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# AUSTRALIAN OFFICIAL JOURNAL

# OF

# PATENTS

(ISSN 0819-1794)



## Contents

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## *General Information*

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*Freedom of Information ACT*
*Professional Standards Board*
*Sales*
*Requests for Information under Section 194 (c)*
*Country Codes*
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# 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 I**nternationally 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).

**NOTE**: When ordering any patent document from us, whether accepted or not, please quote the application/patent number preceded by the appropriate prefix.

## 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 **I**nternational **P**atent **C**lassification. 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

**1. 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:

| ITEM | INID No. |
|---|---|
| **A) Provisional applications filed - Name Index** | |
| The name of the applicant | (71) |
| The Provisional application number | (21) |
| The date of filing | (22) |
| The title of the invention | (54) |

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

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

| ITEM | INID No. |
|---|---|
| **D) Applications accepted - Name Index** | |
| The name of the applicant | (71) |
| The number of the document | (11) |
| The number of the accepted document | (10) |
| The number assigned to the application | (21) |
| The date of filing | (22) |
| The title | (54) |
| The classification marks | (51) |
| PCT publication number | (87) |
| Priority document number | (31) |
| Date of filing of priority document(s) | (32) |
| Country in which priority document filed | (33) |
| Publication date of unexamined document | (43) |

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

**2. 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 '**I**nternationally agreed **N**umbers for the **I**dentification of **D**ata'.

**(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.
- **(44)** 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.
- **(45)** Date of publication by printing or similar process of a document, on which grant or certification has takenplace 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 know 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 $(51)_2$, $(51)_3$, $(51)_4$ and $(51)_5$.

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

**IP AUSTRALIA**

**AUSTRALIAN PATENT OFFICE**

***Advanced New Technologies Co., Ltd.*** **[2021] APO 33**

| | |
|---|---|
| Patent Application: | 2019204731 |
| Title: | Product promotion using smart contracts in blockchain networks |
| Patent Applicant: | Advanced New Technologies Co., Ltd. |
| Delegate: | M. G. Kraefft |
| Decision Date: | 25 August 2021 |
| Hearing Date: | Written submissions filed on 30 April 2021. |
| Catchwords: | **PATENTS** – section 45 – examiner's objection – whether invention is a manner of manufacture – acknowledgement of presence of technical features – no unusual technical effect – absence of technical contribution – application refused. |
| Representation: | Patent attorney for the applicant: Spruson & Ferguson. |

# 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 17 Aug 2021 .

**(71)** A. W. Bell Pty. Ltd.
**(21)** 2021902651 **(22)** 23.08.2021
**(54)** Aluminium Casting Alloy Displaying Improved Thermal Conductivity

**(71)** A. W. Bell Pty. Ltd.
**(21)** 2021902652 **(22)** 23.08.2021
**(54)** Improved Aluminium Based Casting Alloy

**ACEVEDO FANI, A. see SINGH, H.**
**(21)** 2021902572

**(71)** Adderley, M.
**(21)** 2021902633 **(22)** 21.08.2021
**(54)** Planter Box

**(71)** AdvanCell Isotopes Pty Ltd
**(21)** 2021902649 **(22)** 23.08.2021
**(54)** MATERIALS AND PROCESSES FOR GENERATING RADIOISOTOPES

**(71)** Algesacooling Pty Ltd
**(21)** 2021902605 **(22)** 19.08.2021
**(54)** FLOW CONTROL MANAGEMENT IN AN EVAPORATOR SYSTEM

**Arakel, I. see Arakel, A.**
**(21)** 2021902632

**(71)** Arakel, A.; Arakel, I.; Pact Renewables Pty Ltd
**(21)** 2021902632 **(22)** 21.08.2021
**(54)** Media for reduction of gaseous emissions, methods of production and application

**(71)** AUSTRALIAN ARTIFICIAL INTELLIGENCE TECHNOLOGIES PTY LTD
**(21)** 2021902639 **(22)** 22.08.2021
**(54)** TEACHER ASSISTANCE SYSTEM AND METHOD

**(71)** Australian Export Grains Innovation Centre Limited
**(21)** 2021902595 **(22)** 19.08.2021
**(54)** Seed Malting Apparatus and Method

**(71)** Australian Scaffold & Access Pty Ltd
**(21)** 2021902620 **(22)** 20.08.2021
**(54)** Scaffolding system

**(71)** Bashi, G.
**(21)** 2021902659 **(22)** 23.08.2021
**(54)** TELESCOPIC ROOF WORK PLATFORM

**(71)** Best Masonry Bricks & Pavers Pty Ltd
**(21)** 2021902581 **(22)** 18.08.2021
**(54)** Retaining Wall System and Blocks for Building the Retaining Wall

**(71)** BioPoint Pty Limited; NewSouth Innovations Pty Limited
**(21)** 2021902608 **(22)** 19.08.2021
**(54)** CRISPR/CAS-associated detection assays, methods and kits

**(71)** Biosceptre (Aust) Pty Ltd
**(21)** 2021902565 **(22)** 17.08.2021
**(54)** Novel Cell Therapy System (2)

**Blakers, D. see Blakers, P.**
**(21)** 2021902559

**(71)** Blakers, P.; Blakers, D.
**(21)** 2021902559 **(22)** 17.08.2021
**(54)** Electronic Kick Drum Assembly

**(71)** Breville Pty Limited
**(21)** 2021902561 **(22)** 17.08.2021
**(54)** Coffee grinder control system

**(71)** Buckle Lock Pty Ltd
**(21)** 2021902631 **(22)** 20.08.2021
**(54)** Access regulating device with locking mechanism to secure strap fastener from unauthorised access

**(71)** Commonwealth Scientific and Industrial Research Organisation
**(21)** 2021902585 **(22)** 18.08.2021
**(54)** Wheat with reduced susceptibility to late-maturity alpha-amylase

**(71)** Commonwealth Scientific and Industrial Research Organisation
**(21)** 2021902599 **(22)** 19.08.2021
**(54)** SEISMIC INVERSION BY HYBRID MACHINE LEARNING

**(71)** Commonwealth Scientific and Industrial Research Organisation
**(21)** 2021902650 **(22)** 23.08.2021
**(54)** Crown rot resistance

**(71)** ConceptV
**(21)** 2021902660 **(22)** 23.08.2021
**(54)** Universal platform for building design

**(71)** Connor, R.
**(21)** 2021902646 **(22)** 23.08.2021
**(54)** streamlining and centralising the requirements for home and or business relocations

**(71)** CQMS PTY LTD
**(21)** 2021902654 **(22)** 23.08.2021
**(54)** A SYSTEM AND METHOD OF IDENTIFYING EQUIPMENT

## Provisional Applications Filed - Name Index cont'd

**(71)** CRC CARE Pty Ltd
**(21)** 2021902600 **(22)** 19.08.2021
**(54)** CLAY SORBENTS

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**(71)** Cumpson, P.
**(21)** 2021902587 **(22)** 18.08.2021
**(54)** Sputtering calibration device

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**(71)** Cumpson, P.
**(21)** 2021902588 **(22)** 18.08.2021
**(54)** Surface Chemical Analysis Device

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**DAVE, A. see SINGH, H.**
**(21)** 2021902572

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**(71)** Day, T.
**(21)** 2021902573 **(22)** 18.08.2021
**(54)** DEVICE TO ENABLE IMPROVED PERFORMANCE OF SOME MECHANICAL APPLIANCES

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**(71)** Day, T.
**(21)** 2021902574 **(22)** 18.08.2021
**(54)** A NEW TYPE OF VALVE.

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**(71)** Deakin University
**(21)** 2021902629 **(22)** 20.08.2021
**(54)** Ionic binders for electrodes

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**(71)** Deakin University
**(21)** 2021902630 **(22)** 20.08.2021
**(54)** Improved Conversion Material Electrodes

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**(71)** De Geeter, P.J.
**(21)** 2021902560 **(22)** 17.08.2021
**(54)** Improvements to wave energy converter

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**(71)** Dempster, S.
**(21)** 2021902583 **(22)** 18.08.2021
**(54)** Performance monitoring system

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**(71)** Disc Brakes Australia Pty. Limited
**(21)** 2021902603 **(22)** 19.08.2021
**(54)** Improved Disc Brake Rotor

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**DOBSON, R. see MEFFAN, R.**
**(21)** 2021902589

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**DOLAMORE, F. see MEFFAN, R.**
**(21)** 2021902589

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**(71)** EDSER, G.; PAYNTER, G.; STARR, K.
**(21)** 2021902594 **(22)** 19.08.2021
**(54)** Computer application for river catchment data management

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**(71)** Electrical Engineering Solutions Pty Ltd
**(21)** 2021902644 **(22)** 23.08.2021
**(54)** MULTI-DROP LONGITUDINAL SIGNALLING SYSTEM

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**(71)** EVOLVE MVMT PTY LTD
**(21)** 2021902625 **(22)** 20.08.2021
**(54)** Shock absorption apparatus and method

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**(71)** Firebrick Pharma Limited
**(21)** 2021902619 **(22)** 20.08.2021
**(54)** Methods for treating and/or preventing body odour

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**(71)** Flatow, W.
**(21)** 2021902586 **(22)** 18.08.2021
**(54)** FRACTAL DATABASE ENCRYPTION

---

**(71)** F PISCIONERI & H ROSENTHAL
**(21)** 2021902609 **(22)** 19.08.2021
**(54)** Miniaturized Covert Inspection Drone

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**(71)** Freney, C.
**(21)** 2021902607 **(22)** 19.08.2021
**(54)** Litter Aerator Apparatus

---

**(71)** George, E.
**(21)** 2021902558 **(22)** 17.08.2021
**(54)** SYSTEM AND METHOD FOR GENERATING INSTRUCTIONAL PRODUCT ASSEMBLY ANIMATIONS

---

**(71)** Glim Aero AS
**(21)** 2021902564 **(22)** 17.08.2021
**(54)** AIRFOIL, CROSSFLOW FAN AND DUCT ELEMENT FOR LIFT, PROPULSION AND CONTROL.

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**(71)** Glim Aero AS
**(21)** 2021902568 **(22)** 17.08.2021
**(54)** A COMPACT SAFE EFFICIENT MULTI-ROTOR eVTOL AIRBORNE CRAFT

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**(71)** Glim Aero AS
**(21)** 2021902569 **(22)** 17.08.2021
**(54)** ATTITUDE CONTROL SYSTEM FOR A MULTIROTOR CROSSFLOW FAN eVTOL AIRBORNE CRAFT

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**(71)** Good Water Energy Ltd
**(21)** 2021902611 **(22)** 20.08.2021
**(54)** MULTI -WELL GEOTHERMAL SYPHONING SYSTEM

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**Hanson, M.G. see Herford, N.**
**(21)** 2021902570

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**(71)** Herford, N.; Hanson, M.G.
**(21)** 2021902570 **(22)** 18.08.2021
**(54)** MACHINE LEARNING BASED DAMAGE ASSESSMENT

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**(71)** HOBBS, B.
**(21)** 2021902575 **(22)** 18.08.2021
**(54)** Planter box assembly

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**(71)** howson, j.
**(21)** 2021902593 **(22)** 19.08.2021
**(54)** Training Machine to aid straight cueing

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**(71)** INDOORSIGHTS LIMITED
**(21)** 2021902623 **(22)** 20.08.2021
**(54)** FACILITY COMMUNICATION AND/OR LOCATION APPARATUS AND SYSTEM

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**(71)** InterK Peptide Therapeutics Limited
**(21)** 2021902626 **(22)** 20.08.2021
**(54)** Compositions and methods for treating autoimmune disease

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**(71)** JAVADI, M.; Mahboubinejad, H.; Taheri, S.M.; Shafei Kadijani, A.
**(21)** 2021902576 **(22)** 18.08.2021
**(54)** SYSTEM AND METHOD FOR ONE-STOP CONVENIENCE E-COMMERCE BUSINESS MODEL FOR ALL TRADES, SERVICES, EDUCATION AND A HUB FOR THE SPECIFIC FIELD OF BUSINESS.

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**(71)** Joolca Pty Limited
**(21)** 2021902604 **(22)** 19.08.2021
**(54)** Hydronic heating system and connector therefor

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**(71)** Lane, J.
**(21)** 2021902640 **(22)** 19.08.2021
**(54)** Gabage Women, Cranberry Cards, Aids For Aging

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**Mahboubinejad, H. see JAVADI, M.**
**(21)** 2021902576

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**(71)** McFarlane, W.
**(21)** 2021902634 **(22)** 21.08.2021
**(54)** A closed loop control in-ear wearable electroceutical for transcutaneous electrostimulation of the auricular branch of the vagus nerve for stimulation of the autonomic nervous system for non-pharmacological therapeutic treatment

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**(71)** McGlinn, M.; Pollard, T.
**(21)** 2021902562 **(22)** 17.08.2021
**(54)** Brass catcher

## Provisional Applications Filed - Name Index cont'd

**(71)** McKay Drilling Pty Ltd
**(21)** 2021902596 **(22)** 19.08.2021
**(54)** Material Handling Apparatus

**(71)** MEFFAN, R.; MENGES, J.; NOCK, V.; DOLAMORE, F.; DOBSON, R.
**(21)** 2021902589 **(22)** 18.08.2021
**(54)** MICROFLUIDIC DEVICES, SYSTEMS AND METHODS FOR PROVIDING AN INDICATION OF A RHEOLOGY OF A SUBSTANCE

**MENGES, J. see MEFFAN, R.**
**(21)** 2021902589

**Merck Patent GmbH see Telix International Pty Ltd**
**(21)** 2021902582

**(71)** MIND MEDICINE AUSTRALIA LIMITED
**(21)** 2021902624 **(22)** 20.08.2021
**(54)** IMPROVED METHOD OF SYNTHESIS OF 1-(3',4'-METHYLENE DIOXYPHENYL)-2-(METHYLAMINO) PROPANE (MDMA)

**(71)** MIS.CARBONART PTY LTD (a subsidiary of Mineral Resources Limited)
**(21)** 2021902577 **(22)** 18.08.2021
**(54)** Protective plate for a vibratory screen

**(71)** MIS.CARBONART PTY LTD (a subsidiary of Mineral Resources Limited)
**(21)** 2021902578 **(22)** 18.08.2021
**(54)** Drive member assembly for a vibratory screen

**(71)** MIS.CARBONART PTY LTD (a subsidiary of Mineral Resources Limited)
**(21)** 2021902579 **(22)** 18.08.2021
**(54)** Improvements in vibratory screens

**(71)** MIS.CARBONART PTY LTD (a subsidiary of Mineral Resources Limited)
**(21)** 2021902580 **(22)** 18.08.2021
**(54)** Support beam for a vibratory screen

**(71)** Mitra, A.
**(21)** 2021902614 **(22)** 20.08.2021
**(54)** IMAGING-GUIDED WHOLE-BODY STEREOTACTIC DEVICE

**(71)** Monash University
**(21)** 2021902566 **(22)** 17.08.2021
**(54)** Vaccine compositions

**(71)** Monash University
**(21)** 2021902567 **(22)** 17.08.2021
**(54)** Lipid nanoparticle formulations

**(71)** Monash University
**(21)** 2021902656 **(22)** 23.08.2021
**(54)** Fluid drainage cannula

**(71)** mPort Ltd
**(21)** 2021902584 **(22)** 18.08.2021
**(54)** Methods for generating a partial three-dimensional representation of a person

**NAG, A. see SINGH, H.**
**(21)** 2021902572

**NewSouth Innovations Pty Limited see BioPoint Pty Limited**
**(21)** 2021902608

**(71)** NewSouth Innovations Pty Limited
**(21)** 2021902647 **(22)** 23.08.2021
**(54)** Low-Density Parity-Check Decoder

**NOCK, V. see MEFFAN, R.**
**(21)** 2021902589

**(71)** O'Dare, M.
**(21)** 2021902601 **(22)** 19.08.2021
**(54)** A cover

**Ornatas Pty Ltd see University of Tasmania**
**(21)** 2021902653

**(71)** Owens, M.
**(21)** 2021902636 **(22)** 21.08.2021
**(54)** Emissions treatment

**Pact Renewables Pty Ltd see Arakel, A.**
**(21)** 2021902632

**Paswan, M. see Sahoo, V.**
**(21)** 2021902637

**PAYNTER, G. see EDSER, G.**
**(21)** 2021902594

**(71)** Peloton Resources Pty Ltd
**(21)** 2021902602 **(22)** 19.08.2021
**(54)** Method and Plant For Valorising Red Mud

**(71)** Piez, R.
**(21)** 2021902544 **(22)** 16.08.2021
**(54)** An aluminium patio framing system

**Pollard, T. see McGlinn, M.**
**(21)** 2021902562

**(71)** Rafferty, T.
**(21)** 2021902617 **(22)** 20.08.2021
**(54)** Dressing Aid Device

**(71)** Rahimi Monazeh, A.A.
**(21)** 2021902638 **(22)** 22.08.2021
**(54)** Long Handle Tiling Trowel

**(71)** Ranga, K.
**(21)** 2021902648 **(22)** 23.08.2021
**(54)** SYSTEM AND METHOD FOR FACILITATING THE GENERATION OF AN AUDIO RECORDING AND TRANSCRIPTION OF SAME

**(71)** Real Pass Pty Ltd
**(21)** 2021902657 **(22)** 23.08.2021
**(54)** CONTACTLESS REAL ESTATE PROPERTY COMMUNICATION METHOD AND SYSTEM

**(71)** ResMed Pty Ltd
**(21)** 2021902571 **(22)** 18.08.2021
**(54)** Patient Interface

**(71)** ResMed Pty Ltd
**(21)** 2021902613 **(22)** 20.08.2021
**(54)** Valve Assembly

**(71)** Rose, A.
**(21)** 2021902606 **(22)** 19.08.2021
**(54)** A PORTABLE DEVICE USED TO FACILITATE THE RAISING OR LOWERING OF SUBMERSIBLE BORE PUMPS IN A CONTROLLED LABOUR SAVING MANNER

**ROY, D. see SINGH, H.**
**(21)** 2021902572

**(71)** Russell, J.
**(21)** 2021902645 **(22)** 23.08.2021
**(54)** Fibre Bragg Grating MIDI controller for stringed instruments

**(71)** Sahoo, V.; Sinha, R.; Paswan, M.
**(21)** 2021902637 **(22)** 21.08.2021
**(54)** A BALL BEARING ASSEMBLY WITH VARIABLE RADIAL CLEARANCE FOR ENHANCED LOAD DISTRIBUTION

**(71)** Sayfa R&D Pty Ltd
**(21)** 2021902563 **(22)** 17.08.2021
**(54)** A fall arrest and rope access roof mount anchor

## Provisional Applications Filed - Name Index cont'd

**(71)** Sayfa R&D Pty Ltd
**(21)** 2021902622 **(22)** 20.08.2021
**(54)** An Extendable Needle Davit Assembly

**(71)** Science, H.I.T.; Technology, K.C.
**(21)** 2021902635 **(22)** 21.08.2021
**(54)** A PATIENT ESSENTIALS TRANSPORT SYSTEM

**(71)** Scolaro, A.
**(21)** 2021902597 **(22)** 19.08.2021
**(54)** A Power Drive Type X

**(71)** Screedex Pty Ltd
**(21)** 2021902641 **(22)** 23.08.2021
**(54)** SCREED DEVICE AND SYSTEM

**(71)** Selvax Pty Ltd
**(21)** 2021902658 **(22)** 23.08.2021
**(54)** Immunologic Agent Against Canine Malignancy

**Shafei Kadijani, A. see JAVADI, M.**
**(21)** 2021902576

**(71)** Shamoes, C.
**(21)** 2021902669 **(22)** 19.08.2021
**(54)** Automatic mouthpiece device for brushing and whitening both upper and lower teeth simultaneously

**(71)** Signature Orthopaedics Europe Ltd
**(21)** 2021902541 **(22)** 16.08.2021
**(54)** Pelvic girdle fixation apparatus

**(71)** Silver City Mining Co. Limited
**(21)** 2021902627 **(22)** 20.08.2021
**(54)** Process and Uses thereof

**(71)** SINGH, H.; NAG, A.; ACEVEDO FANI, A.; ROY, D.; WANG, Y.; DAVE, A.
**(21)** 2021902572 **(22)** 18.08.2021
**(54)** PLANT-BASED CHEESE PRODUCT

**Sinha, R. see Sahoo, V.**
**(21)** 2021902637

**(71)** Sleeping Duck Pty Ltd
**(21)** 2021902616 **(22)** 20.08.2021
**(54)** ACTIVE BED FRAME

**St. Vincent's Institute of Medical Research see The University of Melbourne**
**(21)** 2021902590

**STARR, K. see EDSER, G.**
**(21)** 2021902594

**(71)** Sustainable Rubber Technologies (SRT) Pty Ltd
**(21)** 2021902642 **(22)** 23.08.2021
**(54)** An in situ decontamination method and apparatus

**Taheri, S.M. see JAVADI, M.**
**(21)** 2021902576

**(71)** Taranis Power Group Pty Ltd
**(21)** 2021902628 **(22)** 20.08.2021
**(54)** Efficiency improvements for electromechanical system for driving a pump

**(71)** Technologies Integration Group P/L
**(21)** 2021902643 **(22)** 23.08.2021
**(54)** PROTECTIVE GUARD FOR ROOF INSTALLATIONS

**Technology, K.C. see Science, H.I.T.**
**(21)** 2021902635

**(71)** Telix International Pty Ltd; Merck Patent GmbH
**(21)** 2021902582 **(22)** 18.08.2021
**(54)** Combination radiotherapy (2)

**(71)** The University of Adelaide
**(21)** 2021902612 **(22)** 20.08.2021
**(54)** IMPROVED RADIATION SHIELDING

**(71)** The University of Melbourne; St. Vincent's Institute of Medical Research
**(21)** 2021902590 **(22)** 18.08.2021
**(54)** METHODS OF INHIBITING TRANSMEMBRANE PROTEINS

**(71)** The Walter and Eliza Hall Institute of Medical Research
**(21)** 2021902598 **(22)** 19.08.2021
**(54)** Method of treating and/or preventing cancer

**(71)** Thinking Ergonomix Pty Limited
**(21)** 2021902655 **(22)** 23.08.2021
**(54)** Foldable table

**(71)** Tournicare Pty Ltd
**(21)** 2021902591 **(22)** 19.08.2021
**(54)** Clamping devices and methods for repeated measurement of changes in blood pressure

**(71)** University of Tasmania; Ornatas Pty Ltd
**(21)** 2021902653 **(22)** 23.08.2021
**(54)** Feed Compositions and Uses thereof

**(71)** Vandermeer, W.
**(21)** 2021902610 **(22)** 19.08.2021
**(54)** Small Wheel Tyre Changer

**(71)** VentSec Pty Ltd
**(21)** 2021902618 **(22)** 20.08.2021
**(54)** Cementitious product applicator

**(71)** Waddle IP Pty Limited
**(21)** 2021902621 **(22)** 20.08.2021
**(54)** Methods and systems for data reconciliation

**WANG, Y. see SINGH, H.**
**(21)** 2021902572

**(71)** WEIR MINERALS AUSTRALIA LTD
**(21)** 2021902615 **(22)** 20.08.2021
**(54)** PUMP WET END

**Numerical Index**

## Complete Applications Filed

**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 17 Aug 2021 .

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

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**(71)** A & I Coatings Group Pty Ltd as trustee for the Peter & Rebecca Gillies Family Trust
**(21)** 2021218019 **(22)** 16.08.2021
**(54)** A HIGH PERFORMANCE ISOCYANATE FREE POLYURETHANE RESIN COATING

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**(71)** Abbott Diabetes Care Inc.
**(21)** 2021215294 **(22)** 13.08.2021
**(54)** Devices, systems, and methods associated with analyte monitoring devices and devices incorporating the same
**(62)** 2019200995

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**(71)** Abiomed Europe GmbH
**(21)** 2021218070 **(22)** 18.08.2021
**(54)** Intravascular blood pump
**(62)** 2019283822

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**(71)** Accenture Global Solutions Limited
**(21)** 2021218159 **(22)** 19.08.2021
**(54)** UTILIZING MACHINE LEARNING MODELS TO DETERMINE CUSTOMER CARE ACTIONS FOR TELECOMMUNICATIONS NETWORK PROVIDERS
**(31)** 17/094,670 **(32)** 10.11.20 **(33)** US

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**(71)** Acer Incorporated
**(21)** 2021215290 **(22)** 13.08.2021
**(54)** Device and method for handling a reception
**(62)** 2020217415

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**(71)** Acorn Engineering Company
**(21)** 2021215282 **(22)** 13.08.2021
**(54)** Compact water bottle filling station and retrofitting method
**(31)** 63/065,169 **(32)** 13.08.20 **(33)** US

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**(71)** Advanced Brain Monitoring, Inc.
**(21)** 2021218081 **(22)** 18.08.2021
**(54)** Systems And Methods For Detecting And Managing Physiological Patterns
**(62)** 2018269059

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**(71)** Agile Wing Smart Manufacturing Co., LTD.
**(21)** 2021218160 **(22)** 19.08.2021
**(54)** Spindle Structure
**(31)** 110113390 **(32)** 14.04.21 **(33)** TW

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**(71)** Allovate, LLC
**(21)** 2021217993 **(22)** 16.08.2021
**(54)** TOOTHPASTE FOR DELIVERING ALLERGENS TO ORAL MUCOSA
**(62)** 2019253826

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**(71)** ALX Oncology Inc.
**(21)** 2021218004 **(22)** 16.08.2021
**(54)** Constructs having a SIRP-alpha domain or variant thereof
**(62)** 2016304794

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**(71)** Amal Therapeutics SA
**(21)** 2021218097 **(22)** 18.08.2021
**(54)** A novel complex comprising a cell penetrating peptide, a cargo and a TRL peptide agonist
**(62)** 2016232657

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**(71)** Angel Group Co., Ltd.
**(21)** 2021218046 **(22)** 17.08.2021
**(54)** SHUFFLED PLAYING CARDS AND MANUFACTURING METHOD THEREOF
**(62)** 2019264525

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**(71)** Angel Group Co., Ltd.
**(21)** 2021218048 **(22)** 17.08.2021
**(54)** Game management system
**(62)** 2020204077

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**(71)** ANIMALISTIC PET PRODUCTS PTY. LTD.
**(21)** 2021218130 **(22)** 19.08.2021
**(54)** A pet door
**(31)** 2020904461 **(32)** 02.12.20 **(33)** AU

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**(71)** AOBiome LLC
**(21)** 2021218133 **(22)** 19.08.2021
**(54)** Ammonia-oxidizing nitrosomonas eutropha strain D23
**(62)** 2015247710

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**(71)** Apparatus LLC
**(21)** 2021218023 **(22)** 17.08.2021
**(54)** Modular Floor Covering System
**(31)** 17/241,180 **(32)** 27.04.21 **(33)** US
63/142,025 27.01.21 US

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**(71)** Apple Inc.
**(21)** 2021218036 **(22)** 17.08.2021
**(54)** Wellness data aggregator
**(62)** 2020204259

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**(71)** Apple Inc.
**(21)** 2021218051 **(22)** 17.08.2021
**(54)** Intelligent assistant for home automation
**(62)** 2020200103

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**(71)** Apple Inc.
**(21)** 2021218062 **(22)** 18.08.2021
**(54)** Object stack
**(62)** 2019210573

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**(71)** Applied LifeSciences and Systems LLC
**(21)** 2021218043 **(22)** 17.08.2021
**(54)** System and Method of Determining the Health and Gender of a Chick
**(62)** 2016354512

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**(71)** Aristocrat Technologies, Inc.
**(21)** 2021215301 **(22)** 13.08.2021
**(54)** CLICK AND LOCK BUTTON DECK FOR ELECTRONIC GAMING DEVICE
**(31)** 63/065,184 **(32)** 13.08.20 **(33)** US
17/202,105 15.03.21 US

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**(71)** Aristocrat Technologies Australia Pty Limited
**(21)** 2021215299 **(22)** 13.08.2021
**(54)** A GAMING SYSTEM, A METHOD OF GAMING AND A JACKPOT CONTROLLER
**(62)** 2019203475

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**(71)** Aristocrat Technologies Australia Pty Ltd
**(21)** 2021215280 **(22)** 13.08.2021
**(54)** Multi-Game Gaming Machine
**(62)** 2019210671

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**(71)** Arysta LifeScience Benelux SPRL
**(21)** 2021215268 **(22)** 13.08.2021
**(54)** Improved tuber storage
**(62)** 2019201721

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**(71)** AstraZeneca AB
**(21)** 2021215150 **(22)** 10.08.2021
**(54)** METHODS OF TREATING HEART FAILURE WITH REDUCED EJECTION FRACTION WITH DAPAGLIFLOZIN
**(62)** 2020202887

## Complete Applications Filed - Name Index cont'd

**BARNES, T. see LU, M.**
**(21)** 2021218054

**(71)** BD Kiestra B.V.
**(21)** 2021215255 **(22)** 13.08.2021
**(54)** Automated method and system for obtaining and preparing microorganism sample for both identification and antibiotic susceptibility tests
**(62)** 2016267580

**(71)** Beckman, J.
**(21)** 2021218148 **(22)** 19.08.2021
**(54)** Method of securing a urine bag to oneself and a urine bag for use therewith
**(31)** 2020903550 **(32)** 01.10.20 **(33)** AU

**(71)** BEDGEAR, LLC
**(21)** 2021218039 **(22)** 17.08.2021
**(54)** Customizable Mattress
**(62)** 2016303392

**(71)** Bedsmade Pty. Limited
**(21)** 2021218113 **(22)** 19.08.2021
**(54)** BED COVERING
**(31)** 2020903657 **(32)** 09.10.20 **(33)** AU

**(71)** BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD.
**(21)** 2021218001 **(22)** 16.08.2021
**(54)** Systems and methods for providing a navigation route
**(62)** 2017400606

**(71)** Bioasis Technologies, Inc.
**(21)** 2021215270 **(22)** 13.08.2021
**(54)** Combination therapies for delivery across the blood brain barrier
**(31)** 63/065,492 **(32)** 13.08.20 **(33)** US

**(71)** Biocompatibles UK Limited
**(21)** 2021215248 **(22)** 12.08.2021
**(54)** Radiopaque polymers
**(62)** 2020201495

**(71)** Blackhawk Network, Inc.
**(21)** 2021218055 **(22)** 17.08.2021
**(54)** Systems and methods for providing a transaction card package assembly including sample product or service
**(62)** 2019208158

**(71)** Blackhurst, D.
**(21)** 2021218087 **(22)** 18.08.2021
**(54)** POST DRIVING APPARATUS, SYSTEM AND METHOD
**(31)** 2020902943 **(32)** 18.08.20 **(33)** AU

**(71)** Bliis Innovations Pty Ltd
**(21)** 2021218088 **(22)** 18.08.2021
**(54)** Camera Mount
**(31)** 2021900346 **(32)** 12.02.21 **(33)** AU

