B68G 5/00 ( 2006.01 )  
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 (43) 08.10.2020  
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 (51) Int. Cl.  
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     C09K 3/32 ( 2006.01 )  
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 (72) FROESE, Hank; MOTA, Joaquin; COOLEY, Brian  
 (74) GLMR

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 (54) Paper sheet and method of making it  
 (51) Int. Cl.  
     A24D 1/02 ( 2006.01 )  
     A24D 3/06 ( 2006.01 )  
     A24D 3/10 ( 2006.01 )  
     D21H 13/08 ( 2006.01 )  
     D21H 13/12 ( 2006.01 )  
     D21H 13/14 ( 2006.01 )  
     D21H 13/16 ( 2006.01 )  
     D21H 13/18 ( 2006.01 )  
     D21H 13/22 ( 2006.01 )  
     D21H 13/24 ( 2006.01 )  
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     D21H 17/17 ( 2006.01 )  
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 (72) PAN, Jiayi; GUILCHET, Patrick  
 (74) GLMR

(71) Syngenta Crop Protection AG; The State of Israel, Ministry of Agriculture & Rural Development, Agricultural Research Organization (ARO) (Volcani Center)  
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 (21) 2019360344 (22) 11.10.2019  
 (54) Tomato plant producing fruits with modified sugar content  
 (51) Int. Cl.  
     A01H 5/08 ( 2018.01 )  
     A01H 6/82 ( 2018.01 )  
     C12N 9/24 ( 2006.01 )  
     C12Q 1/6895 ( 2018.01 )  
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 (54) Compositions and methods for driving T1 event diversity  
 (51) Int. Cl.  
     A01H 1/04 ( 2006.01 )  
     A01H 1/08 ( 2006.01 )  
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     C12N 9/18 ( 2006.01 )  
     C12N 15/82 ( 2006.01 )  
     C12Q 1/68 ( 2018.01 )  
     C12Q 1/6895 ( 2018.01 )  
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 (74) Davies Collison Cave Pty Ltd

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(71) Syngenta Crop Protection AG  
 (11) AU-B-2023209649  
 (21) 2023209649 (22) 31.07.2023  
 (54) COMPOUNDS AND COMPOSITIONS HAVING KNOCK-DOWN OR BLOOD FEED INHIBITION ACTIVITY AGAINST INSECT PESTS  
 (51) Int. Cl.  
     A01N 43/40 ( 2006.01 )  
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     A01N 43/54 ( 2006.01 )  
     A01N 43/82 ( 2006.01 )  
     A01N 43/88 ( 2006.01 )  
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 (72) Hueter, Ottmar Franz; Hoppe, Mark; Maienfisch, Peter; Wege, Philip; Piterna, Thomas; Boeger, Manfred  
 (74) Davies Collison Cave Pty Ltd

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 (11) AU-B-2022269255  
 (21) 2022269255 (22) 03.05.2022  
 (54) USE OF CLETHODIM FOR INSECT CONTROL  
 (51) Int. Cl.  
     A01N 35/10 ( 2006.01 )  
 (87) WO2022/233869  
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 (72) SENN, Robert; BUCHHOLZ, Anke  
 (74) Davies Collison Cave Pty Ltd

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 (21) 2019388011

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 (11) AU-B-2022203180  
 (21) 2022203180 (22) 12.05.2022  
 (54) Plasma kallikrein inhibitors and uses thereof for preventing hereditary angioedema attack  
 (51) Int. Cl.  
     C07K 16/40 ( 2006.01 )  
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 (74) Spruson & Ferguson

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(71) Takeda Vaccines, Inc.  
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 (51) Int. Cl.  
     A61K 39/295 ( 2006.01 )  
     A61K 39/00 ( 2006.01 )  
     A61K 39/12 ( 2006.01 )  
     A61K 39/125 ( 2006.01 )  
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 (72) WALLACE, Derek; LEFEVRE, Inge  
 (74) WRAYS PTY LTD

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 (11) AU-B-2019361734  
 (21) 2019361734 (22) 16.10.2019  
 (54) A rotatable bucket wheel assembly and a method for refurbishing an associated bucket wheel reclaimers  
 (51) Int. Cl.  
     E02F 3/24 ( 2006.01 )

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**B65G 65/16** ( 2006.01 )  
**E02F 9/00** ( 2006.01 )  
**(87)** WO2020/077402  
**(31)** 2018903907 **(32)** 16.10.18 **(33)** AU  
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**(43)** 23.04.2020  
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**(72)** DE WET, Gustav; NITSCHKE, Heinz;  
 HORN, Dirk; MAAS, Jochen; DOR-  
 RINGTON, Andrew; PLETZ, Rudolf;  
 SMAJLOVIC, Belmin; DÖSINGER,  
 Lukas; SCHLIMME, Wolfgang;  
 NEUFELDT, Patrick; MUNDIK, Peter;  
 MARKOVIC, Miodrag; PETACK,  
 Burkhard; RADICI, Anthony  
**(74)** Griffith Hack

**(71)** Ted R. Dimitroff  
**(11)** AU-B-2024204166  
**(21)** 2024204166 **(22)** 19.06.2024  
**(54)** NON-DISRUPTIVE UNDERGROUND  
 PIPE REPLACEMENT PROCESS  
**(51)** Int. Cl.  
**F16L 1/028** ( 2006.01 )  
**E03B 1/02** ( 2006.01 )  
**E03B 7/02** ( 2006.01 )  
**(31)** 63/508970 **(32)** 19.06.23 **(33)** US  
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**(44)** 11.09.2025  
**(72)** Dimitroff, Ted R.  
**(74)** Davies Collison Cave Pty Ltd

**(71)** TerraPower, LLC  
**(11)** AU-B-2020272144  
**(21)** 2020272144 **(22)** 13.04.2020  
**(54)** Nuclear thermal plant with load-follow-  
 ing power generation  
**(51)** Int. Cl.  
**G21D 1/00** ( 2006.01 )  
**F01K 3/18** ( 2006.01 )  
**F28D 20/00** ( 2006.01 )  
**G21D 5/08** ( 2006.01 )  
**G21D 9/00** ( 2006.01 )  
**(87)** WO2020/210837  
**(31)** 62/833,623 **(32)** 12.04.19 **(33)** US  
 62/929,003 31.10.19 US  
**(43)** 15.10.2020  
**(44)** 11.09.2025  
**(72)** CHEATHAM III, Jesse R. ; CORB-  
 IN, Robert A.; GILLELAND, John R.;  
 HEJZLAR, Pavel; KRAMER, Kevin;  
 MARTIN, Christopher A.; MORRIS, Bri-  
 an; PETROSKI, Robert C.; SCHLOSS,  
 Philip M.; WALTER, Joshua C.; WERN-  
 ER, Mark R.  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** TerraPower, LLC  
**(11)** AU-B-2020372816  
**(21)** 2020372816 **(22)** 16.09.2020  
**(54)** Nuclear thermal plant with load-follow-  
 ing power generation  
**(51)** Int. Cl.  
**G21D 1/00** ( 2006.01 )  
**F01K 3/18** ( 2006.01 )  
**F28D 9/00** ( 2006.01 )

**F28D 20/00** ( 2006.01 )  
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**(87)** WO2021/086510  
**(31)** PCT/ **(32)** 13.04.20 **(33)** US  
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**(43)** 06.05.2021  
**(44)** 11.09.2025  
**(72)** CHEATHAM III, Jesse R.; CORB-  
 IN, Robert A.; GILLELAND, John R.;  
 HEJZLAR, Pavel; KRAMER, Kevin;  
 MARTIN, Christopher A.; MORRIS, Bri-  
 an; PETROSKI, Robert C.; SCHLOSS,  
 Philip M.; WALTER, Joshua C.; WERN-  
 ER, Mark R.  
**(74)** Phillips Ormonde Fitzpatrick

**(71)** Terumo Kabushiki Kaisha  
**(11)** AU-B-2023204285  
**(21)** 2023204285 **(22)** 04.07.2023  
**(54)** SYRINGE BARREL, METHOD FOR  
 MANUFACTURING SAME, AND PRE-  
 FILLED SYRINGE  
**(51)** Int. Cl.  
**A61M 5/31** ( 2006.01 )  
**A61M 5/28** ( 2006.01 )  
**(43)** 27.07.2023  
**(44)** 11.09.2025  
**(62)** 2021215305  
**(72)** OKIHARA, Hitoshi  
**(74)** Pizzeys Patent and Trade Mark Attor-  
 neys Pty Ltd

**(71)** Thales  
**(11)** AU-B-2020364982  
**(21)** 2020364982 **(22)** 09.10.2020  
**(54)** Towed underwater device and system  
 for handling the underwater device  
**(51)** Int. Cl.  
**B63B 21/66** ( 2006.01 )  
**B63G 8/42** ( 2006.01 )  
**G01V 1/38** ( 2006.01 )  
**(87)** WO2021/069640  
**(31)** FR1911229 **(32)** 10.10.19 **(33)** FR  
**(43)** 15.04.2021  
**(44)** 11.09.2025  
**(72)** CADALEN, François; BODILIS, Math-  
 ieu; WARNAN, François; LAGADEC,  
 Jean; COHERE, Jean-Baptiste  
**(74)** FB Rice Pty Ltd

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 LAND STANFORD JUNIOR UNIVERSITY  
 see The Research Foundation for the State  
 University of New York**  
**(21)** 2022228362

**(71)** The Board of Trustees of University of  
 Illinois  
**(11)** AU-B-2019282755  
**(21)** 2019282755 **(22)** 07.06.2019  
**(54)** Recombinant Herpes Simplex Virus for  
 cancer immunotherapy  
**(51)** Int. Cl.

**A61K 35/763** ( 2015.01 )  
**A61P 35/00** ( 2006.01 )  
**(87)** WO2019/236931  
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**(43)** 12.12.2019  
**(44)** 11.09.2025  
**(72)** HE, Bin; LIU, Xing  
**(74)** FB Rice Pty Ltd

**The Broad Institute, Inc. see The General  
 Hospital Corporation**  
**(21)** 2022241521

**The Feinstein Institutes for Medical Re-  
 search see Cold Spring Harbor Laboratory**  
**(21)** 2020247812

**(71)** The General Hospital Corporation  
**(11)** AU-B-2019428070  
**(21)** 2019428070 **(22)** 10.05.2019  
**(54)** Carotenoids for treating or preventing  
 nausea  
**(51)** Int. Cl.  
**A61P 1/00** ( 2006.01 )  
**A61P 1/04** ( 2006.01 )  
**A61P 15/00** ( 2006.01 )  
**A61P 25/00** ( 2006.01 )  
**A61P 37/08** ( 2006.01 )  
**(87)** WO2020/162959  
**(31)** 62/802,398 **(32)** 07.02.19 **(33)** US  
**(43)** 13.08.2020  
**(44)** 11.09.2025  
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**(74)** Pizzeys Patent and Trade Mark Attor-  
 neys Pty Ltd

**(71)** The General Hospital Corporation  
**(11)** AU-B-2020241258  
**(21)** 2020241258 **(22)** 13.03.2020  
**(54)** Novel small molecule inhibitors of  
 TEAD transcription factors  
**(51)** Int. Cl.  
**C07D 487/04** ( 2006.01 )  
**A61K 31/4985** ( 2006.01 )  
**A61K 31/5377** ( 2006.01 )  
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**(31)** 62/819,347 **(32)** 15.03.19 **(33)** US  
**(43)** 24.09.2020  
**(44)** 11.09.2025  
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 Chandrasekhar; TALLURI, Krishna  
 Chaitanya; PANIGRAHI, Sunil Ku-  
 mar; WU, Xu; JARUGUMILLI, Gopala  
 Krishna; SUN, Yang  
**(74)** RnB IP Pty Ltd

**(71)** The General Hospital Corporation; The  
 Broad Institute, Inc.; Dana-Farber Can-  
 cer Institute, Inc.  
**(11)** AU-B-2022241521  
**(21)** 2022241521 **(22)** 28.09.2022  
**(54)** SHARED NEOANTIGENS  
**(51)** Int. Cl.  
**A61K 39/00** ( 2006.01 )  
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 (72) Fritsch, Edward F.; Hacoheh, Nir; Rooney, Michael Steven; Shukla, Sachet Ashok; Wu, Catherine J.; Bachireddy, Pavan; Sun, Jing  
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 (11) AU-B-2023200874  
 (21) 2023200874 (22) 16.02.2023  
 (54) Systems for and methods for using biomimetic structures providing communication in living tissue  
 (51) Int. Cl.  
**C12N 5/00** ( 2006.01 )  
 (43) 16.03.2023  
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 (72) VACANTI, Joseph P.  
 (74) Spruson & Ferguson
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- (71) The General Hospital Corporation  
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 (21) 2023278074 (22) 07.12.2023  
 (54) Engineered CRISPR-Cas9 nucleases with altered PAM specificity  
 (51) Int. Cl.  
**C07K 14/195** ( 2006.01 )  
**A61K 38/00** ( 2006.01 )  
**C07K 14/315** ( 2006.01 )  
**C07K 19/00** ( 2006.01 )  
**C12N 5/10** ( 2006.01 )  
**C12N 9/14** ( 2006.01 )  
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 (72) JOUNG, Keith J.; KLEINSTIVER, Benjamin  
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- (71) Theion GmbH  
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 (54) Mixed ion-electron conductive transition layer induced by the irradiation of chalcogenide based materials  
 (51) Int. Cl.  
**H01M 4/136** ( 2010.01 )  
**H01M 4/58** ( 2010.01 )  
**H01M 4/66** ( 2006.01 )  
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 (43) 03.04.2025  
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 (74) FPA Patent Attorneys Pty Ltd
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- (71) The Procter & Gamble Company  
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 (21) 2023258399 (22) 02.11.2023  
 (54) Kits comprising unit-dose oral care compositions  
 (51) Int. Cl.  
**A61K 8/02** ( 2006.01 )

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**A61K 8/73** ( 2006.01 )  
**A61K 8/81** ( 2006.01 )  
**A61Q 11/00** ( 2006.01 )  
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 (72) Paul Albert SAGEL; Gregory T. JONES; Min MAO; Peter MIDDLETON; Natosha PARNELL; Melissa Cherie PAYNE; Jeanette Marie SWARTZ  
 (74) AJ PARK
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 (51) Int. Cl.  
**A61M 11/00** ( 2006.01 )  
**A61L 9/00** ( 2006.01 )  
**A61L 9/12** ( 2006.01 )  
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**B05B 12/02** ( 2006.01 )  
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 (72) LEON, Michael  
 (74) Pearce IP Pty Ltd
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- (71) The Regents of The University of California  
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 (54) Alpha(v)beta(6) integrin-binding peptides and methods of use thereof  
 (51) Int. Cl.  
**A61K 51/08** ( 2006.01 )  
**A61K 38/00** ( 2006.01 )  
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**A61K 47/62** ( 2017.01 )  
**C07K 7/06** ( 2006.01 )  
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 (74) FPA Patent Attorneys Pty Ltd
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 (21) 2022228362 (22) 04.03.2022  
 (54) IN VIVO DNA ASSEMBLY AND ANALYSIS  
 (51) Int. Cl.  
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 (74) RnB IP Pty Ltd

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- (71) The Trustees of Columbia University in the City of New York  
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 (54) ALDOSE REDUCTASE INHIBITORS AND METHODS OF USE THEREOF  
 (51) Int. Cl.  
**C07D 495/04** ( 2006.01 )  
**A61K 31/5025** ( 2006.01 )  
**A61P 3/00** ( 2006.01 )  
**A61P 9/10** ( 2006.01 )  
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 (62) 2021203801  
 (72) Wasmuth, Andrew; Landry, Donald W.  
 (74) Pizzey's Patent and Trade Mark Attorneys Pty Ltd
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 (21) 2022280225 (22) 18.05.2022  
 (54) MULTI-AGONIST AND USE THEREOF  
 (51) Int. Cl.  
**A61K 38/26** ( 2006.01 )  
**A61P 3/00** ( 2006.01 )  
**C07K 14/605** ( 2006.01 )  
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 (44) 11.09.2025  
 (72) HUANG, Liang; CAO, Chunlai; DENG, Huixing; ZHOU, Cui; HE, Xiuyi; LIU, Xiaoxiao; XIE, Xin  
 (74) Pearce IP Pty Ltd
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- (71) The United States of America, as represented by the Secretary, Department of Health and Human Services  
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 (54) Biodegradable tissue replacement implant and its use  
 (51) Int. Cl.  
**A61L 27/18** ( 2006.01 )  
**A61L 27/38** ( 2006.01 )  
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**A61L 27/58** ( 2006.01 )  
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 (31) 62/769,484 (32) 19.11.18 (33) US  
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 (74) Pizzey's Patent and Trade Mark Attorneys Pty Ltd

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**(11)** AU-B-2020257792  
**(21)** 2020257792 **(22)** 17.04.2020  
**(54)** Mew tissue scaffold  
**(51)** Int. Cl.  
**A61L 27/18** ( 2006.01 )  
**A61F 2/24** ( 2006.01 )  
**A61L 27/50** ( 2006.01 )  
**A61L 27/52** ( 2006.01 )  
**A61L 27/56** ( 2006.01 )  
**D01D 5/08** ( 2006.01 )  
**D01F 6/62** ( 2006.01 )  
**(87)** WO2020/210877  
**(31)** 2019901344 **(32)** 18.04.19 **(33)** AU  
**(43)** 22.10.2020  
**(44)** 11.09.2025  
**(72)** HUTMACHER, Dietmar; JUAN PARDO, Maria Elena; BAS, Onur; TOOSISAIDY, Navid; MELA, Petra  
**(74)** WRAYS PTY LTD

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**(71)** Thirty Respiratory Limited  
**(11)** AU-B-2020286987  
**(21)** 2020286987 **(22)** 02.06.2020  
**(54)** Methods and compositions for generating nitric oxide and uses thereof to deliver nitric oxide via the respiratory tract  
**(51)** Int. Cl.  
**A61K 33/00** ( 2006.01 )  
**A61K 9/00** ( 2006.01 )  
**A61P 9/10** ( 2006.01 )  
**A61P 9/12** ( 2006.01 )  
**A61P 11/00** ( 2006.01 )  
**A61P 31/00** ( 2006.01 )  
**A61P 31/04** ( 2006.01 )  
**A61P 31/12** ( 2006.01 )  
**(87)** WO2020/245574  
**(31)** 1907971.4 **(32)** 04.06.19 **(33)** GB  
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**(44)** 11.09.2025  
**(72)** MUNRO, Hugh Semple; WOOD, Christopher Barry  
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** TOKAMAK ENERGY LTD  
**(11)** AU-B-2021405132  
**(21)** 2021405132 **(22)** 20.12.2021  
**(54)** PLASMA-FACING COMPONENT COOLING  
**(51)** Int. Cl.  
**G21B 1/13** ( 2006.01 )  
**F02K 9/00** ( 2006.01 )  
**H01J 37/00** ( 2006.01 )  
**(87)** WO2022/136324  
**(31)** 2020283.4 **(32)** 21.12.20 **(33)** GB  
**(43)** 30.06.2022  
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**(72)** BAMBER, Rob  
**(74)** PHILLIPS ORMONDE FITZPATRICK

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**(71)** Tonix Pharma Holdings Limited; Evans, D.; Noyce, R.  
**(11)** AU-B-2019262149  
**(21)** 2019262149 **(22)** 02.05.2019  
**(54)** Synthetic chimeric vaccinia virus  
**(51)** Int. Cl.  
**C12N 7/01** ( 2006.01 )  
**A61K 39/275** ( 2006.01 )  
**(87)** WO2019/213452  
**(31)** 62/665,973 **(32)** 02.05.18 **(33)** US  
**(43)** 07.11.2019  
**(44)** 11.09.2025  
**(72)** EVANS, David; NOYCE, Ryan; LEDERMAN, Seth  
**(74)** Spruson & Ferguson

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**Toshiba Energy Systems & Solutions Corporation see Kabushiki Kaisha Toshiba**  
**(21)** 2023226658

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**(71)** Tovis Co., Ltd.  
**(11)** AU-B-2020324231  
**(21)** 2020324231 **(22)** 17.07.2020  
**(54)** Display device with combination of multiple display systems, control method of the same, and game machine equipped with the same  
**(51)** Int. Cl.  
**G06F 3/14** ( 2006.01 )  
**A63F 13/26** ( 2014.01 )  
**A63F 13/90** ( 2014.01 )  
**G06F 3/01** ( 2006.01 )  
**G09G 5/12** ( 2006.01 )  
**H04N 5/765** ( 2006.01 )  
**(87)** WO2021/025326  
**(31)** 10-2019-0095512 **(32)** 06.08.19 **(33)** KR  
**(43)** 11.02.2021  
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**(72)** KIM, Yong Beom  
**(74)** Spruson & Ferguson

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**(71)** Transgene  
**(11)** AU-B-2019229653  
**(21)** 2019229653 **(22)** 07.03.2019  
**(54)** Parapoxvirus vectors  
**(51)** Int. Cl.  
**A61K 39/00** ( 2006.01 )  
**A61K 39/12** ( 2006.01 )  
**C12N 7/00** ( 2006.01 )  
**C12N 15/66** ( 2006.01 )  
**(87)** WO2019/170820  
**(31)** 18306424.5 **(32)** 31.10.18 **(33)** EP  
 18305237.2 07.03.18 EP  
**(43)** 12.09.2019  
**(44)** 11.09.2025  
**(72)** RITTNER, Karola; REMY, Christelle; THIOUDELLET, Christine  
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Translate Bio, Inc.  
**(11)** AU-B-2019374871  
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**(54)** PEG lipidoid compounds  
**(51)** Int. Cl.  
**A61K 47/54** ( 2017.01 )  
**A61K 47/60** ( 2017.01 )  
**A61K 47/69** ( 2017.01 )  
**(87)** WO2020/097379  
**(31)** 62/758,084 **(32)** 09.11.18 **(33)** US  
**(43)** 14.05.2020  
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**(72)** KARVE, Shrirang; ZHANG, Yi; DEROSA, Frank; HEARTLEIN, Michael  
**(74)** Pizeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** TREND TOOL TECHNOLOGY LTD  
**(11)** AU-B-2023313077  
**(21)** 2023313077 **(22)** 25.07.2023  
**(54)** DOOR-HINGE JIG  
**(51)** Int. Cl.  
**E05D 11/00** ( 2006.01 )  
**B27F 5/12** ( 2006.01 )  
**(87)** WO2024/023500  
**(31)** 2210813.8 **(32)** 25.07.22 **(33)** GB  
**(43)** 01.02.2024  
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**(72)** MINNIGIN, Jemimah; TRAINER, Andrew  
**(74)** IP Flourish

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**TRIAD NATIONAL SECURITY, LLC see CHEVRON U.S.A. INC.**  
**(21)** 2023234294

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**(71)** Tricare SAS  
**(11)** AU-B-2020403542  
**(21)** 2020403542 **(22)** 11.12.2020  
**(54)** Connecting device for medical devices  
**(51)** Int. Cl.  
**A61F 2/24** ( 2006.01 )  
**A61F 2/82** ( 2013.01 )  
**A61F 2/90** ( 2013.01 )  
**(87)** WO2021/116377  
**(31)** 19215990.3 **(32)** 13.12.19 **(33)** EP  
**(43)** 17.06.2021  
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**(72)** RAHMIG, Georg; STRAUBINGER, Helmut  
**(74)** FB Rice Pty Ltd

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**(71)** Truetiva Inc.  
**(11)** AU-B-2023233084  
**(21)** 2023233084 **(22)** 19.09.2023  
**(54)** Anti-aging and skin tone lightening compositions and methods for same  
**(51)** Int. Cl.  
**A61K 31/352** ( 2006.01 )  
**A61Q 19/02** ( 2006.01 )  
**A61Q 19/08** ( 2006.01 )  
**(43)** 05.10.2023  
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**(72)** KENNEDY, J. Phillip  
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Tusker Medical, Inc.  
**(11)** AU-B-2020313973

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 (54) Systems, devices, and methods for visualization during medical procedures  
 (51) Int. Cl.  
**A61B 1/00** ( 2006.01 )  
**A61B 1/227** ( 2006.01 )  
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 (72) DOMECUS, Brian; KERMANI, Mahyar Z.; GIROTRA, Rohit; GOLDFARB, Eric; LANTZ, Andrew; SCHNEIDER, Robert Edwin; BIGHAM, Tyler Bennett  
 (74) Davies Collison Cave Pty Ltd

(71) Twinstrand Biosciences, Inc.  
 (11) AU-B-2019233918  
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 (54) Methods and reagents for enrichment of nucleic acid material for sequencing applications and other nucleic acid material interrogations  
 (51) Int. Cl.  
**A61K 38/46** ( 2006.01 )  
**C12N 9/22** ( 2006.01 )  
**C12N 15/10** ( 2006.01 )  
**C12Q 1/68** ( 2018.01 )  
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 (43) 19.09.2019  
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 (74) WRAYS PTY LTD

(71) Tyco Fire Products LP  
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 (21) 2020345080 (22) 10.09.2020  
 (54) Concealed window sprinkler frame arms and body orientation  
 (51) Int. Cl.  
**A62C 37/09** ( 2006.01 )  
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 (72) HACKETT, Robert; CUTTING, Sean E.; RAYAPATI, Narayana; NEAL, Matthew; SILVA JR., Manuel R.  
 (74) Spruson & Ferguson

(71) Underwood Companies Holdings Pty Ltd  
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 (21) 2019250105 (22) 14.10.2019  
 (54) Improvements in or in relation to keepers or tidies  
 (51) Int. Cl.  
**F16B 5/06** ( 2006.01 )  
**E04G 5/12** ( 2006.01 )  
**E05G 5/00** ( 2006.01 )  
**F16L 3/06** ( 2006.01 )  
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 (72) Underwood, Daniel Charles  
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 (54) Composition for inducing direct cross differentiation of somatic cell into motor neuron, and method for using same  
 (51) Int. Cl.  
**C12N 15/85** ( 2006.01 )  
**A61K 35/30** ( 2015.01 )  
**A61L 27/36** ( 2006.01 )  
**A61P 25/00** ( 2006.01 )  
**C12N 5/079** ( 2010.01 )  
**G01N 33/50** ( 2006.01 )  
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 (72) KIM, Jeong Beom; LEE, Hyun Ah  
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Universitat De Girona see Goodgut S.L.  
 (21) 2020235239

(71) Universität Stuttgart  
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 (21) 2018414456 (22) 22.03.2018  
 (54) Multivalent binding molecules  
 (51) Int. Cl.  
**C07K 16/18** ( 2006.01 )  
**C07K 16/28** ( 2006.01 )  
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 (72) SEIFERT, Oliver; KONTERMANN, Roland; RICHTER, Fabian  
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(71) Universiteit Gent  
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 (54) Method for the in vitro differentiation and maturation of dendritic cells for therapeutic use  
 (51) Int. Cl.  
**C12N 5/0784** ( 2010.01 )  
**A61K 35/15** ( 2015.01 )  
 (87) WO2019/243537  
 (31) 18179073.4 (32) 21.06.18 (33) EP  
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 (72) VERMAELEN, Karim  
 (74) Spruson & Ferguson

(71) Universite Paris-Saclay; Institut National de la Sante et de la Recherche Medicale (INSERM); Assistance Publique - Hopitaux de Paris  
 (11) AU-B-2019290998  
 (21) 2019290998 (22) 18.06.2019

(54) Method for stratifying the risk of BK virus nephropathy after a kidney transplant  
 (51) Int. Cl.  
**G01N 33/50** ( 2006.01 )  
**C12Q 1/6888** ( 2018.01 )  
 (87) WO2019/243372  
 (31) 1855342 (32) 18.06.18 (33) FR  
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 (44) 11.09.2025  
 (72) TAOUFIK, Yassine; DURRBACH, Antoine; DEKEYSER, Manon  
 (74) FPA Patent Attorneys Pty Ltd

University of Bern see argenx BVBA  
 (21) 2019409936

(71) University of Cape Town  
 (11) AU-B-2020386666  
 (21) 2020386666 (22) 13.11.2020  
 (54) Ground reaction force plate apparatus and measurement system  
 (51) Int. Cl.  
**G01L 5/16** ( 2020.01 )  
**A61B 5/103** ( 2006.01 )  
**A61B 5/11** ( 2006.01 )  
**G01G 3/14** ( 2006.01 )  
**G01G 19/44** ( 2006.01 )  
**G01L 5/161** ( 2020.01 )  
 (87) WO2021/099900  
 (31) 1917058.8 (32) 22.11.19 (33) GB  
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 (72) PATEL, Amir; FISHER, Callen; CLARK, Liam James; TEVERSHAM, James  
 (74) James & Wells Intellectual Property

(71) University of Kansas  
 (11) AU-B-2019227700  
 (21) 2019227700 (22) 27.02.2019  
 (54) Techniques for generating cell-based therapeutics using recombinant T cell receptor genes  
 (51) Int. Cl.  
**C07K 14/725** ( 2006.01 )  
**C07K 14/00** ( 2006.01 )  
**C07K 14/47** ( 2006.01 )  
**C12N 5/0783** ( 2010.01 )  
**C12N 15/10** ( 2006.01 )  
**C12N 15/85** ( 2006.01 )  
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 (31) 62/637,240 (32) 01.03.18 (33) US  
 (43) 06.09.2019  
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 (72) DEKOSKY, Brandon; CHUNG, Cheng-Yu  
 (74) Spruson & Ferguson

(71) UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER AT FORT WORTH  
 (11) AU-B-2022270155  
 (21) 2022270155 (22) 06.05.2022  
 (54) BLOOD TEST TO SCREEN OUT PARKINSON'S DISEASE  
 (51) Int. Cl.  
**A61P 25/16** ( 2006.01 )



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**G01N 33/68** ( 2006.01 )  
**(87)** WO2022/236069  
**(31)** 63/185,563 **(32)** 07.05.21 **(33)** US  
**(43)** 10.11.2022  
**(44)** 11.09.2025  
**(72)** O'BRYANT, Sid, E.  
**(74)** Pizeys Patent and Trade Mark Attorneys Pty Ltd

**(71)** UOP LLC  
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**C08J 11/08** ( 2006.01 )  
**B29B 17/00** ( 2006.01 )  
**B29B 17/02** ( 2006.01 )  
**C08J 11/02** ( 2006.01 )

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**F16B 2/04** ( 2006.01 )  
**E04H 12/20** ( 2006.01 )  
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**F16B 2/14** ( 2006.01 )  
**F16B 7/18** ( 2006.01 )  
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**F16C 11/10** ( 2006.01 )  
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**A61P 35/00** ( 2006.01 )  
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 A61B 18/02 ( 2006.01 )  
 A61F 7/00 ( 2006.01 )  
 A61M 5/315 ( 2006.01 )  
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 D06M 10/02 ( 2006.01 )  
 C23C 4/134 ( 2016.01 )  
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 H05H 1/24 ( 2006.01 )

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 A61K 47/18 ( 2017.01 )  
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 A61P 3/10 ( 2006.01 )

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 H10F 19/90 ( 2025.01 )  
 H10F 19/20 ( 2025.01 )  
 H10F 77/20 ( 2025.01 )  
 H10F 77/30 ( 2025.01 )

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 B22D 11/115 ( 2006.01 )  
 B22D 11/04 ( 2006.01 )  
 B22D 27/02 ( 2006.01 )  
 F27D 27/00 ( 2010.01 )  
 H05B 6/18 ( 2006.01 )  
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<b>2018328220</b>	Seattle Project Corp.	<b>2019377267</b>	Fisher & Paykel Healthcare Limited
<b>2018338608</b>	Sigilon Therapeutics, Inc.	<b>2019381809</b>	Emory University
<b>2018354418</b>	IMMUNEBRIDGE INC.	<b>2019382137</b>	Société des Produits Nestlé S.A.
<b>2018357989</b>	Institut Gustave Roussy	<b>2019384692</b>	CubicPV Inc.
<b>2018359546</b>	Seagen Inc.	<b>2019384824</b>	Ebrahimi Afrouzi, A.
<b>2018365071</b>	Vedanta Biosciences, Inc.	<b>2019385332</b>	The United States of America, as represented by the Secretary, Department of Health and Human Services
<b>2018366219</b>	Wisconsin Alumni Research Foundation		Boart Longyear Manufacturing and Distribution Inc.
<b>2018383709</b>	Pionyr Immunotherapeutics, Inc.	<b>2019387239</b>	Kyoto University; Takeda Pharmaceutical Company Limited
<b>2018414456</b>	Universität Stuttgart	<b>2019388011</b>	
<b>2018428853</b>	Clear Gene, Inc.	<b>2019389908</b>	La Trobe University
<b>2019200914</b>	Morris Industries Ltd.	<b>2019392874</b>	SWM Luxembourg
<b>2019204871</b>	ANW Design Pty Ltd	<b>2019394947</b>	Viking Therapeutics, Inc.
<b>2019205330</b>	Iconic Therapeutics LLC	<b>2019396761</b>	Rappaport Family Institute for Research in the Medical Sciences
<b>2019213358</b>	Polevine Pty Ltd		Daiichi Sankyo Company, Limited
<b>2019219061</b>	F. Hoffmann-La Roche AG	<b>2019396895</b>	Orthopediatrics Corp.
<b>2019227700</b>	University of Kansas	<b>2019398345</b>	DePuy Synthes Products, Inc.
<b>2019228294</b>	Boehringer Ingelheim Vetmedica GmbH	<b>2019398883</b>	Suez International
<b>2019229653</b>	Transgene	<b>2019409127</b>	argenx BVBA; University of Bern
<b>2019232372</b>	CooperVision International Limited; The University of Melbourne	<b>2019409936</b>	John Guest International Limited
		<b>2019411507</b>	Ningbo Fuhua Valve Co., Ltd
<b>2019232846</b>	Aristocrat Technologies Australia Pty Limited	<b>2019414430</b>	F. HOFFMANN-LA ROCHE AG
<b>2019233918</b>	Twinstrand Biosciences, Inc.	<b>2019419691</b>	IDS Group
<b>2019234220</b>	Zoetis Services LLC	<b>2019419702</b>	Fuel Active Limited
<b>2019239568</b>	Board of Regents, The University of Texas System	<b>2019421779</b>	The General Hospital Corporation
<b>2019239971</b>	Regeneron Pharmaceuticals, Inc.	<b>2019428070</b>	Magnetica Limited
<b>2019242586</b>	Regeneron Pharmaceuticals, Inc.	<b>2019429503</b>	V-Nova International Ltd
<b>2019245479</b>	Pebble Labs USA Inc.	<b>2019435947</b>	Supracor, Inc.
<b>2019250105</b>	Underwood Companies Holdings Pty Ltd	<b>2019438812</b>	Halliburton Energy Services, Inc.
<b>2019262149</b>	Tonix Pharma Holdings Limited; Evans, D.; Noyce, R.	<b>2019445291</b>	Qualcomm Incorporated
<b>2019276577</b>	Geneoscopy, Inc.	<b>2019449200</b>	Reliance Worldwide Corporation (UK) Limited
<b>2019278780</b>	Ynsect	<b>2019456730</b>	GrowOp World Ltd.
<b>2019279983</b>	IDEMIA France	<b>2019462366</b>	Halliburton Energy Services, Inc.
<b>2019282755</b>	The Board of Trustees of University of Illinois	<b>2019465017</b>	Guangdong Oppo Mobile Telecommunications Corp., Ltd.
<b>2019283518</b>	Medipost Co., Ltd.	<b>2019467045</b>	
<b>2019289973</b>	Universiteit Gent		Halliburton Energy Services, Inc.
<b>2019290998</b>	Universite Paris-Saclay; Institut National de la Sante et de la Recherche Medicale (INSERM); Assistance Publique - Hopitalux de Paris	<b>2019467888</b>	Halliburton Energy Services, Inc.
		<b>2019479292</b>	Halliburton Energy Services, Inc.
<b>2019296511</b>	Southern Green Gas Limited	<b>2020200050</b>	Hiltex Designs Ltd
<b>2019301070</b>	Precigen, INC.	<b>2020200970</b>	ADIENNE Pharma & Biotech SA
<b>2019312565</b>	Cullinan Mica Corp.	<b>2020201474</b>	Electrolux Appliances Aktiebolag
<b>2019312801</b>	Heidelberg Pharma Research GmbH	<b>2020201769</b>	MAX CO., LTD.
<b>2019314529</b>	Genzyme Corporation	<b>2020205717</b>	Acuitas Therapeutics, Inc.
<b>2019319628</b>	Vilmorin & Cie	<b>2020210030</b>	Escape Therapeutics, Inc.
<b>2019335513</b>	The Regents of The University of California	<b>2020211609</b>	Continuous Composites Inc.
<b>2019336329</b>	Clifton, M.	<b>2020211716</b>	Schreder S.A.
<b>2019336940</b>	Bavarian Nordic A/S	<b>2020212316</b>	Wepfer Technics AG
<b>2019339182</b>	Sika Technology AG	<b>2020213604</b>	Support Technologies Innovations Pty Ltd
<b>2019341397</b>	OZX IP Pty Ltd	<b>2020214643</b>	Burpulis, B.; Kelso, J.
<b>2019342462</b>	Nippon Paper Industries Co., Ltd.	<b>2020215673</b>	Incyte Corporation
<b>2019350621</b>	Breville USA, Inc.	<b>2020218519</b>	inQB8 Medical Technologies, LLC
<b>2019351870</b>	Marine Direct Consultants Limited	<b>2020218627</b>	Schreder S.A.
<b>2019358807</b>	Advanced Farm Technologies, Inc.	<b>2020219093</b>	NXT Biomedical, LLC
<b>2019360344</b>	Syngenta Crop Protection AG; The State of Israel, Ministry of Agriculture & Rural Development, Agricultural Research Organization (ARO) (Volcani Center)	<b>2020219221</b>	MonoSol, LLC
		<b>2020219416</b>	Cryoport Belgium S.A.
<b>2019361734</b>	Technological Resources Pty. Limited	<b>2020220560</b>	Reckitt Benckiser Health Limited
<b>2019362100</b>	Sanderson, J.P.	<b>2020221345</b>	4C Medical Technologies, Inc.
<b>2019365492</b>	Subsea 7 Norway AS	<b>2020221785</b>	QTS Holdings, LLC
<b>2019370461</b>	Crown Packaging Technology, Inc.	<b>2020221906</b>	ElectroSea, LLC
<b>2019370723</b>	Mesoblast International Sarl	<b>2020223900</b>	I.V.A.R. S.p.A.
<b>2019372329</b>	Crown Packaging Technology, Inc.	<b>2020224386</b>	ResMed Asia Pte. Ltd.
<b>2019373095</b>	Quintis (Australia) Pty Limited	<b>2020226531</b>	PepsiCo, Inc.
		<b>2020227180</b>	Primozone Production AB