**(71)** Bristol-Myers Squibb Company
**(21)** 2021215286 **(22)** 13.08.2021
**(54)** Antibodies against CD73 and uses thereof
**(62)** 2015349878

**(71)** Broadridge Financial Solutions, Inc.
**(21)** 2021215303 **(22)** 14.08.2021
**(54)** DATABASE-CENTERED COMPUTER NETWORK SYSTEMS AND COMPUTER-IMPLEMENTED METHODS FOR CRYPTOGRAPHICALLY-SECURED DISTRIBUTED DATA MANAGEMENT
**(62)** 2019204923

**(71)** Cagent Vascular, Inc.
**(21)** 2021218145 **(22)** 19.08.2021
**(54)** WEDGE DISSECTORS FOR A MEDICAL BALLOON
**(62)** 2016324292

**(71)** Chatsworth Products, Inc.
**(21)** 2021218144 **(22)** 19.08.2021
**(54)** Cage nut fastener and methods for toolless installation of same
**(62)** 2016373975

**(71)** Chemcon S.A.; Givaudan S.A.
**(21)** 2021218078 **(22)** 18.08.2021
**(54)** Compounds Reducing Malodour Perception And The Use Thereof
**(62)** 2018211536

**CHEUNG, D. see LU, M.**
**(21)** 2021218054

**(71)** Children's Medical Center Corporation
**(21)** 2021218012 **(22)** 16.08.2021
**(54)** TARGETING BCL11A DISTAL REGULATORY ELEMENTS FOR FETAL HEMOGLOBIN REINDUCTION
**(62)** 2018278850

**CHIU, H. see LU, M.**
**(21)** 2021218054

**(71)** Clawson, J.
**(21)** 2021217991 **(22)** 16.08.2021
**(54)** Picture/video messaging system for emergency response
**(62)** 2017247146

**Codagenix, Inc. see The USA, As Represented By The Secretary, Dept. Of Health And Human Services**
**(21)** 2021218112

**(71)** Commonwealth Scientific and Industrial Research Organisation
**(21)** 2021218110 **(22)** 19.08.2021
**(54)** Learning from distributed data
**(62)** 2016218947

**(71)** ConMed Corporation
**(21)** 2021215258 **(22)** 13.08.2021
**(54)** Multi-barrel drill guide
**(62)** 2018280029

**(71)** Connected Group Australia Pty Ltd
**(21)** 2021218008 **(22)** 16.08.2021
**(54)** Power Outlet Socket Sensor Switch
**(62)** 2019210501

**(71)** Context Biopharma Inc.
**(21)** 2021218093 **(22)** 18.08.2021
**(54)** Onapristone Extended-Release Compositions And Methods
**(62)** 2015350241

**CORBETT III, S. see STEINBERG, S.**
**(21)** 2021218029

**(71)** Core Advantage Pty Ltd
**(21)** 2021217998 **(22)** 16.08.2021
**(54)** Velocity-based training

**(71)** Covidien LP
**(21)** 2021215275 **(22)** 13.08.2021
**(54)** Handheld electromechanical surgical system
**(31)** 17/019,721 **(32)** 14.09.20 **(33)** US

**(71)** CREDIT CLEAR INTERNATIONAL PTY LTD
**(21)** 2021218134 **(22)** 19.08.2021
**(54)** METHOD AND SYSTEM FOR RECEIVING A DEBT PAYMENT
**(62)** 2019204286

**(71)** Deere & Company
**(21)** 2021218064 **(22)** 18.08.2021
**(54)** Pressure balanced meter assembly and method of use
**(31)** 17/387,014 **(32)** 28.07.21 **(33)** US
63/067,938 20.08.20 US

**(71)** Deere & Company
**(21)** 2021218104 **(22)** 19.08.2021
**(54)** Harvester crop mapping
**(31)** 17/027,451 **(32)** 21.09.20 **(33)** US

**(71)** Deere & Company
**(21)** 2021218108 **(22)** 19.08.2021

## Complete Applications Filed - Name Index cont'd

**(54)** Work machine with automatic pitch control of implement
**(31)** 17/028,107 **(32)** 22.09.20 **(33)** US

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**(71)** DET-IO PTY LIMITED; Philipos, J.
**(21)** 2021212052 **(22)** 05.08.2021
**(54)** VirtEngine

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**(71)** Detnet South Africa (Pty) Ltd
**(21)** 2021215279 **(22)** 13.08.2021
**(54)** WIRELESS DETONATOR
**(62)** 2016354618

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**(71)** DHK Storage, LLC
**(21)** 2021218049 **(22)** 17.08.2021
**(54)** Computer Server Heat Regulation Utilizing Integrated Precision Air Flow
**(62)** 2017348339

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**(71)** Ecolab USA Inc.
**(21)** 2021218006 **(22)** 16.08.2021
**(54)** Methods for forming peroxyformic acid and uses thereof
**(62)** 2020201438

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**(71)** Edwards Lifesciences CardiAQ LLC
**(21)** 2021218147 **(22)** 19.08.2021
**(54)** Actively controllable stent, stent graft, heart valve and method of controlling same
**(62)** 2019246892

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**(71)** Elta Group Innovations Limited
**(21)** 2021218030 **(22)** 17.08.2021
**(54)** Extractor Fan with Integrated Heater
**(31)** 2021902525 **(32)** 13.08.21 **(33)** AU

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**(71)** Esculon, LLC
**(21)** 2021215257 **(22)** 13.08.2021
**(54)** Devices and methods for managing chest drainage
**(62)** 2017228404

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**(71)** Esperion Therapeutics, Inc.
**(21)** 2021218120 **(22)** 19.08.2021
**(54)** Fixed dose combinations and formulations comprising ETC1002 and Ezetimibe and methods of treating or reducing the risk of cardiovascular disease
**(62)** 2016233485

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**(71)** Exciva GMBH; Vepachedu, S.
**(21)** 2021215274 **(22)** 13.08.2021
**(54)** Targeted drug rescue with novel compositions, combinations, and methods thereof
**(62)** 2018261654

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**(71)** Eximis Surgical Inc.
**(21)** 2021218005 **(22)** 16.08.2021
**(54)** Electrosurgical device and methods
**(62)** 2016323319

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**(71)** Fate Therapeutics, Inc.
**(21)** 2021218109 **(22)** 19.08.2021
**(54)** Improved reprogramming methods and cell culture platforms
**(62)** 2015227184

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**(71)** Field Orthopaedics Pty Ltd
**(21)** 2021218026 **(22)** 17.08.2021
**(54)** BONE FIXATION SYSTEM AND METHOD
**(31)** 2020902937 **(32)** 18.08.20 **(33)** AU

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**(71)** Fisher & Paykel Healthcare Limited
**(21)** 2021218107 **(22)** 19.08.2021
**(54)** RESPIRATORY OR SURGICAL HUMIDIFIER AND COMPONENTS THEREOF
**(31)** 63/154,197 **(32)** 26.02.21 **(33)** US

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**(71)** Fisher & Paykel Healthcare Limited
**(21)** 2021218111 **(22)** 19.08.2021
**(54)** HUMIDIFICATION DEVICE COMMUNICATIONS
**(31)** 63/202,232 **(32)** 02.06.21 **(33)** US

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**(71)** Fisher & Paykel Healthcare Limited
**(21)** 2021218118 **(22)** 19.08.2021
**(54)** Tracheostomy guard
**(62)** 2016206383

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**(71)** FlipTix, Inc.
**(21)** 2021215253 **(22)** 13.08.2021
**(54)** System and method for providing a tertiary market for used tickets
**(62)** 2019268122

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**(71)** FORTESCUE FUTURE INDUSTRIES PTY LTD
**(21)** 2021215186 **(22)** 11.08.2021
**(54)** Apparatus and method for transfer of cryogenic fluids
**(31)** 2021902215 **(32)** 19.07.21 **(33)** AU

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**(71)** FORTESCUE FUTURE INDUSTRIES PTY LTD
**(21)** 2021215194 **(22)** 11.08.2021
**(54)** Apparatus and method for transfer of cryogenic fluids – materials substitution
**(31)** 2021902222 **(32)** 19.07.21 **(33)** AU

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**(71)** FORTESCUE FUTURE INDUSTRIES PTY LTD
**(21)** 2021215196 **(22)** 11.08.2021
**(54)** Apparatus and method for transfer of cryogenic fluids – dual use vapour return and liquid circulation line
**(31)** 2021902226 **(32)** 19.07.21 **(33)** AU

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**(71)** Fortescue Metals Group Ltd
**(21)** 2021218077 **(22)** 18.08.2021
**(54)** Pack disassembly line

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**(71)** Fortescue Metals Group Ltd
**(21)** 2021218083 **(22)** 18.08.2021
**(54)** Rail car absorber disassembly apparatus and method

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**(71)** Framecad Licensing Limited
**(21)** 2021218024 **(22)** 17.08.2021
**(54)** A TRUSS

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**(71)** Fraser, M.
**(21)** 2021215269 **(22)** 13.08.2021
**(54)** A Marina

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**(71)** Fraser, M.
**(21)** 2021215278 **(22)** 13.08.2021
**(54)** Collapsible infant carriage

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**(71)** Fraser, M.
**(21)** 2021218150 **(22)** 19.08.2021
**(54)** A portable shelter

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**(71)** Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
**(21)** 2021218089 **(22)** 18.08.2021
**(54)** Concept for generating an enhanced sound-field description or a modified sound field description using a depth-extended dirac technique or other techniques
**(62)** 2018298878

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**(71)** FWP IP APS
**(21)** 2021215272 **(22)** 13.08.2021
**(54)** Pharmaceutical composition containing dimethyl fumarate for administration at a low daily dose
**(62)** 2019268052

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**(71)** GIANNI INDUSTRIES INC.
**(21)** 2021218072 **(22)** 18.08.2021
**(54)** ELECTRONIC LOCK FEATURING FOOLPROOFNESS AND REPOSITIONABILITY

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**Givaudan S.A. see Chemcon S.A.**
**(21)** 2021218078

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**Glass Technology Services Limited see Swansea University**
**(21)** 2021215296

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**(71)** Glaukos Corporation
**(21)** 2021218010 **(22)** 16.08.2021
**(54)** Implants with controlled drug delivery features and methods of using same
**(62)** 2020201236

## Complete Applications Filed - Name Index cont'd

**(71)** GNG Electrical Pty Ltd
**(21)** 2021218121 **(22)** 19.08.2021
**(54)** GENERATION LOAD CONTROL
**(62)** 2019201918

**(71)** Google LLC
**(21)** 2021218016 **(22)** 16.08.2021
**(54)** FREQUENCY PATTERN FOR REDUCING PARASITIC INTERACTIONS IN A QUBIT GRID
**(62)** 2017426939

**(71)** Grout, L.
**(21)** 2021218171 **(22)** 19.08.2021
**(54)** Method and Apparatus for Milling
**(31)** 2020904267 **(32)** 19.11.20 **(33)** AU

**(71)** Guardant Health, Inc.
**(21)** 2021218122 **(22)** 19.08.2021
**(54)** Diagnostic methods
**(62)** 2016258914

**(71)** Hadal, Inc.
**(21)** 2021218139 **(22)** 19.08.2021
**(54)** Incremental deployment of buoy or buoy network
**(62)** 2019205258

**(71)** Harrison, M.
**(21)** 2021217997 **(22)** 16.08.2021
**(54)** Extracting filter elements
**(31)** 2021900372 **(32)** 15.02.21 **(33)** AU

**(71)** HeadStart Medical Ltd
**(21)** 2021215267 **(22)** 13.08.2021
**(54)** SYSTEM AND METHOD FOR PREPARING HOLLOW CORE CRANIAL REMODELING ORTHOSES
**(62)** 2019239794

**(71)** HOLDEN, J.
**(21)** 2021218161 **(22)** 19.08.2021
**(54)** RECEIVER CHANNEL FOR ROOFING
**(31)** 2020903412 **(32)** 23.09.20 **(33)** AU

**(71)** Huawei Technologies Co., Ltd.
**(21)** 2021218157 **(22)** 19.08.2021
**(54)** METHOD AND DEVICE FOR DATA ROUTE SELECTION
**(62)** 2019221233

**(71)** Hussmann Corporation
**(21)** 2021215298 **(22)** 13.08.2021
**(54)** TEMPERATURE-CONTROLLED CONTAINER
**(31)** 63/065,957 **(32)** 14.08.20 **(33)** US

**(71)** iDispense, LLC
**(21)** 2021218137 **(22)** 19.08.2021
**(54)** Concentrate cartridge with membrane
**(31)** 63/067677 **(32)** 19.08.20 **(33)** US
17/405467 18.08.21 US

**(71)** Illinois Tool Works Inc.
**(21)** 2021218047 **(22)** 17.08.2021
**(54)** Combustion-powered fastener driving tool fuel cell adapter
**(31)** 17/008,946 **(32)** 01.09.20 **(33)** US

**(71)** Illinois Tool Works Inc.
**(21)** 2021218071 **(22)** 18.08.2021
**(54)** A fastener setting tool
**(31)** 20195370.0 **(32)** 09.09.20 **(33)** EP
20199800.2 02.10.20 EP
20206810.2 10.11.20 EP

**Illumina, Inc. see Illumina Cambridge Limited**
**(21)** 2021218096

**(71)** Illumina Cambridge Limited; Illumina, Inc.
**(21)** 2021218096 **(22)** 18.08.2021
**(54)** Fluid Caching
**(62)** 2019211963

**(71)** Implantica Patent Ltd
**(21)** 2021215266 **(22)** 13.08.2021
**(54)** Apparatus for controlling flow of intestinal contents in a patient's intestines
**(62)** 2019283987

**(71)** Implantica Patent Ltd
**(21)** 2021215271 **(22)** 13.08.2021
**(54)** Device and method for bone adjustment operating with wireless transmission of energy
**(62)** 2020200055

**(71)** Innate Pharma
**(21)** 2021215306 **(22)** 16.08.2021
**(54)** CD73 BLOCKADE
**(62)** 2015329982

**(71)** Inoptec Limited, Zweigniederlassung Deutschland
**(21)** 2021218127 **(22)** 19.08.2021
**(54)** Electronic Spectacles
**(62)** 2020202124

**Inovio Pharmaceuticals, Inc. see The Trustees of the University of Pennsylvania**
**(21)** 2021218117

**(71)** Intervet International B.V.
**(21)** 2021218094 **(22)** 18.08.2021
**(54)** PD-L1 antibodies binding canine PD-L1
**(62)** 2015326996

**(71)** Intrator, N.
**(21)** 2021215126 **(22)** 10.08.2021
**(54)** SYSTEMS AND METHODS FOR BRAIN ACTIVITY INTERPRETATION
**(62)** 2019284075

**(71)** Intuit Inc.
**(21)** 2021218129 **(22)** 19.08.2021
**(54)** System for managing transactional data
**(62)** 2018276025

**(71)** iprotex GmbH & Co. KG
**(21)** 2021218035 **(22)** 17.08.2021
**(54)** TEXTILE HOSE
**(62)** 2018241405

**Jacobs, G. see McLellan, J.**
**(21)** 2021218050

**(71)** Janssen Biotech, Inc.
**(21)** 2021218021 **(22)** 17.08.2021
**(54)** Anti-CD38 antibodies for treatment of acute myeloid leukemia
**(62)** 2015358615

**(71)** Janssen Biotech, Inc.
**(21)** 2021218103 **(22)** 19.08.2021
**(54)** GDF15 fusion proteins and uses thereof
**(62)** 2017263237

**(71)** Juul Labs, Inc.
**(21)** 2021218151 **(22)** 19.08.2021
**(54)** CALIBRATED DOSE CONTROL
**(62)** 2015357509

**(71)** Kerkhoff, S.
**(21)** 2021218057 **(22)** 17.08.2021
**(54)** SAFETY HELMET
**(31)** 2021901040 **(32)** 09.04.21 **(33)** AU

**(71)** L.S.C. Electronics Pty Ltd
**(21)** 2021215292 **(22)** 13.08.2021
**(54)** Power distribution
**(31)** 2020904773 **(32)** 21.12.20 **(33)** AU

**(71)** Load and Move Pty Ltd
**(21)** 2021218002 **(22)** 16.08.2021
**(54)** AN IMPROVED CONTAINER, CONTAINER CONSTRUCTION, HANDLING METHOD AND APPARATUS
**(62)** 2019284041

**(71)** Lockliv Holdings Pty. Ltd.
**(21)** 2021212089 **(22)** 05.08.2021
**(54)** MONITORING AND ALERT SYSTEM AND METHOD FOR SENSORIALLY PERCEPTIBLE DEVICES
**(62)** 2019203235

## Complete Applications Filed - Name Index cont'd

**(71)** LU, M.; CHEUNG, D.; CHIU, H.; BARNES, T.
**(21)** 2021218054 **(22)** 17.08.2021
**(54)** Apparatus for supplying fluid to a tissue area

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**(71)** M.G.A. Insurance Brokers Pty. Ltd.
**(21)** 2021218056 **(22)** 17.08.2021
**(54)** METHOD OF MANAGING ASSETS
**(62)** 2019283780

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**(71)** Magic Leap, Inc.
**(21)** 2021218126 **(22)** 19.08.2021
**(54)** Architectures and methods for outputting different wavelength light out of waveguides
**(62)** 2015323940

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**(71)** MARA RENEWABLES CORPORATION
**(21)** 2021218000 **(22)** 16.08.2021
**(54)** Semi-continuous culture methods
**(62)** 2015332094

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**(71)** Maxson Developments Pty Ltd
**(21)** 2021218032 **(22)** 17.08.2021
**(54)** Cable Pit Cover
**(31)** 2020903587 **(32)** 05.10.20 **(33)** AU

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**(71)** McGrath, L.
**(21)** 2021215152 **(22)** 11.08.2021
**(54)** Trueys Tailored Electricians Level
**(31)** 2021902445 **(32)** 07.08.21 **(33)** AU

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**(71)** McLaughlin Gormley King Company
**(21)** 2021215284 **(22)** 13.08.2021
**(54)** Mixtures of sabadilla alkaloids and pyrethrum and uses thereof
**(62)** 2017290129

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**McLellan, S. see McLellan, J.**
**(21)** 2021218050

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**(71)** McLellan, J.; McLellan, S.; Thomas, E.; Jacobs, G.
**(21)** 2021218050 **(22)** 17.08.2021
**(54)** A SOLE AND METHOD OF DETERMINING ATTRIBUTES THEREOF

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**(71)** Memorial Sloan-Kettering Cancer Center
**(21)** 2021218116 **(22)** 19.08.2021
**(54)** Midbrain dopamine (DA) neurons for engraftment
**(62)** 2018222997

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**(71)** MERCK PATENT GMBH
**(21)** 2021218041 **(22)** 17.08.2021
**(54)** Polycyclic TLR7/8 antagonists and use thereof in the treatment of immune disorders
**(62)** 2016371014

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**(71)** MERCK SERONO S.A.
**(21)** 2021218009 **(22)** 16.08.2021
**(54)** L-VALINATE OF HYDROXYPROPYL-THIAZOLIDINE CARBOXAMIDE DERIVATIVE AND SALT FORM, CRYSTAL POLYMORPH THEREOF
**(62)** 2017205670

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**Merck Sharp & Dohme B.V. see TESARO, INC.**
**(21)** 2021218080

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**(71)** Michael Cunningham Pty Ltd
**(21)** 2021218034 **(22)** 17.08.2021
**(54)** Roadside barrier
**(31)** 2021902555 **(32)** 14.07.21 **(33)** AU

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**(71)** Minnetronix, Inc.
**(21)** 2021218067 **(22)** 18.08.2021
**(54)** TANGENTIAL FLOW FILTER SYSTEM FOR THE FILTRATION OF MATERIALS FROM BIOLOGIC FLUIDS
**(62)** 2019283901

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**(71)** Mitsubishi HiTec Paper Europe GmbH
**(21)** 2021218068 **(22)** 18.08.2021
**(54)** DEVELOPER-FREE HEAT-SENSITIVE RECORDING MATERIAL
**(31)** 20191808.3 **(32)** 19.08.20 **(33)** EP

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**(71)** Mobbs, B.
**(21)** 2021218164 **(22)** 19.08.2021
**(54)** JACK STAND WITH INTEGRATED LOAD SENSING MEANS
**(31)** 2021901421 **(32)** 13.05.21 **(33)** AU

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**(71)** Moon Dog Brewing Pty Ltd
**(21)** 2021218101 **(22)** 18.08.2021
**(54)** Beverage production
**(31)** 2020904470 **(32)** 03.12.20 **(33)** AU

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**(71)** Neerkoli Pte Ltd; Paul, B.
**(21)** 2021218091 **(22)** 18.08.2021
**(54)** A food-consumption monitoring system

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**(71)** NEUROBIOGEN CO., LTD.
**(21)** 2021218149 **(22)** 19.08.2021
**(54)** COMPOSITION FOR PREVENTION AND TREATMENT OF SPINAL CORD INJURY
**(62)** 2019217118

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**(71)** NEW IMAGE INTERNATIONAL LIMITED
**(21)** 2021215259 **(22)** 13.08.2021
**(54)** ORAL COMPOSITIONS FOR PROMOTING HEALTH AND WELL-BEING AND USES THEREFOR

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**(71)** Nunhems B.V.
**(21)** 2021215263 **(22)** 13.08.2021
**(54)** Lettuce Variety NUN 09153 LTL

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**(71)** Nunhems B.V.
**(21)** 2021215264 **(22)** 13.08.2021
**(54)** Lettuce Variety NUN 08230 LTL

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**(71)** NuVasive, Inc.
**(21)** 2021218059 **(22)** 18.08.2021
**(54)** LORDOTIC EXPANDABLE FUSION IMPLANT
**(62)** 2016381191

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**(71)** Objective Learning Materials Pty Ltd
**(21)** 2021218143 **(22)** 19.08.2021
**(54)** Unitising system

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**(71)** ObsEva SA
**(21)** 2021218003 **(22)** 16.08.2021
**(54)** ALPHA-AMINO ESTERS OF HYDROXYPROPYLTHIAZOLIDINE CARBOXAMIDE DERIVATIVE AND SALT FORM, CRYSTAL POLYMORPH THEREOF
**(62)** 2017205254

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**(71)** OFB Corporation Pty Ltd
**(21)** 2021218038 **(22)** 17.08.2021
**(54)** A firefighting system

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**(71)** Optim Fire Essentials Pty. Ltd.
**(21)** 2021218099 **(22)** 18.08.2021
**(54)** Composition, container, system and methods

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**(71)** Oregon Health & Science University; Vir Biotechnology, Inc.; Triad National Security, LLC
**(21)** 2021218141 **(22)** 19.08.2021
**(54)** HIV vaccines comprising one or more population episensus antigens
**(62)** 2015327797

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**(71)** Oregon House Pty Ltd
**(21)** 2021218022 **(22)** 17.08.2021
**(54)** Disc mount assembly

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**Ornatas Pty Ltd see University of Tasmania**
**(21)** 2021218018

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**(71)** Oticon Medical A/S
**(21)** 2021218085 **(22)** 18.08.2021
**(54)** Cochlear Implant System with Optimized Frame Coding
**(31)** 20192175.6 **(32)** 21.08.20 **(33)** EP

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**(71)** Oticon Medical A/S
**(21)** 2021218123 **(22)** 19.08.2021

## Complete Applications Filed - Name Index cont'd

**(54)** Hearing System to be Worn at a User's Head
**(31)** 20192078.2 **(32)** 21.08.20 **(33)** EP

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**(71)** PACE Innovation Australia Pty Ltd
**(21)** 2021218079 **(22)** 18.08.2021
**(54)** Liquid delivery cross-over prevention system and adaptor therefor
**(31)** 2020902944 **(32)** 18.08.20 **(33)** AU

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**(71)** PanGang Group Panzhihua Iron & Steel Research Institute Co., Ltd.
**(21)** 2021217996 **(22)** 16.08.2021
**(54)** A METHOD FOR OPTIMIZING MICROSTRUCTURE OF RAIL WELDED JOINT
**(31)** 202011134208.4 **(32)** 21.10.20 **(33)** CN

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**(71)** PanGang Group Panzhihua Iron & Steel Research Institute Co., Ltd.
**(21)** 2021218136 **(22)** 19.08.2021
**(54)** PEARLITE STEEL RAIL WITH RAIL HEAD HARDENED LAYER HAVING UNIFORM HARDNESS GRADIENT AND PREPARATION METHOD THEREOF
**(31)** 202011119410.X **(32)** 19.10.20 **(33)** CN

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**(71)** Parabel Nutrition, Inc.
**(21)** 2021215302 **(22)** 13.08.2021
**(54)** Methods and systems for processing a high-concentration protein product from a microcrop and compositions thereof
**(62)** 2016321414

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**Paul, B. see Neerkoli Pte Ltd**
**(21)** 2021218091

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**Philipos, J. see DET-IO PTY LIMITED**
**(21)** 2021212052

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**(71)** Portola Pharmaceuticals, Inc.
**(21)** 2021218033 **(22)** 17.08.2021
**(54)** Antidotes for factor XA inhibitors and methods of using the same
**(62)** 2019204123

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**(71)** Pride Mobility Products Corporation
**(21)** 2021218084 **(22)** 18.08.2021
**(54)** Mobility vehicle
**(62)** 2018224858

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**(71)** Prime Datum Development Company LLC
**(21)** 2021218119 **(22)** 19.08.2021
**(54)** Direct-drive system for cooling system fans, exhaust blowers and pumps
**(62)** 2019210485

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**(71)** Pump & Electrical Engineering Services Pty Ltd
**(21)** 2021218082 **(22)** 18.08.2021
**(54)** A water heating system and an intake and exhaust system thereof
**(31)** 2021900701 **(32)** 11.03.21 **(33)** AU

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**(71)** Qualcomm Incorporated
**(21)** 2021218045 **(22)** 17.08.2021
**(54)** SEMI-PERSISTENT MEASUREMENT REFERENCE SIGNAL (MRS) CONFIGURATION
**(62)** 2017301699

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**(71)** Redei Innovations Pty Ltd
**(21)** 2021218138 **(22)** 19.08.2021
**(54)** Electrical supply system
**(31)** 2021901411 **(32)** 12.05.21 **(33)** AU

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**(71)** Red Milawa Pty Ltd
**(21)** 2021217999 **(22)** 16.08.2021
**(54)** DEVICE AND SYSTEM FOR CONTROLLING A TRANSPORT VEHICLE
**(31)** 16/997,791 **(32)** 19.08.20 **(33)** US

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**(71)** Redpath, M.L.
**(21)** 2021218135 **(22)** 19.08.2021
**(54)** Vehicle transport

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**(71)** Regeneron Pharmaceuticals, Inc.
**(21)** 2021218060 **(22)** 18.08.2021
**(54)** HUMANIZED IL-4 AND IL-4R ALPHA ANIMALS
**(62)** 2015255977

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**(71)** Regents of the University of Minnesota
**(21)** 2021218102 **(22)** 18.08.2021
**(54)** ENGINEERED TISSUES HAVING STRUCTURAL COMPONENTS EMBEDDED THEREIN, AND METHODS OF MAKING AND USING
**(62)** 2017246276

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**(71)** Regional Power Corporation
**(21)** 2021218053 **(22)** 17.08.2021
**(54)** A method of reconfiguring an electrical power distribution network including distributed energy resources

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**(71)** Rhodia Operations
**(21)** 2021215256 **(22)** 13.08.2021
**(54)** Drift control formulations for use with air induction nozzles
**(62)** 2017223462

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**(71)** Richard Amadio Holdings (Aust) Pty Limited
**(21)** 2021218090 **(22)** 18.08.2021
**(54)** Blow back bin
**(31)** 2020902939 **(32)** 18.08.20 **(33)** AU

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**(71)** Rock, M.
**(21)** 2021218124 **(22)** 19.08.2021
**(54)** Headgear for a face mask and method of securing same

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**(71)** Rustamzadeh, E.
**(21)** 2021212000 **(22)** 03.08.2021
**(54)** LATERAL RETRACTOR SYSTEM FOR MINIMIZING MUSCLE DAMAGE IN SPINAL SURGERY
**(31)** 16/988,901 **(32)** 10.08.20 **(33)** US

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**(71)** Sage Therapeutics, Inc.
**(21)** 2021218132 **(22)** 19.08.2021
**(54)** Compositions and methods for treating CNS disorders
**(62)** 2020202892

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**(71)** SALK INSTITUTE FOR BIOLOGICAL STUDIES
**(21)** 2021218007 **(22)** 16.08.2021
**(54)** Reprogramming progenitor compositions and methods of use therefore
**(62)** 2018271254

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**(71)** Samsung Electronics Co., Ltd.
**(21)** 2021218131 **(22)** 19.08.2021
**(54)** A MECHANISM TO DISCOVER COMPUTATIONAL STORAGE FUNCTIONS AND DEVICES
**(31)** 63/073,922 **(32)** 02.09.20 **(33)** US
63/144,469 01.02.21 US
17/234,780 19.04.21 US

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**(71)** SanBio, Inc.
**(21)** 2021218073 **(22)** 18.08.2021
**(54)** Medium, methods, cells and secreted factors for stem cell culture and therapy
**(62)** 2017241807

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**(71)** Schneider Electric (Australia) Pty Limited
**(21)** 2021218105 **(22)** 19.08.2021
**(54)** SWITCH ASSEMBLY, SYSTEM AND METHOD
**(62)** 2015275227

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**(71)** Schneider Electric (Australia) Pty Limited
**(21)** 2021218106 **(22)** 19.08.2021
**(54)** SWITCH ASSEMBLY WITH ROTATABLE OPERATIONAL PART
**(62)** 2015275233

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**(71)** Senko Advanced Components, Inc.
**(21)** 2021215283 **(22)** 13.08.2021
**(54)** Fiber optic connector assemblies with adjustable polarity
**(62)** 2017206806

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**(71)** Simplehuman, LLC
**(21)** 2021215293 **(22)** 13.08.2021

## Complete Applications Filed - Name Index cont'd

**(54)** Foaming soap dispensers
**(62)** 2016201439

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**(71)** Slingshot Biosciences, Inc.
**(21)** 2021218058 **(22)** 17.08.2021
**(54)** HYDROGEL PARTICLES WITH TUNABLE OPTICAL PROPERTIES AND METHODS FOR USING THE SAME
**(62)** 2020201783

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**(71)** Smallaire Pty Ltd
**(21)** 2021218098 **(22)** 18.08.2021
**(54)** Covering system

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**(71)** SMART CARTE, INC.
**(21)** 2021215295 **(22)** 13.08.2021
**(54)** Electronic locker right acquisition via an external system
**(62)** 2015255230

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**(71)** Snap-on Incorporated
**(21)** 2021218075 **(22)** 18.08.2021
**(54)** PCB WITH INTEGRATED SWITCHES
**(31)** 17/003,440 **(32)** 26.08.20 **(33)** US