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2020227214	Weidmüller Interface GmbH & Co. KG	2020325223	Drumblaster Technology Pty Ltd
2020227751	Arxada, LLC	2020325655	Kissei Pharmaceutical Co., Ltd.
2020228277	Syngenta Crop Protection AG	2020325952	L'Air Liquide Societe Anonyme Pour L'Etude et L'Exploitation des Procedes Georges Claude
2020231218	Dana-Farber Cancer Institute, Inc.	2020326262	Evonik Operations GmbH
2020232757	Incyte Corporation	2020327290	First Point A.S.
2020233396	Duke University	2020331235	Datadog, Inc.
2020235239	Goodgut S.L.; Fundació Institut D'investigació Biomèdica De Girona Dr. Josep Trueta; Universitat De Girona	2020332881	Blitz Systems Pty Ltd
2020241258	The General Hospital Corporation	2020333037	Mackool, R.
2020242565	Perma-tec GmbH & Co. KG	2020334920	Boston Scientific Scimed, Inc.
2020243579	CorWave SA	2020335337	PBS International Ltd
2020244411	Deere & Company	2020336131	Allogene Therapeutics, Inc.
2020245491	InQB8 Medical Technologies LLC	2020341058	Henke-Sass, Wolf GmbH
2020245761	Sunstar Engineering Inc.	2020341213	CrystalGenomics, Inc.
2020247812	Cold Spring Harbor Laboratory; The Feinstein Institutes for Medical Research	2020341224	Samsung Electronics Co., Ltd.
2020247931	Align Technology, Inc.	2020341776	Isol8 (Holdings) Limited
2020247974	Sunstar Engineering Inc.	2020341784	Henke-Sass, Wolf GmbH
2020251832	Fisher & Paykel Healthcare Limited	2020345080	Tyco Fire Products LP
2020254708	Cole, C.; Spiryagin, M.; Bernal, E.	2020346748	Bardex Corporation
2020256855	10644137 Canada Inc.	2020348201	Becton, Dickinson and Company
2020257212	Atmospheric Plasma Solutions, Inc.	2020348813	Shenzhen Salubris Pharmaceuticals Co. Ltd
2020257792	The University of Western Australia	2020349122	Werner Co
2020259189	Sun, H.; WU, K.; McNicol, J.	2020350671	Span.IO, Inc.
2020261314	Biocorp Production S.A.S	2020350884	Robino & Galandrino S.p.A.
2020262259	Source Global, PBC	2020351106	CareFusion 303, Inc.
2020265327	Beijing Tide Pharmaceutical Co., Ltd.	2020354788	Australian Valve Group Pty Ltd
2020269512	Brooks England Limited	2020356255	Société Des Produits Nestlé S.A.
2020269575	Infinera Corporation	2020360621	Xaga Surgical AB
2020270465	Johnson & Johnson Vision Care, Inc.	2020361688	EARVOLUTION, INC.
2020272144	TerraPower, LLC	2020364982	Thales
2020272555	OE Electrics Limited	2020367801	Weatherford Technology Holdings, LLC
2020272671	ElectroSea LLC	2020368580	Sulzer Management AG
2020275105	Blue Prism Limited	2020369236	Sun Pharmaceutical Industries Limited
2020277040	Fuji Oil Holdings Inc.	2020371074	Huawei Technologies Co., Ltd.
2020281378	Sunshine Lake Pharma Co., Ltd.	2020371990	BAE Systems plc
2020281621	Cosucra Groupe Warcoing S.A.	2020372816	TerraPower, LLC
2020281641	Novaliq GmbH	2020374874	Boddie, M.; Sama, B.
2020286987	Thirty Respiratory Limited	2020375136	KONE Corporation
2020287127	Georgia-Pacific Gypsum LLC	2020386666	University of Cape Town
2020287252	N.V. Nutricia	2020387392	Bristol-Myers Squibb Company
2020287833	Caterpillar Inc.	2020387516	Fresenius Kabi (Nanchang) Co., Ltd.
2020287909	N.V. Nutricia	2020388606	Koninklijke Philips N.V.
2020288337	Ascelia Pharma AB	2020390446	Hydropool Inc.
2020289696	Electrolux Appliances Aktiebolag	2020391605	ARRIS Enterprises LLC
2020291016	Pacific Diabetes Technologies Inc	2020401277	Halliburton Energy Services, Inc.
2020293484	Société des Produits Nestlé S.A.	2020403542	Tricare SAS
2020294428	EasyMining Sweden AB	2020404480	Xu, Y.
2020297835	Samsung Electronics Co., Ltd.	2020407986	Medtronic, Inc.
2020301305	Hemex Health, Inc.	2020416640	BAE Systems plc
2020301564	Hempel A/S	2020426042	Halliburton Energy Services, Inc.
2020304536	Binary, LLC	2020443367	Halliburton Energy Services, Inc.
2020306696	Enapter S.r.l.	2020453143	Unist(Ulsan National Institute of Science and Technology)
2020308341	Medtronic, Inc.	2020456100	Halliburton Energy Services, Inc.
2020309305	Jaguar Land Rover Limited	2020467488	ViaSat, Inc.
2020312301	LG Energy Solution, Ltd.	2021201352	Canva Pty Ltd
2020313973	Tusker Medical, Inc.	2021202888	HOWMEDICA OSTEONICS CORP.
2020314081	ENYO Pharma	2021207687	Acentium Inc.
2020315424	Itron, Inc.	2021214399	Arcutis Biotherapeutics, Inc.
2020317454	Magnetic Autocontrol GmbH	2021227677	Bayer HealthCare LLC
2020317524	BASF SE	2021231502	Curaleaf International Limited
2020317849	Deb IP Limited	2021232612	Alfen Medical Devices Development Ltd
2020318462	SHINE Technologies, LLC	2021234221	Zodiac Pool Systems LLC
2020318598	Abivax; Centre National de la Recherche Scientifique; Universite de Montpellier; Institut Curie	2021236392	Bard Access Systems, Inc.
2020318697	Boehringer Ingelheim International GmbH	2021236878	Zealand Pharma A/S
2020321474	BASF SE	2021251445	Compagnie Generale des Etablissements Michelin
2020322476	Nymox Corporation	2021253599	I4F Licensing NV
2020324231	Tovis Co., Ltd.	2021264869	Onogene Biotechnology Inc.
2020324234	LG Energy Solution, Ltd.	2021276383	Rutgers, The State University of New Jersey
2020325062	Miles, S.	2021282924	Coloplast A/S
		2021287906	Alkahest Inc.
		2021289172	ResMed Sensor Technologies Limited

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2021297159	Lindsay Transportation Solutions, LLC	2022283386	W. L. GORE & ASSOCIATES, INC.
2021297264	Australian Lung Health Initiative Pty Ltd	2022286271	GD MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD.; HEFEI MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD.
2021297984	Amunix Pharmaceuticals, Inc.		
2021299554	Crown Equipment Corporation	2022291489	Loc Performance Products LLC
2021301437	Elbit Systems Electro-Optics Elop Ltd.	2022292955	GLOBUS (SHETLAND) LIMITED
2021302126	Harbour Biomed (Shanghai), Co., Ltd.	2022294861	MINGHUI PHARMACEUTICAL (HANGZHOU) LTD.; MINGHUI PHARMACEUTICAL (SHANGHAI) LTD.
2021309661	Hollister Incorporated		
2021312222	Peloton Interactive, Inc.	2022299892	BYD COMPANY LIMITED
2021312894	Eli Lilly and Company	2022303766	ASAHI GROUP HOLDINGS, LTD.; ASAHI BREWERIES, LTD.
2021319102	Chevron U.S.A. Inc.		
2021333577	Gilead Sciences, Inc.	2022306591	PPG INDUSTRIES OHIO, INC.
2021337480	Sahaviriya Steel Industries Public Co., Ltd.	2022306644	LG ELECTRONICS INC.
2021351639	LINDSAY CORPORATION	2022308737	READYLINKS INC.
2021391330	IMUNOPHARM TECHNOLOGY CO., LTD.; BEIJING YIMIAOYILIAO CO., LTD.	2022309125	DFS DEUTSCHE FLUGSICHERUNG GMBH
		2022311800	ELI LILLY AND COMPANY
2021397991	BEIJING ROBOROCK TECHNOLOGY CO., LTD.	2022312359	KANDO INNOVATION LIMITED
2021398061	BEIJING DONGFANG BIOTECH CO., LTD; BEIJING JINGYITAI XIANG TECHNOLOGY DEVELOPMENT CO. LTD.	2022312931	KANDO INNOVATION LIMITED
		2022313167	SAGE PRODUCTS LLC
2021399178	DAVEY BICKFORD	2022313843	SOUTH CHINA SEA INSTITUTE OF OCEANOLOGY, CHINESE ACADEMY OF SCIENCES; SOUTHERN MARINE SCIENCE AND ENGINEERING GUANGDONG LABORATORY (GUANGZHOU)
2021405132	TOKAMAK ENERGY LTD		
2021432587	FUJIFILM CORPORATION; National University Corporation Tokyo Medical and Dental University	2022313924	HUAWEI TECHNOLOGIES CO., LTD.
		2022314801	IMS TRADING, LLC
2021437878	LG ELECTRONICS INC.	2022319632	CATERPILLAR INC.
2021442183	BGI SHENZHEN	2022322688	BYD COMPANY LIMITED
2021443833	CCTEG COAL MINING RESEARCH INSTITUTE; CCTEG TIANDI SCIENCE & TECHNOLOGY CO., LTD.	2022324851	KIRIN BEVERAGE COMPANY, LIMITED
		2022325230	BIOMETIS TECHNOLOGY, INC.
2021446815	ANIMUSCURE INC.	2022326662	GD MIDEA HEATING VENTILATING EQUIPMENT CO., LTD; HEFEI MIDEA HEATING VENTILATING EQUIPMENT CO., LTD
2021450883	BEIJING ROBOROCK TECHNOLOGY CO., LTD.		
2021454302	GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.	2022328309	GOOGLE LLC
2021461615	SINO IRON HOLDINGS PTY LTD	2022328589	ELI LILLY AND COMPANY
2021464880	NINGDE AMPEREX TECHNOLOGY LIMITED	2022330226	HUAWEI TECHNOLOGIES CO., LTD.
2021466603	SINO IRON HOLDINGS PTY LTD	2022331317	MIND MEDICINE, INC.
2021471099	SUMITOMO SHI FW ENERGIA OY	2022336758	NUOVO PIGNONE TECNOLOGIE - S.R.L.
2021472065	GUANGZHOU SIGTENNA TECHNOLOGY CO., LTD.	2022340312	BEIJING ROBOROCK TECHNOLOGY CO., LTD.
2021475713	NABRAWIND TECHNOLOGIES, S.L.	2022346364	MITSUBISHI HEAVY INDUSTRIES, LTD.
2022203135	Sun Pharmaceutical Industries Limited	2022354825	GC CORPORATION
2022203180	Takeda Pharmaceutical Company Limited	2022355732	BYD COMPANY LIMITED
2022203945	SUPER FOODS NEW ZEALAND LIMITED	2022357257	ECOLTEC GROSSKOPF GMBH
2022215409	LG ELECTRONICS INC.	2022357654	FUJITSU GENERAL LIMITED
2022218062	LG ELECTRONICS INC.	2022358998	NEURIM PHARMACEUTICALS (1991) LTD.
2022218544	Numab Therapeutics AG	2022374966	ESSILOR INTERNATIONAL
2022224198	MITSUBISHI TANABE PHARMA CORPORATION; PHARMA FOODS INTERNATIONAL CO., LTD.	2022376005	JIANGSU GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
2022224922	LG ELECTRONICS INC.	2022377265	HALLIBURTON ENERGY SERVICES, INC.
2022227005	LOGICBIO THERAPEUTICS, INC.	2022378558	COLGATE-PALMOLIVE COMPANY
2022228198	Genentech, Inc.	2022380815	CRRC CHANGZHOU CO., LTD.; SCIENCE AND TECHNOLOGY DEVELOPMENT BRANCH, CRRC YANGTZE GROUP CO., LTD.
2022228362	The Research Foundation for the State University of New York; THE BOARD OF TRUSTEES OF THE LE-LAND STANFORD JUNIOR UNIVERSITY		
		2022380980	DATANG MOBILE COMMUNICATIONS EQUIPMENT CO., LTD.
2022234315	CAREFUSION 303, INC.	2022388446	HUAWEI TECHNOLOGIES CO., LTD.
2022235956	BEIJING SCITECH-MQ PHARMACEUTICALS LIMITED	2022391895	LAM-X A.S.
		2022391917	EVONIK OPERATIONS GMBH
2022241521	The General Hospital Corporation; The Broad Institute, Inc.; Dana-Farber Cancer Institute, Inc.	2022395102	SHANGHAI JEMINCARE PHARMACEUTICAL CO., LTD.
2022242562	MATTHEWS INTERNATIONAL CORPORATION	2022396005	OPTIMA CONSUMER GMBH
2022244155	CATERPILLAR INC.	2022396650	FUJITSU GENERAL LIMITED
2022246872	AQUASOURCE TECHNOLOGIES CORPORATION	2022397710	BEDNAR FMT S.R.O.
2022252276	KOMATSU LTD.	2022398051	ICS ICE CLEANING SYSTEMS S.R.O.
2022252734	RemeGen Co., Ltd.	2022398570	OJI HOLDINGS CORPORATION
2022256276	INFINIUM TECHNOLOGY, LLC	2022399647	QINGDAO HAIER REFRIGERATOR CO., LTD.; HAIER SMART HOME CO., LTD.
2022256612	CULLGEN (SHANGHAI), INC.		
2022257112	UOP LLC	2022399686	BYD COMPANY LIMITED
2022257619	ESCO GROUP LLC	2022400984	AUMA RIESTER GMBH & CO. KG
2022259753	Estetra SRL	2022407627	MAYEKAWA MFG. CO., LTD.
2022263471	President and Fellows of Harvard College	2022408746	BEIJING HONGHUI MEDITECH CO., LTD
2022266386	ANIMUSCURE INC.	2022413507	COLGATE-PALMOLIVE COMPANY
2022269255	SYNGENTA CROP PROTECTION AG	2022415411	BITDEFENDER IPR MANAGEMENT LTD
2022270155	UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER AT FORT WORTH		
2022280225	THE UNITED BIO-TECHNOLOGY (HENGQIN) CO., LTD.		

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2022416217	HUAWEI TECHNOLOGIES CO., LTD.	2023254983	Innospec Limited
2022416644	PFIZER INC.	2023254987	W. L. Gore & Associates, Inc.
2022417725	BAKER HUGHES ENERGY TECHNOLOGY UK LIMITED; BAKER HUGHES HOLDINGS LLC	2023255043	Ryde Enterprises Pty Ltd T/AS Mining and Plant Group
2022423389	WILHELM LAYHER VERWALTUNGS-GMBH	2023255824	CCTEG BEIJING TIANMA INTELLIGENT CONTROL TECHNOLOGY CO., LTD.; BEIJING CCRI-TIANMA AUTOMATION TECHNOLOGY CO., LTD.
2022424191	IDE WATER TECHNOLOGIES LTD	2023256524	KYOCERA SENCO INDUSTRIAL TOOLS, INC.
2022424430	KAWASAKI JUKOGYO KABUSHIKI KAISHA	2023258338	Promptu Systems Corporation
2022425162	CATERPILLAR GLOBAL MINING EQUIPMENT LLC	2023258399	The Procter & Gamble Company
2022425221	RUIJIE NETWORKS CO., LTD.	2023258400	Jazz Pharmaceuticals Research UK Limited
2022425926	KAWASAKI JUKOGYO KABUSHIKI KAISHA	2023259558	HITACHI ENERGY LTD
2022427452	BYD COMPANY LIMITED	2023262633	KEMPOWER OYJ
2022428975	BYD COMPANY LIMITED	2023263498	SUNGROW (SHANGHAI) CO., LTD.
2022434139	HUNAN SINOBOM INTELLIGENT EQUIPMENT CO., LTD.	2023265012	SPEEDCAST COMMUNICATIONS, INC.
2022434487	ZTE CORPORATION	2023266329	Liv Labs Inc.
2022443191	PARITY QUANTUM COMPUTING GMBH	2023266346	Canon Kabushiki Kaisha
2022457584	FLUVES NV	2023266386	Angel Group Co., Ltd.
2022477090	LG ELECTRONICS INC.	2023270335	Emory University
2022483841	SHENZHEN JASIC TECHNOLOGY CO., LTD.; JASIC TECHNOLOGY EUROPE S.R.L.	2023270358	Creative Surgical Solutions, LLC
2023200621	Sharp Kabushiki Kaisha	2023274055	RemSAFE Pty Ltd
2023200874	The General Hospital Corporation	2023274119	COSTA DEL MAR, INC.
2023201024	Alnylam Pharmaceuticals, Inc.	2023274124	Sunray Scientific, LLC
2023201275	Black & Decker Inc.	2023278050	General Electric Company
2023203290	Hemanext Inc.	2023278074	The General Hospital Corporation
2023203314	Vycellix, Inc.	2023280788	CATERPILLAR GLOBAL MINING EQUIPMENT LLC
2023203546	Xefco Pty Ltd	2023282239	eBay Inc.
2023204015	Sage Therapeutics, Inc.	2023283998	SIEMENS ENERGY GLOBAL GMBH & CO. KG
2023204137	Sandbox Enterprises, LLC	2023285781	ARQ IP Limited
2023204218	The Trustees of Columbia University in the City of New York	2023285970	Apple Inc.
2023204285	Terumo Kabushiki Kaisha	2023286023	IDEXX Laboratories Inc.
2023204339	LG Electronics Inc.	2023290533	ARGENX BV
2023204359	LG Electronics Inc.	2023303573	SHENZHEN ANTELUN INTELLIGENT TECHNOLOGY CO., LTD.
2023206135	LG Electronics Inc.	2023313077	TREND TOOL TECHNOLOGY LTD
2023206156	LG Electronics Inc.	2023337038	CF PHARMTECH USA, INC.
2023208139	Armaments Research Company Inc.	2023421988	NEW HAMPSHIRE BALL BEARINGS, INC.
2023208153	Illinois Tool Works Inc.	2023446728	PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
2023209649	Syngenta Crop Protection AG	2024200065	Chongqing Changan Automobile Co., Ltd.
2023210497	NEWRONIKA S.P.A	2024200114	Refined Sands Pty Ltd
2023214352	Soliton, Inc.	2024200262	Angel Group Co., Ltd.
2023215673	BIRTHGLIDE LIMITED	2024200264	Ryvu Therapeutics S.A.
2023216572	ZMAG, LTD.	2024200399	Kabushiki Kaisha Toshiba; Toshiba Energy Systems & Solutions Corporation
2023219892	REP Fitness, LLC	2024200562	Canon Kabushiki Kaisha
2023222945	Brisa International LLC	2024200705	LG Electronics Inc.
2023225930	E INK CORPORATION	2024200725	Huawei Technologies Co., Ltd.
2023226658	Kabushiki Kaisha Toshiba; Toshiba Energy Systems & Solutions Corporation	2024200892	Reflex Instruments Asia Pacific Pty Ltd
2023226736	Spogen Biotech Inc.	2024200898	Moxa Inc.
2023226741	NPNH Nominees Pty. Ltd.	2024200948	Astellas US LLC
2023226743	Spogen Biotech Inc.	2024201124	LG Electronics Inc.
2023229489	Monsanto Technology LLC	2024201214	Seegene, Inc.
2023229539	Monsanto Technology LLC	2024201368	LG Electronics Inc.
2023229550	Revance Therapeutics, Inc.	2024201641	AstraZeneca AB
2023233084	Truetiva Inc.	2024201705	Amgen Inc.
2023233485	GACW INCORPORATED	2024202087	The Regents of the University of California
2023234294	CHEVRON U.S.A. INC.; TRIAD NATIONAL SECURITY, LLC	2024202190	Samsung Electronics Co., Ltd.
2023235988	GACW INCORPORATED	2024202205	Sony Group Corporation
2023236294	Qualcomm Incorporated	2024202249	Quantum Nanostim LLC
2023237025	Woorhimecha Co., Ltd.	2024202349	Hitachi, Ltd.
2023237055	ZHEJIANG JINKO SOLAR CO., LTD.; JINKO SOLAR CO., LTD.	2024202377	Etex Australia Pty Ltd
2023237072	BEA SA	2024202439	POVIVA CORP.
2023237074	Medline Industries, LP	2024202880	Block, Inc.
2023237916	JAPAN CASH MACHINE CO., LTD.	2024203136	DET-IO PTY LIMITED
2023242028	FUJITSU GENERAL LIMITED	2024203408	Central South University
2023247710	BYD COMPANY LIMITED	2024203728	Gas Services Australia Pty Ltd
2023248188	Snap-on Incorporated	2024203794	Caterpillar Inc.
2023251391	Fisher & Paykel Healthcare Limited	2024203800	Huawei Technologies Co., Ltd.
2023251493	Cook Medical Technologies LLC	2024203944	Apple Inc.
2023251527	CURVEBEAM AI LIMITED	2024204166	Ted R. Dimitroff
		2024204169	LG Electronics Inc.

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2024204190	Siemens Mobility, Inc.
2024204221	Boston Scientific Scimed, Inc.
2024204369	Esperion Therapeutics, Inc.
2024204393	Crown Equipment Corporation
2024204406	BYD COMPANY LIMITED
2024204806	SK Innovation Co., Ltd.
2024204878	Mountain Top (Denmark) ApS
2024204937	Bambino Prezioso Switzerland AG
2024204939	GOOGLE LLC
2024204971	SK Innovation Co., Ltd.
2024205499	Leo Cancer Care, Inc.
2024213114	MacDon Industries Ltd
2024216007	DENSO-HOLDING GMBH & CO.
2024219434	Alnylam Pharmaceuticals, Inc.
2024219540	Wanbang Digital Energy Co., Ltd.; Jiangsu Wanbang Energy Storage Technology Co., Ltd.
2024219575	Envisia Therapeutics, Inc
2024219668	Brian Clifford Arthur Bruce
2024219713	Theion GmbH
2024219872	Merck Patent GmbH
2024219949	Gen-Probe Incorporated
2024220087	igus GmbH
2024220765	BHUKHANWALA, K.; LINGAM, V.S.P.R.
2024223881	SARTORIUS BIA SEPARATIONS D.O.O.
2024227037	CGG Services SAS
2024227143	Wisk Aero LLC
2024259678	VusionGroup GmbH
2024287082	QILU UNIVERSITY OF TECHNOLOGY#SHANDONG ACADEMY OF SCIENCES#
2024335458	LONGI GREEN ENERGY TECHNOLOGY CO., LTD.
2024339212	BEIJING UNIVERSITY OF TECHNOLOGY
2025200083	MAKO Surgical Corp.
2025201958	Rongcheng Kangyi New Material Technology Co., Ltd.
2025201960	Rongcheng Kangyi New Material Technology Co., Ltd.
2025202013	Ross, G.
2025203463	Lam, T.T.
2025203896	Lam, T.T.
2025204084	Gen-Probe Incorporated
2025204429	Agnetix, Inc.
2025205147	National University of Singapore
2025205182	Takeda Vaccines, Inc.
2025205526	Cell Cure Neurosciences Ltd.; Hadasit Medical Re- search Services and Development Ltd.



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<b><u>A01B 51 /-</u></b>	2023229489 2023229539	<b><u>A01N 59 /-</u></b>	<b><u>A24D 3 /-</u></b>		<b><u>A61D 7 /-</u></b>
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<b><u>A01B 59 /-</u></b>	<b><u>A01H 6 /-</u></b>		<b><u>A41D 13 /-</u></b>	2020360621	<b><u>A61F 11 /-</u></b>
2022397710	2019360344	<b><u>A01P 1 /-</u></b>	2022292955	<b><u>A61B 17 /-</u></b>	2020361688
<b><u>A01B 73 /-</u></b>	<b><u>A01K 11 /-</u></b>	2022391895	<b><u>A44C 21 /-</u></b>	2019398345 2019398883 2020251832 2021202888 2023214352 2023215673 2025200083	<b><u>A61F 13 /-</u></b>
2019200914 2022397710	2019419702	<b><u>A01P 13 /-</u></b>	2023266386		2023237074 2023266329
<b><u>A01C 7 /-</u></b>	<b><u>A01K 67 /-</u></b>	2019374750	<b><u>A45D 24 /-</u></b>		<b><u>A61F 2 /-</u></b>
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<b><u>A01D 34 /-</u></b>	<b><u>A01N 1 /-</u></b>	2022407627	<b><u>A47C 11 /-</u></b>	2020334920 2023214352 2023237025 2024204221 2024227037	
2019204871	2020219416	<b><u>A23B 4 /-</u></b>	<b><u>A47C 15 /-</u></b>		<b><u>A61F 5 /-</u></b>
<b><u>A01D 41 /-</u></b>	<b><u>A01N 25 /-</u></b>	2022399647	2023219892		2019362100 2023237074 2023266329
2024213114	2020227751 2022391895 2023226736 2023226743 2024220765	<b><u>A23C 21 /-</u></b>	<b><u>A47C 16 /-</u></b>	<b><u>A61B 34 /-</u></b>	
<b><u>A01D 43 /-</u></b>		2020293484	2019438812	2019398883 2025200083	
2024213114	<b><u>A01N 33 /-</u></b>	<b><u>A23C 9 /-</u></b>	<b><u>A47C 20 /-</u></b>	<b><u>A61B 46 /-</u></b>	
<b><u>A01D 57 /-</u></b>	2022391895	2020287252 2020287909	2019438812	2023270358	<b><u>A61F 6 /-</u></b>
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<b><u>A01G 25 /-</u></b>	2020227751 2023229489 2024220765	2019382137	2019438812	2020218519 2020291016 2020308341 2020386666 2020407986 2022311800 2023210497	<b><u>A61F 9 /-</u></b>
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<b><u>A01G 3 /-</u></b>	2020227751	2022314801	2024203728	<b><u>A61B 6 /-</u></b>	<b><u>A61G 5 /-</u></b>
2019204871	<b><u>A01N 43 /-</u></b>	<b><u>A23K 50 /-</u></b>	<b><u>A47K 5 /-</u></b>	2019438812	2019438812
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<b><u>A01G 7 /-</u></b>	2019374750 2020317524 2022391895 2023209649 2024220765	<b><u>A23L 2 /-</u></b>	<b><u>A47L 15 /-</u></b>	<b><u>A61B 8 /-</u></b>	<b><u>A61H 23 /-</u></b>
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<b><u>A01G 9 /-</u></b>	<b><u>A01N 47 /-</u></b>	<b><u>A23L 33 /-</u></b>	<b><u>A47L 7 /-</u></b>	<b><u>A61B 90 /-</u></b>	<b><u>A61H 33 /-</u></b>
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<b><u>A61P 5 /-</u></b>	2024223881	2021466603	<b><u>B24C 1 /-</u></b>	2020287127	2023303573
2022259753	<b><u>B01D 17 /-</u></b>	<b><u>B03D 1 /-</u></b>	2022398051	<b><u>B32B 15 /-</u></b>	<b><u>B60D 1 /-</u></b>
<b><u>A61P 7 /-</u></b>	2019421779	2023285781	<b><u>B24C 7 /-</u></b>	2023421988	2019341397
2020247812	<b><u>B01D 3 /-</u></b>	<b><u>B04C 5 /-</u></b>	2022398051	<b><u>B32B 25 /-</u></b>	<b><u>B60G 17 /-</u></b>
<b><u>A61P 9 /-</u></b>	2019373095	2021466603	<b><u>B25B 11 /-</u></b>	2024216007	2023226741
2020286987	<b><u>B01D 53 /-</u></b>	<b><u>B05B 12 /-</u></b>	2019213358	<b><u>B32B 27 /-</u></b>	<b><u>B60G 5 /-</u></b>
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2022408746	2022246872				<b><u>B60H 1 /-</u></b>
2022416644	2022256276	<b><u>B05D 7 /-</u></b>	<b><u>B25C 1 /-</u></b>	<b><u>B32B 5 /-</u></b>	2025201958
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2024201641	2025202013				<b><u>B60J 7 /-</u></b>
<b><u>A61Q 11 /-</u></b>	<b><u>B01F 33 /-</u></b>	<b><u>B08B 1 /-</u></b>	<b><u>B25F 5 /-</u></b>	<b><u>B32B 7 /-</u></b>	2025201960
2022378558	2020325223	2022313843	2023248188	2024216007	
2022413507					<b><u>B60K 1 /-</u></b>
2023258399	<b><u>B01F 35 /-</u></b>	<b><u>B08B 9 /-</u></b>	<b><u>B25G 1 /-</u></b>	<b><u>B33Y 10 /-</u></b>	2023247710
<b><u>A61Q 19 /-</u></b>	2020325223	2020325223	2023248188	2020211609	
2023233084	<b><u>B01J 10 /-</u></b>	2021461615			<b><u>B60K 15 /-</u></b>
<b><u>A62B 18 /-</u></b>	2022336758	<b><u>B21F 15 /-</u></b>	<b><u>B25J 15 /-</u></b>	<b><u>B33Y 30 /-</u></b>	2019421779
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<b><u>A62B 23 /-</u></b>		<b><u>B21F 27 /-</u></b>	2019387239	2020211609	2024204971
2022292955	2021471099	2019213358	<b><u>B25J 9 /-</u></b>	<b><u>B41F 13 /-</u></b>	<b><u>B60L 15 /-</u></b>
<b><u>A62C 2 /-</u></b>	2023222945		2019358807	2019370461	2022322688
2024202377	<b><u>B01J 16 /-</u></b>	<b><u>B22D 11 /-</u></b>	2019384824	<b><u>B41F 17 /-</u></b>	<b><u>B60L 5 /-</u></b>
	2021471099	2023216572	<b><u>B26D 1 /-</u></b>	2019370461	2023280788
<b><u>A62C 3 /-</u></b>	<b><u>B01J 19 /-</u></b>	<b><u>B22D 27 /-</u></b>	2022312359	2019372329	
2020416640	2020368580	2023216572	<b><u>B27F 5 /-</u></b>	<b><u>B41F 31 /-</u></b>	<b><u>B60L 50 /-</u></b>
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<b><u>A62C 37 /-</u></b>	2019296511	2019465017	<b><u>B29B 17 /-</u></b>	<b><u>B41J 13 /-</u></b>	2022322688
2020345080	2019376141	<b><u>B22F 5 /-</u></b>	2022257112	2020227214	2023247710
<b><u>A63B 21 /-</u></b>	<b><u>B01J 35 /-</u></b>	2019465017	<b><u>B29C 33 /-</u></b>	<b><u>B41J 3 /-</u></b>	<b><u>B60L 53 /-</u></b>
2022313167	2022336758	<b><u>B23D 55 /-</u></b>	2019411507	2020227214	2021299554
2023219892	<b><u>B01J 4 /-</u></b>	2022312359	<b><u>B29C 45 /-</u></b>	<b><u>B41M 5 /-</u></b>	2022355732
<b><u>A63B 22 /-</u></b>	2020277040	<b><u>B23K 37 /-</u></b>	2019411507	2022398570	2023262633
2021312222	2021471099	2019213358	<b><u>B29C 51 /-</u></b>	<b><u>B60B 21 /-</u></b>	<b><u>B60L 58 /-</u></b>
<b><u>A63B 71 /-</u></b>	<b><u>B01J 6 /-</u></b>	<b><u>B23K 9 /-</u></b>	2022396005	2023303573	2022322688
2021312222	2020277040	2022483841	<b><u>B29C 64 /-</u></b>	<b><u>B60B 27 /-</u></b>	<b><u>B60M 1 /-</u></b>
<b><u>A63F 1 /-</u></b>	<b><u>B01J 8 /-</u></b>	<b><u>B23P 19 /-</u></b>	2020211609	2023303573	2022425162
2023266386	2021471099	2019351870	2020247931	<b><u>B60B 9 /-</u></b>	<b><u>B60M 7 /-</u></b>
<b><u>A63F 11 /-</u></b>	<b><u>B02C 17 /-</u></b>	<b><u>B23Q 17 /-</u></b>	<b><u>B29C 70 /-</u></b>	2023233485	2022425162
2023266386	2021466603	2022312931	2020211609	2023235988	<b><u>B60N 2 /-</u></b>
<b><u>A63F 13 /-</u></b>	<b><u>B02C 23 /-</u></b>	<b><u>B23Q 7 /-</u></b>	<b><u>B32B 1 /-</u></b>	<b><u>B60C 1 /-</u></b>	2024204937
2020324231	2021466603		2024216007		<b><u>B60P 3 /-</u></b>
				2021251445	2021297159
					2024200114
					2025201960