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**(71)** Snap-on Incorporated
**(21)** 2021218156 **(22)** 19.08.2021
**(54)** Hex driver
**(62)** 2019213405

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**(71)** Société des Produits Nestlé S.A.
**(21)** 2021218066 **(22)** 18.08.2021
**(54)** Mixture of HMOs
**(62)** 2016372446

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**(71)** Sony Corporation
**(21)** 2021215291 **(22)** 13.08.2021
**(54)** Frequency band extending device and method, encoding device and method, decoding device and method, and program
**(62)** 2019206091

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**(71)** Starbucks Corporation
**(21)** 2021218027 **(22)** 17.08.2021
**(54)** Beverage dispensing systems and methods
**(62)** 2016322512

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**(71)** STEINBERG, S.; CORBETT III, S.
**(21)** 2021218029 **(22)** 17.08.2021
**(54)** STEERABLE ULTRASOUND ATTACHMENT FOR ENDOSCOPE
**(62)** 2019252943

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**(71)** STRYTEX PTY LTD
**(21)** 2021218011 **(22)** 16.08.2021
**(54)** ACTIVITY BASED COMPLIANCE

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**(71)** Sungrow Power Supply Co., Ltd.
**(21)** 2021218037 **(22)** 17.08.2021
**(54)** Intelligent switch device and power generation system
**(31)** 202011349308.9 **(32)** 26.11.20 **(33)** CN

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**(71)** Sungrow Power Supply Co., Ltd.
**(21)** 2021218086 **(22)** 18.08.2021
**(54)** Photovoltaic system, method for locating devices in photovoltaic string, MLPE apparatus and method for ranking MLPE apparatuses
**(31)** 202010869819.7 **(32)** 26.08.20 **(33)** CN

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**(71)** Swansea University; Glass Technology Services Limited
**(21)** 2021215296 **(22)** 13.08.2021
**(54)** Proppant and Method of Manufacturing a Proppant
**(62)** 2017310550

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**(71)** SYSYGY PTY. LTD.
**(21)** 2021218074 **(22)** 18.08.2021
**(54)** Concentrated Cleaner Formulation and Method for Producing Same

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**(71)** Tahi Technologies Inc.
**(21)** 2021218063 **(22)** 18.08.2021
**(54)** System and method for an automatic cooking device
**(62)** 2019204636

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**(71)** Takeda Pharmaceutical Company Limited
**(21)** 2021215261 **(22)** 13.08.2021
**(54)** Evacuated blood collection tubes containing protease inhibitors for the assessment of contact system activation
**(62)** 2016306653

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**(71)** Tarveda Therapeutics, Inc.
**(21)** 2021215260 **(22)** 13.08.2021
**(54)** SSTR-targeted conjugates and particles and formulations thereof
**(62)** 2016343817

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**(71)** TELECOMIT PTY LTD
**(21)** 2021212149 **(22)** 06.08.2021
**(54)** Building Material Made of Industrial Tailings/Waste of Environmental Benefit

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**(71)** TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
**(21)** 2021217994 **(22)** 16.08.2021
**(54)** UPLINK DATA INDICATION
**(62)** 2019279988

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**(71)** Terumo Kabushiki Kaisha
**(21)** 2021215305 **(22)** 16.08.2021
**(54)** SYRINGE BARREL, METHOD FOR MANUFACTURING SAME, AND PREFILLED SYRINGE
**(62)** 2020201583

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**(71)** TESARO, INC.; Merck Sharp & Dohme B.V.
**(21)** 2021218080 **(22)** 18.08.2021
**(54)** Combination therapies for treating cancer
**(62)** 2018264992

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**(71)** The Arizona Board of Regents on Behalf of the University of Arizona
**(21)** 2021217992 **(22)** 16.08.2021
**(54)** Stereoscopic displays with addressable focus cues
**(62)** 2019204862

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**(71)** The Climate Corporation
**(21)** 2021218100 **(22)** 18.08.2021
**(54)** Systems and methods for image capture and analysis of agricultural fields
**(62)** 2016287397

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**(71)** The Regents of the University of California
**(21)** 2021215287 **(22)** 13.08.2021
**(54)** Conditionally active heterodimeric polypeptides and methods of use thereof
**(62)** 2017205197

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**(71)** The Trustees of the University of Pennsylvania; Inovio Pharmaceuticals, Inc.
**(21)** 2021218117 **(22)** 19.08.2021
**(54)** Vaccines having an antigen and interleukin-21 as an adjuvant
**(62)** 2019201424

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**(71)** The University of Queensland
**(21)** 2021218014 **(22)** 16.08.2021
**(54)** Apparatus and method for forming emulsions for use in flotation

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**(71)** The University of Sydney; Western Sydney Local Health District
**(21)** 2021215254 **(22)** 13.08.2021
**(54)** Connexin 45 Inhibition for Therapy
**(62)** 2016309948

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**(71)** The USA, As Represented By The Secretary, Dept. Of Health And Human Services; Codagenix, Inc.
**(21)** 2021218112 **(22)** 19.08.2021
**(54)** VACCINE CANDIDATES FOR HUMAN RESPIRATORY SYNCYTIAL VIRUS (RSV) HAVING ATTENUATED PHENOTYPES
**(62)** 2017332789

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**Thomas, E. see McLellan, J.**

## Complete Applications Filed - Name Index cont'd

**(21)** 2021218050

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**(71)** Three G Metal Fabrications Ltd
**(21)** 2021218028 **(22)** 17.08.2021
**(54)** Modular Platform System Components and Tools
**(31)** 2012913.6 **(32)** 20.08.20 **(33)** GB
2108837.2 18.06.21 GB
2111705.6 16.08.21 GB

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**(71)** Toms, M.
**(21)** 2021218031 **(22)** 17.08.2021
**(54)** Transporting drinking straws

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**(71)** Transcon Securities Pty Ltd
**(21)** 2021218125 **(22)** 19.08.2021
**(54)** Financial management system
**(62)** 2019210605

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**(71)** TransMedics, Inc
**(21)** 2021215289 **(22)** 13.08.2021
**(54)** Aortic cannula for ex vivo organ care system
**(62)** 2016318622

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**(71)** Treace Medical Concepts, Inc.
**(21)** 2021218092 **(22)** 18.08.2021
**(54)** Bone positioning and preparing guide systems and methods
**(62)** 2016308461

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**(71)** Trefimet S.A
**(21)** 2021215276 **(22)** 13.08.2021
**(54)** QUICK-COUPLING DEVICE COMPRISING A HOLLOW CYLINDER HAVING BEVELLED ENDS AND TWO CIRCULAR INTERNAL GROOVES
**(62)** 2019232805

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**Triad National Security, LLC see Oregon Health & Science University**
**(21)** 2021218141

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**(71)** Tri Alpha Energy, Inc.
**(21)** 2021218065 **(22)** 18.08.2021
**(54)** PHOTON NEUTRALIZERS FOR NEUTRAL BEAM INJECTORS
**(62)** 2015350009

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**(71)** Uber Technologies, Inc.
**(21)** 2021218052 **(22)** 17.08.2021
**(54)** Selecting a route to a destination based on zones
**(62)** 2019226174

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**University of Guelph see Yissum Research Development Company of the Hebrew University of Jerusalem, Ltd.**
**(21)** 2021215297

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**(71)** University of Tasmania; Ornatas Pty Ltd
**(21)** 2021218018 **(22)** 16.08.2021
**(54)** Feed Compositions and Uses thereof

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**(71)** UPL LIMITED
**(21)** 2021215300 **(22)** 13.08.2021
**(54)** Crystalline form of 4-amino-N-tert-butyl-4,5-dihydro-3-isopropyl-5-oxo-1,2,4–1H-triazole-1-carboxamide and a process for producing thereof.
**(31)** 202021035020 **(32)** 14.08.20 **(33)** IN

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**(71)** Vanderputt, A.
**(21)** 2021215304 **(22)** 15.08.2021
**(54)** Heating system control
**(31)** 2021900878 **(32)** 24.03.21 **(33)** AU

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**(71)** Ventana Medical Systems, Inc.
**(21)** 2021218128 **(22)** 19.08.2021
**(54)** Protein proximity assay in formalin fixed paffafin embedded tissue using caged haptens
**(62)** 2016316846

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**Vepachedu, S. see Exciva GMBH**
**(21)** 2021215274

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**(71)** Vetco Gray Scandinavia AS
**(21)** 2021218152 **(22)** 19.08.2021
**(54)** SUBSEA HORIZONTAL CONNECTION ARRANGEMENT
**(62)** 2016256568

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**Vir Biotechnology, Inc. see Oregon Health & Science University**
**(21)** 2021218141

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**Virginia Commonwealth University see Yissum Research Development Company of the Hebrew University of Jerusalem, Ltd.**
**(21)** 2021215297

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**(71)** Visa International Service Association
**(21)** 2021218146 **(22)** 19.08.2021
**(54)** BROWSER INTEGRATION WITH CRYPTOGRAM
**(62)** 2016245988

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**(71)** Walton Mine Services Pty Ltd
**(21)** 2021218042 **(22)** 17.08.2021
**(54)** Spacer Device

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**(71)** Wareing, C.
**(21)** 2021218013 **(22)** 16.08.2021
**(54)** Gate Stop
**(62)** 2018241229

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**(71)** Well Universal Pty Ltd
**(21)** 2021217995 **(22)** 16.08.2021
**(54)** A METHOD AND A PROCESSOR FOR DETERMINING HEALTH OF AN INDIVIDUAL
**(62)** 2015345998

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**(71)** West Affum Holdings Corp.
**(21)** 2021218162 **(22)** 19.08.2021
**(54)** POSITIVE SYSTEM ALERTS
**(31)** 63/078,722 **(32)** 21.08.20 **(33)** US

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**Western Sydney Local Health District see The University of Sydney**
**(21)** 2021215254

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**(71)** Westinghouse Air Brake Technologies Corporation
**(21)** 2021218061 **(22)** 18.08.2021
**(54)** HYBRID COMMUNICATION SYSTEM
**(31)** 63/067,469 **(32)** 19.08.20 **(33)** US
17/397,978 09.08.21 US

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**(71)** Willcox, T.
**(21)** 2021218095 **(22)** 18.08.2021
**(54)** Rock bolt and method of installing same

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**(71)** Wolzien LLC
**(21)** 2021215273 **(22)** 13.08.2021
**(54)** Video call center
**(62)** 2019204999

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**(71)** Yissum Research Development Company of the Hebrew University of Jerusalem, Ltd.; Virginia Commonwealth University; University of Guelph
**(21)** 2021215297 **(22)** 13.08.2021
**(54)** Fatty acid amides and uses thereof in the treatment of addiction disorder and addiction related conditions
**(62)** 2018274757

**Numerical Index**

## Complete Applications Filed - Numerical Index cont'd

**2021218066** Société des Produits Nestlé S.A.
**2021218067** Minnetronix, Inc.
**2021218068** Mitsubishi HiTec Paper Europe GmbH
**2021218070** Abiomed Europe GmbH
**2021218071** Illinois Tool Works Inc.
**2021218072** GIANNI INDUSTRIES INC.
**2021218073** SanBio, Inc.
**2021218074** SYSYGY PTY. LTD.
**2021218075** Snap-on Incorporated
**2021218077** Fortescue Metals Group Ltd
**2021218078** Chemcon S.A.; Givaudan S.A.
**2021218079** PACE Innovation Australia Pty Ltd
**2021218080** TESARO, INC.; Merck Sharp & Dohme B.V.
**2021218081** Advanced Brain Monitoring, Inc.
**2021218082** Pump & Electrical Engineering Services Pty Ltd
**2021218083** Fortescue Metals Group Ltd
**2021218084** Pride Mobility Products Corporation
**2021218085** Oticon Medical A/S
**2021218086** Sungrow Power Supply Co., Ltd.
**2021218087** Blackhurst, D.
**2021218088** Bliis Innovations Pty Ltd
**2021218089** Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
**2021218090** Richard Amadio Holdings (Aust) Pty Limited
**2021218091** Neerkoli Pte Ltd; Paul, B.
**2021218092** Treace Medical Concepts, Inc.
**2021218093** Context Biopharma Inc.
**2021218094** Intervet International B.V.
**2021218095** Willcox, T.
**2021218096** Illumina Cambridge Limited; Illumina, Inc.
**2021218097** Amal Therapeutics SA
**2021218098** Smallaire Pty Ltd
**2021218099** Optim Fire Essentials Pty. Ltd.
**2021218100** The Climate Corporation
**2021218101** Moon Dog Brewing Pty Ltd
**2021218102** Regents of the University of Minnesota
**2021218103** Janssen Biotech, Inc.
**2021218104** Deere & Company
**2021218105** Schneider Electric (Australia) Pty Limited
**2021218106** Schneider Electric (Australia) Pty Limited
**2021218107** Fisher & Paykel Healthcare Limited
**2021218108** Deere & Company
**2021218109** Fate Therapeutics, Inc.
**2021218110** Commonwealth Scientific and Industrial Research Organisation
**2021218111** Fisher & Paykel Healthcare Limited
**2021218112** The USA, As Represented By The Secretary, Dept. Of Health And Human Services; Codagenix, Inc.
**2021218113** Bedsmade Pty. Limited
**2021218116** Memorial Sloan-Kettering Cancer Center
**2021218117** The Trustees of the University of Pennsylvania; Inovio Pharmaceuticals, Inc.
**2021218118** Fisher & Paykel Healthcare Limited
**2021218119** Prime Datum Development Company LLC
**2021218120** Esperion Therapeutics, Inc.
**2021218121** GNG Electrical Pty Ltd
**2021218122** Guardant Health, Inc.
**2021218123** Oticon Medical A/S
**2021218124** Rock, M.
**2021218125** Transcon Securities Pty Ltd
**2021218126** Magic Leap, Inc.
**2021218127** Inoptec Limited, Zweigniederlassung Deutschland
**2021218128** Ventana Medical Systems, Inc.
**2021218129** Intuit Inc.
**2021218130** ANIMALISTIC PET PRODUCTS PTY. LTD.
**2021218131** Samsung Electronics Co., Ltd.
**2021218132** Sage Therapeutics, Inc.
**2021218133** AOBiome LLC
**2021218134** CREDIT CLEAR INTERNATIONAL PTY LTD
**2021218135** Redpath, M.L.
**2021218136** PanGang Group Panzhihua Iron & Steel Research Institute Co., Ltd.
**2021218137** iDispense, LLC
**2021218138** Redei Innovations Pty Ltd
**2021218139** Hadal, Inc.
**2021218141** Oregon Health & Science University; Vir Biotechnology, Inc.; Triad National Security, LLC
**2021218143** Objective Learning Materials Pty Ltd
**2021218144** Chatsworth Products, Inc.
**2021218145** Cagent Vascular, Inc.
**2021218146** Visa International Service Association
**2021218147** Edwards Lifesciences CardiAQ LLC
**2021218148** Beckman, J.
**2021218149** NEUROBIOGEN CO., LTD.
**2021218150** Fraser, M.
**2021218151** Juul Labs, Inc.
**2021218152** Vetco Gray Scandinavia AS
**2021218156** Snap-on Incorporated
**2021218157** Huawei Technologies Co., Ltd.
**2021218159** Accenture Global Solutions Limited
**2021218160** Agile Wing Smart Manufacturing Co., LTD.
**2021218161** HOLDEN, J.
**2021218162** West Affum Holdings Corp.
**2021218164** Mobbs, B.
**2021218171** Grout, L.

## Innovation Patent Applications Filed

**Name Index**

Applications listed below were processed through the Patent Office Canberra during the period ending 17 Aug 2021 .
(This list may contain multiple listings of a patent application where there are multiple applicants for that patent.)

**(71)** 3ME Technology Pty Ltd
**(21)** 2021106349 **(22)** 21.08.2021
**(54)** Battery Apparatus
**(31)** 2021902367 **(32)** 31.07.21 **(33)** AU

**(71)** Academy of Water Resources Conservation Forest of Qilian Mountains, Gansu Province
**(21)** 2021105697 **(22)** 17.08.2021
**(54)** A Monitoring Device for Forest Ecological Environment

**(71)** Adderley, M.
**(21)** 2021106338 **(22)** 21.08.2021
**(54)** Planter Box

**(71)** Aerologix Group Pty Ltd
**(21)** 2021105674 **(22)** 17.08.2021
**(54)** Interface, System and Method for an Unmanned Vehicle
**(31)** 2020904149 **(32)** 12.11.20 **(33)** AU

**(71)** Affiliated Hospital of Jining Medical University
**(21)** 2021106118 **(22)** 20.08.2021
**(54)** USE OF MICROVESICLE DERIVED FROM UMBILICAL CORD MESENCHYMAL STEM CELL IN PREPARATION OF FORMULATION FOR PROMOTING REGENERATION OF POST-TRAUMATIC SKIN APPENDAGE

**(71)** Affiliated Zhongshan Hospital of Dalian University
**(21)** 2021105831 **(22)** 18.08.2021
**(54)** Method for Automatically Noting Medical Image Under Small Samples and System Thereof

**(71)** Affiliated Zhongshan Hospital of Dalian University
**(21)** 2021105838 **(22)** 18.08.2021
**(54)** System for Detecting and Screening Pulmonary Nodules Based on Artificial Intelligence

**Agricultural Products Processing Research Institute, China Academy of Tropical Agricultural Sciences see South Subtropical Crop Research Institute, China Academy of Tropical Agricultural Sciences**
**(21)** 2021105663

**Agricultural Technology Extension Center of Muping District, Yantai see Shandong Peanut Research Institute**
**(21)** 2021105906

**(71)** Agro-biological Gene Research Center of Guangdong Academy of Agricultural Sciences; Guangdong Xinji Emu Industrial Co., LTD.
**(21)** 2021106292 **(22)** 21.08.2021
**(54)** RAPID, ACCURATE AND NONINVASIVE METHOD FOR SEX IDENTIFICATION OF DROMAIUS NOVAEHOLLANDIA NESTLINGS

**(71)** Al-Kakouni, Z.; Kakouni Care Products Australia PTY.LTD
**(21)** 2021106386 **(22)** 21.08.2021
**(54)** External Prostate and Inner Thighs Massaging Cushion Device.

**(71)** Anhui Medical University
**(21)** 2021105747 **(22)** 18.08.2021
**(54)** Application of diagnostic kit and MAK16 in preparation of reagent for early diagnosis of systemic lupus erythematosus

**ANKISETTY, G.K. see M, K.**
**(21)** 2021105808

**(71)** Anupma; Kumar, V.; Kumar, D.; Baru, R.; Payal; Sharma, V.; Goyal, R.; Kumar, R.
**(21)** 2021105185 **(22)** 09.08.2021
**(54)** A PLATFORM INDEPENDENT WIDEBAND FLEXIBLE ANTENNA DEVICE FOR IOT APPLICATIONS

**(71)** Apro Commerce Pty Ltd
**(21)** 2021105960 **(22)** 19.08.2021
**(54)** Counterweight Type Incense Socket
**(31)** 202121455619.3 **(32)** 29.06.21 **(33)** CN

**(71)** Arctech Solar Holding Co., Ltd.
**(21)** 2021105669 **(22)** 17.08.2021
**(54)** FULL-AZIMUTH IRRADIATION TRACKING METHOD, DETECTION APPARATUS AND SOLAR TRACKER
**(62)** PCT/CN2021/081204

**(71)** Arctech Solar Holding Co., Ltd.
**(21)** 2021106014 **(22)** 19.08.2021
**(54)** PURLIN AND SOLAR TRACKING BRACKET
**(62)** PCT/CN2021/081100

**(71)** Arctech Solar Holding Co., Ltd.
**(21)** 2021106019 **(22)** 19.08.2021
**(54)** HYBRID NETWORKING COMMUNICATION SYSTEM AND METHOD
**(62)** PCT/CN2021/081208

**(71)** AUSTRALIAN ARTIFICIAL INTELLIGENCE TECHNOLOGIES PTY LTD
**(21)** 2021106429 **(22)** 22.08.2021
**(54)** TEACHER ASSISTANCE SYSTEM AND METHOD

**(71)** Australian Coil Services Pty Ltd
**(21)** 2021106078 **(22)** 20.08.2021
**(54)** A Method for Reducing Solids Migration into New Wellbores

**(71)** Australian Electric Car Manufacturing Pty Ltd
**(21)** 2021106181 **(22)** 20.08.2021
**(54)** Floating evaporation control and shading device
**(31)** 2020904360 **(32)** 25.11.20 **(33)** AU

**B, G.J. see B, R.**
**(21)** 2021105809

**(71)** B, R.; D, B.; D, S.; M, R.P.; B, G.J.; T.C, M.; S, P.; S, M.; S, K.; J, D.S.
**(21)** 2021105809 **(22)** 18.08.2021
**(54)** SMART SPECTACLES WITH DISPLAY AND REMINDER TECHNIQUES

**(71)** b.box for kids developments Pty Ltd
**(21)** 2021105954 **(22)** 19.08.2021
**(54)** Multi-purpose mineral bodywash

**(71)** b.box for kids developments Pty Ltd
**(21)** 2021105955 **(22)** 19.08.2021
**(54)** Hair and body wash

**(71)** b.box for kids developments Pty Ltd
**(21)** 2021105956 **(22)** 19.08.2021
**(54)** Nappy Cream

**(71)** b.box for kids developments Pty Ltd
**(21)** 2021105957 **(22)** 19.08.2021
**(54)** Body Lotion

**(71)** b.box for kids developments Pty Ltd
**(21)** 2021105958 **(22)** 19.08.2021

## Innovation Patent Applications Filed - Name Index cont'd

**(54)** Body Oil

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**(71)** b.box for kids developments Pty Ltd
**(21)** 2021105959 **(22)** 19.08.2021
**(54)** Nappy Cream

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**Baru, R. see Anupma**
**(21)** 2021105185

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**Beihang University see China University of Petroleum (East China)**
**(21)** 2021105665

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**(71)** Beihang University
**(21)** 2021106247 **(22)** 20.08.2021
**(54)** Vehicle fusion positioning method based on V2X and laser point cloud registration for advanced automatic driving

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**(71)** Beihang University
**(21)** 2021106293 **(22)** 21.08.2021
**(54)** Dynamic task unloading method between cooperative vehicles based on mobile edge computing

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**Beijing Haiguang Instrument Co., LTD see Tianjin Customs Animal, Plant and food Testing Center**
**(21)** 2021105743

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**(71)** Beijing Institute of Technology
**(21)** 2021105660 **(22)** 17.08.2021
**(54)** Visual target tracking method based on bionic retina

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**(71)** Beijing Institute of Technology
**(21)** 2021105667 **(22)** 17.08.2021
**(54)** Omnidirectional ghost imaging method and system based on the mechanism of human retina

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**(71)** Beijing Institute of Technology
**(21)** 2021105941 **(22)** 19.08.2021
**(54)** Sustained-Release Cleaning Agent For Water Storage Equipment

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**(71)** Beijing Institute of Technology
**(21)** 2021106134 **(22)** 20.08.2021
**(54)** A METHOD FOR ESTIMATING THE POSE OF TANK FILLER CAP OF AUTOMATIC REFUELING ROBOT
**(31)** 202110901962.4 **(32)** 06.08.21 **(33)** CN

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**BEIJING KEYTEC TECHNOLOGY CO., LTD see Beijing Weather Modification Office**
**(21)** 2021106189

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**(71)** BEIJING TORCH SMT INCORPORATED COMPANY
**(21)** 2021105997 **(22)** 19.08.2021
**(54)** Vacuum Eutectic Furnace with Formic Acid Injection System

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**(71)** Beijing Weather Modification Office; HOPE (BEIJING) TECHNOLOGY CO., LTD.; BEIJING KEYTEC TECHNOLOGY CO., LTD
**(21)** 2021106189 **(22)** 20.08.2021
**(54)** MULTI-SOURCE INFORMATION ASSISTANT DECISION SYSTEM FOR ARTIFICIAL WEATHER GROUND

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**(71)** BENJAMIN KOPELKE PTY LTD
**(21)** 2021105742 **(22)** 18.08.2021
**(54)** ONLINE REVIEW SYSTEM AND METHOD

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**(71)** Best Masonry Bricks & Pavers Pty Ltd
**(21)** 2021105780 **(22)** 18.08.2021
**(54)** Retaining Wall System and Blocks for Building the Retaining Wall

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**(71)** BIOBINS PTY LTD
**(21)** 2021106428 **(22)** 22.08.2021
**(54)** Receptacle for disposal of medical and/or other contaminated or potentially contaminated waste
**(31)** 2021900107 **(32)** 19.01.21 **(33)** AU

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**BO, W. see TIAN, B.**
**(21)** 2021106025

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**BO, W. see TIAN, B.**
**(21)** 2021106031

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**BO, W. see TIAN, B.**
**(21)** 2021106032

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**BO, W. see TIAN, B.**
**(21)** 2021106036

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**BO, W. see TIAN, B.**
**(21)** 2021106043

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**BO, W. see TIAN, B.**
**(21)** 2021106182

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**BO, W. see TIAN, B.**
**(21)** 2021106197

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**(71)** Bonnici, J.
**(21)** 2021105711 **(22)** 17.08.2021
**(54)** EARLY INTERVENTION HIGH RISK CLINICAL INCIDENT MANAGEMENT MODEL

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**(71)** Booysen, A.
**(21)** 2021105921 **(22)** 19.08.2021
**(54)** Wireless Remote Cable Spiking Tool/Gun

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**(71)** Borecam Asia Pte Ltd
**(21)** 2021105652 **(22)** 17.08.2021
**(54)** System and Method of Validating a Core Orientation Measurement
**(62)** 2017254918

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**(71)** Borecam Asia Pte Ltd
**(21)** 2021105653 **(22)** 17.08.2021
**(54)** Multi-Purpose Orientation Measurement System
**(62)** 2020200242

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**(71)** Borecam Asia Pte Ltd
**(21)** 2021105654 **(22)** 17.08.2021
**(54)** Voice Operated Mining Apparatus
**(62)** 2020281124

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**(71)** Botanical Water Technologies IP Ltd
**(21)** 2021106201 **(22)** 20.08.2021
**(54)** SYSTEMS AND METHODS FOR THE PREPARATION OF PLANT DERIVED PRODUCTS USING OSMOSIS TECHNIQUES
**(62)** 2019225447

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**(71)** Botanical Water Technologies IP Ltd
**(21)** 2021106210 **(22)** 20.08.2021
**(54)** ISOTOPIC COMPOSITIONS
**(62)** 2017329108

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**(71)** Bourgelat Pty Ltd
**(21)** 2021106246 **(22)** 20.08.2021
**(54)** Apparatus for attachment to a tractor
**(31)** 2020903008 **(32)** 22.08.20 **(33)** AU
2020904205 16.11.20 AU

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**Burt, M. see Poinern, G.**
**(21)** 2021105998

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**(71)** C&S PACKAGING SUPPLIER, S.L.U.
**(21)** 2021106153 **(22)** 20.08.2021
**(54)** Inner covering for containers
**(31)** U202131363 **(32)** 30.06.21 **(33)** ES

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**(71)** Cai Xiaoshuang
**(21)** 2021105814 **(22)** 18.08.2021
**(54)** Application of Microwave/Subcritical Combined Key Technology for High-Efficiency Low-Temperature Extraction of Cyperus Esculentus Oil

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**(71)** Caterpillar Global Mining LLC
**(21)** 2021106138 **(22)** 20.08.2021

## Innovation Patent Applications Filed - Name Index cont'd

**(54)** Dipper handle
**(31)** 17/406,533 **(32)** 19.08.21 **(33)** US

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**(71)** CCTEG Chongqing Research Institute
**(21)** 2021105929 **(22)** 19.08.2021
**(54)** A Multi-Parameter Prediction Model For Coal Sample Hardiness

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**CH, G.P. see M, K.**
**(21)** 2021105808

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**CHA, H. see TIAN, B.**
**(21)** 2021106025

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**CHA, H. see TIAN, B.**
**(21)** 2021106031

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**CHA, H. see TIAN, B.**
**(21)** 2021106032

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**CHA, H. see TIAN, B.**
**(21)** 2021106036

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**CHA, H. see TIAN, B.**
**(21)** 2021106043

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**CHA, H. see TIAN, B.**
**(21)** 2021106182

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**CHA, H. see TIAN, B.**
**(21)** 2021106197

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**(71)** Changchun University of Science and Technology
**(21)** 2021105770 **(22)** 18.08.2021
**(54)** METHOD FOR DETECTING MARINE OIL SPILL BASED ON VISIBLE/INFRARED POLARIZATION CHARACTERISTIC

---

**(71)** Changsha University of Science & Technology; Shenzhen Technology University; Zhejiang University
**(21)** 2021106177 **(22)** 20.08.2021
**(54)** Method for predicting spatial-temporal dynamic distribution of electric vehicle charging loads

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**Changsha University of Science & Technology see Zhejiang University**
**(21)** 2021106200

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**Changsha University of Science & Technology see Shenzhen Technology University**
**(21)** 2021106209

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**Chengdu Aokerui Technology Co., Ltd see Sichuan Normal University**
**(21)** 2021106133

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**Chengdu University of Technology see Tongji University**
**(21)** 2021106119

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**Chengdu University of Technology see Tongji University**
**(21)** 2021106123

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**(71)** Chi, Y.
**(21)** 2021106093 **(22)** 20.08.2021
**(54)** Energy Management System Based on Big Data

---

**(71)** China Agricultural University
**(21)** 2021105854 **(22)** 18.08.2021
**(54)** Cultivation method of porcine hair follicle stem cell
**(31)** 202110359546.6 **(32)** 02.04.21 **(33)** CN

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**China National Petroleum Corporation Safety and Environmental Technology Research Institute Co., Ltd. see Xi'an Shiyou University**
**(21)** 2021106079

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**(71)** China National Rice Research Institute
**(21)** 2021105745 **(22)** 18.08.2021
**(54)** SEEDLING RAISING DEVICE AND METHOD OF HYBRID RICE

---

**(71)** China Railway 18th Bureau Group Co., Ltd.; Wuhan-Jiujiang Railway Passenger Dedicated Line Hubei Co., Ltd.
**(21)** 2021105800 **(22)** 18.08.2021
**(54)** TREATMENT METHOD FOR SIDE ROOF COLLAPSE OF WATER-BEARING BROKEN SOFT ROCK TUNNEL

---

**(71)** China Railway 18th Bureau Group Co., Ltd.
**(21)** 2021106155 **(22)** 20.08.2021
**(54)** CONSTRUCTION METHOD OF UNDERWATER BOTTOM SEALING OF OPEN CAISSON FOUNDATION BY CONCRETING

---

**(71)** China Railway 18th Bureau Group Co., Ltd.; Liaoning Technical University; Hebei University of Technology
**(21)** 2021106192 **(22)** 20.08.2021
**(54)** METHOD FOR TUNNEL PORTAL CONSOLIDATION WITH THETA-SHAPED SLURRY STOP CURTAIN

---

**China Railway 18th Bureau Group No.4 Engineering Co., Ltd. see China Railway 18th Construction Bureau Co., Ltd.**
**(21)** 2021105952

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**(71)** China Railway 18th Construction Bureau Co., Ltd.; China Railway 18th Bureau Group No.4 Engineering Co., Ltd.
**(21)** 2021105952 **(22)** 19.08.2021
**(54)** REINFORCING STEEL BAR BINDING JIG FOR VARIABLE CROSS-SECTION CONCRETE BOX GIRDER
**(31)** 2021201976806 **(32)** 25.01.21 **(33)** CN

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**China Railway High-tech Industry Co., LTD see Wuhan Municipal Construction Group Co. LTD**
**(21)** 2021105974

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**China Railway No.8 Engineering Group Co., Ltd. see No.3 Engineering Company of China Railway No.8 Engineering Group Co., Ltd.**
**(21)** 2021105980

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**China Railway Tunnel Co. LTD see Wuhan Municipal Construction Group Co. LTD**
**(21)** 2021105974

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**China State Railway Group Co., Ltd. see Meteorological Observation Centre of China Meteorological Administration**
**(21)** 2021106128

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**(71)** China University of Mining and Technology
**(21)** 2021106168 **(22)** 20.08.2021
**(54)** High-gas Coal Seam Group Pressure Relief Mining Method Based on Gob-side Entry Retaining in the First Mining Whole Rock Pressure Relief Working Face

---

**(71)** China University of Mining and Technology -Beijing
**(21)** 2021105642 **(22)** 17.08.2021
**(54)** Oxidation Activation Method of Ilmenite

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**(71)** China University of Mining and Technology -Beijing; Kunming University of Science and Technology; Guangxi China-Tin Group Co. LTD
**(21)** 2021105644 **(22)** 17.08.2021
**(54)** A Leaching Reagent of Zinc Oxide Ore Based on Smithsonite and Its Leaching Method

---

**(71)** China University of Mining and Technology -Beijing; Kunming University of Science and Technology
**(21)** 2021105647 **(22)** 17.08.2021
**(54)** A Leaching Method of Copper Oxide Concentrate Based on Complex Reaction and Its Leaching Agent

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## Innovation Patent Applications Filed - Name Index cont'd

**(71)** China University of Petroleum (East China); Ocean University of China; Beihang University; CNOOC Deepwater Development Limited; CNOOC Safety Technology Services Company, Ltd., Tianjin, China; Yantai Jereh Petroleum Equipment & Technologies Co., Ltd, Shandong, China
**(21)** 2021105665 **(22)** 17.08.2021
**(54)** REMAINING USEFUL LIFE PREDICTION METHOD AND SYSTEM OF SUBSEA CHRISTMAS TREE SYSTEM BASED ON DIGITAL TWIN

---

**Chongqing Jiaoyun City Card Technology Co., Ltd see Civil Aviation University of China**
**(21)** 2021105752

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**(71)** Chongqing Technology and Business University; Chongqing Technology and Business University of Science and technology development co., LTD
**(21)** 2021105932 **(22)** 19.08.2021
**(54)** A Vacuum Oil-water Separation Device for Double-effect Heat Transmission Falling Film

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**Chongqing Technology and Business University of Science and technology development co., LTD see Chongqing Technology and Business University**
**(21)** 2021105932

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**(71)** Chow, C.Y.
**(21)** 2021105700 **(22)** 17.08.2021
**(54)** Pillow
**(31)** 32021034291.3 **(32)** 02.07.21 **(33)** HK

---

**(71)** Civil Aviation University of China; Shenzhen Urban Transport Planning & Design Institute; Chongqing Jiaoyun City Card Technology Co., Ltd
**(21)** 2021105752 **(22)** 18.08.2021
**(54)** Multi-mode Transportation Sharing Travel Platform Under SaaS Mode

---

**CNOOC Deepwater Development Limited see China University of Petroleum (East China)**
**(21)** 2021105665

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**CNOOC Safety Technology Services Company, Ltd., Tianjin, China see China University of Petroleum (East China)**
**(21)** 2021105665

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**(71)** Coll, R.
**(21)** 2021105889 **(22)** 19.08.2021
**(54)** Aggregated Security Information And Automation System For Diverse Cloud Business Systems

---

**(71)** Corues Biotechnology Co., Ltd
**(21)** 2021106132 **(22)** 20.08.2021
**(54)** A polβ inhibitor and its application

---

**(71)** Crop Research Institute, Shandong Academy of Agricultural Sciences
**(21)** 2021105659 **(22)** 17.08.2021
**(54)** Method for selecting wheat variety as raw material suitable for bread and/or noodles

---

**(71)** Cufone, M.
**(21)** 2021105702 **(22)** 17.08.2021
**(54)** A ROPE RECOVERY TOOL
**(62)** 2020223701

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**CUI, M. see TIAN, B.**
**(21)** 2021106031

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**CUI, M. see TIAN, B.**
**(21)** 2021106197

---

**(71)** Curtis, M.
**(21)** 2021105705 **(22)** 17.08.2021
**(54)** A garment for providing power to electric devices
**(31)** 2020903127 **(32)** 01.09.20 **(33)** AU

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**(71)** CYCLINGDEAL USA, INC.
**(21)** 2021106110 **(22)** 20.08.2021
**(54)** BICYCLE WHEEL POSITIONING DEVICE

---

**(71)** CYCLINGDEAL USA, INC.
**(21)** 2021106113 **(22)** 20.08.2021
**(54)** KICKSTAND FOR BIKES

---

**D, B. see B, R.**
**(21)** 2021105809

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**D, S. see B, R.**
**(21)** 2021105809

---

**(71)** Dalian University of Technology
**(21)** 2021106095 **(22)** 20.08.2021
**(54)** METHOD FOR ANALYZING FATIGUE DAMAGE OF OFFSHORE WIND TURBINE FOUNDATION BASED ON FIELD MEASUREMENT
**(31)** 202011587407.0 **(32)** 28.12.20 **(33)** CN

---

**(71)** Dean, N.
**(21)** 2021106412 **(22)** 22.08.2021
**(54)** BP machine with automatic tube recoil, pull-on cuff and wheels with breaks

---

**DENG, D. see TIAN, B.**
**(21)** 2021106031

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**DENG, D. see TIAN, B.**
**(21)** 2021106032

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**DENG, D. see TIAN, B.**
**(21)** 2021106036

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**DENG, D. see TIAN, B.**
**(21)** 2021106197

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**Dennis, S. see Dennis, S.**
**(21)** 2021106442

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**(71)** Dennis, S.; Dennis, S.
**(21)** 2021106442 **(22)** 22.08.2021
**(54)** Self Securing Ladder Locking Attachment

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**(71)** Digital Pulse Systems Pty Ltd
**(21)** 2021105803 **(22)** 18.08.2021
**(54)** Battery conditioner, battery for a vehicle and lid thereof

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**(71)** DINO GROUP PTY LTD
**(21)** 2021106430 **(22)** 22.08.2021
**(54)** CABLE MANAGEMENT DEVICES
**(31)** 2021900422 **(32)** 18.02.21 **(33)** AU

---

**(71)** Dr Egg Pty Limited
**(21)** 2021105750 **(22)** 18.08.2021
**(54)** System and Method for Virtual Mental Health System Infrastructure
**(31)** 2021902531 **(32)** 13.08.21 **(33)** AU

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**(71)** Du Plooy, W.
**(21)** 2021106277 **(22)** 21.08.2021
**(54)** A Seat Belt Latch Protector
**(31)** 2021902291 **(32)** 27.07.21 **(33)** AU

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**(71)** East China Normal University
**(21)** 2021105892 **(22)** 19.08.2021
**(54)** Method for Determining Endogenous Hormones in Wheat

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**(71)** FARRELL, C.
**(21)** 2021106195 **(22)** 20.08.2021
**(54)** AN INTRA-ORAL APPLIANCE FOR USE WITH A FIXED RETAINER

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**Fawcett, D. see Poinern, G.**
**(21)** 2021105998

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**(71)** FCI Holdings Delaware, Inc
**(21)** 2021105904 **(22)** 19.08.2021
**(54)** Self-drilling rock bolt
**(31)** 2020904240 **(32)** 17.11.20 **(33)** AU

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## Innovation Patent Applications Filed - Name Index cont'd

**Feng, R. see Feng, H.**
**(21)** 2021106425

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**(71)** Feng, H.; Feng, R.
**(21)** 2021106425 **(22)** 22.08.2021
**(54)** Method, system and apparatus for extracting entity words of diseases and their corresponding laboratory indicators from Chinese medical texts

---

**Feng, R. see Feng, H.**
**(21)** 2021106432

---

**(71)** Feng, H.; Feng, R.
**(21)** 2021106432 **(22)** 22.08.2021
**(54)** An approach, device and system for extracting relational words between two entities.

---

**Feng, R. see Feng, H.**
**(21)** 2021106438

---

**(71)** Feng, H.; Feng, R.
**(21)** 2021106438 **(22)** 22.08.2021
**(54)** Method, system and device for extracting the terms for the causes of symptoms in Chinese medical texts based on relations between hyponyms and superordinates

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**Feng, R. see Feng, H.**
**(21)** 2021106441

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**(71)** Feng, H.; Feng, R.
**(21)** 2021106441 **(22)** 22.08.2021
**(54)** Method, System and Device for Extracting Compound Words of Pathological location in Medical Texts Based on Word-Formation

---

**(71)** Finegan, G.
**(21)** 2021106465 **(22)** 23.08.2021
**(54)** A METHOD OF ADAPTING A BUILDING TO RECEIVE A LIGHTER ROOF COVER ON ITS ROOF STRUCTURE
**(31)** 2020904223 **(32)** 16.11.20 **(33)** AU

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**(71)** Firebrick Pharma Limited
**(21)** 2021105927 **(22)** 19.08.2021
**(54)** Virucidal formulations containing povidone-iodine
**(62)** 2021203846

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**(71)** Firebrick Pharma Limited
**(21)** 2021106154 **(22)** 20.08.2021
**(54)** Methods for treating and/or preventing body odour

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**(71)** First Institute of Oceanography, Ministry of Natural Resources
**(21)** 2021106186 **(22)** 20.08.2021
**(54)** Columnar and Box-Type Integrated Sampler Applicable to Deep-Sea Sediment Sampling Operation
**(31)** 202110045757.2 **(32)** 14.01.21 **(33)** CN

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**(71)** First Institute of Oceanography, Ministry of Natural Resources
**(21)** 2021106187 **(22)** 20.08.2021
**(54)** Columnar Sediment Sampling System with In-Situ Data Acquisition Function
**(31)** 202110045758.7 **(32)** 14.01.21 **(33)** CN

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**(71)** First Institute of Oceanography, Ministry of Natural Resources
**(21)** 2021106188 **(22)** 20.08.2021
**(54)** Multi-Pipe and Box-Type Integrated Sampler Applicable to Deep-Sea Sediment Sampling Operation
**(31)** 202110045764.2 **(32)** 14.01.21 **(33)** CN

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**(71)** First Nations Blockchain Pty Ltd
**(21)** 2021106151 **(22)** 20.08.2021
**(54)** A system integrating blockchain with tangible and non-tangible assets for provenance of Halal Certification

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**(71)** Flocon Engineering Pty Ltd
**(21)** 2021105655 **(22)** 17.08.2021
**(54)** Aggregate Distributor
**(62)** 2020390428

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**(71)** Food Crops Research Institute, Yunnan Academy of Agricultural Sciences
**(21)** 2021105666 **(22)** 17.08.2021
**(54)** METHOD FOR CONSTRUCTING QTL-MAPPED LINKAGE F2 POPULATION

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**(71)** Fraser, M.A.
**(21)** 2021105969 **(22)** 19.08.2021
**(54)** A portable shelter

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**(71)** FUWAI Hospital
**(21)** 2021106029 **(22)** 19.08.2021
**(54)** Plaque Detection Method, Device, Device and Medium

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**(71)** Fuzhou University
**(21)** 2021105777 **(22)** 18.08.2021
**(54)** Magnetically Levitated Nutation Artificial Heart Pump and Its System

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**(71)** Fuzhou University
**(21)** 2021105779 **(22)** 18.08.2021
**(54)** Planetary Gearbox Fault Diagnosis Method Using Parameter Optimized VMD and Multi-domain Manifold Learning

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**(71)** Fuzhou University
**(21)** 2021105971 **(22)** 19.08.2021
**(54)** Magnetically Levitated Nutation spherical bearing and its working method

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**(71)** G & H Resources Pty Ltd
**(21)** 2021106462 **(22)** 23.08.2021
**(54)** A CLADDING BOARD INSTALLATION TOOL AND METHOD OF USE THEREOF
**(31)** 2020904155 **(32)** 12.11.20 **(33)** AU

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**Galbraith, K. see Johnson, D.**
**(21)** 2021105648

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**(71)** Gansu Agricultural University
**(21)** 2021106080 **(22)** 20.08.2021
**(54)** MOLECULAR MARKERS AND QTL LOCATION FOR STRONG-WINTERNESS TURNIP TYPE WINTER RAPE CAT ENZYMES

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**(71)** Gansu Agricultural University
**(21)** 2021106081 **(22)** 20.08.2021
**(54)** MOLECULAR MARKERS AND QTL LOCATION FOR SOLUBLE PROTEIN CONTENT OF STRONG-WINTERNESS TURNIP TYPE WINTER RAPE

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**(71)** Gay, N.
**(21)** 2021105685 **(22)** 17.08.2021
**(54)** A non-slip tacky liquid formulation for eyeglass nose pads
**(31)** 2021900314 **(32)** 10.02.21 **(33)** AU

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**GE, J. see TIAN, B.**
**(21)** 2021106025

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**GE, J. see TIAN, B.**
**(21)** 2021106043

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**GE, J. see TIAN, B.**
**(21)** 2021106182

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**(71)** Ghahraei, A.
**(21)** 2021106434 **(22)** 22.08.2021
**(54)** A Multi-Purpose Automatic Distiller and Controlling Method Thereof

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**(71)** GlassFit Australia Pty Ltd
**(21)** 2021106524 **(22)** 23.08.2021
**(54)** AN ILLUMINABLE FENCING ASSEMBLY AND METHODS OF USE THEREOF
**(31)** 2021901177 **(32)** 21.04.21 **(33)** AU

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**(71)** Glassguard Pty Ltd
**(21)** 2021106107 **(22)** 20.08.2021
**(54)** Glazing assembly
**(31)** 2020902990 **(32)** 21.08.20 **(33)** AU

## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Gooden, A.
**(21)** 2021106147 **(22)** 20.08.2021
**(54)** Heat shield
**(31)** 2021900615 **(32)** 04.03.21 **(33)** AU

**(71)** Good Water Energy Ltd
**(21)** 2021106085 **(22)** 20.08.2021
**(54)** MULTI-WELL GEOTHERMAL SYPHONING SYSTEM

**Goyal, R. see Anupma**
**(21)** 2021105185

**(71)** GRAPHIC ERA (DEEMED TO BE UNIVERSITY)
**(21)** 2021105756 **(22)** 18.08.2021
**(54)** Piezo-Oscillo-Energy Device for Generating Electricity Using Exhaust Gas

**(71)** GRAPHIC ERA (DEEMED TO BE UNIVERSITY)
**(21)** 2021105896 **(22)** 19.08.2021
**(54)** HONEYCOMB STRUCTURED IONIC POLYMER METAL NANOCOMPOSITES USING DIRECT BONDED OF ACIDIC IONIC LIQUID

**(71)** GRAPHIC ERA (DEEMED TO BE UNIVERSITY)
**(21)** 2021106023 **(22)** 19.08.2021
**(54)** DISH DEPURATE APPARATUS

**(71)** Grout, L.
**(21)** 2021106334 **(22)** 21.08.2021
**(54)** Method and Apparatus for Milling
**(62)** 2021218171

**(71)** Growplay Pty Ltd
**(21)** 2021105694 **(22)** 17.08.2021
**(54)** FRAME AND COUPLING ARRANGEMENT
**(31)** 2020904444 **(32)** 30.11.20 **(33)** AU

**(71)** Growplay Pty Ltd
**(21)** 2021106360 **(22)** 21.08.2021
**(54)** PLAYGROUND APPARATUS
**(31)** 2021902021 **(32)** 03.07.21 **(33)** AU

**(71)** Growplay Pty Ltd
**(21)** 2021106361 **(22)** 21.08.2021
**(54)** APPARATUS FOR FASTENING RUNGS TO MONKEY BARS

**Guangdong Hongke Agricultural Machinery R&D Co., Ltd. see South China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences**
**(21)** 2021106135

**Guangdong Xinji Emu Industrial Co., LTD. see Agro-biological Gene Research Center of Guangdong Academy of Agricultural Sciences**
**(21)** 2021106292

**Guanggxi Road Construction Engineering Group., Ltd. see Guangxi University**
**(21)** 2021105668

**Guangxi Beitou Transportation Maintenance Technology Group Co.,Ltd. see Guangxi University**
**(21)** 2021105693

**Guangxi China-Tin Group Co. LTD see China University of Mining and Technology -Beijing**
**(21)** 2021105644

**Guangxi Dapu Highway Co., LTD see Guangxi University**
**(21)** 2021105693

**Guangxi Nantian Expressway Co.,Ltd. see Guangxi University**
**(21)** 2021105677

**(71)** Guangxi University; Guanggxi Road Construction Engineering Group., Ltd.; Road&Bridge South China Engineering Co., LTD
**(21)** 2021105668 **(22)** 17.08.2021
**(54)** A Multi-Section Corrosion-Resistant Solvent For Restoring The Microstructure Of Cement Pavement And Its Use Method

**(71)** Guangxi University; Nanning Expressway Construction & Development Co.,Ltd.; The South Branch Of China Construction Eighth Engineering Division Corp.,Ltd.
**(21)** 2021105672 **(22)** 17.08.2021
**(54)** A Device For Detecting The Apparent Viscosity Of The Asphalt Under The Vibration State

**(71)** Guangxi University; Guangxi Nantian Expressway Co.,Ltd.; The South Branch Of China Construction Eighth Engineering Division Corp.,Ltd.
**(21)** 2021105677 **(22)** 17.08.2021
**(54)** A Preparation Method for High-Performance Asphalt Mixture

**(71)** Guangxi University; Guangxi Beitou Transportation Maintenance Technology Group Co.,Ltd.; Guangxi Dapu Highway Co., LTD
**(21)** 2021105693 **(22)** 17.08.2021
**(54)** A Method For Composite Geopolymer Grouting Material Used For Asphalt Surface Layer Reinforcement And Anti-flow Deformation

**(71)** Guangxi University
**(21)** 2021106109 **(22)** 20.08.2021
**(54)** Evaluation index screening strategy for lean management of power system line loss under big data environment

**(71)** Guangxi University of Science and Technology
**(21)** 2021105658 **(22)** 17.08.2021
**(54)** A Preparation Method for Garnet-type Electrolyte of Batteries with High Ionic Conductivity in the Energy Storage Charging System

**(71)** Guangxi University of Science and Technology
**(21)** 2021105810 **(22)** 18.08.2021
**(54)** A Preparation Method for High-performance Composite Binder of Batteries in the Energy Storage Charging System

**(71)** Guangzhou Baiyunshan Qixing Pharmaceutical Co. Ltd
**(21)** 2021106162 **(22)** 20.08.2021
**(54)** High-Performance Liquid Chromatography (HPLC) Characteristic Chromatogram of Huatuo Zaizao Pill, and Construction Method and Application thereof
**(31)** CN **(32)** 27.10.20 **(33)** CN 2020111658301

**(71)** Guangzhou Panyu Polytechnic
**(21)** 2021105890 **(22)** 19.08.2021
**(54)** TRANSFORMABLE AND ADAPTIVE TYRE

**Hainan seed breeding base of Xinjiang Uygur Autonomous Region see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

**(71)** Hammersmith Nominees Pty Ltd
**(21)** 2021106097 **(22)** 20.08.2021
**(54)** Saddle Pads

**(71)** Hangzhou Fulton Thermal Energy Equipment Co., Ltd
**(21)** 2021105755 **(22)** 18.08.2021
**(54)** Fluid heating system

**(71)** Hanson, D.
**(21)** 2021106164 **(22)** 20.08.2021

## Innovation Patent Applications Filed - Name Index cont'd

**(54)** Using Building Waste ( excess concrete from building, infrastructure or civil) projects to manufacture support, feature and or stabilised reinforced blocks.

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**(71)** Harbin Institute of Technology
**(21)** 2021105783 **(22)** 18.08.2021
**(54)** Worm based system for onsite domestic sewage source separation treatment and waste resource recycling in villages and towns

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**(71)** Harbin Institute of Technology
**(21)** 2021105936 **(22)** 19.08.2021
**(54)** A Bolt Looseness Sensing Device Based on the Traction Effect of Piezoelectricity

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**(71)** Harbin Institute of Technology
**(21)** 2021106000 **(22)** 19.08.2021
**(54)** A Self-Sufficient Energy Monitoring System For Bolt Looseness Based On Piezoelectric Vibrating Sheet

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**(71)** Harbin Institute of Technology
**(21)** 2021106086 **(22)** 20.08.2021
**(54)** Preparation method of paper mill coagulation solid waste-based catalyst and products and applications thereof

---

**(71)** Harbin Institute of Technology
**(21)** 2021106112 **(22)** 20.08.2021
**(54)** Molecularly Imprinted Photocatalytic Material, Preparation Method Therefor and Application Thereof

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**Harbin Institute of Technology (Shenzhen) see Zhenlin Technology (Xiamen) Co., Ltd**
**(21)** 2021106141

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**(71)** Harrison, F.
**(21)** 2021105967 **(22)** 19.08.2021
**(54)** A Vessel Carrier
**(62)** 2021200837

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**(71)** Hebei Chest Hospital
**(21)** 2021105996 **(22)** 19.08.2021
**(54)** Cardiovascular intervention training device

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**(71)** Hebei GEO University
**(21)** 2021105972 **(22)** 19.08.2021
**(54)** A Horizontal Drainage System for Consolidating Soft Foundation and Its Construction Method

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**(71)** Hebei GEO University
**(21)** 2021105983 **(22)** 19.08.2021
**(54)** A Construction Method for Reinforced-hoop Gravel Piles by Means of Immersed Tubes for Strengthening Soft Foundations

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**(71)** Hebei Ruilong Biotechnology Co. , Ltd.
**(21)** 2021105683 **(22)** 17.08.2021
**(54)** Extraction method of Amygdalus triloba flower extract and its application in tobacco sheet

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**(71)** Hebei University of Technology
**(21)** 2021106180 **(22)** 20.08.2021
**(54)** AUTOMATIC DEMOUNTING DEVICE FOR SOLAR BATTERY PACK

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**Hebei University of Technology see China Railway 18th Bureau Group Co., Ltd.**
**(21)** 2021106192

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**(71)** Hebei Zhucheng Industrial and Mining Machinery Co., Ltd.
**(21)** 2021105730 **(22)** 18.08.2021
**(54)** INTELLIGENT UNDERGROUND GROUTING STATION FOR COAL MINES
**(31)** 202110790598.9 **(32)** 13.07.21 **(33)** CN

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**(71)** Heilongjiang Bayi Agricultural University
**(21)** 2021105758 **(22)** 18.08.2021
**(54)** Biosafety Sterilizer For Pasture And Livestock House

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**(71)** Heilongjiang Bayi Agricultural University; Meisirui (Jilin) Technology Co., Ltd.
**(21)** 2021105899 **(22)** 19.08.2021
**(54)** BLACK BEAN INSTANT NOODLES AND PREPARATION METHOD THEREOF

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**(71)** Henan Provincial People's Hospital
**(21)** 2021106212 **(22)** 20.08.2021
**(54)** Animal Embryo Transfer Device for Improving Survival Rate

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**(71)** Henan University of Science and Technology
**(21)** 2021105761 **(22)** 18.08.2021
**(54)** Use of microRNA markers microRNA-130a and microRNA-130b in diagnosis of Hepatic fibrosis

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**(71)** Henan University of Science and Technology
**(21)** 2021105786 **(22)** 18.08.2021
**(54)** Traditional Chinese Medicine Prescription for Treating Liver Fibrosis

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**(71)** Henan University of Technology
**(21)** 2021106098 **(22)** 20.08.2021
**(54)** Wall-breaking treatment method for cell wall skeleton structure of Chaenomeles fruits

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**(71)** Henan University of Technology
**(21)** 2021106115 **(22)** 20.08.2021
**(54)** Method for Improving Oxidization Stability of Vegetable Oil

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**(71)** Hipwell, J.
**(21)** 2021105942 **(22)** 19.08.2021
**(54)** Mountable Assembly
**(31)** 2020903774 **(32)** 19.10.20 **(33)** AU

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**(71)** Holloway, D.
**(21)** 2021105939 **(22)** 19.08.2021
**(54)** Surfboard
**(62)** 2017383104

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**(71)** hong, t.
**(21)** 2021105772 **(22)** 18.08.2021
**(54)** a new type of slurry buffer box

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**(71)** hong, t.
**(21)** 2021106320 **(22)** 21.08.2021
**(54)** A newly designed Vibrating Hydraulic Ore Discharge Chute

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**(71)** Hong, T.
**(21)** 2021106055 **(22)** 20.08.2021
**(54)** A METHOD FOR PREVENTING BALLS ROLLING OUT FROM AN OVERFLOW TYPE BALL MILL WHEN RESTARTING MILL AFTER CRASH STOP

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**(71)** Hong Bridge Technology Co., Ltd.
**(21)** 2021106159 **(22)** 20.08.2021
**(54)** COMPOSITE SEALING FILM AND BEVERAGE CUP USING THE SAME
**(31)** 109211553 **(32)** 03.09.20 **(33)** TW

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**HOPE (BEIJING) TECHNOLOGY CO., LTD. see Beijing Weather Modification Office**
**(21)** 2021106189

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**Hu, Y. see Zhang, K.**
**(21)** 2021105975

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**(71)** Huaiyin Institute of Agricultural Sciences in Xuhuai area of Jiangsu Province; huaiyin normal university
**(21)** 2021105979 **(22)** 19.08.2021
**(54)** A METHOD FOR GREENHOUSE CULTIVATION OF STROPHARIA RUGOSOANNULATA FARL. EX MURRILL

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## Innovation Patent Applications Filed - Name Index cont'd

**huaiyin normal university see Huaiyin Institute of Agricultural Sciences in Xuhuai area of Jiangsu Province**
**(21)** 2021105979

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**(71)** Huanan Industrial Technology Research Institute of Zhejiang University; Zhejiang University
**(21)** 2021106101 **(22)** 20.08.2021
**(54)** SELF-PROPELLED LOW-ALTITUDE REMOTE SENSING DEVICE BASED ON MULTI-SENSOR IMAGING SPECTRUM

---

**(71)** Huazhong Agricultural University
**(21)** 2021105821 **(22)** 18.08.2021
**(54)** An invention of calcium supplement based on eggshell powder and its preparation methods

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**(71)** Huazhong Agricultural University
**(21)** 2021105913 **(22)** 19.08.2021
**(54)** High-Solubility Multifunctional Recombinant Egg Yolk Powder and Preparation Method Thereof

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**(71)** Huazhong University of Science and Technology; Zhongxin Optical Valley (Wuhan) Construction Investment Co., Ltd.; Pingdingshan Highway Engineering Company
**(21)** 2021105687 **(22)** 17.08.2021
**(54)** A LARGE-SPACE JOINT REINFORCED CEMENT CONCRETE PAVEMENT STRUCTURE AND CONSTRUCTION METHOD THEREOF

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**Huazhong University of Science and Technology see Wuhan Municipal Construction Group Co. LTD**
**(21)** 2021105974

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**(71)** Hunan Agricultural University
**(21)** 2021105970 **(22)** 19.08.2021
**(54)** A Method For Detecting Candidatus Liberibacter Asiaticus By The Nested PCR

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**(71)** iconcordia
**(21)** 2021105842 **(22)** 18.08.2021
**(54)** DigiFaceOn

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**(71)** ICSIP Pty Ltd
**(21)** 2021106011 **(22)** 19.08.2021
**(54)** Recovery of Lithium from Silicate Minerals
**(62)** 2020204263

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**(71)** ILST Innovation Lab Pty Ltd
**(21)** 2021106130 **(22)** 20.08.2021
**(54)** Fish Recognition System

---

**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105764 **(22)** 18.08.2021
**(54)** Triadimenol formulation
**(31)** 2020903703 **(32)** 13.10.20 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105766 **(22)** 18.08.2021
**(54)** Plant growth regulator formulation comprising paclobutrazol
**(31)** 2021900522 **(32)** 25.02.21 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105773 **(22)** 18.08.2021
**(54)** Herbicide formulations comprising flumioxazin
**(31)** 2021900268 **(32)** 05.02.21 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105774 **(22)** 18.08.2021
**(54)** Pesticide formulation comprising hexythiazox
**(31)** 2020904668 **(32)** 15.12.20 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105775 **(22)** 18.08.2021
**(54)** Pesticide formulation comprising etoxazole
**(31)** 2020904523 **(32)** 07.12.20 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105776 **(22)** 18.08.2021
**(54)** Pesticide formulation comprising chlorpyrifos-methyl and deltamethrin
**(31)** 2020904772 **(32)** 21.12.20 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105778 **(22)** 18.08.2021
**(54)** Pesticide formulations comprising bifenazate
**(31)** 2021900289 **(32)** 08.02.21 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021105797 **(22)** 18.08.2021
**(54)** Pesticide formulation comprising pyriproxyfen
**(31)** 2021900128 **(32)** 21.01.21 **(33)** AU

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**(71)** Imtrade Australia Pty Ltd
**(21)** 2021106121 **(22)** 20.08.2021
**(54)** Plant growth regulator formulation comprising uniconazole-p

---

**(71)** Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences
**(21)** 2021106211 **(22)** 20.08.2021
**(54)** FOOT TAG FOR SHEEP

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**Inner Mongolia Agricultural University see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

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**(71)** Inner Mongolia Yili Jidong Cement Co., Ltd.
**(21)** 2021105649 **(22)** 17.08.2021
**(54)** ANTI-STRENGTH RETROGRESSION OIL-WELL CEMENT AND PREPARATION METHOD THEREOF
**(31)** 202010947438.6 **(32)** 10.09.20 **(33)** CN

---

**(71)** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Ningxia University; Shandong Jianzhu University
**(21)** 2021105767 **(22)** 18.08.2021
**(54)** Risk Assessment Method of Winter Wheat Summer Maize Disaster

---

**(71)** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Ningxia University; Shandong Jianzhu University
**(21)** 2021105771 **(22)** 18.08.2021
**(54)** A Simultaneous Inversion Method of Soil Moisture and Surface Temperature Based on Model-Data Driven and Deep Learning