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<b>B60R 1 /-</b>	<b>B61L 29 /-</b>	<b>B63G 8 /-</b>	<b>B65H 9 /-</b>	<b>C04B 28 /-</b>	2024200264
2020325062 2022427452	2024204190	2020364982	2023237916	2019339182	<b>C07D 403 /-</b>
<b>B60R 13 /-</b>	<b>B61L 3 /-</b>	<b>B63J 3 /-</b>	<b>B66B 19 /-</b>	<b>C04B 41 /-</b>	2022256612
2024204878	2020254708	2024220087	2020375136	2020327290	<b>C07D 405 /-</b>
<b>B60R 16 /-</b>	<b>B62D 21 /-</b>	<b>B64D 37 /-</b>	<b>B66F 11 /-</b>	<b>C05B 11 /-</b>	2022256612
2019341397 2022322688	2023255043	2020416640	2022434139	2020294428	<b>C07D 407 /-</b>
<b>B60R 3 /-</b>	<b>B62D 24 /-</b>	<b>B65B 35 /-</b>	<b>B66F 9 /-</b>	<b>C05B 15 /-</b>	2020387392
2020309305	2023255043	2019358807	2021299554 2024200262	2023226736 2023226743	<b>C07D 409 /-</b>
<b>B60S 3 /-</b>	<b>B62D 25 /-</b>	<b>B65D 1 /-</b>	<b>B67B 5 /-</b>	<b>C05B 7 /-</b>	2022256612
2020325223	2023255043	2020226531	2020350884	2020294428	<b>C07D 413 /-</b>
<b>B60T 17 /-</b>	<b>B62D 27 /-</b>	<b>B65D 5 /-</b>	<b>B67D 7 /-</b>	<b>C05B 9 /-</b>	2020387392 2022256612
2020287833	2023255043	2019342462	2020277040	2020294428	<b>C07D 417 /-</b>
<b>B60T 7 /-</b>	<b>B62D 33 /-</b>	<b>B65D 55 /-</b>	<b>B68G 5 /-</b>	<b>C05F 7 /-</b>	2020317524 2020387392 2022256612 2022395102
2020287833	2023255043	2020219221	2019438812	2020294428	<b>C07D 471 /-</b>
<b>B60T 8 /-</b>	<b>B62D 55 /-</b>	<b>B65D 65 /-</b>	<b>B82Y 15 /-</b>	<b>C07C 1 /-</b>	2019409936 2020215673 2022408746
2020287833	2022291489	2022396005	2019389908	2019296511	<b>C07C 215 /-</b>
<b>B60W 10 /-</b>	<b>B62D 59 /-</b>	<b>B65D 81 /-</b>	<b>B82Y 30 /-</b>	2024202205	<b>C07D 487 /-</b>
2024204406	2019361734	2019350621	2020256855	2024202205	2020241258 2020387392 2022256612 2022416644
<b>B60W 30 /-</b>	<b>B62D 63 /-</b>	<b>B65D 88 /-</b>	<b>C01B 3 /-</b>	<b>C07C 237 /-</b>	<b>C07D 491 /-</b>
2024204406	2019361734 2024200114	2022424430 2022425926 2023204137	2019296511 2022336758 2022346364	2020205717	2020387392 2022294861
<b>B60W 40 /-</b>	<b>B62J 11 /-</b>	<b>B65D 90 /-</b>	<b>C01B 32 /-</b>	<b>C07C 279 /-</b>	<b>C07D 495 /-</b>
2024204406	2020269512	2020226531	2022336758	2024220765	2023204218
<b>B61D 3 /-</b>	<b>B62J 9 /-</b>	<b>B65G 61 /-</b>	<b>C01F 5 /-</b>	<b>C07C 63 /-</b>	<b>C07F 7 /-</b>
2022380815	2020269512	2019358807	2025202013	2020219221	2019384692
<b>B61D 45 /-</b>	<b>B62L 1 /-</b>	<b>B65G 65 /-</b>	<b>C02F 1 /-</b>	<b>C07C 9 /-</b>	<b>C07F 9 /-</b>
2022380815	2020247974	2019361734 2023204137	2020221906 2020272671 2020294428 2022424191	2019296511	2024202205
<b>B61F 3 /-</b>	<b>B63B 21 /-</b>	<b>B65G 69 /-</b>	<b>C02F 3 /-</b>	<b>C07D 207 /-</b>	<b>C07H 19 /-</b>
2024219668	2020364982	2023204137	2017258843 2024339212	2020205717	2023270335
<b>B61F 5 /-</b>	<b>B63B 35 /-</b>	<b>B65H 5 /-</b>	<b>C02F 9 /-</b>	<b>C07D 233 /-</b>	<b>C07J 31 /-</b>
2024219668	2025203896	2023237916	2024339212	2020318598	2023204015
<b>B61K 9 /-</b>	<b>B63B 35 /-</b>	<b>B65H 54 /-</b>	<b>C03C 12 /-</b>	<b>C07D 239 /-</b>	<b>C07J 43 /-</b>
2020254708	2025203463	2019204871	2021437878	2022235956	2023204015
<b>B61L 15 /-</b>	<b>B63B 59 /-</b>	<b>B65H 57 /-</b>	<b>C03C 3 /-</b>	<b>C07D 307 /-</b>	<b>C07J 5 /-</b>
2020254708	2022313843	2019387239	2021437878	2024220765	2023204015
<b>B61L 27 /-</b>	<b>B63C 1 /-</b>	<b>B65H 59 /-</b>		<b>C07D 401 /-</b>	
2020254708	2020346748	2019204871		2020318598 2020318697 2020387392 2022235956 2022256612	
	<b>B63C 3 /-</b>				
	2020346748				

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<b>C07J 7 /-</b>	<b>C08L 7 /-</b>	2023285781	2023229539	<b>C23C 18 /-</b>	<b>D06M 16 /-</b>
2023204015	2021251445	<b>C11B 9 /-</b>	2023278074	2019479292	2022391895
<b>C07K 1 /-</b>	<b>C09B 69 /-</b>	2019373095	2024219872	<b>C23C 4 /-</b>	<b>D06M 23 /-</b>
2023229489	2024202205	<b>C11D 1 /-</b>	2025205147	2023203546	2023203546
<b>C07K 14 /-</b>	<b>C09D 11 /-</b>	2020227751	2025205526	<b>C12N 7 /-</b>	<b>D21H 13 /-</b>
2019227700	2020219221	<b>C11D 17 /-</b>	2019229653	2019296511	2019392874
2019419691	2020219221	<b>C11D 17 /-</b>	2019262149	2020306696	<b>D21H 17 /-</b>
2020231218	<b>C09D 129 /-</b>	2020219221	2019336940	2022256276	2019392874
2020233396	2020219221	<b>C12C 5 /-</b>	2019419691	2022391917	<b>D21H 19 /-</b>
2020336131	2020219221	<b>C12C 5 /-</b>	2021391330	2022424191	2022326658
2021297984	<b>C09D 133 /-</b>	2022303766	<b>C12N 9 /-</b>	2023226658	<b>D21H 19 /-</b>
2021333577	2020219221	<b>C12G 3 /-</b>	2019233918	2025202013	2022398570
2022280225	2020219221	<b>C12G 3 /-</b>	2019245479	<b>C25B 11 /-</b>	<b>D21H 27 /-</b>
2023229489	<b>C09D 175 /-</b>	2022303766	2019360344	2022391917	2019392874
2023278074	2020301564	<b>C12M 1 /-</b>	2020228277	2023226658	<b>D21J 3 /-</b>
<b>C07K 16 /-</b>	2022306591	<b>C12M 1 /-</b>	2020304536	2023226658	2022396005
2018366219	<b>C09D 5 /-</b>	2024219872	2022325230	<b>C25B 15 /-</b>	<b>D21J 3 /-</b>
2018383709	2020301564	<b>C12M 3 /-</b>	2023229539	2020306696	2022396005
2018414456	2022306591	<b>C12M 3 /-</b>	2023278074	<b>C25B 9 /-</b>	<b>D21J 5 /-</b>
2019205330	2020301564	2024219872	<b>C12Q 1 /-</b>	2020306696	2022396005
2019219061	2022306591	<b>C12N 1 /-</b>	2018328220	2022424191	<b>E01F 15 /-</b>
2019232372	<b>C09J 123 /-</b>	<b>C12N 1 /-</b>	2018357989	2023226658	2021297159
2019234220	2019445291	2018365071	2018428853	<b>C40B 50 /-</b>	<b>E01H 1 /-</b>
2019239568	2019445291	2022224198	2019233918	2021442183	<b>E01H 1 /-</b>
2019301070	<b>C09J 125 /-</b>	2022324851	2019276577	<b>D01D 5 /-</b>	2022252276
2019312565	2019445291	<b>C12N 15 /-</b>	2019290998	2020257792	<b>E01H 3 /-</b>
2019312801	<b>C09J 167 /-</b>	2018260998	2019319628	<b>D01F 6 /-</b>	2022252276
2019396761	2019445291	2019227700	2019360344	2020257792	<b>E02B 3 /-</b>
2019396895	<b>C09J 179 /-</b>	2019229653	2019419691	<b>D06F 33 /-</b>	2024220087
2019409936	2019445291	2019239653	2020228277	2022218062	<b>E02C 5 /-</b>
2020281378	<b>C09J 179 /-</b>	2019233918	2020235239	<b>D06F 34 /-</b>	2020346748
2020341213	2019445291	2019239971	2021432587	2022218062	<b>E02F 3 /-</b>
2021297984	<b>C09J 179 /-</b>	2019245479	2021442183	<b>D06F 37 /-</b>	2019361734
2021333577	2019445291	2019314529	2023229539	2020201474	2020200050
2021398061	<b>C09J 5 /-</b>	2019373340	2024201214	2022224922	<b>E02F 9 /-</b>
2022203180	2019445291	2019388011	2024219949	<b>D06F 39 /-</b>	2019361734
2022218544	<b>C09K 3 /-</b>	2019396895	2025204084	2022218062	2022257619
2022224198	2019376141	2020228277	<b>C12R 1 /-</b>	2022477090	2022319632
2022228198	<b>C09K 8 /-</b>	2020453143	2018365071	<b>D06F 58 /-</b>	2024203794
2022294861	2022377265	2021391330	2021391330	2022215409	<b>E03B 1 /-</b>
2023203314	<b>C10L 1 /-</b>	2021398061	<b>C22B 23 /-</b>	2022218062	2024204166
2023290533	2023254983	2021442183	2023446728	2022477090	<b>E03B 7 /-</b>
2025205147	2022377265	2022224198	<b>C22B 26 /-</b>	2020201474	2024204166
<b>C07K 19 /-</b>	<b>C10L 10 /-</b>	2022227005	2023201024	2022224922	<b>E03C 1 /-</b>
2021302126	2023254983	2022228362	2023201024	<b>D06M 10 /-</b>	2020317849
2023278074	<b>C10L 3 /-</b>	2023201024	2023203314	2022391895	
<b>C07K 7 /-</b>	2019296511	2023203314	2023229539	2023203546	
2019335513	<b>C10L 5 /-</b>	2023229539	2024223881		
<b>C08G 18 /-</b>	2023285781	2024223881	2025205147		
2020301564	<b>C10L 9 /-</b>	2025205147	<b>C12N 5 /-</b>		
2022306591	2023285781	<b>C12N 5 /-</b>	2019227700		
<b>C08J 11 /-</b>	<b>C10L 9 /-</b>	2019227700	2019289973		
2022257112	2023285781	2019289973	2019370723		
<b>C08L 15 /-</b>		2019370723	2019388011		
2021251445		2020453143	2020453143		
		2021391330	2021391330		
		2021398061	2022224198		
		2022224198	2023200874		
		2023200874	2023203314		

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<b><u>E04B 1 /-</u></b>	<b><u>E05C 19 /-</u></b>	<b><u>E21B 34 /-</u></b>	2019365492	<b><u>F16C 19 /-</u></b>	<b><u>F16L 19 /-</u></b>
2019336329	2018256525		<b><u>F03D 1 /-</u></b>	2022242562	2019351870
2021337480	<b><u>E05C 3 /-</u></b>	2019465017	2020212316	<b><u>F16C 25 /-</u></b>	<b><u>F16L 23 /-</u></b>
<b><u>E04B 7 /-</u></b>	2018256525	2020443367	<b><u>F03D 13 /-</u></b>	2022242562	2019351870
2020287127	<b><u>E05D 11 /-</u></b>	<b><u>E21B 41 /-</u></b>	2021475713	<b><u>F16C 33 /-</u></b>	<b><u>F16L 3 /-</u></b>
<b><u>E04C 2 /-</u></b>	2023313077	2019479292	2022376005	2023421988	2019250105
2020287127	<b><u>E05F 11 /-</u></b>	2020401277	<b><u>F04D 1 /-</u></b>	<b><u>F16C 35 /-</u></b>	<b><u>F16L 33 /-</u></b>
<b><u>E04C 5 /-</u></b>	2025201960	2019467888	2022417725	2022242562	2020223900
2019213358	<b><u>E05F 15 /-</u></b>	2020401277	<b><u>F04D 13 /-</u></b>	<b><u>F16C 39 /-</u></b>	<b><u>F16L 37 /-</u></b>
2021337480	2020317454	2020426042	2022417725	2022242562	2019351870
<b><u>E04F 15 /-</u></b>	2023237072	2022377265	<b><u>F04D 29 /-</u></b>	2022242562	2019411507
2021253599	<b><u>E05G 5 /-</u></b>	<b><u>E21B 44 /-</u></b>	2022417725	<b><u>F16C 41 /-</u></b>	2019456730
<b><u>E04F 17 /-</u></b>	2019250105	2019467888	<b><u>F04D 31 /-</u></b>	2022242562	<b><u>F16L 5 /-</u></b>
2024202377	<b><u>E06B 11 /-</u></b>	2021443833	2022417725	<b><u>F16D 13 /-</u></b>	2024202377
<b><u>E04G 21 /-</u></b>	2020317454	2020443367	<b><u>F04D 7 /-</u></b>	2020245761	<b><u>F16L 55 /-</u></b>
2020201769	<b><u>E06C 1 /-</u></b>	<b><u>E21B 7 /-</u></b>	2022417725	<b><u>F16D 3 /-</u></b>	2021461615
<b><u>E04G 5 /-</u></b>	2020349122	2019387239	<b><u>F15B 11 /-</u></b>	2023280788	2024202377
2019250105	<b><u>E06C 7 /-</u></b>	2020456100	2022434139	<b><u>F16D 65 /-</u></b>	<b><u>F16L 58 /-</u></b>
2022423389	2020349122	<b><u>E21D 11 /-</u></b>	<b><u>F15B 13 /-</u></b>	2020245761	2019351870
<b><u>E04G 7 /-</u></b>	<b><u>E21B 10 /-</u></b>	2019213358	2022434139	2020247974	<b><u>F16L 59 /-</u></b>
2022423389	2024200892	<b><u>E21D 20 /-</u></b>	<b><u>F16B 2 /-</u></b>	<b><u>F16F 9 /-</u></b>	2019351870
<b><u>E04H 12 /-</u></b>	<b><u>E21B 15 /-</u></b>	2021443833	2018253613	2023235988	<b><u>F16M 11 /-</u></b>
2018253613	2019387239	<b><u>E21D 21 /-</u></b>	2023248188	<b><u>F16H 55 /-</u></b>	2022376005
2021475713	2019387239	2020213604	<b><u>F16B 25 /-</u></b>	2020245761	<b><u>F16N 11 /-</u></b>
<b><u>E04H 4 /-</u></b>	<b><u>E21B 17 /-</u></b>	<b><u>F01K 3 /-</u></b>	2023208153	<b><u>F16K 1 /-</u></b>	2020242565
2020390446	2019445291	2020272144	<b><u>F16B 37 /-</u></b>	2019414430	<b><u>F16N 13 /-</u></b>
2021234221	2020401277	2020372816	2020332881	<b><u>F16K 15 /-</u></b>	2020242565
<b><u>E04H 7 /-</u></b>	<b><u>E21B 19 /-</u></b>	<b><u>F02C 3 /-</u></b>	<b><u>F16B 39 /-</u></b>	2019414430	<b><u>F16P 3 /-</u></b>
2022424430	2019387239	2023278050	2020332881	2024200892	2022312931
2022425926	2020367801	<b><u>F02C 7 /-</u></b>	<b><u>F16B 5 /-</u></b>	<b><u>F16K 27 /-</u></b>	<b><u>F17C 5 /-</u></b>
<b><u>E05B 65 /-</u></b>	<b><u>E21B 21 /-</u></b>	2023278050	2019250105	2024200892	2019414430
2018256525	2019467888	<b><u>F02C 9 /-</u></b>	<b><u>F16B 7 /-</u></b>	<b><u>F16K 31 /-</u></b>	2022346364
<b><u>E05B 81 /-</u></b>	<b><u>E21B 23 /-</u></b>	2023278050	2018253613	2019414430	<b><u>F17D 5 /-</u></b>
2022428975	2020401277	<b><u>F02K 9 /-</u></b>	2023248188	2022299892	2019409127
2020456100	2020456100	2021405132	<b><u>F16B 9 /-</u></b>	<b><u>F16L 1 /-</u></b>	<b><u>F21V 25 /-</u></b>
<b><u>E05B 85 /-</u></b>	<b><u>E21B 31 /-</u></b>	<b><u>F02M 21 /-</u></b>	2020332881	2019351870	2020211716
2022428975	2020443367	2022346364	<b><u>F16C 11 /-</u></b>	2024204166	<b><u>F23N 5 /-</u></b>
<b><u>E05B 9 /-</u></b>	<b><u>E21B 33 /-</u></b>	<b><u>F02M 37 /-</u></b>	2020349122	<b><u>F16L 101 /-</u></b>	2024203728
2018256525	2019465017	2019421779	<b><u>F16C 17 /-</u></b>	<b><u>F16L 13 /-</u></b>	<b><u>F23R 3 /-</u></b>
<b><u>E05C 1 /-</u></b>	2019479292	<b><u>F03B 13 /-</u></b>	2023421988	2020223900	2023278050
2025201960	2020341776				
	2020426042				
	2020456100				
	2022377265				

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<b><u>F24C 1 /-</u></b>	<b><u>F25C 1 /-</u></b>	<b><u>F41A 35 /-</u></b>	<b><u>G01N 21 /-</u></b>	<b><u>G02B 27 /-</u></b>	<b><u>G06F 21 /-</u></b>
2024203728	2023204339	2023208139	2019389908	2022427452	2019279983
<b><u>F24C 3 /-</u></b>	2023204359	<b><u>F42D 1 /-</u></b>	2020304536	2023286023	2020315424
2024203728	2023206135	2021399178	2024227037	<b><u>G02B 5 /-</u></b>	2024202880
<b><u>F24C 7 /-</u></b>	2023206156	<b><u>G01B 13 /-</u></b>	<b><u>G01N 27 /-</u></b>	2019389908	2024203136
2020289696	<b><u>F25C 5 /-</u></b>	2023255824	2019409127	2022312931	<b><u>G06F 3 /-</u></b>
<b><u>F24F 1 /-</u></b>	2022398051	<b><u>G01D 11 /-</u></b>	<b><u>G01N 29 /-</u></b>	<b><u>G02B 6 /-</u></b>	2020324231
2022286271	2023204339	2022313843	2019409127	2019456730	<b><u>G06F 3 /-</u></b>
2022326662	2023204359	<b><u>G01D 3 /-</u></b>	2020301305	<b><u>G02B 7 /-</u></b>	2020214643
<b><u>F24F 11 /-</u></b>	2023206135	2022313843	2023234294	2023286023	2024203944
2022357654	2023206156	<b><u>G01D 3 /-</u></b>	<b><u>G01N 33 /-</u></b>	<b><u>G02C 11 /-</u></b>	<b><u>G06F 40 /-</u></b>
2022396650	2022399647	2020386666	2018328220	2023274119	2021201352
<b><u>F24F 120 /-</u></b>	2023204339	<b><u>G01G 19 /-</u></b>	2018357989	<b><u>G02C 7 /-</u></b>	2023258338
2022396650	2023204359	2020386666	2019276577	2022374966	<b><u>G06F 9 /-</u></b>
<b><u>F24F 13 /-</u></b>	2023206135	<b><u>G01G 3 /-</u></b>	2019290998	<b><u>G02F 1 /-</u></b>	2020275105
2022286271	2023206156	2020386666	2019396761	2023225930	2024203136
<b><u>F24F 140 /-</u></b>	<b><u>F25D 11 /-</u></b>	<b><u>G01J 3 /-</u></b>	2019419702	<b><u>G03G 21 /-</u></b>	<b><u>G06N 10 /-</u></b>
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<b><u>F24H 9 /-</u></b>	<b><u>F25D 17 /-</u></b>	<b><u>G01K 1 /-</u></b>	2020304536	<b><u>G05B 13 /-</u></b>	<b><u>G06N 20 /-</u></b>
2020354788	2022399647	2022457584	2020453143	2024204806	2019409127
<b><u>F25B 1 /-</u></b>	2023204339	<b><u>G01K 11 /-</u></b>	2021432587	2024287082	2023258338
2020325952	2023204359	2022457584	2022270155	<b><u>G05B 19 /-</u></b>	<b><u>G06N 3 /-</u></b>
2023242028	2023206135	<b><u>G01L 1 /-</u></b>	2024202205	2024204806	2019409127
<b><u>F25B 11 /-</u></b>	2023206156	2019351870	<b><u>G01N 35 /-</u></b>	<b><u>G05B 23 /-</u></b>	2021319102
2020325952	<b><u>F25D 29 /-</u></b>	<b><u>G01L 5 /-</u></b>	2019384824	2024202349	2023251527
2020325952	2023204339	2020386666	<b><u>G01P 3 /-</u></b>	2024204806	2024200562
<b><u>F25B 31 /-</u></b>	2023204359	<b><u>G01M 17 /-</u></b>	<b><u>G01R 31 /-</u></b>	2024287082	2024203136
2020325952	2023206135	2019351870	<b><u>G01R 33 /-</u></b>	<b><u>G05D 1 /-</u></b>	2024287082
<b><u>F25B 39 /-</u></b>	2023206156	2020386666	<b><u>G01S 13 /-</u></b>	2022252276	<b><u>G06N 5 /-</u></b>
2022357257	<b><u>F25J 1 /-</u></b>	<b><u>G01M 3 /-</u></b>	2024200065	2024200262	2022443191
<b><u>F25B 47 /-</u></b>	2020325952	2020254708	<b><u>G01S 17 /-</u></b>	2024287082	<b><u>G06N 7 /-</u></b>
2022357257	<b><u>F25J 5 /-</u></b>	2019409127	<b><u>G01S 7 /-</u></b>	<b><u>G05D 23 /-</u></b>	2024202349
<b><u>F25B 49 /-</u></b>	2020325952	2022457584	2023237072	2020354788	2024287082
2022357257	<b><u>F27D 27 /-</u></b>	<b><u>G01M 5 /-</u></b>	<b><u>G01S 7 /-</u></b>	<b><u>G05D 7 /-</u></b>	<b><u>G06Q 10 /-</u></b>
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<b><u>F25B 6 /-</u></b>	<b><u>F28D 1 /-</u></b>	<b><u>G01N 1 /-</u></b>	<b><u>G01V 1 /-</u></b>	<b><u>G05F 1 /-</u></b>	2020275105
2022357654	2022357257	2019384824	2020364982	2024219540	2024203136
<b><u>F25B 7 /-</u></b>	<b><u>F28D 20 /-</u></b>	2020301305	2021319102	<b><u>G06F 16 /-</u></b>	<b><u>G06Q 20 /-</u></b>
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<b><u>F25B 9 /-</u></b>	2020372816	2023286023	<b><u>G02B 19 /-</u></b>	2022328309	<b><u>G06Q 50 /-</u></b>
2022357257	<b><u>F28D 9 /-</u></b>	<b><u>G01N 17 /-</u></b>	2023286023	2023263498	2024203136
<b><u>F25B 9 /-</u></b>	<b><u>F41A 17 /-</u></b>	2022457584	<b><u>G02B 21 /-</u></b>	<b><u>G06F 17 /-</u></b>	<b><u>G06T 5 /-</u></b>
2020325952	2023208139	2019389908	2019389908	2024202349	

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2023251527	<b>H01B 13 /-</b>		2020256855	<b>H04L 61 /-</b>	2023285970
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<b>G06V 10 /-</b>	2020227214	<b>H01R 25 /-</b>		2022309125	2024200898
		2023280788	<b>H02S 50 /-</b>		
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<b>G06V 30 /-</b>	2020227180	<b>H01R 41 /-</b>		2022416217	2023200621
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2021201352	<b>H01F 6 /-</b>		2020221785	<b>H04L 7 /-</b>	
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		2020227214	<b>H04B 10 /-</b>	2020259189	<b>H04W 60 /-</b>
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		2021301437	2020269575	2020315424	<b>H04W 72 /-</b>
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	2021405132	<b>H02G 3 /-</b>	2020269575	2021297264	2022330226
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	2023226658	<b>H02J 15 /-</b>	2020391605		
2022311800	2024219713		2020404480	<b>H04N 5 /-</b>	2023200621
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			2023263498	2020324231	
2023251527	2020219221	<b>H02J 3 /-</b>	<b>H04L 27 /-</b>	<b>H04N 7 /-</b>	<b>H05B 1 /-</b>
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	2023226658	2020350671	2020269575	2020371990	<b>H05B 45 /-</b>
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<b>G21B 1 /-</b>		2024219540		<b>H04R 1 /-</b>	2020211716
	2021276383	<b>H02J 7 /-</b>	2020331235		<b>H05B 47 /-</b>
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	2024204971	2020272555	<b>H04L 43 /-</b>	<b>H04N 12 /-</b>	2020211716
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		2021299554	2020331235	2020315424	<b>H05B 6 /-</b>
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		2024227143	<b>H04L 47 /-</b>		<b>H05G 1 /-</b>
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<b>G21D 9 /-</b>		2023259558	<b>H04L 49 /-</b>		<b>H05H 1 /-</b>
	2021472065	<b>H02M 3 /-</b>		2022434487	2020227180
2020272144	<b>H01Q 21 /-</b>		2022309125	2023200621	2023203546
2020372816		2023259558	<b>H04L 5 /-</b>	<b>H04W 4 /-</b>	
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			2022380980	2023200621	2020318462
				2023201275	



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**H10F 77 /-**

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**Certified Innovation Patents****Name Index**

(This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

- 
- (71) YGCC Holdings Pty Ltd  
(11) AU-B-2021104133  
(21) 2021104133 (22) 14.07.2021  
(54) A DEPALLETISING SYSTEM AND  
METHOD OF USE THEREOF  
(51) Int. Cl.  
    *B65D 19/38* ( 2006.01 )  
    *B65G 59/06* ( 2006.01 )  
    *B66F 9/12* ( 2006.01 )  
    *B66F 9/19* ( 2006.01 )  
(45) 11.09.2025  
(72) Carl, Corey; Curnow, Joel  
(74) KINGS PATENT & TRADE MARKS AT-  
TORNEYS PTY LTD

**Numerical Index**

**2021104133** YGCC Holdings Pty Ltd

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B65G 59 /-

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2021104133

**Opposition Proceedings**

(The name in parentheses is that of the opponent)

**Opposition Dismissed - Proceed to Grant**

2022381709 **BTL HEALTHCARE TECHNOLOGIES A.S.** ( EBOS Aesthetics Pty Limited )

**Patents Granted**

**Standard Patents**

2017434946	2018269039	2018277102	2018277545
2018300189	2018304957	2018313810	2018334965
2018345601	2018348195	2018365677	2018366213
2018370818	2018375164	2018386654	2019202766
2019203172	2019205942	2019215212	2019230061
2019231273	2019234474	2019236211	2019240026
2019252777	2019253139	2019261403	2019261690
2019266314	2019270253	2019273874	2019284218
2019284620	2019287491	2019291190	2019293232
2019303966	2019304570	2019306036	2019314355
2019316502	2019336221	2019337104	2019340161
2019343999	2019345287	2019345296	2019345848
2019350611	2019351809	2019352873	2019355082
2019355801	2019359122	2019361900	2019361965
2019370341	2019372228	2019373460	2019375880
2019376012	2019380525	2019381617	2019384518
2019384784	2019385117	2019387329	2019390252
2019392474	2019394008	2019394257	2019395908
2019407445	2019407851	2019410757	2019417023
2019438631	2019459221	2020201063	2020202306
2020202717	2020203147	2020204128	2020204681
2020208640	2020209466	2020213324	2020218269
2020220082	2020222506	2020225256	2020225290
2020231576	2020233198	2020246928	2020252008
2020253832	2020254955	2020256847	2020265205
2020267769	2020270966	2020271620	2020271997
2020275094	2020275845	2020286350	2020287198
2020287915	2020288638	2020289007	2020289016
2020294205	2020299807	2020309602	2020313978
2020318458	2020320448	2020328510	2020329062
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2021251382	2021282971	2021292374	2021307516
2021309101	2021358994	2021366096	2021371160
2021377614	2021379930	2021380943	2021384298
2021385271	2021385689	2021386899	2021388477
2021388877	2021390035	2021399016	2021405505
2021409960	2021410602	2021413954	2021430178
2021440327	2021442398	2021442655	2021464033
2021470184	2022201076	2022201973	2022202730
2022203222	2022214135	2022221408	2022224748
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2022235633	2022235636	2022235791	2022242956
2022246681	2022248214	2022250572	2022250998
2022258189	2022259851	2022260824	2022263994
2022265896	2022268373	2022269916	2022273702
2022275971	2022278818	2022279406	2022283829
2022286458	2022290902	2022291636	2022291664
2022300667	2022303802	2022306970	2022313571
2022317695	2022325946	2022326764	2022334269
2022354108	2022359887	2022371213	2022380663
2022382475	2022383218	2022383681	2022386109
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2022459565	2023200256	2023200835	2023200971
2023200997	2023201093	2023201108	2023201864
2023202053	2023202111	2023202203	2023202362
2023202699	2023202744	2023203071	2023203102
2023203297	2023203447	2023203509	2023203914
2023204131	2023204413	2023208078	2023208170

**Patents Granted**

**Standard Patents**

2023210031	2023210657	2023211162	2023216805
2023216890	2023219887	2023219939	2023219942
2023222975	2023223405	2023226681	2023233211
2023237138	2023238778	2023263500	2023266234
2023268976	2023270224	2023270264	2023274127
2023282302	2023286031	2023310043	2023382736
2023384477	2024200158	2024200202	2024200244
2024200406	2024200777	2024201025	2024201121
2024201576	2024201711	2024202020	2024202058
2024203306	2024203336	2024204613	2024205256
2024216329	2024227240	2024227409	2024264734
2024278627	2024287156	2024324263	2025202661

**Innovation Patents**

2019101868 2019101869

**Assignments Registered**

2006252834 Baxter International Inc.; Baxter Healthcare S.A.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2007234389 CUSTOM SENSORS AND TECHNOLOGY The patent has been assigned to **Neolitics, Inc.**

2007248194 Baxter International Inc.; Baxter Healthcare S.A.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2008242976 Heissenberg, Michael The patent has been assigned to **ESS Manufacturing, Inc.**

2008316727 Baxter Healthcare S.A.; Baxter International Inc.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2009201271 LEONARDO S.p.a. The patent has been assigned to **WASS Submarine Systems S.r.l.**

2009225375 Hameur S.A. The patent has been assigned to **RO-BOT-COUCPE SNC**

2009333235 Nico Corporation The patent has been assigned to **Stryker Corporation**

2011200189 VKR Holding A/S The patent has been assigned to **MONODRAUGHT LIMITED**

2011201718 Baxter International Inc.; Baxter Healthcare S.A.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2011338841 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2011361932 Fellus, Patrick The patent has been assigned to **BI-OTECH DENTAL SMILERS**

2012225740 Baxter International Inc.; Baxter Healthcare S.A.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2012225742 Baxter International Inc.; Baxter Healthcare S.A.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2012227261 Baxter International Inc.; Baxter Healthcare S.A.  
The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**Assignments Registered**

2012227262 Baxter International Inc.; Baxter Healthcare S.A. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2012271487 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2012300401 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2012325601 Dalhousie University The patent has been assigned to **Daxsonics Ultrasound Inc.**

2013204134 Bayer New Zealand Limited The patent has been assigned to **Elanco New Zealand**

2013209331 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2013209332 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2013209534 Baxter Healthcare S.A.; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2013276966 Baxter Healthcare S.A.; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2013323662 NICO Corporation The patent has been assigned to **Stryker Corporation**

2013407812 Skyscanner Limited The patent has been assigned to **Skyscanner Technology Limited**

2014205646 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2014237003 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2014239600 Baxter Healthcare SA; Northwestern University; Baxter International Inc. The patent has been assigned to **Vantive US Healthcare LLC; Northwestern University; Baxter Healthcare SA**

2014240575 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2014241074 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2014242274 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2014247928 Molecular Assemblies, Inc. The patent has been assigned to **TriLink BioTechnologies, LLC**

2014274766 Baxter International Inc.; Northwestern University; Baxter Healthcare SA The patent has been assigned to **Vantive US Healthcare LLC; Northwestern University; Baxter Healthcare SA**

2014345540 Butchers & Bicycles ApS The patent has been assigned to **EventyrCykler ApS**

2014345540 EventyrCykler ApS The patent has been assigned to **Safe Marine Service Holding ApS**

**Assignments Registered**

2014354852 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2014363194 Skyscanner Limited The patent has been assigned to **Skyscanner Technology Limited**

2014389741 Baxter International Incorporated The patent has been assigned to **Vantive US Healthcare LLC**

2015200995 Baxter Healthcare S.A.; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2015202293 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2015238042 Skyscanner Limited The patent has been assigned to **Skyscanner Technology Limited**

2016216665 Baxter International Inc; Baxter Healthcare SA The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2017251871 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2017252508 Skyscanner Limited The patent has been assigned to **Skyscanner Technology Limited**

2017338773 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2017379899 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2018200722 Baxter International Inc; Baxter Healthcare SA The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2018201715 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2018202940 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2018218307 University College Cardiff Consultants Limited The patent has been assigned to **Draig Therapeutics Ltd**

2018229421 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2018236688 Baxter Healthcare SA; Baxter International Inc The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2018274995 Baxter Healthcare S.A.; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2018278929 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2018285814 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**Assignments Registered**

2018345627 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2019201052 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2019203680 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2019222350 Theravalues Corporation The patent has been assigned to **Handok Healthcare Inc.**

2019226718 University College Cardiff Consultants Limited The patent has been assigned to **Draig Therapeutics Ltd**

2019279913 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2019279973 Baxter International Inc; Baxter Healthcare SA The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2019283944 Gen9, Inc. The patent has been assigned to **Ginkgo Bioworks, Inc.**

2019285827 Imperial College Innovations Limited; Hunt Developments (UK) LTD. The patent has been assigned to **Hansel, Trevor; Hunt Developments (UK) LTD.**

2019299422 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2019309875 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2019324953 OutofBox Solutions Tech Pty Ltd The patent has been assigned to **OUTOFBOX SOLUTIONS PTY LTD**

2019335193 Yield10 Bioscience, Inc. The patent has been assigned to **NUSEED NUTRITIONAL US INC.**

2019443395 South China University of Technology The patent has been assigned to **Shen Zhen Huaqiang Electric Technology Co., Ltd.**

2020200961 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Vantive US Healthcare LLC; Baxter Healthcare SA**

2020204015 Baxter Healthcare SA; Baxter International Inc The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2020244388 Skyscanner Limited The patent has been assigned to **Skyscanner Technology Limited**

2020374919 Dongbao Purple Star (Hangzhou) Biopharmaceutical Co., Ltd. The patent has been assigned to **TONGHUA DONGBAO PHARMACEUTICAL CO., LTD.; TONGHUA DONGBAO PHARMACEUTICAL CO., LTD.**

2020418894 South China University of Technology The patent has been assigned to **Shen Zhen Huaqiang Electric Technology Co., Ltd.**

2021202238 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

**Assignments Registered**

2021202246 Baxter International Inc; Baxter Healthcare SA The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021240147 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021240299 Baxter International Inc; Baxter Healthcare SA The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2021261641 hearX IP (Pty) Ltd. The patent has been assigned to **LXE Hearing, Inc.**

2021290244 Baxter International Inc; Baxter Healthcare SA The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2022256096 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023200292 Baxter Healthcare SA; Baxter International Inc. The patent has been assigned to **Baxter Healthcare SA; Vantive US Healthcare LLC**

2023200916 Skyscanner Limited The patent has been assigned to **Skyscanner Technology Limited**

**Mortgages Registered - Section 187, Reg. 19**

(The name in the parentheses is that of the mortgagee)

2011265093 Targus International LLC ( FGI Worldwide LLC )

2012212087 Targus International LLC ( FGI Worldwide LLC )

2013205074 Targus International LLC ( FGI Worldwide LLC )

2015200203 Targus International LLC ( FGI Worldwide LLC )

2016201721 Targus International LLC ( FGI Worldwide LLC )

2017202751 Targus International LLC ( FGI Worldwide LLC )

2017322216 Targus International LLC ( FGI Worldwide LLC )

2018302723 Targus International LLC ( FGI Worldwide LLC )

2020345678 Targus International LLC ( FGI Worldwide LLC )

2022204650 Targus International LLC ( FGI Worldwide LLC )

2022215158 Targus International LLC ( FGI Worldwide LLC )

2023219971 Targus International LLC ( FGI Worldwide LLC )

**Extensions of Term of Standard Patents**

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

**Applications Accepted**

The following application(s) for Extension of Term have been accepted under Section 74.