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**(71)** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Northeast Normal University; Ningxia University; Shandong Jianzhu University
**(21)** 2021105817 **(22)** 18.08.2021
**(54)** Method for Reconstructing global Surface Temperature

---

**(71)** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Northeast Normal University; Ningxia University; Shandong Jianzhu University
**(21)** 2021105982 **(22)** 19.08.2021
**(54)** Soil moisture inversion method based on deep learning

---

**(71)** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Ningxia University; Shandong Jianzhu University
**(21)** 2021106083 **(22)** 20.08.2021
**(54)** Method for retrieving atmospheric water vapor content based on deep learning and remote sensing data

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**Institute of Agricultural Sciences, Yili Kazak Autonomous Prefecture see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

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## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Institute of Biotechnology and Food Science, Hebei Academy of Agriculture and Forestry Sciences
**(21)** 2021106026 **(22)** 19.08.2021
**(54)** Detection method for simultaneous determination of multiple pesticide ingredients by liquid chromatography

---

**(71)** Institute of cash crops, Xinjiang Academy of Agricultural Sciences; Institute of crop variety resources, Xinjiang Academy of Agricultural Sciences; Inner Mongolia Agricultural University; Institute of Agricultural Sciences, Yili Kazak Autonomous Prefecture; Qitai wheat experimental station of Xinjiang Academy of Agricultural Sciences; Xinjiang Uygur Autonomous Region Agricultural Technology Extension Station; International Science and technology cooperation and exchange office of Xinjiang Academy of Agricultural Sciences; Xinjiang Uygur Autonomous Region bee industry technical guidance Station; Hainan seed breeding base of Xinjiang Uygur Autonomous Region
**(21)** 2021105924 **(22)** 19.08.2021
**(54)** Method for managing organic sugar beet farming system

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**Institute of Computing Technology, China Academy of Railway Sciences Corporation Limited see Meteorological Observation Centre of China Meteorological Administration**
**(21)** 2021106128

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**Institute of crop variety resources, Xinjiang Academy of Agricultural Sciences see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

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**(71)** Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences
**(21)** 2021105882 **(22)** 19.08.2021
**(54)** EQUIPMENT FOR GRADING AND SCREENING PLANT-BASED FOOD MATERIAL

---

**(71)** Institute of Geology and Geophysics, Chinese Academy of Sciences
**(21)** 2021105744 **(22)** 18.08.2021
**(54)** INSTRUMENT AND METHOD FOR MEASURING H AND He ISOTOPES OF IONOSPHERE

---

**(71)** Institute of Geology and Geophysics, Chinese Academy of Sciences
**(21)** 2021105888 **(22)** 19.08.2021
**(54)** AUTOMATIC SAMPLE REPLACING DEVICE FOR GAS EXTRACTION FROM SOLID SAMPLES

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**(71)** Institute of Geology and Geophysics, Chinese Academy of Sciences
**(21)** 2021106105 **(22)** 20.08.2021
**(54)** GAS SUPPLY REGULATING DEVICE, AND HE GAS ISOTOPE ANALYSIS SYSTEM AND METHOD

---

**(71)** Institute of Geology and Geophysics, Chinese Academy of Sciences
**(21)** 2021106169 **(22)** 20.08.2021
**(54)** DEVICE FOR SEPARATING KRYPTON FROM XENON IN ROCK SAMPLE

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**(71)** Institute of High Energy Physics, CAS; Shanghai Herry Technology Co., Ltd.
**(21)** 2021106111 **(22)** 20.08.2021
**(54)** Mechanical Auxiliary Flexible Polishing Device

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**(71)** Interbid Pty Ltd
**(21)** 2021105837 **(22)** 18.08.2021
**(54)** Electronic auction system and process
**(62)** 2020326728

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**International Science and technology cooperation and exchange office of Xinjiang Academy of Agricultural Sciences see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

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**J, D.S. see B, R.**
**(21)** 2021105809

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**Jacobs, G. see McLellan, J.**
**(21)** 2021105690

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**(71)** janicska, s.
**(21)** 2021106082 **(22)** 20.08.2021
**(54)** My Tiny Mites

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**Jiangmen Borui Machinery Equipment Co., Ltd see Wuyi University**
**(21)** 2021105651

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**(71)** Jiangsu Huachuang Microsystem Co., Ltd.; The 14th Research Institute of China Electronic Technology Group Corporation
**(21)** 2021106084 **(22)** 20.08.2021
**(54)** FAULT TOLERANCE DESIGN PROCESS FOR UPDATE AND ROLLBACK OF EMBEDDED PROCESSOR BOOT PROGRAM

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**Jiangsu Huaxin New Material Co.,Ltd. see Xuzhou College of Industrial Technology**
**(21)** 2021106090

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**(71)** Jiangxi Agricultural University
**(21)** 2021106185 **(22)** 20.08.2021
**(54)** PLEUROTUS GIGANTEUS CULTIVATION SUBSTRATE AND METHOD FOR PREPARING SAME
**(31)** 2021109043286 **(32)** 06.08.21 **(33)** CN

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**(71)** Jiangxi Agricultural University
**(21)** 2021106191 **(22)** 20.08.2021
**(54)** SUBSTRATE FOR CULTIVATING PLEUROTUS OSTREATUS AND METHOD FOR MAKING SAME
**(31)** 2021109043290 **(32)** 06.08.21 **(33)** CN

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**(71)** Jiangxi Agricultural University
**(21)** 2021106196 **(22)** 20.08.2021
**(54)** SUBSTRATE WITH RICE HUSK AND COTTON SEED HUSK FOR PLEUROTUS GEESTERANUS CULTIVATION AND METHOD FOR PREPARING SAME
**(31)** 2021109043214 **(32)** 06.08.21 **(33)** CN

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**Jinlin Agricultural University see Qingdao Agricultural University**
**(21)** 2021105916

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**(71)** Johnson, D.; Galbraith, K.
**(21)** 2021105648 **(22)** 17.08.2021
**(54)** A BRACKET FOR A CLOTHESLINE ASSEMBLY AND A CLOTHESLINE ASSEMBLY
**(31)** 2020904399 **(32)** 27.11.20 **(33)** AU
2021902487 11.08.21 AU

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**(71)** Johnson, A.
**(21)** 2021105753 **(22)** 18.08.2021
**(54)** A SYSTEM AND METHOD FOR RETURNING LOST PERSONAL ITEMS TO THEIR OWNERS
**(31)** 2021900957 **(32)** 31.03.21 **(33)** AU

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**Kakouni Care Products Australia PTY.LTD see Al-Kakouni, Z.**
**(21)** 2021106386

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**(71)** Kaplan, D.
**(21)** 2021105807 **(22)** 18.08.2021
**(54)** FITTED BEDCOVER
**(31)** 2020903309 **(32)** 16.09.20 **(33)** AU

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**(71)** Kaplan, D.
**(21)** 2021105818 **(22)** 18.08.2021
**(54)** BEDDING OR SEATING ELEMENT FASTENING SYSTEM
**(31)** 2020903731 **(32)** 14.10.20 **(33)** AU

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**(71)** Kaplan, D.
**(21)** 2021105822 **(22)** 18.08.2021
**(54)** FITTED SHEET OR MATTRESS PROTECTOR
**(31)** 2020904734 **(32)** 18.12.20 **(33)** AU

## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Keshi Technologies Pty Ltd
**(21)** 2021106096 **(22)** 20.08.2021
**(54)** Hermetically sealed flow-through reactor for non-oxidative thermal degradation of a rubber containing waste
**(62)** 2017371716

**(71)** Keshi Technologies Pty Ltd
**(21)** 2021106104 **(22)** 20.08.2021
**(54)** Process for the thermal degradation of rubber containing waste
**(62)** 2017371717

**(71)** King, D.
**(21)** 2021106290 **(22)** 21.08.2021
**(54)** An interactive voice recognising shopper assistance user interface system
**(31)** 2021900799 **(32)** 18.03.21 **(33)** AU

**Kumar, V. see Anupma**
**(21)** 2021105185

**Kumar, D. see Anupma**
**(21)** 2021105185

**Kumar, R. see Anupma**
**(21)** 2021105185

**Kunming University of Science and Technology see China University of Mining and Technology -Beijing**
**(21)** 2021105644

**Kunming University of Science and Technology see China University of Mining and Technology -Beijing**
**(21)** 2021105647

**(71)** Kunming University of Science and Technology
**(21)** 2021105707 **(22)** 17.08.2021
**(54)** Method to stabilize transportable mercury in soil

**(71)** Kunming University of Science and Technology
**(21)** 2021105708 **(22)** 17.08.2021
**(54)** Method of preparing carbon-based cathode material of sodium-ion battery with oat

**(71)** Kunming University of Science and Technology
**(21)** 2021105816 **(22)** 18.08.2021
**(54)** A Reclaiming Method For Cathode Materials Of Retired Lithium-Ion Batteries

**(71)** Kunming University of Science and Technology; Yunnan Shanshui Environmental Protection Engineering Co., Ltd.
**(21)** 2021106021 **(22)** 19.08.2021
**(54)** Novel process of combined desulfurization and resource utilization of red mud and lime
**(31)** 202110902188.9 **(32)** 06.08.21 **(33)** CN

**(71)** Kunming University of Science and Technology; Yunnan Shanshui Environmental Protection Engineering Co., Ltd.
**(21)** 2021106114 **(22)** 20.08.2021
**(54)** METHOD AND DEVICE FOR DESULFURIZATION AND DENITRIFICATION OF FLUE GAS BY COMBINING OZONE GENERATED BY YELLOW PHOSPHOROUS EXCITATION WITH MINERAL SLURRY

**(71)** Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
**(21)** 2021105751 **(22)** 18.08.2021
**(54)** Visualized Rapid Detection Kit for Type A Foot-and-Mouth Disease Virus and Preparation Method Thereof

**(71)** Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
**(21)** 2021105787 **(22)** 18.08.2021
**(54)** Visual Rapid Detection Kit for Swine Fever Virus Antibody and Application Thereof

**(71)** Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
**(21)** 2021105824 **(22)** 18.08.2021
**(54)** Visual Rapid Detection Kit for O-type Foot-and-Mouth Disease Virus and Preparation Method Thereof

**(71)** Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
**(21)** 2021106008 **(22)** 19.08.2021
**(54)** Kit for Detecting Antibody Against Foot-and-mouth Disease Virus 2C

**(71)** Larche, M.
**(21)** 2021105796 **(22)** 18.08.2021
**(54)** Waxing strips that are shaped to contour eyebrows to facilitate eyebrow waxing

**(71)** Law on Earth IP Pty Ltd
**(21)** 2021105765 **(22)** 18.08.2021
**(54)** COMPUTER PLATFORM AND METHOD FOR SECURELY EXCHANGING CONFIDENTIAL DATA AND GENERATING LEGAL DOCUMENTS, WITH PRO BONO MODULE

**(71)** Lee, A.J.
**(21)** 2021105948 **(22)** 19.08.2021
**(54)** A plumbing fitting and method

**(71)** Lee, W.
**(21)** 2021105973 **(22)** 19.08.2021
**(54)** Wall cladding assembly
**(62)** 2020103114

**(71)** Lee, W.
**(21)** 2021105976 **(22)** 19.08.2021
**(54)** Wall cladding assembly
**(62)** 2020103114

**LIANG, X. see TIAN, B.**
**(21)** 2021106032

**Liaoning Technical University see China Railway 18th Bureau Group Co., Ltd.**
**(21)** 2021106192

**(71)** Liaoning University of Traditional Chinese Medicine
**(21)** 2021105806 **(22)** 18.08.2021
**(54)** Compound traditional Chinese medicine for preventing and treating atrial fibrillation

**(71)** Lin, S.
**(21)** 2021105947 **(22)** 19.08.2021
**(54)** Method of Personal Trajectory Proof Based on Blockchain and Zero-Knowledge Proof

**(71)** Lin, S.
**(21)** 2021105951 **(22)** 19.08.2021
**(54)** Method and System for Adjusting Indoor Environment Comfort Based on Deep Learning

**(71)** Lin, S.
**(21)** 2021105953 **(22)** 19.08.2021
**(54)** Method for fine-grained domain terminology self-learning based on contextual semantics

**(71)** Lin, S.
**(21)** 2021105964 **(22)** 19.08.2021
**(54)** Self-adaptive Energy-saving Control Method and System for Smart Street Lamps Based on Deep Reinforcement Learning

**(71)** Liu, H.; Sinosteel (Nanjing) Eco-Environmental Technology Research Institute Co., Ltd.
**(21)** 2021105689 **(22)** 17.08.2021
**(54)** METHOD OF DETECTING MULTI-COMPONENT MICROCYSTINS US-

## Innovation Patent Applications Filed - Name Index cont'd

ING ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY/TRIPLE QUADRUPOLE TANDEM MASS SPECTROMETRY

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**(71)** Liu, H.
**(21)** 2021106102 **(22)** 20.08.2021
**(54)** MOUSETRAP
**(31)** 202022259313.2 **(32)** 13.10.20 **(33)** CN

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**(71)** LK Management Pty Ltd
**(21)** 2021105675 **(22)** 17.08.2021
**(54)** Treatment of by-products of plant industry
**(31)** 2021902543 **(32)** 16.08.21 **(33)** AU

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**(71)** Logix Engineering Pty Ltd
**(21)** 2021106092 **(22)** 20.08.2021
**(54)** AN ELECTRICAL POWER DISTRIBUTION TERMINAL ASSEMBLY

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**(71)** Ludong University Dongying Base for High Quality Development of Modern Agriculture and Integration of Industry and Education
**(21)** 2021105841 **(22)** 18.08.2021
**(54)** A saline-alkali soil desaltant and its preparation method and use method thereof

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**LUO, Y. see TIAN, B.**
**(21)** 2021106025

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**LUO, Y. see TIAN, B.**
**(21)** 2021106043

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**LUO, Y. see TIAN, B.**
**(21)** 2021106182

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**(71)** M, K.; M.L.M., P.; ANKISETTY, G.K.; P, M.; VEERASAMY, M.; P V, R.M.; T, S.R.; S, R.C.; CH, G.P.; TAMINANA, S.; RAO, K.P.
**(21)** 2021105808 **(22)** 18.08.2021
**(54)** MACHINE LEARNING TECHNIQUE TO ANALYSE THE CONDITION OF COVID-19 PATIENTS BASED ON THEIR SATURATION LEVELS

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**M, R.P. see B, R.**
**(21)** 2021105809

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**M.L.M., P. see M, K.**
**(21)** 2021105808

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**(71)** Macdonald, J.
**(21)** 2021105881 **(22)** 19.08.2021
**(54)** Process for generating marine clouds and ocean microbubbles

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**(71)** Machinemonitor Pty Limited
**(21)** 2021105795 **(22)** 18.08.2021
**(54)** Partial Discharge Monitoring System

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**(71)** Malone, M.
**(21)** 2021105661 **(22)** 17.08.2021
**(54)** Trailer Load, Dynamics, Operation, Function Management and Monitoring System.

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**(71)** Martin, R.
**(21)** 2021106294 **(22)** 21.08.2021
**(54)** A digital video virtual concierge user interface system
**(31)** 2021901228 **(32)** 26.04.21 **(33)** AU

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**(71)** McGlinn, M.; Pollard, T.
**(21)** 2021105681 **(22)** 17.08.2021
**(54)** Brass catcher

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**(71)** McKay Drilling Pty Ltd
**(21)** 2021106136 **(22)** 20.08.2021
**(54)** Systems and Methods for Gas Compression
**(31)** 2021900012 **(32)** 05.01.21 **(33)** AU

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**McLellan, S. see McLellan, J.**
**(21)** 2021105690

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**(71)** McLellan, J.; McLellan, S.; Thomas, E.; Jacobs, G.
**(21)** 2021105690 **(22)** 17.08.2021
**(54)** A SOLE AND METHOD OF DETERMINING ATTRIBUTES THEREOF

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**(71)** Mechanical System Dynamics Pty Ltd
**(21)** 2021106220 **(22)** 20.08.2021
**(54)** Compensator for fifth-wheel couplings
**(31)** PCT/AU2021/050145 **(32)** 19.02.21 **(33)** WO

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**(71)** Medsecure Group Pty Ltd
**(21)** 2021105931 **(22)** 19.08.2021
**(54)** Drop box system
**(31)** 2021901252 **(32)** 28.04.21 **(33)** AU

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**Meisirui (Jilin) Technology Co., Ltd. see Heilongjiang Bayi Agricultural University**
**(21)** 2021105899

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**(71)** Meteorological Observation Centre of China Meteorological Administration; Institute of Computing Technology, China Academy of Railway Sciences Corporation Limited; China State Railway Group Co., Ltd.
**(21)** 2021106128 **(22)** 20.08.2021
**(54)** METHOD FOR ARRANGING STRONG WIND MONITORING POINTS ALONG A HIGH-SPEED RAILWAY

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**(71)** MICRO-TECH (NANJING) CO., LTD.
**(21)** 2021105991 **(22)** 19.08.2021
**(54)** CLAMP DEVICE FOR HEMOSTASIS OR CLOSURE OF TISSUE AND MEDICAL INSTRUMENT FOR HEMOSTASIS OR CLOSURE OF TISSUE
**(62)** 2020258423

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**(71)** Miller, C.L.
**(21)** 2021105701 **(22)** 17.08.2021
**(54)** Dinghy
**(31)** 2021901324 **(32)** 04.05.21 **(33)** AU

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**(71)** MIND MEDICINE AUSTRALIA LIMITED
**(21)** 2021106190 **(22)** 20.08.2021
**(54)** IMPROVED METHOD OF SYNTHESIS OF 1-(3',4'-METHYLENE DIOXYPHENYL)-2-(METHYLAMINO) PROPANE (MDMA)

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**(71)** Miners, A.
**(21)** 2021105680 **(22)** 17.08.2021
**(54)** A pinch valve assembly
**(31)** 2021901225 **(32)** 26.04.21 **(33)** AU

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**Moir, A. see Syzdek, K.**
**(21)** 2021106286

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**(71)** Moore, G.; Rainbow, P.
**(21)** 2021105682 **(22)** 17.08.2021
**(54)** A participant registration and course timing system
**(31)** 2020904482 **(32)** 04.12.20 **(33)** AU

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**(71)** Nanchang Hangkong University
**(21)** 2021105679 **(22)** 17.08.2021
**(54)** Modification Method of Silica Polymer Coating

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**(71)** Nanchang Tangyouan Health Technology Co. , Ltd.
**(21)** 2021106291 **(22)** 21.08.2021
**(54)** Vegetable and fruit extract formula for preventing and treating type II diabetes and preparation method thereof

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**(71)** Nanjing First Hospital
**(21)** 2021105883 **(22)** 19.08.2021
**(54)** One-Stop Multi-Mode Magnetic Resonance Method for Detecting Acute Stroke

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**(71)** Nanjing Luchengyuan Energy-saving and Environmental Protection Techno-

## Innovation Patent Applications Filed - Name Index cont'd

logy Co., Ltd.; Shenzhen Research Institute Of Nankai University
**(21)** 2021106283 **(22)** 21.08.2021
**(54)** INFRARED RADIATION TEMPERATURE MEASUREMENT METHOD AND SYSTEM FOR MATERIAL BED SURFACE OF SINTERING TROLLEY

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**(71)** Nanjing Luchengyuan Energy-saving and Environmental Protection Technology Co., Ltd.; Shenzhen Research Institute Of Nankai University
**(21)** 2021106284 **(22)** 21.08.2021
**(54)** NEAR-INFRARED TEMPERATURE MEASUREMENT METHOD AND SYSTEM FOR TAIL OF SINTERING TROLLEY

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**(71)** Nanjing University
**(21)** 2021105963 **(22)** 19.08.2021
**(54)** Optical switch array based on chiral liquid crystals, preparation method thereof and method for beam steering

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**(71)** Nanjing University of Aeronautics and Astronautics
**(21)** 2021105641 **(22)** 17.08.2021
**(54)** FLY ASH-DOPED GLASS FIBER CORE MATERIAL AND PREPARATION METHOD THEREOF

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**Nanjing Weize technology information co., LTD see Suzhou Nanjing Normal University science park investment management co., LTD**
**(21)** 2021105940

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**(71)** Nankai University
**(21)** 2021105782 **(22)** 18.08.2021
**(54)** Application of TNFSF15 protein in preparing medicine for treating tumor

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**Nanning Expressway Construction & Development Co.,Ltd. see Guangxi University**
**(21)** 2021105672

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**Nasseh, M. see Poinern, G.**
**(21)** 2021105998

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**(71)** NAVAL AVIATION UNIVERSITY
**(21)** 2021105650 **(22)** 17.08.2021
**(54)** ON-LINE INTELLIGENT CLASSIFICATION METHOD OF AERIAL ENTITY TARGETS BASED ON MICRO-MOTION CHARACTERISTICS

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**(71)** Ningbo Zhongxin Electronic Technology Co., Ltd.
**(21)** 2021106007 **(22)** 19.08.2021
**(54)** POWER SUPPLY STATION AND CHARGING AND DISCHARGING METHOD THEREOF
**(31)** 202011635042.4 **(32)** 31.12.20 **(33)** CN

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**Ningxia University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105767

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**Ningxia University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105771

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**Ningxia University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105817

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**Ningxia University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105982

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**Ningxia University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021106083

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**(71)** No.3 Engineering Company of China Railway No.8 Engineering Group Co., Ltd.; China Railway No.8 Engineering Group Co., Ltd.
**(21)** 2021105980 **(22)** 19.08.2021
**(54)** CONSTRUCTION METHOD FOR IMPERVIOUS CONCRETE FOR MBBR WATER TREATMENT PROCESS STRUCTURE
**(31)** 202011422822.0 **(32)** 08.12.20 **(33)** CN

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**North China Electric Power University (Bao Ding) see STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE**
**(21)** 2021105760

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**North China Electric Power University Bao Ding see STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE**
**(21)** 2021105759

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**Northeast Normal University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105817

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**Northeast Normal University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105982

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**Northwest Branch of State Grid Corporation of China see Xi'an Jiaotong University**
**(21)** 2021105798

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**Northwest Branch of State Grid Corporation of China see Xi'an Jiaotong University**
**(21)** 2021106194

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**NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA see Xi'an Jiaotong University**
**(21)** 2021105749

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**NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA see Xi'an Jiaotong University**
**(21)** 2021105802

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**NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA see Xi'an Jiaotong University**
**(21)** 2021105819

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**NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA see Xi'an Jiaotong University**
**(21)** 2021105943

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**NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA see Xi'an Jiaotong University**
**(21)** 2021106252

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**(71)** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
**(21)** 2021105918 **(22)** 19.08.2021
**(54)** Urine collection device for male livestock

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**(71)** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
**(21)** 2021105919 **(22)** 19.08.2021
**(54)** Urine collection device for female livestock

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**(71)** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
**(21)** 2021105988 **(22)** 19.08.2021
**(54)** Multifunctional Monitoring Quadrat Frame for Community in Alpine Grassland

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**(71)** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
**(21)** 2021106004 **(22)** 19.08.2021
**(54)** Device and Method for Monitoring Ecosystem Respiration of Special Plant in Alpine Grassland

## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Northwest University
**(21)** 2021105830 **(22)** 18.08.2021
**(54)** DEVICE AND METHOD FOR PREPARING CHEMICALS BY FRACTIONS IN COAL TAR

**Ocean University of China see China University of Petroleum (East China)**
**(21)** 2021105665

**(71)** Ocean University of China
**(21)** 2021105801 **(22)** 18.08.2021
**(54)** Training device of kicking practice for swimming

**(71)** Ocean University of China
**(21)** 2021105812 **(22)** 18.08.2021
**(54)** High jump training equipment

**(71)** Opuz Pty Limited
**(21)** 2021105691 **(22)** 17.08.2021
**(54)** Wearable ring for measuring biometrics

**P, M. see M, K.**
**(21)** 2021105808

**(71)** Panjin Institute of Industrial Technology,DUT
**(21)** 2021105799 **(22)** 18.08.2021
**(54)** Multifunctional Wind Cleaning Vehicle

**(71)** Panjin Institute of Industrial Technology,DUT
**(21)** 2021105825 **(22)** 18.08.2021
**(54)** Detecting Device Of Universal Follower Collar

**(71)** Panjin Institute of Industrial Technology,DUT
**(21)** 2021105920 **(22)** 19.08.2021
**(54)** A Bulk Polycondensation Imidazole Polymer Mixed Matrix Membrane Used For Gas Separation And Its Preparation Method

**(71)** Panjin Institute of Industrial Technology,DUT
**(21)** 2021105923 **(22)** 19.08.2021
**(54)** A Preparation Method Of Hollow Porous Sulfated Zirconium Dioxide Solid Super Acid Nanofibers

**Payal see Anupma**
**(21)** 2021105185

**Pingdingshan Highway Engineering Company see Huazhong University of Science and Technology**
**(21)** 2021105687

**(71)** Poinern, G.; Wulandari, T.; Nasseh, M.; Fawcett, D.; Burt, M.
**(21)** 2021105998 **(22)** 19.08.2021
**(54)** IMPROVED REVERSE MICELLAR GREEN SYNTHESIS OF pH SENSITIVE CALCIUM CARBONATE MICRO/NANO PARTICLES

**Pollard, T. see McGlinn, M.**
**(21)** 2021105681

**P V, R.M. see M, K.**
**(21)** 2021105808

**(71)** Qilu University of Technology; Shandong Aojing Biotechnology Co., Ltd.
**(21)** 2021105909 **(22)** 19.08.2021
**(54)** A Natural Compound Sweetener and Its Preparation Method

**(71)** Qingdao Agricultural University
**(21)** 2021105788 **(22)** 18.08.2021
**(54)** A Hand-held Special Syringe for Epidemic Prevention of Sheep Flock

**(71)** Qingdao Agricultural University
**(21)** 2021105905 **(22)** 19.08.2021
**(54)** A Pharmaceutical Composition for Treating Diarrhea Of Piglet And Its Preparation Method

**(71)** Qingdao Agricultural University
**(21)** 2021105907 **(22)** 19.08.2021
**(54)** Auxiliary Device For Collecting Pig Blood

**(71)** Qingdao Agricultural University; Jinlin Agricultural University
**(21)** 2021105916 **(22)** 19.08.2021
**(54)** A Traditional Chinese Medicine Composition For Treating Aeromonas Hydrophila Disease Of Ducks

**(71)** Qingdao Agricultural University
**(21)** 2021106203 **(22)** 20.08.2021
**(54)** METHOD FOR COLLECTING XYLEM BLEEDING SAP
**(31)** 2021108915920 **(32)** 04.08.21 **(33)** CN

**(71)** Qingdao University of Science & Technology
**(21)** 2021105990 **(22)** 19.08.2021
**(54)** An Online Measuring Device For Crystal Size And Shapein The Crystallization Process Of High Solid Content

**(71)** Qingdao University of Science & Technology
**(21)** 2021105992 **(22)** 19.08.2021
**(54)** A Multi-gradient Continuous Crystallization Method Applicable for the Reactive Crystallization Process

**(71)** Qingdao University of Science and Technology
**(21)** 2021105829 **(22)** 18.08.2021
**(54)** Graphene based aerogel with asymmetric wettability and preparation method and application thereof

**(71)** Qingdao University of Science and Technology
**(21)** 2021105917 **(22)** 19.08.2021
**(54)** Ornidazole medicine eutectic and preparation method thereof

**(71)** Qingdao University of Science and Technology
**(21)** 2021105922 **(22)** 19.08.2021
**(54)** ZSM-5 molecular sieve/titanium dioxide composite material and preparation method thereof

**(71)** Qingdao University of Science and Technology
**(21)** 2021106002 **(22)** 19.08.2021
**(54)** Extraction and preparation of the acidic polysaccharide extracted from Kaempfeia galangal L and its application in antibacterial preservation

**(71)** Qinghai Fourth geological Exploration Institute
**(21)** 2021105676 **(22)** 17.08.2021
**(54)** Near-source electromagnetic seismoelectric combined GR inversion method

**(71)** Qinghai Third Geological Survey Institute
**(21)** 2021105965 **(22)** 19.08.2021
**(54)** METHOD FOR THREE-DIMENSIONAL DIVISION OF METALLOGENIC UNITS

**Qitai wheat experimental station of Xinjiang Academy of Agricultural Sciences see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

**(71)** Rafferty, T.
**(21)** 2021106150 **(22)** 20.08.2021
**(54)** Dressing Aid Device

**Rainbow, P. see Moore, G.**
**(21)** 2021105682

**RAO, K.P. see M, K.**

## Innovation Patent Applications Filed - Name Index cont'd

**(21)** 2021105808

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**Research Institute of Exploration & Development, SINOPEC Shengli Oilfield Company see School of Geosciences and Technology, China University of Petroleum (East China)**
**(21)** 2021105835

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**(71)** REX Energy Pty Ltd
**(21)** 2021105891 **(22)** 19.08.2021
**(54)** Energy Provision System and Method
**(31)** 2021901433 **(32)** 13.05.21 **(33)** AU

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**(71)** Richard, M.
**(21)** 2021106167 **(22)** 20.08.2021
**(54)** A FLOOR CUSHION

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**(71)** Riskallah, S.
**(21)** 2021106461 **(22)** 19.08.2021
**(54)** Short horizontal cantilever rail combination with stationary pivot and moving pivot

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**(71)** Rite-Hite Holding Corporation
**(21)** 2021106117 **(22)** 20.08.2021
**(54)** Externally Tensioned Pliable Air Ducts
**(62)** 2019205979

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**Road&Bridge South China Engineering Co., LTD see Guangxi University**
**(21)** 2021105668

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**(71)** Robinson, S.
**(21)** 2021105640 **(22)** 17.08.2021
**(54)** Wheelchair Commode

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**(71)** Rural Energy & Environmental Protection Institute of Heilongjiang Academy of Agricultural Sciences
**(21)** 2021106122 **(22)** 20.08.2021
**(54)** METHOD FOR PREPARING BIOGAS FROM PRETREATED PIG FARM WASTEWATER AND PLANT STRAWS THROUGH COMBINED ANAEROBIC FERMENTATION
**(31)** 202110741836.7 **(32)** 01.07.21 **(33)** CN

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**(71)** Ruthenberg, K.
**(21)** 2021106285 **(22)** 21.08.2021
**(54)** An infant bathing shirt

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**S, R.C. see M, K.**
**(21)** 2021105808

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**S, P. see B, R.**
**(21)** 2021105809

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**S, M. see B, R.**
**(21)** 2021105809

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**S, K. see B, R.**
**(21)** 2021105809

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**(71)** Sayfa R&D Pty Ltd
**(21)** 2021106306 **(22)** 21.08.2021
**(54)** A Height Safety Trolley and Modular Rigid Rail System
**(31)** 2021902342 **(32)** 29.07.21 **(33)** AU

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**(71)** Sayfa R&D Pty Ltd
**(21)** 2021106322 **(22)** 21.08.2021
**(54)** A fall protection safety rail system
**(31)** 2021902519 **(32)** 13.08.21 **(33)** AU

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**(71)** Sayfa R&D Pty Ltd
**(21)** 2021106324 **(22)** 21.08.2021
**(54)** A fall arrest and rope access roof mount anchor
**(31)** 2021902563 **(32)** 17.08.21 **(33)** AU

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**(71)** Sayfa R&D Pty Ltd
**(21)** 2021106327 **(22)** 21.08.2021
**(54)** An Extendable Needle Davit Assembly
**(31)** 2021902622 **(32)** 20.08.21 **(33)** AU

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**(71)** School of Chemical Engineering, Northeast Electric Power University
**(21)** 2021105937 **(22)** 19.08.2021
**(54)** Preparation Method of PB capped Au-Fe3O4 Nanomaterial and its Application of water sterilization

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**(71)** School of Chemical Engineering, Northeast Electric Power University
**(21)** 2021106028 **(22)** 19.08.2021
**(54)** Preparation Method of Metal Microfiltration Membrane and Its Application

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**School of Civil Engineering and Architecture, Wuhan University of Technology see Wuhan Municipal Construction Group Co. LTD**
**(21)** 2021105974

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**(71)** School of Geosciences and Technology, China University of Petroleum (East China); Research Institute of Exploration & Development, SINOPEC Shengli Oilfield Company
**(21)** 2021105835 **(22)** 18.08.2021
**(54)** Classification method of low permeability-tight sandstone reservoir based on double lower limits

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**(71)** Screedex Pty Ltd
**(21)** 2021106467 **(22)** 23.08.2021
**(54)** SCREED DEVICE AND SYSTEM

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**(71)** Seed & Sprout Co Pty Ltd
**(21)** 2021105962 **(22)** 19.08.2021
**(54)** A REUSABLE CLEANING DEVICE

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**(71)** Sepehr, B.
**(21)** 2021106419 **(22)** 22.08.2021
**(54)** A registered competitive live playing of traditional game mafia or werewolf originally created Dimitry Davidoff in 1986.

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**(71)** Shaanxi Normal University
**(21)** 2021105645 **(22)** 17.08.2021
**(54)** USE OF CORNEL IRIDOID GLYCOSIDE IN RESISTING DIABETES MELLITUS

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**(71)** Shaanxi Normal University
**(21)** 2021105646 **(22)** 17.08.2021
**(54)** EXTRACTION PROCESS FOR OPTIMIZING α-GLUCOSIDASE INHIBITOR IN CORNI FRUCTUS NANO-POWDER BY RESPONSE SURFACE METHODOLOGY

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**(71)** Shaanxi University of Science & Technology
**(21)** 2021105977 **(22)** 19.08.2021
**(54)** A 3D Printing Device For Bionic Bone Scaffolds Made of Porous Continuous Carbon Fibers Reinforced Ceramics

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**(71)** Shaanxi Yuanguang High-Tech Co., Ltd.
**(21)** 2021105908 **(22)** 19.08.2021
**(54)** Bios medium with medical and health care effects

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**(71)** Shaanxi Yuanguang High-Tech Co., Ltd.
**(21)** 2021105910 **(22)** 19.08.2021
**(54)** Bio-light element material and preparation process thereof

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**(71)** Shandong Agricultural University
**(21)** 2021105762 **(22)** 18.08.2021
**(54)** METHOD FOR IMPROVING COLD RESISTANCE OF CHRYSANTHEMUM MORIFOLIUM RMAT. BY MELATONIN

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**Shandong Aojing Biotechnology Co., Ltd. see Qilu University of Technology**
**(21)** 2021105909

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**(71)** Shandong Dyne Marine Biopharmaceutical Co., Ltd
**(21)** 2021105895 **(22)** 19.08.2021
**(54)** Lycoline B-aryl acrylate derivatives, preparation method and application thereof
**(31)** 2021108196532 **(32)** 20.07.21 **(33)** CN

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## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Shandong Dyne Marine Biopharmaceutical Co., Ltd
**(21)** 2021106179 **(22)** 20.08.2021
**(54)** NEW CRYSTALLINE FORM OF EPALRESTAT AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

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**(71)** Shandong Dyne Marine Biopharmaceutical Co., Ltd
**(21)** 2021106183 **(22)** 20.08.2021
**(54)** VITAMIN D3 COMPLEX AND PREPARATION METHOD AND APPLICATION THEREOF

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**Shandong Jianzhu University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105767

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**Shandong Jianzhu University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105771

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**Shandong Jianzhu University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105817

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**Shandong Jianzhu University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021105982

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**Shandong Jianzhu University see Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences**
**(21)** 2021106083

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**(71)** Shandong Kongshengtang Pharmaceutical Co., Ltd.
**(21)** 2021106279 **(22)** 21.08.2021
**(54)** METHOD FOR ESTABLISHING HPLC-ELSD FINGERPRINTS OF SHENLING-BAIZHU PILLS AND STANDARD FINGERPRINTS THEREOF

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**(71)** Shandong Peanut Research Institute; Yantai Academy of Agricultural Sciences, Shandong; Agricultural Technology Extension Center of Muping District, Yantai; Taibaozhuang Sub-district Office, Xiashan Ecological Economic Development Zone, Weifang
**(21)** 2021105906 **(22)** 19.08.2021
**(54)** YIELD-INCREASE CULTIVATION MEDIUM OF CONTINUOUS-CROPPING PEANUTS AND YIELD-INCREASE CULTIVATION METHOD THEREOF

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**Shanghai Baoye Group Co., Ltd see Tongji University**
**(21)** 2021106119

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**Shanghai Herry Technology Co., Ltd. see Institute of High Energy Physics, CAS**
**(21)** 2021106111

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**(71)** Shanghai Jiao Tong University
**(21)** 2021106087 **(22)** 20.08.2021
**(54)** Tokenized REITs Blockchain Asset Management System

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**SHANGHAI OCEAN UNIVERSITY see ZHEJIANG INSTITUTE OF FRESHWATER FISHERIES**
**(21)** 2021105949

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**(71)** Shanghai Yilianjiaoxin Medical Technolgy Ltd
**(21)** 2021105695 **(22)** 17.08.2021
**(54)** Multi-effect Cosmetic Composition Containing Suberosin and Preparation Method thereof

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**(71)** Shanxi Datong University
**(21)** 2021105793 **(22)** 18.08.2021
**(54)** Wireless Monitoring System of Coal and Coal Gangue Mixing Ratio Based on Mon-Hermite Technology

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**(71)** Shanxi FengYuan Machinery Manufacturing Co.,Ltd.
**(21)** 2021105678 **(22)** 17.08.2021
**(54)** A TYPE OF PNEUMATIC THREE-POINT CENTERING DEVICE

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**Shanxi Forestry Vocational Technical College see STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE**
**(21)** 2021105759

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**Shanxi Forestry Vocational Technical College see STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE**
**(21)** 2021105760

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**Sharma, V. see Anupma**
**(21)** 2021105185

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**(71)** Shenzhen Institute of Geriatrics; Wu, Z.
**(21)** 2021106230 **(22)** 20.08.2021
**(54)** Medicinal diet composition for preventing and treating hyperuricemia and gout and preparation method thereof

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**(71)** Shenzhen Institute of Geriatrics; Wu, Z.
**(21)** 2021106244 **(22)** 20.08.2021
**(54)** Medicinal diet composition for type 2 diabetes and preparation method thereof

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**(71)** Shenzhen Institute of Geriatrics; Wu, Z.
**(21)** 2021106255 **(22)** 20.08.2021
**(54)** Medicinal diet composition for hypertension and preparation method thereof

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**(71)** Shenzhen Institute of Geriatrics; Wu, Z.
**(21)** 2021106260 **(22)** 20.08.2021
**(54)** A Traditional Chinese Medicine Composition With Preparation Method And Application Thereof

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**(71)** Shenzhen Institutes of Advanced Technology
**(21)** 2021106173 **(22)** 20.08.2021
**(54)** SPATIAL-TEMPORAL-CHARACTERISTICS-BASED PARKING GUIDANCE METHOD AND APPARATUS, DEVICE AND STORAGE MEDIUM
**(62)** PCT/CN2019/086054

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**(71)** Shenzhen Institutes Of Advanced Technology Chinese Academy Of Sciences
**(21)** 2021106171 **(22)** 20.08.2021
**(54)** SPACIAL-TEMPORAL FEATURE-BASED CITY PARKING LOT RANKING METHOD AND DEVICE, TERMINAL AND MEDIUM
**(62)** PCT/CN2019/087081

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**Shenzhen Research Institute Of Nankai University see Nanjing Luchengyuan Energy-saving and Environmental Protection Technology Co., Ltd.**
**(21)** 2021106283

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**Shenzhen Research Institute Of Nankai University see Nanjing Luchengyuan Energy-saving and Environmental Protection Technology Co., Ltd.**
**(21)** 2021106284

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**Shenzhen Technology University see Changsha University of Science & Technology**
**(21)** 2021106177

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**Shenzhen Technology University see Zhejiang University**
**(21)** 2021106200

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**(71)** Shenzhen Technology University; Zhejiang University; Changsha University of Science & Technology
**(21)** 2021106209 **(22)** 20.08.2021

## Innovation Patent Applications Filed - Name Index cont'd

**(54)** Photovoltaic power generation three-layer screening power theft identification method based on feature mining

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**Shenzhen Urban Transport Planning & Design Institute see Civil Aviation University of China**
**(21)** 2021105752

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**(71)** ShenZhen Vido Technology Co.,Ltd
**(21)** 2021105886 **(22)** 19.08.2021
**(54)** A Smart Social E-cigarette
**(31)** 202110818616.X **(32)** 20.07.21 **(33)** CN

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**(71)** Shihezi University; Xinjiang tianshan reclamation animal husbandry co., LTD
**(21)** 2021105933 **(22)** 19.08.2021
**(54)** A Composite Microecological Preparation For Preventing Calf Diarrhea

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**Sichuan Institute of Building Research see Tongji University**
**(21)** 2021106123

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**(71)** Sichuan Normal University; Chengdu Aokerui Technology Co., Ltd
**(21)** 2021106133 **(22)** 20.08.2021
**(54)** A Video Management System Based on Media Convergence

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**(71)** Simmons, G.
**(21)** 2021106287 **(22)** 21.08.2021
**(54)** Cardboard packaging
**(31)** 2020904355 **(32)** 25.11.20 **(33)** AU

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**Sinosteel (Nanjing) Eco-Environmental Technology Research Institute Co., Ltd. see Liu, H.**
**(21)** 2021105689

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**(71)** Sleeping Duck Pty Ltd
**(21)** 2021106152 **(22)** 20.08.2021
**(54)** MODULAR BED BASE
**(31)** 2021901076 **(32)** 13.04.21 **(33)** AU
2021901791 15.06.21 AU

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**(71)** Sleeping Duck Pty Ltd
**(21)** 2021106156 **(22)** 20.08.2021
**(54)** MODULAR BED BASE
**(31)** 2021901076 **(32)** 13.04.21 **(33)** AU
2021901791 15.06.21 AU

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**(71)** Smith, R.
**(21)** 2021105662 **(22)** 17.08.2021
**(54)** Screen protector

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**(71)** Smith, C.
**(21)** 2021106288 **(22)** 21.08.2021
**(54)** A reconfigurable bit assembly
**(31)** 2021901269 **(32)** 30.04.21 **(33)** AU

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**SONG, W. see TIAN, B.**
**(21)** 2021106025

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**SONG, W. see TIAN, B.**
**(21)** 2021106043

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**SONG, W. see TIAN, B.**
**(21)** 2021106182

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**(71)** Soniclean Pty Ltd
**(21)** 2021106033 **(22)** 19.08.2021
**(54)** A REUSABLE TEST DEVICE FOR AN ULTRASONIC CLEANER
**(31)** 2021900365 **(32)** 15.02.21 **(33)** AU

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**(71)** South China Sea Fisheries Research Institute, Chinese Academy of Fishery Science
**(21)** 2021105748 **(22)** 18.08.2021
**(54)** Development of antibiotic-free feed based on microbial engineering and its application in aquaculture of Spinibarbus hollandi

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**(71)** South China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences; Guangdong Hongke Agricultural Machinery R&D Co., Ltd.
**(21)** 2021106135 **(22)** 20.08.2021
**(54)** Preservation method of Lateolabrax Maculates with Ozone Ice

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**(71)** South Subtropical Crop Research Institute, China Academy of Tropical Agricultural Sciences; Agricultural Products Processing Research Institute, China Academy of Tropical Agricultural Sciences
**(21)** 2021105663 **(22)** 17.08.2021
**(54)** Preparation Method of a Low-protein Natural Latex

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**State Grid Shaanxi Electric Power Company Limited see Xi'an Jiaotong University**
**(21)** 2021106256

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**(71)** STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE; North China Electric Power University Bao Ding; Shanxi Forestry Vocational Technical College; Xi'an Jiaotong University
**(21)** 2021105759 **(22)** 18.08.2021
**(54)** PMSM Parameter Adaptive Speed Regulation Method for Mechanical Elastic Energy Storage System

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**(71)** STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE; North China Electric Power University (Bao Ding); Shanxi Forestry Vocational Technical College; Xi'an Jiaotong University
**(21)** 2021105760 **(22)** 18.08.2021
**(54)** Novel Method for Position Tracking Control in Energy Storage Process of Mechanical Elastic Energy Storage System

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**(71)** Statewide Mining Supplies Pty Ltd
**(21)** 2021105703 **(22)** 17.08.2021
**(54)** Mobile liquid blending system

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**Stevens, T. see Stevens, J.**
**(21)** 2021105928

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**(71)** Stevens, J.; Stevens, T.
**(21)** 2021105928 **(22)** 19.08.2021
**(54)** A fence post
**(31)** 2021901462 **(32)** 17.05.21 **(33)** AU

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**SU, Y. see TIAN, B.**
**(21)** 2021106025

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**SU, Y. see TIAN, B.**
**(21)** 2021106043

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**SU, Y. see TIAN, B.**
**(21)** 2021106182

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**(71)** SUPER FOODS NEW ZEALAND LIMITED
**(21)** 2021105686 **(22)** 17.08.2021
**(54)** A calcium hard capsule and preparation method thereof

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**(71)** Suzhou Hongjiu Aviation Thermal Materials Technology Co., Ltd
**(21)** 2021105914 **(22)** 19.08.2021
**(54)** Continuous electrophoretic deposition modified carbon fiber reinforced multi-matrix composite and preparation method thereof
**(62)** PCT/CN2021070430

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**(71)** Suzhou Nanjing Normal University science park investment management co., LTD; Nanjing Weize technology information co., LTD
**(21)** 2021105940 **(22)** 19.08.2021
**(54)** An Automatic Sorting And Transferring System Of Products Based On Machine Vision

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**(71)** Swiss Timing Ltd
**(21)** 2021106142 **(22)** 20.08.2021
**(54)** MEASURING SYSTEM FOR HORSE RACE OR TRAINING
**(62)** 2019201707

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## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Syrinx Environmental Pty Ltd
**(21)** 2021106120 **(22)** 20.08.2021
**(54)** Removeable Cage
**(31)** 2021901543 **(32)** 24.05.21 **(33)** AU

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**(71)** Syzdek, K.; Moir, A.
**(21)** 2021106286 **(22)** 21.08.2021
**(54)** Vehicle seat reclining and moving arrangement
**(31)** 2020904274 **(32)** 19.11.20 **(33)** AU

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**T, S.R. see M, K.**
**(21)** 2021105808

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**T.C, M. see B, R.**
**(21)** 2021105809

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**Taibaozhuang Sub-district Office, Xiashan Ecological Economic Development Zone, Weifang see Shandong Peanut Research Institute**
**(21)** 2021105906

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**(71)** Taishan University
**(21)** 2021105769 **(22)** 18.08.2021
**(54)** SIDE-TIPPING TYPE STEREOSCOPIC GARAGE

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**(71)** Taishan University
**(21)** 2021105781 **(22)** 18.08.2021
**(54)** POT LID WITH ADDIBLE STEAMER DRAWERS

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**TAMINANA, S. see M, K.**
**(21)** 2021105808

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**(71)** Taranis Power Group Pty Ltd
**(21)** 2021106214 **(22)** 20.08.2021
**(54)** Variable speed multifunction power generator

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**(71)** Tarim University
**(21)** 2021106091 **(22)** 20.08.2021
**(54)** QUICK RECONSTRUCTION METHOD OF CURVED SURFACE OF OBJECT
**(31)** 202110302868.7 **(32)** 22.03.21 **(33)** CN

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**(71)** Tate & Lyle Ingredients Americas LLC
**(21)** 2021106166 **(22)** 20.08.2021
**(54)** METHOD FOR PRODUCING ALLULOSE CRYSTALS
**(62)** 2017348344

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**(71)** Technology Center of Nanning Customs
**(21)** 2021105885 **(22)** 19.08.2021
**(54)** METHOD FOR MEASURING MIGRATION VOLUMES OF ADDITIVES IN FOOD CONTACT MATERIAL

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**(71)** Techtronic Cordless GP
**(21)** 2021106170 **(22)** 20.08.2021
**(54)** Lighting mosquito killer lamp
**(31)** 202022112309.3 **(32)** 23.09.20 **(33)** CN

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**(71)** TERMWAY(BEIJING) PRECISION TECHNOLOGY CO., LTD.
**(21)** 2021105893 **(22)** 19.08.2021
**(54)** Regional Image Acquisition-based Scattered Components and Parts Mounting Method

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**(71)** Thankcome Biological Science and Technology (Suzhou) Co., Ltd.
**(21)** 2021105934 **(22)** 19.08.2021
**(54)** Application of Lactobacillus Acidophilus LA-10A in Prevention and Treatment of Helicobacter Pylori Infection

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**(71)** Thankcome Biological Science and Technology (Su Zhou) Co.,LTD.
**(21)** 2021106100 **(22)** 20.08.2021
**(54)** Application of Lactobacillus Crispatus in Preventing and Treating Bacterial Vaginitis

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**(71)** Thankcome Biological Science and Technology (Su Zhou) Co.,LTD.
**(21)** 2021106148 **(22)** 20.08.2021
**(54)** Application of Lactobacillus salivarius in Protecting Oral Health

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**(71)** Thankcome Biological Science and Technology (Su Zhou) Co.,LTD.
**(21)** 2021106289 **(22)** 21.08.2021
**(54)** Application of Bacillus coagulans BC01 in modulating Microbiota and Treating allergy

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**The 14th Research Institute of China Electronic Technology Group Corporation see Jiangsu Huachuang Microsystem Co., Ltd.**
**(21)** 2021106084

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**(71)** The Affiliated Hospital of Youjiang Medical University for Nationalities
**(21)** 2021105746 **(22)** 18.08.2021
**(54)** Disposable debridement bag suitable for debridement vehicle

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**(71)** THE GOOD VITAMIN CO LIMITED
**(21)** 2021106206 **(22)** 20.08.2021
**(54)** High methoxyl pectin nutritional gummy base and preparation method thereof

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**(71)** THE GOOD VITAMIN CO LIMITED
**(21)** 2021106207 **(22)** 20.08.2021
**(54)** A Sugar-Free Pectin Nutritional Gummy Base and Preparation Method Thereof

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**(71)** The People's Reserve Pty Ltd
**(21)** 2021105792 **(22)** 18.08.2021
**(54)** Innovative method for creating a new independent digital monetary ecosystem using blockchain technology.

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**(71)** Thermaguard Pty Ltd
**(21)** 2021106140 **(22)** 20.08.2021
**(54)** System and method for securing radiant heat shields
**(31)** 2021902014 **(32)** 02.07.21 **(33)** AU

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**(71)** The Second Affiliated Hospital of University of South China
**(21)** 2021106089 **(22)** 20.08.2021
**(54)** Application of lycopene cis isomer in preparing drugs for treating ovarian cancer

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**The South Branch Of China Construction Eighth Engineering Division Corp.,Ltd. see Guangxi University**
**(21)** 2021105672

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**The South Branch Of China Construction Eighth Engineering Division Corp.,Ltd. see Guangxi University**
**(21)** 2021105677

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**(71)** THE TECH2 GROUP PTY LTD
**(21)** 2021105966 **(22)** 19.08.2021
**(54)** POWER SENSOR
**(31)** 2020904116 **(32)** 10.11.20 **(33)** AU

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**(71)** The Thirsty Nomad Pty Ltd
**(21)** 2021106161 **(22)** 20.08.2021
**(54)** 5 in 1 Water Purifier

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**(71)** Third Zeton IP Pty Ltd
**(21)** 2021106193 **(22)** 20.08.2021
**(54)** Gas burner system for a bitumen tank
**(31)** 2020904833 **(32)** 23.12.20 **(33)** AU

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**Thomas, E. see McLellan, J.**
**(21)** 2021105690

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**(71)** TIAN, B.; CHA, H.; GE, J.; ZENG, G.; BO, W.; SONG, W.; LUO, Y.; SU, Y.; XING, Y.
**(21)** 2021106025 **(22)** 19.08.2021
**(54)** COMPREHENSIVE VERIFICATION SYSTEM FOR MODIFIED ATMOSPHERIC REFRACTIVITY SITUATION DISTRIBUTION

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**(71)** TIAN, B.; CHA, H.; CUI, M.; BO, W.; DENG, D.
**(21)** 2021106031 **(22)** 19.08.2021
**(54)** SEA SURFACE TEMPERATURE MEASUREMENT METHOD

## Innovation Patent Applications Filed - Name Index cont'd

**(71)** TIAN, B.; LIANG, X.; CHA, H.; BO, W.; DENG, D.
**(21)** 2021106032 **(22)** 19.08.2021
**(54)** METHOD FOR CONSTRUCTING METEOROLOGICAL ELEMENT UNIVERSAL FUNCTION

**(71)** TIAN, B.; CHA, H.; BO, W.; DENG, D.; TU, R.; ZHANG, Y.
**(21)** 2021106036 **(22)** 19.08.2021
**(54)** DISTRIBUTED SIMULATION COMPUTING DEVICE FOR MULTI-SOURCE AIS SIGNAL FORWARD PROPAGATION MODEL CALCULATION UNDER ATMOSPHERIC DUCT CONDITION

**(71)** TIAN, B.; CHA, H.; GE, J.; ZENG, G.; BO, W.; SONG, W.; LUO, Y.; SU, Y.; XING, Y.
**(21)** 2021106043 **(22)** 19.08.2021
**(54)** METEOROLOGICAL DATA MEASUREMENT SYSTEM FOR LOW-ALTITUDE ELECTROMAGNETIC WAVE PROPAGATION ENVIRONMENT ASSESSMENT

**(71)** TIAN, B.; CHA, H.; GE, J.; ZENG, G.; BO, W.; SONG, W.; LUO, Y.; SU, Y.; XING, Y.
**(21)** 2021106182 **(22)** 20.08.2021
**(54)** SHORE-BASED MARINE NEAR-SURFACE ATMOSPHERIC TRAPPING REFRACTION EVALUATION SYSTEM

**(71)** TIAN, B.; CHA, H.; CUI, M.; BO, W.; DENG, D.
**(21)** 2021106197 **(22)** 20.08.2021
**(54)** SHIPBORNE PLATFORM WIND SPEED MEASUREMENT CORRECTION METHOD

**(71)** Tianjin Customs Animal, Plant and food Testing Center; Beijing Haiguang Instrument Co., LTD
**(21)** 2021105743 **(22)** 18.08.2021
**(54)** PREPARATION METHOD OF CHELATE RESINS MODIFIED WITH MULTIFUNCTIONAL GROUPS

**(71)** Tianjin University
**(21)** 2021105930 **(22)** 19.08.2021
**(54)** A Preparation Method for Self-supporting Heteroatom Doping Sludge Carbon Electrode Material

**(71)** Tongji University; Shanghai Baoye Group Co., Ltd; Chengdu University of Technology
**(21)** 2021106119 **(22)** 20.08.2021
**(54)** Model testing device and method for unsaturated soil slope instability considering liquid-gas coupling effect

**(71)** Tongji University; Chengdu University of Technology; Sichuan Institute of Building Research
**(21)** 2021106123 **(22)** 20.08.2021
**(54)** Method for Calculating the Ultimate Expansion Shear Force of Expansive Soil Pile Foundation Based on Finite Element Simulation

**(71)** TONGLING HUACHUANG NEW MATERIAL CO.,LTD
**(21)** 2021105985 **(22)** 19.08.2021
**(54)** Additive adding method for preventing edge tearing of 4.5μm copper foil

**(71)** TRANQUILITY GROUP PTY LTD
**(21)** 2021105900 **(22)** 19.08.2021
**(54)** SYSTEM FOR PACKAGING OF BEVERAGES

**TU, R. see TIAN, B.**
**(21)** 2021106036

**(71)** Tui Innovations Limited
**(21)** 2021105999 **(22)** 19.08.2021
**(54)** LATCHING APPARATUS

**(71)** TWOBESEEN Pty Ltd
**(21)** 2021106215 **(22)** 20.08.2021
**(54)** Photobiomodulation apparatus and method
**(31)** 2021902200 **(32)** 16.07.21 **(33)** AU

**(71)** Tyrrells Administration Pty Ltd
**(21)** 2021105794 **(22)** 18.08.2021
**(54)** System and Method for Design and Construction
**(31)** 2020903771 **(32)** 16.10.20 **(33)** AU

**(71)** U&Me Transformative Listening Pty. Ltd.
**(21)** 2021105768 **(22)** 18.08.2021
**(54)** A System and Method of Fully Expressed Listening, the Access to Extraordinary Results

**(71)** University of Science and Technology Beijing
**(21)** 2021106088 **(22)** 20.08.2021
**(54)** Preparation Method and Application of Low-Cost Clinker-free Cementitious backfill Materials

**(71)** University of South China
**(21)** 2021105884 **(22)** 19.08.2021
**(54)** VISIBLE LIGHT RESPONSIVE NANO-POLYHEDRAL FERRIC VANADATE THIN FILM PHOTOELECTRODE AND PREPARATION METHOD AND USE THEREOF
**(31)** 202110589661.2 **(32)** 28.05.21 **(33)** CN

**(71)** University of South China
**(21)** 2021105901 **(22)** 19.08.2021
**(54)** DEVICE FOR SYNCHRONOUSLY TREATING EUTROPHIC WATER BODY AND SESTONS IN WATER BODY

**(71)** UON Pty Ltd
**(21)** 2021106103 **(22)** 20.08.2021
**(54)** Powering of submersible pumps by via renewable energy sources
**(31)** 2021900855 **(32)** 23.03.21 **(33)** AU

**(71)** UON Pty Ltd
**(21)** 2021106106 **(22)** 20.08.2021
**(54)** Powering of submersible pumps via renewable energy sources
**(31)** 2021900855 **(32)** 23.03.21 **(33)** AU

**(71)** van Ginkel, A.
**(21)** 2021106332 **(22)** 21.08.2021
**(54)** Novel Innovative Beverage Ice

**(71)** Van Raay, J.
**(21)** 2021105791 **(22)** 18.08.2021
**(54)** Steerable dog trailer caravan

**VEERASAMY, M. see M, K.**
**(21)** 2021105808

**(71)** Violeta Bec
**(21)** 2021105692 **(22)** 17.08.2021
**(54)** Violeta Bec's: 4th Law of Motion [Changes in Geometric Points In Space & Quantum Induced Forces & Relative to Outer Space-From Earth] This Laws has been derived as an extension of the basis of Issac Newton's current - Newtown's 3 X Laws of Motion being: 1 - Law of Inertia 2 - F = ma 3 - Paired Forces 4 - Geometric Space & Quantum Induced Concepts [Law 4 results from sustainability breeches to the Earth being effectively able to spin on its Axis, emanating from my Hypothesis for Observations and Opinions (Ref. to My Documentation for these Observations & Opinions Details).

**(71)** Violeta Bec
**(21)** 2021106435 **(22)** 22.08.2021
**(54)** BLUEPRINT: For The Violeta Bec Integrated Concept Marketing Promotional & Campaign Packaged Subscription Program. Incorporating The Innovative Step: Of Powering Marketing Program With Use of #AI Data & Matrix Funneled-World Class Methodic Tech-

## Innovation Patent Applications Filed - Name Index cont'd

niques. Inc. The Innovative Step Of: Use of Shareholdings & Managed Portfolios - For Scaling Our Client's Funds Via Sustainable Ventures. Incorporating The Innovative Step Of: Social Giving % of Revenue From Specific Marketing Revenue, To Registered & Licensed Australian Charities, For A Positive Impact To Our Dis-advantaged Communities In Australia.