Notice of opposition under Section 75(1) to the undermentioned application(s) for an extension of term may be filed at the Patent Office within the prescribed time.

2014331604 **Alnylam Pharmaceuticals, Inc.; Icahn School of Medicine at Mount Sinai**

The earliest first regulatory approval date provided by the patentee 28 Nov 2023

**Extensions of Term of Standard Patents**

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

**Applications Accepted**

For the goods GIVLAARI givosiran

Address for service : Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

2018203098 **Anylam Pharmaceuticals, Inc.; Icahn School of Medicine at Mount Sinai**

The earliest first regulatory approval date provided by the patentee 28 Nov 2023

For the goods GIVLAARI givosiran

Address for service : Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

2020286311 **Anylam Pharmaceuticals, Inc.; ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI**

The earliest first regulatory approval date provided by the patentee 28 Nov 2023

For the goods GIVLAARI givosiran

Address for service : Griffith Hack Level 15, 376-390 Collins Street Melbourne VIC 3000 AU

**Extensions granted**

The following application(s) for Extension of Term have been granted under Section 76.

2014200559 **ATNX SPV, LLC**

The earliest first regulatory approval date provided by the patentee 23 Feb 2024

For the goods ONAKTA tirbanibulin

Extension of Term of patent pursuant to Section 77 expires on 28 Dec 2032

2018330163 **ATNX SPV, LLC**

The earliest first regulatory approval date provided by the patentee 23 Feb 2024

For the goods ONAKTA tirbanibulin

Extension of Term of patent pursuant to Section 77 expires on 23 Feb 2039

**Corrigenda**

In Vol 59 , No 35 , Page(s) 4679 under the heading **Amendments - Application for Amendments** Under the name of Vivo Mobile Communication Co., Ltd., Patent No. 2021343368 correct the date of the statements filed to read 22 May 2025 and 25 Jul 2025

In Vol 59 , No 36 , Page(s) 4826 under the heading **Amendments - Application for Amendments** Under the name of Amgen Inc., Patent No. 2015259228 correct the date of the statements filed to read 11 Feb 2025, 06 Jun 2025 and 31 Jul 2025

**Specifications Republished**

The following specifications contained errors when advertised OPI, Accepted or Certified. They have been reissued on the date of this Journal.

2019389621 **Subsea 7 Norway AS**  
 2020249237 **Syngenta Crop Protection AG**  
 2020308096 **Qualcomm Incorporated**  
 2022271376 **Editas Medicine, Inc.**  
 2022417467 **ALPHA TAU MEDICAL LTD.**



**SECTION 105(1) PATENTS ACT 1990 (CTH)**

**Advertisement for publication in Official Journal**

**Patent Matter Details**

Australian Patent No. 2005299716 in the name of Amgen Inc. titled “Methods of refolding recombinant antibodies”.

**Identity of Court Proceeding**

Federal Court Proceeding No. NSD 919/2025 – Amgen Inc & Anor v Sandoz Pty Ltd (ACN 075 449 553).

**Particulars of Proposed Amendments**

The particulars of the amendments sought are shown in the attached documents (in clean and marked up form) and are as follows:

- (a) to delete Description pages 5a-5b on file and to replace with pages 5a-5c;  
and
- (b) to insert new Claims pages 88-89.

**Address for service**

**The First and Second Applicants’ address for service is:**

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Attention: Natalie Shoolman  
Email: [natalie.shoolman@wrays.com.au](mailto:natalie.shoolman@wrays.com.au)

**The Respondent’s address for service is:**

Pearce IP  
Level 3, 32 Martin Place  
Sydney NSW 2000  
Attention: Naomi Pearce  
Email: [naomi.pearce@pearceIP.law](mailto:naomi.pearce@pearceIP.law)

2005299716 22 Aug 2025

**Opposition**

Any person intending to oppose the application who is not a party to the proceeding must, within 28 days after publication of this advertisement, give written notice of that intention to:

- (a) the Commissioner; and
- (b) each party to the proceeding at the above addresses for service.

**SUMMARY OF THE INVENTION**

The present invention is directed to providing efficient and economic production, purification and analysis of active polypeptides that have proven refractory to existing methods of recombinant production due to the presence of scrambled disulfide bonds, and free or unpaired cysteine residue. More particularly, the invention describes methods of refolding proteins to produce improved pharmaceutical and crystallization properties. As described in further detail hereinbelow, the addition of reduction/oxidation (redox) coupling reagents can facilitate the formation of native-like disulfide bonds in the recombinant proteins and thus produce structurally homogeneous, more active forms of the molecule.

One aspect according to the invention provides a method of producing a recombinant IgG antibody, (e.g., an IgG1, an IgG2, an IgG3 or an IgG4 antibody) comprising: contacting a polypeptide that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11. The method may optionally comprise contacting said preparation with a chaotropic agent before, after or concurrently with said contacting with said reduction/oxidation coupling reagent. In some embodiments, the polypeptide is a recombinant IgG1. More preferably, the IgG1 is an IgG1 having at least one free cysteine residue. An exemplary such antibody is the antibody designated as 146B7 in US Publication Nos. 2003/0138421; 2003/023586; and 2004/0071702, all of which are incorporated by reference herein in their entireties, hi-in other preferred embodiments, the IgG is an IgG2 molecule. Preferably, the method reduces the heterogeneity of the IgG2 molecule. Other embodiments involve methods of refolding IgG4 molecules to decrease the presence of IgG4 half molecules (referred to as "half-mers" herein).

There is therefore provided a method of producing an IgG2 antibody preparation enriched for one of several IgG2 structural variants which differ by disulfide connectivity in the hinge region, comprising contacting a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent, wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms, corresponding to said several IgG2 structural variants, on RP-HPLC, (ii) said contacting in the absence of a chaotropic agent enriches one of said several IgG2 structural variants, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several IgG2 structural variants.

There is also provided a method of producing a recombinant IgG2 antibody, or an IgG2 antibody fragment comprising: contacting an IgG2 antibody or an IgG2 antibody fragment that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent; wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms on RP-HPLC which differ by disulfide connectivity in the hinge region, (ii) said contacting in the absence of a chaotropic agent enriches one of said several separate forms, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several separate forms.

Accordingly, the methods of the present invention are particularly directed to refolding recombinant forms of  $\alpha$ -IgG antibodies. An example of the production of such an  $\alpha$ -IgG antibody is the production of a recombinant antibody by the recombinant expression of that antibody in CHO cells. An exemplary IgG1 antibody is described in the aforementioned U.S. Publications, 146B7 is a fully human antibody, i.e., IgG1, directed against human IL-15.

In another embodiment, the invention comprises a method of producing an IgG2 antibody preparation enriched for one of several IgG2 structural variants which differ by disulfide connectivity in the hinge region, comprising: contacting a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the presence of a chaotropic agent, wherein said IgG2 antibody to be subjected to the method elutes as several separate forms, corresponding to said several IgG2 structural variants, on RP-HPLC.

In a further embodiment, the invention comprises a method of enriching for one form of a recombinant IgG2 antibody, comprising contacting an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent; wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms on RP-HPLC which differ by disulfide connectivity in the hinge region, (ii) said contacting in the absence of a chaotropic agent enriches one of said several separate forms, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several separate forms.

In yet another embodiment, the invention comprises any of the methods described, with the additional step of measuring the relative proportion of one or more of the IgG2 separate forms.

In a preferred embodiment, the invention further comprises the step of comparing the measured relative proportion of one or more of the IgG2 separate forms with a desired relative proportion of the one or more of the IgG2 separate forms.

In a preferred embodiment, the contacting of a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling agent occurs in the fermentation medium in which the IgG2 antibody is being produced. In another preferred embodiment, the contacting of a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a chaotropic agent occurs in the fermentation medium in which the IgG2 antibody is being produced.

In preferred embodiments, the IgG2 antibody is a human antibody.

As noted above, certain embodiments of the invention provide a recombinant IgG1 antibody that has a free or unpaired cysteine residue. An antibody with an unpaired cysteine is understood to have one or more free cysteine residues, wherein a free cysteine

**[Text Continued on Page 6]**

## SUMMARY OF THE INVENTION

The present invention is directed to providing efficient and economic production, purification and analysis of active polypeptides that have proven refractory to existing methods of recombinant production due to the presence of scrambled disulfide bonds, and free or unpaired cysteine residue. More particularly, the invention describes methods of refolding proteins to produce improved pharmaceutical and crystallization properties. As described in further detail hereinbelow, the addition of reduction/oxidation (redox) coupling reagents can facilitate the formation of native-like disulfide bonds in the recombinant proteins and thus produce structurally homogeneous, more active forms of the molecule.

One aspect according to the invention provides a method of producing a recombinant IgG antibody, (e.g., an IgG1, an IgG2, an IgG3 or an IgG4 antibody) comprising: contacting a polypeptide that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11. The method may optionally comprise contacting said preparation with a chaotropic agent before, after or concurrently with said contacting with said reduction/oxidation coupling reagent. In some embodiments, the polypeptide is a recombinant IgG1. More preferably, the IgG1 is an IgG1 having at least one free cysteine residue. An exemplary such antibody is the antibody designated as 146B7 in US Publication Nos. 2003/0138421; 2003/023586; and 2004/0071702, all of which are incorporated by reference herein in their entireties, in other preferred embodiments, the IgG is an IgG2 molecule. Preferably, the method reduces the heterogeneity of the IgG2 molecule. Other embodiments involve methods of refolding IgG4 molecules to decrease the presence of IgG4 half molecules (referred to as "half-mers" herein).

There is therefore provided a method of producing an IgG2 antibody preparation enriched for one of several IgG2 structural variants which differ by disulfide connectivity in the hinge region, comprising contacting a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent, wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms, corresponding to said several IgG2 structural variants, on RP-HPLC, (ii) said contacting in the absence of a chaotropic agent enriches one of said several IgG2 structural variants, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several IgG2 structural variants.

There is also provided a method of producing a recombinant IgG2 antibody, or an IgG2 antibody fragment comprising: contacting an IgG2 antibody or an IgG2 antibody fragment that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent; wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms on RP-HPLC which differ by disulfide connectivity in the hinge region, (ii) said contacting in the absence of a chaotropic agent enriches one of said several separate forms, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several separate forms.

Accordingly, the methods of the present invention are particularly directed to refolding recombinant forms of IgG antibodies. An example of the production of such an IgG antibody is the production of a recombinant antibody by the recombinant expression of that antibody in CHO cells. An exemplary IgG1 antibody is described in the aforementioned U.S. Publications, 146B7 is a fully human antibody, i.e., IgG1, directed against human IL-15.

In another embodiment, the invention comprises a method of producing an IgG2 antibody preparation enriched for one of several IgG2 structural variants which differ by disulfide connectivity in the hinge region, comprising: contacting a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the presence of a chaotropic agent, wherein said IgG2 antibody to be subjected to the method elutes as several separate forms, corresponding to said several IgG2 structural variants, on RP-HPLC.

In a further embodiment, the invention comprises a method of enriching for one form of a recombinant IgG2 antibody, comprising contacting an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent; wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms on RP-HPLC which differ by disulfide connectivity in the hinge region, (ii) said contacting in the absence of a chaotropic agent enriches one of said several separate forms, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several separate forms.

In yet another embodiment, the invention comprises any of the methods described, with the additional step of measuring the relative proportion of one or more of the IgG2 separate forms.

In a preferred embodiment, the invention further comprises the step of comparing the measured relative proportion of one or more of the IgG2 separate forms with a desired relative proportion of the one or more of the IgG2 separate forms.

In a preferred embodiment, the contacting of a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling agent occurs in the fermentation medium in which the IgG2 antibody is being produced. In another preferred embodiment, the contacting of a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a chaotropic agent occurs in the fermentation medium in which the IgG2 antibody is being produced.

In preferred embodiments, the IgG2 antibody is a human antibody.

As noted above, certain embodiments of the invention provide a recombinant IgG1 antibody that has a free or unpaired cysteine residue. An antibody with an unpaired cysteine is understood to have one or more free cysteine residues, wherein a free cysteine

**[Text Continued on Page 6]**



25. A method of producing an IgG2 antibody preparation enriched for one of several IgG2 structural variants which differ by disulfide connectivity in the hinge region, comprising:
- contacting a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the presence of a chaotropic agent,
- wherein said IgG2 antibody to be subjected to the method elutes as several separate forms, corresponding to said several IgG2 structural variants on RP-HPLC.
26. A method of enriching for one form of a recombinant IgG2 antibody, comprising:
- contacting an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent;
- wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms on RP-HPLC which differ by disulfide connectivity in the hinge region, (ii) said contacting in the absence of a chaotropic agent enriches one of said several separate forms, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several separate forms.
27. The method or use of any one of claims 1 to 26, comprising the further step of measuring the relative proportion of one or more of the IgG2 separate forms.
28. The method or use of claim 27, comprising the further step of comparing the measured relative proportion of one or more of the IgG2 separate forms with a desired relative proportion of the one or more of the IgG2 separate forms.
29. An IgG2 antibody produced by the method or use of any one of claims 1 to 28.
30. A pharmaceutical composition comprising an IgG2 antibody produced by the method or use of any one of claims 1 to 28.
31. The method or use of any one of claims 1 to 28, wherein said contacting is performed by providing the reduction/oxidation coupling reagent to the fermentation medium in which the IgG2 antibody is being produced.
32. The method or use of any one of claims 1 to 28, wherein said contacting is performed by providing the chaotropic agent to the fermentation medium in which the IgG2 antibody is being produced.

33. The method, use, antibody or pharmaceutical composition of any one of claims 1 to 32, wherein the IgG2 antibody is a human IgG2 antibody.

34. The method, use, antibody or pharmaceutical composition of any one of claims 1, 2, and 10 to 33, wherein the reduction/oxidation coupling reagent comprises about 0.1 mM to about 10 mM cystine and no exogenous cysteine is added.



25. A method of producing an IgG2 antibody preparation enriched for one of several IgG2 structural variants which differ by disulfide connectivity in the hinge region, comprising:
- contacting a preparation of an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the presence of a chaotropic agent,
- wherein said IgG2 antibody to be subjected to the method elutes as several separate forms, corresponding to said several IgG2 structural variants on RP-HPLC.
26. A method of enriching for one form of a recombinant IgG2 antibody, comprising:
- contacting an IgG2 antibody that has been recombinantly produced by mammalian cells with a reduction/oxidation coupling reagent at a pH of about 5 to about 11 in the absence of or the presence of a chaotropic agent;
- wherein (i) said IgG2 antibody to be subjected to the method elutes as several separate forms on RP-HPLC which differ by disulfide connectivity in the hinge region, (ii) said contacting in the absence of a chaotropic agent enriches one of said several separate forms, and (iii) said contacting in the presence of a chaotropic agent enriches another of said several separate forms.
27. The method or use of any one of claims 1 to 26, comprising the further step of measuring the relative proportion of one or more of the IgG2 separate forms.
28. The method or use of claim 27, comprising the further step of comparing the measured relative proportion of one or more of the IgG2 separate forms with a desired relative proportion of the one or more of the IgG2 separate forms.
29. An IgG2 antibody produced by the method or use of any one of claims 1 to 28.
30. A pharmaceutical composition comprising an IgG2 antibody produced by the method or use of any one of claims 1 to 28.
31. The method or use of any one of claims 1 to 28, wherein said contacting is performed by providing the reduction/oxidation coupling reagent to the fermentation medium in which the IgG2 antibody is being produced.
32. The method or use of any one of claims 1 to 28, wherein said contacting is performed by providing the chaotropic agent to the fermentation medium in which the IgG2 antibody is being produced.

- 33. The method, use, antibody or pharmaceutical composition of any one of claims 1 to 32, wherein the IgG2 antibody is a human IgG2 antibody.
- 34. The method, use, antibody or pharmaceutical composition of any one of claims 1, 2, and 10 to 33, wherein the reduction/oxidation coupling reagent comprises about 0.1 mM to about 10 mM cystine and no exogenous cysteine is added.



**SECTION 105(1) PATENTS ACT 1990 (CTH)**

**Advertisement for publication in Official Journal**

**Patent Matter Details**

Australian Patent No. 2020260443 in the name of Amgen Inc. titled “Regulating Ornithine Metabolism To Manipulate The High Mannose Glycoform Content of Recombinant Proteins”.