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**(71)** Walton Mine Services Pty Ltd
**(21)** 2021106094 **(22)** 20.08.2021
**(54)** Spacer Device
**(62)** 2021218042

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**(71)** WANIGARATNE, B.
**(21)** 2021105833 **(22)** 18.08.2021
**(54)** Storage System
**(31)** 2021902043 **(32)** 05.07.21 **(33)** AU

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**(71)** Wenzhou-Kean University
**(21)** 2021105757 **(22)** 18.08.2021
**(54)** A Bioactive Peptide And Its Synthesis Method

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**(71)** Woodhouse Timber Company
**(21)** 2021105684 **(22)** 17.08.2021
**(54)** Method of forming a treated timber laminate

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**(71)** Work Air Technologies Pty Ltd
**(21)** 2021105903 **(22)** 19.08.2021
**(54)** Air Conditioning and Filtration System
**(62)** 2020390437

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**Wu, Z. see Shenzhen Institute of Geriatrics**
**(21)** 2021106230

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**Wu, Z. see Shenzhen Institute of Geriatrics**
**(21)** 2021106244

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**Wu, Z. see Shenzhen Institute of Geriatrics**
**(21)** 2021106255

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**Wu, Z. see Shenzhen Institute of Geriatrics**
**(21)** 2021106260

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**Wuhan Huazhong University of Science and Technology Testing Technology Co., Ltd see Wuhan Municipal Construction Group Co. LTD**
**(21)** 2021105974

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**Wuhan-Jiujiang Railway Passenger Dedicated Line Hubei Co., Ltd. see China Railway 18th Bureau Group Co., Ltd.**
**(21)** 2021105800

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**(71)** Wuhan Municipal Construction Group Co. LTD; China Railway High-tech Industry Co., LTD; China Railway Tunnel Co. LTD; Huazhong University of Science and Technology; Wuhan Huazhong University of Science and Technology Testing Technology Co., Ltd; School of Civil Engineering and Architecture, Wuhan University of Technology
**(21)** 2021105974 **(22)** 19.08.2021
**(54)** Design Method for Optimizing Engineering Construction Based on Data-driven and Intelligent Algorithm

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**(71)** Wuhan Research Institute of Material Protection
**(21)** 2021105912 **(22)** 19.08.2021
**(54)** Solid lubricating film for stamping, forming aluminum alloy plate and preparation method thereof

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105828 **(22)** 18.08.2021
**(54)** Method for determining antioxidant content in lubricating oil by using linear sweep voltammetry

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105887 **(22)** 19.08.2021
**(54)** High-strength, high-conductivity and wear-resistant aluminum-based composite material and preparation method thereof

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105894 **(22)** 19.08.2021
**(54)** Antifriction and antiwear composite material for marine operation kinematic pair and preparation method thereof

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105897 **(22)** 19.08.2021
**(54)** Anti-wear composite material of tetraphenyltin modified ultrahigh molecular weight polyethylene and preparation method thereof

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105911 **(22)** 19.08.2021
**(54)** Temperature measuring device and measuring method during friction of friction pair materials

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105915 **(22)** 19.08.2021
**(54)** Graphene reinforced aluminum matrix composite material with high conductivity and preparation method thereof

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021105993 **(22)** 19.08.2021
**(54)** Double-layer solid film pre-coated on surface of stamping and forming plate and preparation method thereof

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**(71)** Wuhan Research Institute Of Materials Protection
**(21)** 2021106003 **(22)** 19.08.2021
**(54)** Rotary bending fatigue test fixture and test method thereof

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**Wuhan Textile University see Yimao Environmental Technology Co., Ltd**
**(21)** 2021105995

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**Wulandari, T. see Poinern, G.**
**(21)** 2021105998

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**(71)** Wuyi University; Jiangmen Borui Machinery Equipment Co., Ltd
**(21)** 2021105651 **(22)** 17.08.2021
**(54)** A Paring Tool for Cinnamon Tree

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**(71)** Xero Limited
**(21)** 2021106041 **(22)** 19.08.2021
**(54)** Methods and systems for obtaining and storing web pages
**(31)** 2021901343 **(32)** 05.05.21 **(33)** AU

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**(71)** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**(21)** 2021105749 **(22)** 18.08.2021
**(54)** Method for designing and modeling integrated energy system for realizing carbon cycle

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**(71)** Xi'an Jiaotong University; Northwest Branch of State Grid Corporation of China
**(21)** 2021105798 **(22)** 18.08.2021
**(54)** Water-electricity Comprehensive Load Response Method Considering Cascade Hydropower

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**(71)** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**(21)** 2021105802 **(22)** 18.08.2021
**(54)** A linear envelope technique considering a maximum energy storage model of cascade hydropower

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## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**(21)** 2021105819 **(22)** 18.08.2021
**(54)** Method for Solving the Approximate Convex Hull of Hydro-thermal Unit Commitment with Pumped Storage Units

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**(71)** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**(21)** 2021105943 **(22)** 19.08.2021
**(54)** Optimal dispatching method of multi-basin cascade hydropower stations considering inter-basin water transfer

---

**(71)** Xi'an Jiaotong University; Northwest Branch of State Grid Corporation of China
**(21)** 2021106194 **(22)** 20.08.2021
**(54)** Method for Solving Node Marginal Electricity Price Considering Nonlinear Network Loss and Relaxation of Second-order Cone Programming

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**(71)** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**(21)** 2021106252 **(22)** 20.08.2021
**(54)** Solving Method for the Optimal Decision of Multi-Market Subjects in Dynamic Game Based on Quota System and Green Certificate Trading Policy

---

**(71)** Xi'an Jiaotong University; State Grid Shaanxi Electric Power Company Limited
**(21)** 2021106256 **(22)** 20.08.2021
**(54)** A multi-variable V-Q sensitivity method for voltage stability analysis based on Multi-Dimensional Holomorphic Embedding Method

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**(71)** Xi'an Jinshan Yinshan Technology Co., Ltd.
**(21)** 2021105925 **(22)** 19.08.2021
**(54)** Multifunctional mechanical mixing oxygenator

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**(71)** Xi'an Shiyou University; China National Petroleum Corporation Safety and Environmental Technology Research Institute Co., Ltd.
**(21)** 2021106079 **(22)** 20.08.2021
**(54)** OIL AND GAS FIELD PRODUCED WATER SCALING AMOUNT MEASUREMENT AND SCALE TYPE PREDICTION ANALYSIS DEVICE

---

**(71)** Xi'an University of Science and Technology
**(21)** 2021105898 **(22)** 19.08.2021
**(54)** MULTIDIRECTIONAL VIBRATION ENERGY HARVESTING SYSTEM
**(31)** 202010835825.0 **(32)** 19.08.20 **(33)** CN

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**(71)** Xiangya Hospital Central South University
**(21)** 2021106208 **(22)** 20.08.2021
**(54)** Method For Labeling Proteins by Immunogold For Cryoelectron Microscope

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**XING, Y. see TIAN, B.**
**(21)** 2021106025

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**XING, Y. see TIAN, B.**
**(21)** 2021106043

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**XING, Y. see TIAN, B.**
**(21)** 2021106182

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**Xinjiang tianshan reclamation animal husbandry co., LTD see Shihezi University**
**(21)** 2021105933

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**Xinjiang Uygur Autonomous Region Agricultural Technology Extension Station see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

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**Xinjiang Uygur Autonomous Region bee industry technical guidance Station see Institute of cash crops, Xinjiang Academy of Agricultural Sciences**
**(21)** 2021105924

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**Xi'an Jiaotong University see STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE**
**(21)** 2021105759

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**Xi'an Jiaotong University see STATE GRID SHANXI ECONOMIC RESEARCH INSTITUTE**
**(21)** 2021105760

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**(71)** Xuzhou College of Industrial Technology; Jiangsu Huaxin New Material Co.,Ltd.
**(21)** 2021106090 **(22)** 20.08.2021
**(54)** Rubber Concrete Material

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**Yantai Academy of Agricultural Sciences, Shandong see Shandong Peanut Research Institute**
**(21)** 2021105906

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**Yantai Jereh Petroleum Equipment & Technologies Co., Ltd, Shandong, China see China University of Petroleum (East China)**
**(21)** 2021105665

---

**(71)** Yimao Environmental Technology Co., Ltd; Wuhan Textile University
**(21)** 2021105995 **(22)** 19.08.2021
**(54)** Centrifugal spinning device and plane receiving-type automatic centrifugal spinning production apparatus
**(62)** 2019446857

---

**(71)** Yulin University
**(21)** 2021105657 **(22)** 17.08.2021
**(54)** BIOCHAR-BASED PROBIOTIC PREPARATION AND PREPARATION METHOD THEREOF
**(31)** 202110526736.2 **(32)** 14.05.21 **(33)** CN

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**Yunnan Shanshui Environmental Protection Engineering Co., Ltd. see Kunming University of Science and Technology**
**(21)** 2021106021

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**Yunnan Shanshui Environmental Protection Engineering Co., Ltd. see Kunming University of Science and Technology**
**(21)** 2021106114

---

**(71)** Zaozhuang University
**(21)** 2021105671 **(22)** 17.08.2021
**(54)** DETECTION METHOD FOR FULL-INGREDIENT CHINESE HERBAL MEDICINE GRANULE OF SEMEN PHARBITIDIS BASED ON TERAHERTZ SPECTROSCOPY

---

**(71)** Zelira Therapeutics Operations Pty Ltd
**(21)** 2021106137 **(22)** 20.08.2021
**(54)** Composition and method for treating chronic pain
**(62)** 2021215262

---

**ZENG, G. see TIAN, B.**
**(21)** 2021106025

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**ZENG, G. see TIAN, B.**
**(21)** 2021106043

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**ZENG, G. see TIAN, B.**
**(21)** 2021106182

---

**(71)** Zhang, Z.
**(21)** 2021105785 **(22)** 18.08.2021
**(54)** Lightning Protection System for Assembled Stadiums

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**Zhang, J. see Zhang, K.**
**(21)** 2021105975

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## Innovation Patent Applications Filed - Name Index cont'd

**(71)** Zhang, K.; Zhang, J.; Hu, Y.
**(21)** 2021105975 **(22)** 19.08.2021
**(54)** Roller and press apparatus including the same

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**ZHANG, Y. see TIAN, B.**
**(21)** 2021106036

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**Zhangye Academy of Agricultural Sciences see Zhangye yucheng Bio-Pharmaceutical co.,Ltd**
**(21)** 2021105978

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**Zhangye Academy of Agricultural Sciences see Zhangye yucheng Bio-Pharmaceutical co.,Ltd**
**(21)** 2021105981

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**Zhangye Academy of Forestry Sciences see Zhangye yucheng Bio-Pharmaceutical co.,Ltd**
**(21)** 2021105981

---

**(71)** Zhangye yucheng Bio-Pharmaceutical co.,Ltd; Zhangye Academy of Agricultural Sciences
**(21)** 2021105978 **(22)** 19.08.2021
**(54)** WATER-SAVING CORN CULTIVATION METHOD USING UNDER-FILM DRIP IRRIGATION

---

**(71)** Zhangye yucheng Bio-Pharmaceutical co.,Ltd; Zhangye Academy of Agricultural Sciences; Zhangye Academy of Forestry Sciences
**(21)** 2021105981 **(22)** 19.08.2021
**(54)** BORAGE PLANTING METHOD FOR INCREASING SETTING PERCENTAGE

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**(71)** Zhejiang Gongshang University
**(21)** 2021105664 **(22)** 17.08.2021
**(54)** A Blockchain-based Fair Data Trading Method and Its System

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**(71)** Zhejiang Gongshang University
**(21)** 2021105670 **(22)** 17.08.2021
**(54)** A Blockchain-Based Method For Domain Name Auction By Means Of Sealed-Bid

---

**(71)** Zhejiang Gongshang University
**(21)** 2021105688 **(22)** 17.08.2021
**(54)** A Blockchain-based Domain Name Resolution Service System and its Method

---

**(71)** Zhejiang Gongshang University
**(21)** 2021105763 **(22)** 18.08.2021
**(54)** An Anonymous Multi-hop Locking Method Supporting Two Rounds of Communications

---

**(71)** ZHEJIANG INSTITUTE OF FRESHWATER FISHERIES; SHANGHAI OCEAN UNIVERSITY
**(21)** 2021105949 **(22)** 19.08.2021
**(54)** Application of Tannic Acid in Killing and Preventing Ectoparasites of Aquatic Animals

---

**Zhejiang University see Huanan Industrial Technology Research Institute of Zhejiang University**
**(21)** 2021106101

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**Zhejiang University see Changsha University of Science & Technology**
**(21)** 2021106177

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**(71)** Zhejiang University; Changsha University of Science & Technology; Shenzhen Technology University
**(21)** 2021106200 **(22)** 20.08.2021
**(54)** Wind power probability prediction method based on quantile regression

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**Zhejiang University see Shenzhen Technology University**
**(21)** 2021106209

---

**(71)** Zhenlin Technology (Xiamen) Co., Ltd; Harbin Institute of Technology (Shenzhen)
**(21)** 2021106141 **(22)** 20.08.2021
**(54)** Intelligent Modular Apartment

---

**Zhongxin Optical Valley (Wuhan) Construction Investment Co., Ltd. see Huazhong University of Science and Technology**
**(21)** 2021105687

---

**(71)** Zhu, F.
**(21)** 2021105741 **(22)** 18.08.2021
**(54)** TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD THEREOF

---

**(71)** ZHUHAI HERMESIN ENTERPRISES CO.,LTD
**(21)** 2021106116 **(22)** 20.08.2021
**(54)** Novel Aromatic, Deodorant or Insect-resistant Container

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**(71)** Zhuzhou Ruideer Metallurgy Equipments Co.
**(21)** 2021106099 **(22)** 20.08.2021
**(54)** HIGH-TEMPERATURE AIR PRESSURE SINTERING FURNACE
**(31)** 20212160065.8 **(32)** 16.07.21 **(33)** CN

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**(71)** Zikos, E.
**(21)** 2021105946 **(22)** 19.08.2021
**(54)** Exercise Apparatus Mounting System

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**(71)** ZYCHEM TECHNOLOGIES PTY LTD
**(21)** 2021106176 **(22)** 20.08.2021
**(54)** Test Kit to determine when to add a chlorite based swimming pool sanitiser

**Numerical Index**

## Innovation Patent Applications Filed - Numerical Index cont'd

**2021105769** Taishan University
**2021105770** Changchun University of Science and Technology
**2021105771** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Ningxia University; Shandong Jianzhu University
**2021105772** hong, t.
**2021105773** Imtrade Australia Pty Ltd
**2021105774** Imtrade Australia Pty Ltd
**2021105775** Imtrade Australia Pty Ltd
**2021105776** Imtrade Australia Pty Ltd
**2021105777** Fuzhou University
**2021105778** Imtrade Australia Pty Ltd
**2021105779** Fuzhou University
**2021105780** Best Masonry Bricks & Pavers Pty Ltd
**2021105781** Taishan University
**2021105782** Nankai University
**2021105783** Harbin Institute of Technology
**2021105785** Zhang, Z.
**2021105786** Henan University of Science and Technology
**2021105787** Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
**2021105788** Qingdao Agricultural University
**2021105791** Van Raay, J.
**2021105792** The People's Reserve Pty Ltd
**2021105793** Shanxi Datong University
**2021105794** Tyrrells Administration Pty Ltd
**2021105795** Machinemonitor Pty Limited
**2021105796** Larche, M.
**2021105797** Imtrade Australia Pty Ltd
**2021105798** Xi'an Jiaotong University; Northwest Branch of State Grid Corporation of China
**2021105799** Panjin Institute of Industrial Technology,DUT
**2021105800** China Railway 18th Bureau Group Co., Ltd.; Wuhan-Jiujiang Railway Passenger Dedicated Line Hubei Co., Ltd.
**2021105801** Ocean University of China
**2021105802** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**2021105803** Digital Pulse Systems Pty Ltd
**2021105806** Liaoning University of Traditional Chinese Medicine
**2021105807** Kaplan, D.
**2021105808** M, K.; M.L.M., P.; ANKISETTY, G.K.; P, M.; VEERASAMY, M.; P V, R.M.; T, S.R.; S, R.C.; CH, G.P.; TAMINANA, S.; RAO, K.P.
**2021105809** B, R.; D, B.; D, S.; M, R.P.; B, G.J.; T.C, M.; S, P.; S, M.; S, K.; J, D.S.
**2021105810** Guangxi University of Science and Technology
**2021105812** Ocean University of China
**2021105814** Cai Xiaoshuang
**2021105816** Kunming University of Science and Technology
**2021105817** Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Northeast Normal University; Ningxia University; Shandong Jianzhu University
**2021105818** Kaplan, D.
**2021105819** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**2021105821** Huazhong Agricultural University
**2021105822** Kaplan, D.
**2021105824** Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences
**2021105825** Panjin Institute of Industrial Technology,DUT
**2021105828** Wuhan Research Institute Of Materials Protection
**2021105829** Qingdao University of Science and Technology
**2021105830** Northwest University
**2021105831** Affiliated Zhongshan Hospital of Dalian University
**2021105833** WANIGARATNE, B.
**2021105835** School of Geosciences and Technology, China University of Petroleum (East China); Research Institute of Exploration & Development, SINOPEC Shengli Oilfield Company
**2021105837** Interbid Pty Ltd
**2021105838** Affiliated Zhongshan Hospital of Dalian University
**2021105841** Ludong University Dongying Base for High Quality Development of Modern Agriculture and Integration of Industry and Education
**2021105842** iconcordia
**2021105854** China Agricultural University
**2021105881** Macdonald, J.
**2021105882** Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences
**2021105883** Nanjing First Hospital
**2021105884** University of South China
**2021105885** Technology Center of Nanning Customs
**2021105886** ShenZhen Vido Technology Co.,Ltd
**2021105887** Wuhan Research Institute Of Materials Protection
**2021105888** Institute of Geology and Geophysics, Chinese Academy of Sciences
**2021105889** Coll, R.
**2021105890** Guangzhou Panyu Polytechnic
**2021105891** REX Energy Pty Ltd
**2021105892** East China Normal University
**2021105893** TERMWAY(BEIJING) PRECISION TECHNOLOGY CO., LTD.
**2021105894** Wuhan Research Institute Of Materials Protection
**2021105895** Shandong Dyne Marine Biopharmaceutical Co., Ltd
**2021105896** GRAPHIC ERA (DEEMED TO BE UNIVERSITY)
**2021105897** Wuhan Research Institute Of Materials Protection
**2021105898** Xi'an University of Science and Technology
**2021105899** Heilongjiang Bayi Agricultural University; Meisirui (Jilin) Technology Co., Ltd.
**2021105900** TRANQUILITY GROUP PTY LTD
**2021105901** University of South China
**2021105903** Work Air Technologies Pty Ltd
**2021105904** FCI Holdings Delaware, Inc
**2021105905** Qingdao Agricultural University
**2021105906** Shandong Peanut Research Institute; Yantai Academy of Agricultural Sciences, Shandong; Agricultural Technology Extension Center of Muping District, Yantai; Taibaozhuang Sub-district Office, Xiashan Ecological Economic Development Zone, Weifang
**2021105907** Qingdao Agricultural University
**2021105908** Shaanxi Yuanguang High-Tech Co., Ltd.
**2021105909** Qilu University of Technology; Shandong Aojing Biotechnology Co., Ltd.
**2021105910** Shaanxi Yuanguang High-Tech Co., Ltd.
**2021105911** Wuhan Research Institute Of Materials Protection
**2021105912** Wuhan Research Institute of Material Protection
**2021105913** Huazhong Agricultural University
**2021105914** Suzhou Hongjiu Aviation Thermal Materials Technology Co., Ltd
**2021105915** Wuhan Research Institute Of Materials Protection
**2021105916** Qingdao Agricultural University; Jinlin Agricultural University
**2021105917** Qingdao University of Science and Technology
**2021105918** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
**2021105919** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
**2021105920** Panjin Institute of Industrial Technology,DUT
**2021105921** Booysen, A.
**2021105922** Qingdao University of Science and Technology
**2021105923** Panjin Institute of Industrial Technology,DUT
**2021105924** Institute of cash crops, Xinjiang Academy of Agricultural Sciences; Institute of crop variety resources, Xinjiang Academy of Agricultural Sciences; Inner Mongolia Agricultural University; Institute of Agricultural Sciences, Yili Kazak Autonomous Prefecture; Qitai wheat experimental station of Xinjiang Academy of Agricultural Sciences; Xinjiang Uygur Autonomous Region Agricultural Technology Extension Station; International Science and technology cooperation and exchange office of Xinjiang Academy of Agricultural Sciences; Xinjiang Uygur Autonomous Region bee industry technical guid-

## Innovation Patent Applications Filed - Numerical Index cont'd

| | |
|---|---|
| | ance Station; Hainan seed breeding base of Xinjiang Uygur Autonomous Region |
| **2021105925** | Xi'an Jinshan Yinshan Technology Co., Ltd. |
| **2021105927** | Firebrick Pharma Limited |
| **2021105928** | Stevens, J.; Stevens, T. |
| **2021105929** | CCTEG Chongqing Research Institute |
| **2021105930** | Tianjin University |
| **2021105931** | Medsecure Group Pty Ltd |
| **2021105932** | Chongqing Technology and Business University; Chongqing Technology and Business University of Science and technology development co., LTD |
| **2021105933** | Shihezi University; Xinjiang tianshan reclamation animal husbandry co., LTD |
| **2021105934** | Thankcome Biological Science and Technology (Suzhou) Co., Ltd. |
| **2021105936** | Harbin Institute of Technology |
| **2021105937** | School of Chemical Engineering, Northeast Electric Power University |
| **2021105939** | Holloway, D. |
| **2021105940** | Suzhou Nanjing Normal University science park investment management co., LTD; Nanjing Weize technology information co., LTD |
| **2021105941** | Beijing Institute of Technology |
| **2021105942** | Hipwell, J. |
| **2021105943** | Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA |
| **2021105946** | Zikos, E. |
| **2021105947** | Lin, S. |
| **2021105948** | Lee, A.J. |
| **2021105949** | ZHEJIANG INSTITUTE OF FRESHWATER FISHERIES; SHANGHAI OCEAN UNIVERSITY |
| **2021105951** | Lin, S. |
| **2021105952** | China Railway 18th Construction Bureau Co., Ltd.; China Railway 18th Bureau Group No.4 Engineering Co., Ltd. |
| **2021105953** | Lin, S. |
| **2021105954** | b.box for kids developments Pty Ltd |
| **2021105955** | b.box for kids developments Pty Ltd |
| **2021105956** | b.box for kids developments Pty Ltd |
| **2021105957** | b.box for kids developments Pty Ltd |
| **2021105958** | b.box for kids developments Pty Ltd |
| **2021105959** | b.box for kids developments Pty Ltd |
| **2021105960** | Apro Commerce Pty Ltd |
| **2021105962** | Seed & Sprout Co Pty Ltd |
| **2021105963** | Nanjing University |
| **2021105964** | Lin, S. |
| **2021105965** | Qinghai Third Geological Survey Institute |
| **2021105966** | THE TECH2 GROUP PTY LTD |
| **2021105967** | Harrison, F. |
| **2021105969** | Fraser, M.A. |
| **2021105970** | Hunan Agricultural University |
| **2021105971** | Fuzhou University |
| **2021105972** | Hebei GEO University |
| **2021105973** | Lee, W. |
| **2021105974** | Wuhan Municipal Construction Group Co. LTD; China Railway High-tech Industry Co., LTD; China Railway Tunnel Co. LTD; Huazhong University of Science and Technology; Wuhan Huazhong University of Science and Technology Testing Technology Co., Ltd; School of Civil Engineering and Architecture, Wuhan University of Technology |
| **2021105975** | Zhang, K.; Zhang, J.; Hu, Y. |
| **2021105976** | Lee, W. |
| **2021105977** | Shaanxi University of Science & Technology |
| **2021105978** | Zhangye yucheng Bio-Pharmaceutical co.,Ltd; Zhangye Academy of Agricultural Sciences |
| **2021105979** | Huaiyin Institute of Agricultural Sciences in Xuhuai area of Jiangsu Province; huaiyin normal university |
| **2021105980** | No.3 Engineering Company of China Railway No.8 Engineering Group Co., Ltd.; China Railway No.8 Engineering Group Co., Ltd. |
| **2021105981** | Zhangye yucheng Bio-Pharmaceutical co.,Ltd; Zhangye Academy of Agricultural Sciences; Zhangye Academy of Forestry Sciences |
| **2021105982** | Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Northeast Normal University; Ningxia University; Shandong Jianzhu University |
| **2021105983** | Hebei GEO University |
| **2021105985** | TONGLING HUACHUANG NEW MATERIAL CO.,LTD |
| **2021105988** | Northwest Institute of Plateau Biology, Chinese Academy of Sciences |
| **2021105990** | Qingdao University of Science & Technology |
| **2021105991** | MICRO-TECH (NANJING) CO., LTD. |
| **2021105992** | Qingdao University of Science & Technology |
| **2021105993** | Wuhan Research Institute Of Materials Protection |
| **2021105995** | Yimao Environmental Technology Co., Ltd; Wuhan Textile University |
| **2021105996** | Hebei Chest Hospital |
| **2021105997** | BEIJING TORCH SMT INCORPORATED COMPANY |
| **2021105998** | Poinern, G.; Wulandari, T.; Nasseh, M.; Fawcett, D.; Burt, M. |
| **2021105999** | Tui Innovations Limited |
| **2021106000** | Harbin Institute of Technology |
| **2021106002** | Qingdao University of Science and Technology |
| **2021106003** | Wuhan Research Institute Of Materials Protection |
| **2021106004** | Northwest Institute of Plateau Biology, Chinese Academy of Sciences |
| **2021106007** | Ningbo Zhongxin Electronic Technology Co., Ltd. |
| **2021106008** | Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences |
| **2021106011** | ICSIP Pty Ltd |
| **2021106014** | Arctech Solar Holding Co., Ltd. |
| **2021106019** | Arctech Solar Holding Co., Ltd. |
| **2021106021** | Kunming University of Science and Technology; Yunnan Shanshui Environmental Protection Engineering Co., Ltd. |
| **2021106023** | GRAPHIC ERA (DEEMED TO BE UNIVERSITY) |
| **2021106025** | TIAN, B.; CHA, H.; GE, J.; ZENG, G.; BO, W.; SONG, W.; LUO, Y.; SU, Y.; XING, Y. |
| **2021106026** | Institute of Biotechnology and Food Science, Hebei Academy of Agriculture and Forestry Sciences |
| **2021106028** | School of Chemical Engineering, Northeast Electric Power University |
| **2021106029** | FUWAI Hospital |
| **2021106031** | TIAN, B.; CHA, H.; CUI, M.; BO, W.; DENG, D. |
| **2021106032** | TIAN, B.; LIANG, X.; CHA, H.; BO, W.; DENG, D. |
| **2021106033** | Soniclean Pty Ltd |
| **2021106036** | TIAN, B.; CHA, H.; BO, W.; DENG, D.; TU, R.; ZHANG, Y. |
| **2021106041** | Xero Limited |
| **2021106043** | TIAN, B.; CHA, H.; GE, J.; ZENG, G.; BO, W.; SONG, W.; LUO, Y.; SU, Y.; XING, Y. |
| **2021106055** | Hong, T. |
| **2021106078** | Australian Coil Services Pty Ltd |
| **2021106079** | Xi'an Shiyou University; China National Petroleum Corporation Safety and Environmental Technology Research Institute Co., Ltd. |
| **2021106080** | Gansu Agricultural University |
| **2021106081** | Gansu Agricultural University |
| **2021106082** | janicska, s. |
| **2021106083** | Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences; Ningxia University; Shandong Jianzhu University |
| **2021106084** | Jiangsu Huachuang Microsystem Co., Ltd.; The 14th Research Institute of China Electronic Technology Group Corporation |
| **2021106085** | Good Water Energy Ltd |
| **2021106086** | Harbin Institute of Technology |
| **2021106087** | Shanghai Jiao Tong University |
| **2021106088** | University of Science and Technology Beijing |
| **2021106089** | The Second Affiliated Hospital of University of South China |

## Innovation Patent Applications Filed - Numerical Index cont'd

**2021106090** Xuzhou College of Industrial Technology; Jiangsu Huaxin New Material Co.,Ltd.
**2021106091** Tarim University
**2021106092** Logix Engineering Pty Ltd
**2021106093** Chi, Y.
**2021106094** Walton Mine Services Pty Ltd
**2021106095** Dalian University of Technology
**2021106096** Keshi Technologies Pty Ltd
**2021106097** Hammersmith Nominees Pty Ltd
**2021106098** Henan University of Technology
**2021106099** Zhuzhou Ruideer Metallurgy Equipments Co.
**2021106100** Thankcome Biological Science and Technology (Su Zhou) Co.,LTD.
**2021106101** Huanan Industrial Technology Research Institute of Zhejiang University; Zhejiang University
**2021106102** Liu, H.
**2021106103** UON Pty Ltd
**2021106104** Keshi Technologies Pty Ltd
**2021106105** Institute of Geology and Geophysics, Chinese Academy of Sciences
**2021106106** UON Pty Ltd
**2021106107** Glassguard Pty Ltd
**2021106109** Guangxi University
**2021106110** CYCLINGDEAL USA, INC.
**2021106111** Institute of High Energy Physics, CAS; Shanghai Herry Technology Co., Ltd.
**2021106112** Harbin Institute of Technology
**2021106113** CYCLINGDEAL USA, INC.
**2021106114** Kunming University of Science and Technology; Yunnan Shanshui Environmental Protection Engineering Co., Ltd.
**2021106115** Henan University of Technology
**2021106116** ZHUHAI HERMESIN ENTERPRISES CO.,LTD
**2021106117** Rite-Hite Holding Corporation
**2021106118** Affiliated Hospital of Jining Medical University
**2021106119** Tongji University; Shanghai Baoye Group Co., Ltd; Chengdu University of Technology
**2021106120** Syrinx Environmental Pty Ltd
**2021106121** Imtrade Australia Pty Ltd
**2021106122** Rural Energy & Environmental Protection Institute of Heilongjiang Academy of Agricultural Sciences
**2021106123** Tongji University; Chengdu University of Technology; Sichuan Institute of Building Research
**2021106128** Meteorological Observation Centre of China Meteorological Administration; Institute of Computing Technology, China Academy of Railway Sciences Corporation Limited; China State Railway Group Co., Ltd.
**2021106130** ILST Innovation Lab Pty Ltd
**2021106132** Corues Biotechnology Co., Ltd
**2021106133** Sichuan Normal University; Chengdu Aokerui Technology Co., Ltd
**2021106134** Beijing Institute of Technology
**2021106135** South China Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences; Guangdong Hongke Agricultural Machinery R&D Co., Ltd.
**2021106136** McKay Drilling Pty Ltd
**2021106137** Zelira Therapeutics Operations Pty Ltd
**2021106138** Caterpillar Global Mining LLC
**2021106140** Thermaguard Pty Ltd
**2021106141** Zhenlin Technology (Xiamen) Co., Ltd; Harbin Institute of Technology (Shenzhen)
**2021106142** Swiss Timing Ltd
**2021106147** Gooden, A.
**2021106148** Thankcome Biological Science and Technology (Su Zhou) Co.,LTD.
**2021106150** Rafferty, T.
**2021106151** First Nations Blockchain Pty Ltd
**2021106152** Sleeping Duck Pty Ltd
**2021106153** C&S PACKAGING SUPPLIER, S.L.U.
**2021106154** Firebrick Pharma Limited
**2021106155** China Railway 18th Bureau Group Co., Ltd.
**2021106156** Sleeping Duck Pty Ltd
**2021106159** Hong Bridge Technology Co., Ltd.
**2021106161** The Thirsty Nomad Pty Ltd
**2021106162** Guangzhou Baiyunshan Qixing Pharmaceutical Co. Ltd
**2021106164** Hanson, D.
**2021106166** Tate & Lyle Ingredients Americas LLC
**2021106167** Richard, M.
**2021106168** China University of Mining and Technology
**2021106169** Institute of Geology and Geophysics, Chinese Academy of Sciences
**2021106170** Techtronic Cordless GP
**2021106171** Shenzhen Institutes Of Advanced Technology Chinese Academy Of Sciences
**2021106173** Shenzhen Institutes of Advanced Technology
**2021106176** ZYCHEM TECHNOLOGIES PTY LTD
**2021106177** Changsha University of Science & Technology; Shenzhen Technology University; Zhejiang University
**2021106179** Shandong Dyne Marine Biopharmaceutical Co., Ltd
**2021106180** Hebei University of Technology
**2021106181** Australian Electric Car Manufacturing Pty Ltd
**2021106182** TIAN, B.; CHA, H.; GE, J.; ZENG, G.; BO, W.; SONG, W.; LUO, Y.; SU, Y.; XING, Y.
**2021106183** Shandong Dyne Marine Biopharmaceutical Co., Ltd
**2021106185** Jiangxi Agricultural University
**2021106186** First Institute of Oceanography, Ministry of Natural Resources
**2021106187** First Institute of Oceanography, Ministry of Natural Resources
**2021106188** First Institute of Oceanography, Ministry of Natural Resources
**2021106189** Beijing Weather Modification Office; HOPE (BEIJING) TECHNOLOGY CO., LTD.; BEIJING KEYTEC TECHNOLOGY CO., LTD
**2021106190** MIND MEDICINE AUSTRALIA LIMITED
**2021106191** Jiangxi Agricultural University
**2021106192** China Railway 18th Bureau Group Co., Ltd.; Liaoning Technical University; Hebei University of Technology
**2021106193** Third Zeton IP Pty Ltd
**2021106194** Xi'an Jiaotong University; Northwest Branch of State Grid Corporation of China
**2021106195** FARRELL, C.
**2021106196** Jiangxi Agricultural University
**2021106197** TIAN, B.; CHA, H.; CUI, M.; BO, W.; DENG, D.
**2021106200** Zhejiang University; Changsha University of Science & Technology; Shenzhen Technology University
**2021106201** Botanical Water Technologies IP Ltd
**2021106203** Qingdao Agricultural University
**2021106206** THE GOOD VITAMIN CO LIMITED
**2021106207** THE GOOD VITAMIN CO LIMITED
**2021106208** Xiangya Hospital Central South University
**2021106209** Shenzhen Technology University; Zhejiang University; Changsha University of Science & Technology
**2021106210** Botanical Water Technologies IP Ltd
**2021106211** Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences
**2021106212** Henan Provincial People's Hospital
**2021106214** Taranis Power Group Pty Ltd
**2021106215** TWOBESEEN Pty Ltd
**2021106220** Mechanical System Dynamics Pty Ltd
**2021106230** Shenzhen Institute of Geriatrics; Wu, Z.
**2021106244** Shenzhen Institute of Geriatrics; Wu, Z.
**2021106246** Bourgelat Pty Ltd
**2021106247** Beihang University
**2021106252** Xi'an Jiaotong University; NORTHWEST BRANCH OF STATE GRID CORPORATION OF CHINA
**2021106255** Shenzhen Institute of Geriatrics; Wu, Z.
**2021106256** Xi'an Jiaotong University; State Grid Shaanxi Electric Power Company Limited
**2021106260** Shenzhen Institute of Geriatrics; Wu, Z.
**2021106277** Du Plooy, W.
**2021106279** Shandong Kongshengtang Pharmaceutical Co., Ltd.