**Identity of Court Proceeding**

Federal Court Proceeding No. NSD 919/2025 – Amgen Inc & Anor v Sandoz Pty Ltd (ACN 075 449 553).

**Particulars of Proposed Amendments**

The particulars of the amendments sought are shown in the attached documents (in clean and marked up form) and are as follows:

- (a) to delete Description pages 2a-2c on file and to replace with pages 2a-2e;  
and
- (b) to delete Claims pages 41-43 and insert new Claims pages 41-45.

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Email: [naomi.pearce@pearceIP.law](mailto:naomi.pearce@pearceIP.law)

2020260443 22 Aug 2025

**Opposition**

Any person intending to oppose the application who is not a party to the proceeding must, within 28 days after publication of this advertisement, give written notice of that intention to:

- (a) the Commissioner; and
- (b) each party to the proceeding at the above addresses for service.

2020260443 22 Aug 2025

and *in vivo* clearance of therapeutic glycoproteins have made monitoring and control of glycosylation a critical parameter for biopharmaceutical manufacturing. The high mannose glycoform content of therapeutic proteins is a critical quality attribute that has been found to affect pharmacokinetic properties of certain therapeutic antibodies (Goetze, et al., (2011) *Glycobiology* 21, 949-59; Yu, et al., (2012) *MAbs* 4, 475-87). Therefore, methods for controlling the high mannose glycoform content of therapeutic proteins would be beneficial.

There is a need in the pharmaceutical industry to manipulate and control the high mannose glycoform content of recombinant therapeutic glycoproteins and methods for doing such would be useful. The invention provides a method for manipulating the high mannose glycoform content of recombinant glycoproteins by regulating ornithine metabolism in the host cells.

#### SUMMARY OF THE INVENTION

The invention provides a method for manipulating the high mannose glycoform content of a recombinant protein comprising culturing a host cell expressing the recombinant protein in a cell culture under conditions that regulate ornithine metabolism in the host cell.

In one embodiment, the present invention provides a method of increasing high mannose glycoform content of a recombinant protein comprising culturing a host cell expressing the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and the recombinant protein has an increased high mannose glycoform content than when the recombinant protein is expressed in the cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In a further embodiment, the present invention provides a method of producing a recombinant protein wherein the high mannose glycoform content is increased comprising culturing a host cell which expresses the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ~~ornithine decarboxylase inhibitor,~~ and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor and an arginine decarboxylase inhibitor, ~~when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor~~ wherein the recombinant protein has an increased high mannose glycoform content when compared to the recombinant protein expressed in the cell culture lacking the one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, and an arginine decarboxylase inhibitor.

In another embodiment, the invention comprises a method, when used to increase the high mannose glycoform content of a recombinant protein, said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the ornithine production in the cell culture,

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine



aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In a further embodiment, the invention comprises the use of a perfusion cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor to produce a recombinant protein with an increased high mannose glycoform content, in a method comprising the steps of:

culturing a CHO host cell expressing the recombinant protein in the perfusion cell culture media

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In some preferred embodiments, the method comprises the further step of measuring the high mannose glycoform content of the recombinant protein.

In some embodiments, the invention comprises a method, when used to increase the high mannose glycoform content of a recombinant protein, said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the high mannose glycoform content of the recombinant protein,

5 wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

10 wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

15 In some embodiments, the invention additionally comprises the method or use when used to manipulate and control the high mannose glycoform content of the recombinant protein.

In some preferred embodiments, the method or use is carried out during the production phase.

20 In some preferred embodiments, the invention comprises a recombinant protein produced by the methods or uses of the invention. In other preferred embodiments, the invention comprises a pharmaceutical composition comprising the recombinant protein produced by the methods or uses of the invention. In a preferred embodiment, the recombinant protein is denosumab.

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30 In one embodiment ornithine metabolism in the host cell is regulated by decreasing the accumulation of ornithine in the host cell. In a related embodiment ornithine accumulation in the host cell is regulated by culturing the host cell in a cell culture medium containing an arginase inhibitor or spermine. In another related embodiment ornithine accumulation in the host cell is regulated through the addition of an arginase inhibitor to cell culture medium. In another related embodiment the arginase inhibitor is BEC (S-(2-boronoethyl)-l-cysteine) or DL-a-Difluoromethylornithine. In another related embodiment the arginase inhibitor is BEC (S-(2-boronoethyl)-l-cysteine). In another related embodiment the arginase inhibitor is

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DL-a-Difluoromethylornithine. In another related embodiment the concentration of the arginase inhibitor is at least 10  $\mu\text{M}$ . In another related embodiment the concentration of the arginase inhibitor is from 10  $\mu\text{M}$  to 2 mM. In yet another related embodiment the concentration of the arginase inhibitor is 10  $\mu\text{M}$ . In yet another related embodiment the concentration of the arginase

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[Text continued on page 3]

and *in vivo* clearance of therapeutic glycoproteins have made monitoring and control of glycosylation a critical parameter for biopharmaceutical manufacturing. The high mannose glycoform content of therapeutic proteins is a critical quality attribute that has been found to affect pharmacokinetic properties of certain therapeutic antibodies (Goetze, et al., (2011) *Glycobiology* 21, 949-59; Yu, et al., (2012) *MAbs* 4, 475-87).  
5 Therefore, methods for controlling the high mannose glycoform content of therapeutic proteins would be beneficial.

There is a need in the pharmaceutical industry to manipulate and control the high mannose glycoform content of recombinant therapeutic glycoproteins and methods for doing such would be useful. The invention provides a method for  
10 manipulating the high mannose glycoform content of recombinant glycoproteins by regulating ornithine metabolism in the host cells.

#### SUMMARY OF THE INVENTION

15 The invention provides a method for manipulating the high mannose glycoform content of a recombinant protein comprising culturing a host cell expressing the recombinant protein in a cell culture under conditions that regulate ornithine metabolism in the host cell.

In one embodiment, the present invention provides a method of increasing high  
20 mannose glycoform content of a recombinant protein comprising culturing a host cell expressing the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when  
25 compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and the recombinant protein has an increased high mannose glycoform content than when the recombinant protein is  
30 expressed in the cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In a further embodiment, the present invention provides a method of producing a recombinant protein wherein the high mannose glycoform content is increased comprising culturing a host cell which expresses the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor and an arginine decarboxylase inhibitor, wherein the recombinant protein has an increased high mannose glycoform content when compared to the recombinant protein expressed in the cell culture lacking the one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, and an arginine decarboxylase inhibitor.

In another embodiment, the invention comprises a method, when used to increase the high mannose glycoform content of a recombinant protein, said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the ornithine production in the cell culture,

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine

aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In a further embodiment, the invention comprises the use of a perfusion cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor to produce a recombinant protein with an increased high mannose glycoform content, in a method comprising the steps of:

culturing a CHO host cell expressing the recombinant protein in the perfusion cell culture media

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In some preferred embodiments, the method comprises the further step of measuring the high mannose glycoform content of the recombinant protein.

In some embodiments, the invention comprises a method, when used to increase the high mannose glycoform content of a recombinant protein, said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the high mannose glycoform content of the recombinant protein,

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

In some embodiments, the invention additionally comprises the method or use when used to manipulate and control the high mannose glycoform content of the recombinant protein.

In some preferred embodiments, the method or use is carried out during the production phase.

In some preferred embodiments, the invention comprises a recombinant protein produced by the methods or uses of the invention. In other preferred embodiments, the invention comprises a pharmaceutical composition comprising the recombinant protein produced by the methods or uses of the invention. In a preferred embodiment, the recombinant protein is denosumab.

In one embodiment ornithine metabolism in the host cell is regulated by decreasing the accumulation of ornithine in the host cell. In a related embodiment ornithine accumulation in the host cell is regulated by culturing the host cell in a cell culture medium containing an arginase inhibitor or spermine. In another related embodiment ornithine accumulation in the host cell is regulated through the addition of an arginase inhibitor to cell culture medium. In another related embodiment the arginase inhibitor is BEC (S-(2-boronoethyl)-l-cysteine) or DL-a-Difluoromethylornithine. In another related embodiment the arginase inhibitor is BEC (S-(2-boronoethyl)-l-cysteine). In another related embodiment the arginase inhibitor is

DL-a-Difluoromethylornithine. In another related embodiment the concentration of the arginase inhibitor is at least 10  $\mu\text{M}$ . In another related embodiment the concentration of the arginase inhibitor is from 10  $\mu\text{M}$  to 2 mM. In yet another related embodiment the concentration of the arginase inhibitor is 10  $\mu\text{M}$ . In yet another related embodiment the concentration of the arginase

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**[Text continued on page 3]**



1. A method of increasing high mannose glycoform content of a recombinant protein comprising culturing a host cell expressing the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and
 

the recombinant protein has an increased high mannose glycoform content than when the recombinant protein is expressed in the cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.
2. The method of claim 1, wherein
 

the ornithine aminotransferase inhibitor is 5-fluoromethylornithine;

the nitric oxide synthase inhibitor is selected from the group consisting of 2-ethyl-2-thiopseudourea and N-Nitro-L-arginine and L<sup>G</sup>-monomethyl-L-arginine; or

the arginine decarboxylase inhibitor is asymmetric dimethyl-arginine.
3. A method of producing a recombinant protein wherein the high mannose glycoform content is increased comprising culturing a host cell which expresses the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ~~ornithine decarboxylase inhibitor,~~ and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor and an arginine decarboxylase inhibitor, ~~when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,~~

wherein the recombinant protein has an increased high mannose glycoform content when compared to the recombinant protein expressed in the cell culture lacking the one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, and an arginine decarboxylase inhibitor.

4. The method of claim 3, wherein
  - the ornithine aminotransferase inhibitor is 5-fluoromethylornithine;
  - the nitric oxide synthase inhibitor is selected from the group consisting of 2-ethyl-2-thiopseudourea and N-Nitro-L-arginine and L<sup>G</sup>-monomethyl-L-arginine; or
  - the arginine decarboxylase inhibitor is asymmetric dimethyl-arginine.
5. The method of any one of claims 1-4, wherein the host cell expressing the recombinant protein is cultured in a batch culture, fed-batch culture, perfusion culture, or combinations thereof.
6. The method of claim 5, wherein the host cell expressing the recombinant protein is cultured in a perfusion culture.
7. The method of claim 6, wherein perfusion culture comprises continuous perfusion.
8. The method of claim 6 or 7, wherein a rate of perfusion is constant.
9. The method of any one of claims 6-8, wherein the perfusion is performed at a rate of less than or equal to 1.0 working volumes per day; or accomplished by alternating tangential flow.
10. The method of any one of claims 1-9, wherein the host cell expressing the recombinant protein is cultured in a bioreactor.
11. The method of claim 10, wherein the bioreactor has a capacity selected from the group consisting of at least 500L; 500L to 2000L; and 1000L to 2000L.
12. The method of any one of claims 1-11, wherein the host cell expressing the recombinant protein is cultured in a serum-free cell culture medium.
13. The method of claim 12, wherein the serum-free culture medium is a perfusion cell culture medium.
14. The method of any one of claims 1-13, wherein the host cells are mammalian cells.
15. The method of any one of claims 1-14, wherein the host cells are Chinese Hamster Ovary (CHO) cells.

16. The method of any one of claims 1-15, wherein the recombinant protein is a glycoprotein.
17. The method of any one of claims 1-16, wherein the recombinant protein is selected from the group consisting of a human antibody, a humanized antibody, a chimeric antibody, a recombinant fusion protein, or a cytokine.
18. The method of any one of claims 1-17, further comprising a step of harvesting the recombinant protein produced by the host cell.
19. The method of any one of claims 1-18, wherein the recombinant protein produced by the host cell is purified and formulated into a pharmaceutically acceptable formulation.
20. The method of any one of claims 1, 2 and- 5-19 (when not dependent on claims 3 and 4), wherein the ornithine decarboxylase inhibitor is alpha-difluoromethylornithine or piperonyl butoxide.
21. A method when used to produce a recombinant protein with increased high mannose glycoform content , said method comprising the steps of:
- culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,
- measuring the ornithine production in the cell culture,
- wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and
- wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.
22. Use of a perfusion cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor to produce a recombinant protein with an increased high mannose glycoform content, in a method comprising the steps of:

culturing a CHO host cell expressing the recombinant protein in the perfusion cell culture media

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

23. The method or use of any of claims 1-22, comprising the further step of measuring the high mannose glycoform content of the recombinant protein.

24. A method, when used to increase the high mannose glycoform content of a recombinant protein, said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the high mannose glycoform content of the recombinant protein,

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

25. The method or use of claims 1-24 when used to manipulate and control the high mannose glycoform content of the recombinant protein.

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26. The method or use of any one of claims 1-25 wherein the method or use is carried out during the production phase.

27. A recombinant protein produced by the method or use of any one of claims 1-26.

28. A pharmaceutical composition comprising the recombinant protein produced by the method or use of any one of claims 1-27.

29. Denosumab produced by the method or use of any one of claims 1-28.

30. A pharmaceutical composition comprising denosumab produced by the method or use of any one of claims 1-28.

1. A method of increasing high mannose glycoform content of a recombinant protein comprising culturing a host cell expressing the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

the recombinant protein has an increased high mannose glycoform content than when the recombinant protein is expressed in the cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

2. The method of claim 1, wherein

the ornithine aminotransferase inhibitor is 5-fluoromethylornithine;

the nitric oxide synthase inhibitor is selected from the group consisting of 2-ethyl-2-thiopseudourea and N-Nitro-L-arginine and L<sup>G</sup>-monomethyl-L-arginine; or

the arginine decarboxylase inhibitor is asymmetric dimethyl-arginine.

3. A method of producing a recombinant protein wherein the high mannose glycoform content is increased comprising culturing a host cell which expresses the recombinant protein in a cell culture comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, and an arginine decarboxylase inhibitor, wherein ornithine production in the host cell is increased when compared to the host cell expressing the recombinant protein is cultured in a cell culture lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor and an arginine decarboxylase inhibitor,

wherein the recombinant protein has an increased high mannose glycoform content when compared to the recombinant protein expressed in the cell culture lacking the one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, and an arginine decarboxylase inhibitor.

4. The method of claim 3, wherein
  - the ornithine aminotransferase inhibitor is 5-fluoromethylornithine;
  - the nitric oxide synthase inhibitor is selected from the group consisting of 2-ethyl-2-thiopseudourea and N-Nitro-L-arginine and L<sup>G</sup>-monomethyl-L-arginine; or
  - the arginine decarboxylase inhibitor is asymmetric dimethyl-arginine.
5. The method of any one of claims 1-4, wherein the host cell expressing the recombinant protein is cultured in a batch culture, fed-batch culture, perfusion culture, or combinations thereof.
6. The method of claim 5, wherein the host cell expressing the recombinant protein is cultured in a perfusion culture.
7. The method of claim 6, wherein perfusion culture comprises continuous perfusion.
8. The method of claim 6 or 7, wherein a rate of perfusion is constant.
9. The method of any one of claims 6-8, wherein the perfusion is performed at a rate of less than or equal to 1.0 working volumes per day; or accomplished by alternating tangential flow.
10. The method of any one of claims 1-9, wherein the host cell expressing the recombinant protein is cultured in a bioreactor.
11. The method of claim 10, wherein the bioreactor has a capacity selected from the group consisting of at least 500L; 500L to 2000L; and 1000L to 2000L.
12. The method of any one of claims 1-11, wherein the host cell expressing the recombinant protein is cultured in a serum-free cell culture medium.
13. The method of claim 12, wherein the serum-free culture medium is a perfusion cell culture medium.
14. The method of any one of claims 1-13, wherein the host cells are mammalian cells.
15. The method of any one of claims 1-14, wherein the host cells are Chinese Hamster Ovary (CHO) cells.
16. The method of any one of claims 1-15, wherein the recombinant protein is a glycoprotein.

17. The method of any one of claims 1-16, wherein the recombinant protein is selected from the group consisting of a human antibody, a humanized antibody, a chimeric antibody, a recombinant fusion protein, or a cytokine.
18. The method of any one of claims 1-17, further comprising a step of harvesting the recombinant protein produced by the host cell.
19. The method of any one of claims 1-18, wherein the recombinant protein produced by the host cell is purified and formulated into a pharmaceutically acceptable formulation.
20. The method of any one of claims 1, 2 and 5-19 (when not dependent on claims 3 and 4), wherein the ornithine decarboxylase inhibitor is alpha-difluoromethylornithine or piperonyl butoxide.
21. A method when used to produce a recombinant protein with increased high mannose glycoform content , said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the ornithine production in the cell culture,

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.
22. Use of a perfusion cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor to produce a recombinant protein with an increased high mannose glycoform content, in a method comprising the steps of:



culturing a CHO host cell expressing the recombinant protein in the perfusion cell culture media

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

23. The method or use of any of claims 1-22, comprising the further step of measuring the high mannose glycoform content of the recombinant protein.

24. A method, when used to increase the high mannose glycoform content of a recombinant protein, said method comprising the steps of:

culturing a host cell expressing the recombinant protein in a cell culture media comprising one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, an ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor,

measuring the high mannose glycoform content of the recombinant protein,

wherein ornithine production in the host cell is increased when compared to when the host cell is cultured in a cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor, and

wherein the recombinant protein has an increased high mannose glycoform content compared to when the recombinant protein is expressed in the cell culture media lacking one selected from the group consisting of ornithine, arginine, an ornithine aminotransferase inhibitor, a nitric oxide synthase inhibitor, ornithine decarboxylase inhibitor, and an arginine decarboxylase inhibitor.

25. The method or use of claims 1-24 when used to manipulate and control the high mannose glycoform content of the recombinant protein.

26. The method or use of any one of claims 1-25 wherein the method or use is carried out during the production phase.
27. A recombinant protein produced by the method or use of any one of claims 1-26.
28. A pharmaceutical composition comprising the recombinant protein produced by the method or use of any one of claims 1-27.
29. Denosumab produced by the method or use of any one of claims 1-28.
30. A pharmaceutical composition comprising denosumab produced by the method or use of any one of claims 1-28.