## Innovation Patent Applications Filed - Numerical Index cont'd

| | |
|---|---|
| **2021106283** | Nanjing Luchengyuan Energy-saving and Environmental Protection Technology Co., Ltd.; Shenzhen Research Institute Of Nankai University |
| **2021106284** | Nanjing Luchengyuan Energy-saving and Environmental Protection Technology Co., Ltd.; Shenzhen Research Institute Of Nankai University |
| **2021106285** | Ruthenberg, K. |
| **2021106286** | Syzdek, K.; Moir, A. |
| **2021106287** | Simmons, G. |
| **2021106288** | Smith, C. |
| **2021106289** | Thankcome Biological Science and Technology (Su Zhou) Co.,LTD. |
| **2021106290** | King, D. |
| **2021106291** | Nanchang Tangyouan Health Technology Co. , Ltd. |
| **2021106292** | Agro-biological Gene Research Center of Guangdong Academy of Agricultural Sciences; Guangdong Xinji Emu Industrial Co., LTD. |
| **2021106293** | Beihang University |
| **2021106294** | Martin, R. |
| **2021106306** | Sayfa R&D Pty Ltd |
| **2021106320** | hong, t. |
| **2021106322** | Sayfa R&D Pty Ltd |
| **2021106324** | Sayfa R&D Pty Ltd |
| **2021106327** | Sayfa R&D Pty Ltd |
| **2021106332** | van Ginkel, A. |
| **2021106334** | Grout, L. |
| **2021106338** | Adderley, M. |
| **2021106349** | 3ME Technology Pty Ltd |
| **2021106360** | Growplay Pty Ltd |
| **2021106361** | Growplay Pty Ltd |
| **2021106386** | Al-Kakouni, Z.; Kakouni Care Products Australia PTY.LTD |
| **2021106412** | Dean, N. |
| **2021106419** | Sepehr, B. |
| **2021106425** | Feng, H.; Feng, R. |
| **2021106428** | BIOBINS PTY LTD |
| **2021106429** | AUSTRALIAN ARTIFICIAL INTELLIGENCE TECHNOLOGIES PTY LTD |
| **2021106430** | DINO GROUP PTY LTD |
| **2021106432** | Feng, H.; Feng, R. |
| **2021106434** | Ghahraei, A. |
| **2021106435** | Violeta Bec |
| **2021106438** | Feng, H.; Feng, R. |
| **2021106441** | Feng, H.; Feng, R. |
| **2021106442** | Dennis, S.; Dennis, S. |
| **2021106461** | Riskallah, S. |
| **2021106462** | G & H Resources Pty Ltd |
| **2021106465** | Finegan, G. |
| **2021106467** | Screedex Pty Ltd |
| **2021106524** | GlassFit Australia Pty Ltd |

## 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 |

**2001**

2001057984 ( 14 ) 2001059874 ( 14 ) 2001059877 ( 14 )
2001085061 ( 14 ) 2001096851 ( 14 ) 2001277421 ( 14 )
2001277754 ( 14 ) 2001277766 ( 14 ) 2001278711 ( 14 )
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2001286546 ( 14 ) 2001288248 ( 14 ) 2001288307 ( 14 )
2001291758 ( 14 ) 2001294349 ( 14 ) 2001295475 ( 14 )

**2002**

2002015444 ( 14 ) 2002015447 ( 14 ) 2002229782 ( 14 )
2002232263 ( 14 ) 2002232276 ( 14 ) 2002236974 ( 14 )
2002247690 ( 14 ) 2002250904 ( 14 ) 2002253000 ( 14 )
2002256617 ( 14 ) 2002306455 ( 14 )

**2003**

2003200397 ( 14 ) 2003200405 ( 14 ) 2003200419 ( 14 )
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2003206134 ( 14 ) 2003207416 ( 14 ) 2003212975 ( 14 )
2003215090 ( 14 ) 2003266767 ( 14 )

**2004**

2004203045 ( 14 ) 2004210016 ( 14 ) 2004210181 ( 14 )
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2004210442 ( 14 ) 2004211913 ( 14 ) 2004212899 ( 14 )

**2005**

2005200451 ( 14 ) 2005200520 ( 14 ) 2005200856 ( 14 )
2005212323 ( 14 ) 2005212363 ( 14 ) 2005213458 ( 14 )
2005214817 ( 14 ) 2005215198 ( 14 ) 2005215596 ( 14 )
2005224727 ( 14 ) 2005235811 ( 14 )

**2006**

2006200530 ( 14 ) 2006200541 ( 14 ) 2006200553 ( 14 )
2006202051 ( 14 ) 2006203622 ( 14 ) 2006203647 ( 14 )
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**2007**

2007200487 ( 14 ) 2007200493 ( 14 ) 2007200513 ( 14 )
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2007213040 ( 14 ) 2007214011 ( 14 ) 2007215314 ( 14 )
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**2008**

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**2009**

2009200442 ( 14 ) 2009210728 ( 14 ) 2009211138 ( 14 )
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2009212367 ( 14 ) 2009212373 ( 14 ) 2009212477 ( 14 )
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**2010**

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**2011**

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**2012**

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**2013**

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2014100103 ( 22E ) 2014200621 ( 14 ) 2014200646 ( 14 )
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**2015**

2015200538 ( 14 ) 2015200546 ( 14 ) 2015202760 ( 14 )
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2015340545 ( 5C ) 2015358483 ( 5C ) 2015360714 ( 5C )
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**2016**

2016100102 ( 22E ) 2016100113 ( 22E ) 2016101951 ( 22E )
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2016245213 ( 5C ) 2016245334 ( 5C ) 2016258274 ( 14 )
2016265882 ( 5C ) 2016310035 ( 5C ) 2016312848 ( 5C )
2016346784 ( 5C )

**2017**

2017100146 ( 22E ) 2017100156 ( 22G ) 2017200727 ( 4B )
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2017227778 ( 5C ) 2017233533 ( 14 ) 2017235961 ( 1B )
2017246188 ( 5C ) 2017246189 ( 5C ) 2017247070 ( 14 )
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2017324854 ( 1B ) 2017324860 ( 1B ) 2017325124 ( 1B )
2017349397 ( 1B ) 2017383531 ( 5C ) 2017392339 ( 4B )
2017397402 ( 4A ) 2017397408 ( 4A ) 2017397500 ( 4A )
2017434612 ( 5C ) 2017434615 ( 5C )

**2018**

2018100172 ( 22E ) 2018201023 ( 1B ) 2018202551 ( 1B )
2018204925 ( 1B ) 2018223025 ( 1B ) 2018230611 ( 1B )
2018230612 ( 1B ) 2018230614 ( 1B ) 2018244584 ( 5C )
2018250494 ( 5C ) 2018260505 ( 5C ) 2018270112 ( 5C )
2018270157 ( 5C ) 2018271351 ( 14 ) 2018271913 ( 1B )
2018282722 ( 1B ) 2018286561 ( 5C ) 2018303151 ( 5C )
2018310450 ( 5C ) 2018315047 ( 5C ) 2018315807 ( 1B )
2018325815 ( 1B ) 2018338636 ( 5C ) 2018345671 ( 5C )
2018354785 ( 1B ) 2018382392 ( 5C ) 2018385106 ( 5C )
2018390111 ( 1B )

**2019**

2019100112 ( 22E ) 2019100113 ( 22E ) 2019100131 ( 22E )
2019100137 ( 22E ) 2019200115 ( 5C ) 2019200756 ( 4C )
2019200864 ( 5C ) 2019202792 ( 4C ) 2019203759 ( 5C )
2019203809 ( 5C ) 2019203812 ( 5C ) 2019203944 ( 5C )
2019203967 ( 5C ) 2019204089 ( 5C ) 2019204389 ( 4C )
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2019232909 ( 5C ) 2019234574 ( 1B ) 2019236630 ( 4C )
2019236647 ( 5C ) 2019236648 ( 5C ) 2019246772 ( 5C )
2019246884 ( 5C ) 2019253906 ( 5C ) 2019257521 ( 5C )
2019261728 ( 5C ) 2019264579 ( 4C ) 2019264608 ( 4C )
2019275656 ( 5C ) 2019279921 ( 4C ) 2019398918 ( 12A )

**2020**

2020201726 ( 5C ) 2020202861 ( 4C ) 2020203474 ( 4C )
2020203515 ( 4C ) 2020203715 ( 4C ) 2020204219 ( 5C )
2020205223 ( 5CN ) 2020902974 ( 12AN ) 2020902982 ( 12AN )
2020903119 ( 12AN ) 2020903705 ( 12AN )

**2021**

2021102912 ( 18AN ) 2021102913 ( 18AN ) 2021102915 ( 18AN )
2021102919 ( 18AN ) 2021104884 ( 12AN ) 2021209249 ( 12C )
2021900544 ( 12AN )

## Assignments before Grant, Section 113

**2016**

2016301969 Universite Paris-XIII; Universite Paris Diderot - Paris 7; Universite Paris-Sud 11; Institut National de la Sante et de la Recherche Medicale (INSERM) (EPST); Acticor Biotech The application has been assigned to **UNIVERSITE DE PARIS; Acticor Biotech; Universite Paris-XIII; Institut National de la Sante et de la Recherche Medicale (INSERM) (EPST); Universite Paris-Sud 11**

2016374580 Institut national de recherche pour l'agriculture, l'alimentation et l'environnement; Universite Paris Diderot - Paris 7; Universite Paris Descartes; Assistance Publique - Hopitaux de Paris The application has been assigned to **UNIVERSITE DE PARIS; Institut national de recherche pour l'agriculture, l'alimentation et l'environnement; Assistance Publique - Hopitaux de Paris**

2016429781 Multi-Chem Group, LLC The application has been assigned to **Halliburton Energy Services, Inc.**

**2017**

2017219834 INSERM (Institut National de la Santé et de la Recherche Médicale); Université Paris Descartes; Centre National de la Recherche Scientifique (CNRS); Assistance Publique-Hôpitaux de Paris (APHP) The application has been assigned to **UNIVERSITE DE PARIS; INSERM (Institut National de la Santé et de la Recherche**

## Assignments before Grant, Section 113

**Médicale); Centre National de la Recherche Scientifique (CNRS); Assistance Publique-Hôpitaux de Paris (APHP)**

2017232103 Skyfold Investments Ltd. The application has been assigned to **Skyfold Inc.**

2017261685 Inserm (Institut National de la Santé et de la Recherche Médicale); Universite Paris Descartes; Sorbonne Universite; Assistance Publique - Hôpitaux de Paris; Université Paris Diderot - Paris 7 The application has been assigned to **UNIVERSITE DE PARIS; Inserm (Institut National de la Santé et de la Recherche Médicale); Sorbonne Universite; Assistance Publique - Hôpitaux de Paris**

2017270234 INSERM (Institut National de la Santé et de la Recherche Médicale); Université Paris Descartes; Université Paris-Sud; Assistance Publique-Hôpitaux de Paris (APHP) The application has been assigned to **UNIVERSITE DE PARIS; INSERM (Institut National de la Santé et de la Recherche Médicale); Université Paris-Sud; Assistance Publique-Hôpitaux de Paris (APHP)**

2017297812 Assistance Publique - Hopitaux de Paris; Universite Paris Descartes; Centre National de la Recherche Scientifique (CNRS); Institut National de la Sante et de la Recherche Medicale (INSERM); Sorbonne Universite The application has been assigned to **UNIVERSITE DE PARIS; Assistance Publique - Hopitaux de Paris; Institut National de la Sante et de la Recherche Medicale (INSERM); Centre National de la Recherche Scientifique (CNRS); Sorbonne Universite**

2017320580 Medical Enterprises Distribution, LLC The application has been assigned to **DePuy Synthes Products, Inc.**

2017327712 General Electric Company The application has been assigned to **BL Technologies, Inc.**

2017349568 Amir, Eliron; Averbuch, Dorian; Cohen, Eyal; Fenchenko, Willy; Pevzner, Kirill; Chaiutin, Yoel; Sezganov, Dima The application has been assigned to **Body Vision Medical Ltd.**

2017351764 Université de Montpellier; Université Paris Diderot - Paris 7; Institut Régional Du Cancer De Montpellier; Institut Jean Godinot; Inserm (Institut National De La Santé Et De La Recherche Médicale) The application has been assigned to **UNIVERSITE DE PARIS; Inserm (Institut National De La Santé Et De La Recherche Médicale); Université de Montpellier; Institut Jean Godinot; Institut Régional Du Cancer De Montpellier**

2017399688 Joby Aviation, Inc. The application has been assigned to **Joby Aero, Inc.**

2017400534 General Electric Company The application has been assigned to **BL Technologies, Inc.**

2017400535 General Electric Company The application has been assigned to **BL Technologies, Inc.**

2017408643 Multi-Chem Group, LLC The application has been assigned to **Halliburton Energy Services, Inc.**

## Assignments before Grant, Section 113

**2018**

2018211893 MOCS Beheer B.V. The application has been assigned to **PIPE-AQUA-TEC GMBH & CO. KG**

2018217404 Université Paris Descartes; Fondation Imagine - Institut des Maladies Génétiques; Assistance Publique - Hopitaux de Paris; Institut National de la Santé et de la Recherche Médicale (INSERM) The application has been assigned to **UNIVERSITE DE PARIS; Assistance Publique - Hopitaux de Paris; Fondation Imagine - Institut des Maladies Génétiques; Institut National de la Santé et de la Recherche Médicale (INSERM)**

2018321259 Wealth Technologies Inc. The application has been assigned to **WT IP Holdings, LLC**

2018327940 Ajou University Industry-Academic Cooperation The application has been assigned to **Pinetree Therapeutics, Inc.**

2018371164 Paris Sciences Et Lettres - Quartier Latin; Biotech Dental; Centre National De La Recherche Scientifique The application has been assigned to **BIOTECH DENTAL SAS; Biotech Dental**

**2019**

2019202759 HIIT Systems Pty Ltd The application has been assigned to **Abbott, Craig Neville**

2019240634 BioRestorative Therapies, Inc.; Silva, Fancisco The application has been assigned to **BioRestorative Therapies, Inc.**

2019247533 Black Belt TX Ltd The application has been assigned to **PRAXIS BIOTECH LLC**

2019264574 Complete Outdoor Solutions (WA) Pty Ltd The application has been assigned to **Chester Brown Industries Pty Ltd**

2019269372 ARIAD Pharmaceuticals, Inc. The application has been assigned to **Takeda Pharmaceutical Company Limited**

2019324585 Hagemann, Carsten; Kessler, Almuth; Lohr, Mario; Forster, Carola; Burek, Malgorzata; Hershkovich, Hadas; Brami, Catherine; Voloshin-Sela, Tali The application has been assigned to **NOVOCURE GmbH**

2019391692 Bergersen, Earl The application has been assigned to **Ortho-Tain, Inc.**

2019418722 Omotola, Alahandro The application has been assigned to **Phiisagen Corporation**

2019427771 Multi-Chem Group, LLC The application has been assigned to **Halliburton Energy Services, Inc.**

**2020**

2020244540 Complete Outdoor Solutions (WA) Pty Ltd The application has been assigned to **Chester Brown Industries Pty Ltd**

2020903026 Davidson, Murray The application has been assigned to **Sunset IP Pty Ltd**

## Assignments before Grant, Section 113

2020903263 RAW TALENT AGENCY PTY LTD The application has been assigned to **Smiley Boom Pty Ltd**

**2021**

2021200227 Multi-Chem Group, LLC The application has been assigned to **Halliburton Energy Services, Inc.**

2021201823 Multi-Chem Group, LLC The application has been assigned to **Halliburton Energy Services, Inc.**

2021203030 Mallinckrodt Hospital Products IP Limited The application has been assigned to **Mallinckrodt Pharmaceuticals Ireland Limited**

2021203785 Rowse, Brendon The application has been assigned to **Welspring Pty Ltd**

2021204009 Mallinckrodt Hospital Products IP Limited The application has been assigned to **Mallinckrodt Pharmaceuticals Ireland Limited**

2021204310 Rowse, Brendon The application has been assigned to **Welspring Pty Ltd**

2021204424 MP Global Products, L.L.C. The application has been assigned to **Pratt Retail Specialties, LLC**

2021204810 Rezvani, Babak The application has been assigned to **Alarm.com Incorporated**

2021206801 James & Wells Intellectual Property The application has been assigned to **SOLAR ANALYTICS PTY LTD**

2021901965 Finch, Gerard The application has been assigned to **X-Frame Holdings Pty Ltd**

## Extensions of Time, Section 223

**Applications Received**

Notice of opposition under Section 223(6) to the undermentioned application(s) for an extension of time may be lodged at the Patent Office within the prescribed time.

**2018**

2018207190 **Radiomedix Inc.; Orano Med** An application to extend the time from 03 Mar 2021 to 03 Jul 2021 in which to pay the acceptance fee has been filed . Address for service - Phillips Ormonde Fitzpatrick PO Box 323 COLLINS STREET WEST VIC 8007 AU

**Applications Allowed - Section 223(2)**

**2007**

2007216685 **Silicon Craft Technology Co., Ltd** The time in which to pay a renewal fee has been extended to 06 Jun 2021 . Address for service - Davies Collison Cave Pty Ltd Level 14 255 Elizabeth St Sydney NSW 2000 AU

## Extensions of Time, Section 223

**2011**

2011305059 **Cortical Dynamics Limited** The time in which to pay a renewal fee has been extended to 21 Apr 2021 . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

**2012**

2012209024 **Desire2Learn Incorporated** The time in which to pay a renewal fee has been extended to 31 Mar 2021 . Address for service - FB Rice Pty Ltd L 23 44 Market St Sydney NSW 2000 AU

**2015**

2015218607 **Bevolution Systems, LLC** The time in which to pay a renewal fee has been extended to 24 Mar 2021 . Address for service - Spruson & Ferguson GPO Box 3898 Sydney NSW 2001 AU

2015275671 **Pirtskhlava, N.** The time in which to gain acceptance has been extended to 04 Sep 2021 . Address for service - WRAYS PTY LTD L7 863 Hay St Perth WA 6000 AU

2015275671 **Pirtskhlava, N.** The time in which to pay the continuation fee has been extended to 06 Apr 2021 . Address for service - WRAYS PTY LTD L7 863 Hay St Perth WA 6000 AU

**2016**

2016238377 **Weber, P.** The time in which to pay a continuation fee has been extended to 02 Jun 2021 . Address for service - Pizzeys Patent and Trade Mark Attorneys Pty Ltd PO Box 291 WODEN ACT 2606 AU

**2017**

2017100959 **Moondarewa Inc.** The time in which to gain certification and pay a renewal fee has been extended to 17 Oct 2021 . Address for service - Moondarewa Inc. C/- Director (Max Dillon) Unit 31 4 TWENTY-FOURTH AVENUE PALM BEACH QLD 4221 AU

**2020**

2020207202 **SMARTKABLE LLC** The time in which to enter the National Phase has been extended to 07 Sep 2021 . Address for service - Sandercock & Cowie 1/410 Burwood Highway Wantirna South VIC 3152 AU

**2021**

2021102199 **Javadi, M.; Sharifzadeh, M.** The time in which to comply with a direction under Reg 3.2B has been extended to 14 Aug 2021 . Address for service - Mostafa Sharifzadeh 20 Godenzi St. Broadwood WA Broadwood WA 6430 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.

## Amendments

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.

**2007**

2007209791 Coupling plug lock **ASSA ABLOY Australia Pty Limited** The nature of the amendment is as shown in the statement(s) filed 02 Aug 2021 . Address for service - Phillips Ormonde Fitzpatrick L 16 333 Collins St Melbourne VIC 3000 AU

**2010**

2010214682 A gaming system and a method of gaming **Aristocrat Technologies Australia Pty Limited** The nature of the amendment is as shown in the statement(s) filed 11 Aug 2021 . Address for service - Griffith Hack L 22 Allendale Square 77 St Georges Terrace Perth WA 6000 AU

**2016**

2016232975 Method and apparatus for microscopy **Genea IP Holdings Pty Limited** The nature of the amendment is as shown in the statement(s) filed 09 Aug 2021 . Address for service - Pini IP 638 Queensberry Street North Melbourne VIC 3051 AU

2016251687 RNA containing composition for treatment of tumor diseases **CureVac AG** The nature of the amendment is as shown in the statement(s) filed 20 Jul 2021 . Address for service - Allens Patent & Trade Mark Attorneys Deutsche Bank Place Corner Hunter and Phillip Streets SYDNEY NSW 2000 AU

2016333856 N-sulfonylated pyrazolo[3,4-b]pyridin-6-carboxamides and method of use **Abbvie S.á.r.l ; Galapagos NV** The nature of the amendment is as shown in the statement(s) filed 12 Aug 2021 . Address for service - Spruson & Ferguson GPO BOX 3898 Sydney NSW 2001 AU

**2018**

2018204498 Dual pawl ratchet mechanism and reversing method **Snap-on Incorporated** The nature of the amendment is as shown in the statement(s) filed 29 Jul 2021 . Address for service - Griffith Hack Level 29 Northpoint 100 Miller Street Sydney NSW 2060 AU

2018204724 A method of, and a system for, controlling a drilling operation **Technological Resources Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 19 Mar 2021 . Address for service - BLACKWATTLE IP PTY LIMITED GPO Box 4310 Sydney NSW 2001 AU

2018258274 Methods of manufacturing of niraparib **Tesaro, Inc.** The nature of the amendment is as shown in the statement(s) filed 17 Aug 2021 . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

**2019**

2019101491 VERTICAL CARRY BICYCLE RACK WITH IMPROVED MOUNTING AND SECURING SYSTEM **Currie , M.** The nature of the amendment is as shown in the statement(s) filed 02 Aug 2021 . Address for service - FORWARD INTELLECTUAL PROPERTY PTY LTD U 3 127 Crown Rd Queenscliff NSW 2096 AU

**2020**

2020103870 FIRE STOP SYSTEM AND METHOD OF CONSTRUCTING SUCH SYSTEM **Promat Australia Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 03 Aug 2021 . Address for service - Phillips Ormonde Fitzpatrick PO Box 323 COLLINS STREET WEST VIC 8007 AU

**2021**

2021102228 DUAL-STATE LOCKING ASSEMBLY, MATERIAL HANDLING AID, AND WEARABLE HANDLING AID **South China University of Technology** The nature of the amendment is: Amend the name of the inventor to read Lee, Yu-Ch; Hsieh, Min-Chih and Wang, Mingyue . Address for service - Madderns Pty Ltd GPO Box 2752 Adelaide SA 5001 AU

2021103623 A GEOTHERMAL HYDROGEN PRODUCTION **Good Water Energy Ltd** The nature of the amendment is: Amend the name of the inventor to read STRANGE, Warren Ross . Address for service - K&L Gates Level 25 South Tower 525 Collins Street Melbourne VIC 3000 AU

**Amendments Made**

**2012**

2012217875 **SureTint Technologies, LLC** The nature of the amendment is as shown in the statements filed 29 May 2020, 11 Aug 2020, 30 Oct 2020, 22 Jan 2021 and 15 Apr 2021

**2016**

2016269574 **SMITH, M.** The nature of the amendment is: Application is to proceed under the number 2016102477

2016330030 **Astex Therapeutics Limited; Cancer Research Technology Limited** The nature of the amendment is as shown in the statement filed 07 May 2021

**2017**

2017210013 **Unibind Limited** The nature of the amendment is as shown in the statement filed 14 May 2021

2017212848 **Advanced Inhalation Therapies (AIT) Ltd.** The nature of the amendment is: Amend the name of the inventor to read Figley, Curtis; Levi, Einav; Ophir, Atai and Av-Gay, Yossef

2017307640 **Weir Minerals Australia Ltd** The nature of the amendment is: Amend the name of the inventor to read Munro, Gareth; Calma, Cesar; Duong, Hugh; Cinotti, Nester and Arulkumar, Alvin

2017360666 **Immatics Biotechnologies GmbH** The nature of the amendment is as shown in the statement filed 11 May 2021

2017371516 **Zealand Pharma A/S** The nature of the amendment is as shown in the statement filed 25 May 2021

2017377602 **Asahi Group Holdings, Ltd.; Asahi Breweries, Ltd.** The nature of the amendment is as shown in the statement filed 24 May 2021

**2018**

2018201632 **ESCO Group LLC** The nature of the amendment is as shown in the statement filed 12 Apr 2021

## Amendments

2018208142 **Huawei Technologies Co., Ltd.** The nature of the amendment is as shown in the statement filed 20 May 2021

2018257496 **Raytheon Company** The nature of the amendment is as shown in the statement filed 19 May 2021

2018301849 **Victaulic Company** The nature of the amendment is: Amend the name of the inventor to read MEYER, Stephen J.; RINGER, Yoram and ARCHIBALD, Thomas Edwin

2018349129 **SSAB Technology AB** The nature of the amendment is as shown in the statement filed 20 May 2021

**2019**

2019204946 **SOETANTO, J.** The nature of the amendment is: Application is to proceed under the number 2019101818

2019261802 **ServiceNow, Inc.** The nature of the amendment is as shown in the statement filed 06 Aug 2021

2019262857 **Radux Devices, LLC** The nature of the amendment is: Amend the name of the inventor to read GORDON, Gregory and UBEL, Andrew

2019268046 **Universite Catholique de Louvain; Ludwig Institute for Cancer Research Ltd.; argenx SE** The nature of the amendment is: Amend the name of the inventor to read LUCAS, Sophie; COULIE, Pierre; CUENDE VILLASUR, Julia; DUMOUTIER, Laure; RENAULD, Jean-Christophe; VAN DER WONING, Sebastian; SAUNDERS, Michael; DE HAARD, Hans and DE BOECK, Gitte

2019299947 **Eli Lilly and Company** The nature of the amendment is: Amend the name of the inventor to read BASTIAN, Jolie Anne; COHEN, Jeffrey Daniel; RUBIO, Almudena; SALL, Daniel Jon and MCMAHON, Jennifer Ann

2019359475 **Xencor, Inc.** The nature of the amendment is: Amend the name of the inventors to read BERNETT, Matthew; DESJARLAIS, John R.; HEDVAT, Michael; SCHUBBERT, Suzanne; BONZON, Christine; RASHID, Rumana and VARMA, Rajat

2019374164 **Western Sydney University** The nature of the amendment is: Amend the name of the inventor to read Shalliker, Ross Andrew

2019391692 **Bergersen, E.** The nature of the amendment is: Amend the name of the inventor to read Bergersen, Earl O.

2019408811 **Sapreme Technologies B.V.; Charité – Universitätsmedizin Berlin** The nature of the amendment is as shown in the statement filed 10 Aug 2021

2019411524 **Keltbray Limited** The nature of the amendment is: Amend the name of the inventor to read PELKEN, Paul Michael and NORMAN, Stuart

2019412561 **Sanofi** The nature of the amendment is as shown in the statement filed 23 Jul 2021

## Amendments

2019414849 **Tsinghua University; Nuctech Company Limited** The nature of the amendment is as shown in the statement filed 27 Jul 2021

2019416623 **Holosmedic** The nature of the amendment is: Amend the name of the inventor to read PARK, Ki Cheong; CHEONG, Jae Ho; KIM, Seok Mo; YUN, Yeo Jin and KIM, Byeong Mo

2019422590 **Shenzhen Hive Box Technology Co., Ltd** The nature of the amendment is: Amend the invention title to read Pickup reminding method and apparatus, device, and storage medium

2019475115 **Hengtong Submarine Power Cable Co., Ltd** The nature of the amendment is: Application is to proceed under the number 2019101819

**2020**

2020202027 **KB KOOKMIN CARD CO., LTD.** The nature of the amendment is: Application is to proceed under the number 2020104447

2020210002 **AB Ludvig Svensson** The nature of the amendment is as shown in the statement filed 05 Aug 2021

2020213574 **Huawei Technologies Co., Ltd.** The nature of the amendment is: Amend the invention title to read SIGNAL TRANSMISSION METHOD AND APPARATUS

2020237344 **Zydex Pty. Ltd.** The nature of the amendment is as shown in the statement filed 26 Jul 2021

2020239625 **Aristocrat Technologies Australia Pty Limited** The nature of the amendment is: To amend the applicant name to Aristocrat Technologies Australia Pty Limited

2020244402 **Aristocrat Technologies Australia Pty Limited** The nature of the amendment is: To amend the applicant name to Aristocrat Technologies Australia Pty Limited

2020263549 **Komatsu Ltd.** The nature of the amendment is: Amend the invention title to read A system and a method for controlling a work machine

2020264283 **Coupang Corp.** The nature of the amendment is: Application is to proceed under the number 2020104448

2020405824 **Korea Aviation Light Co., Ltd.** The nature of the amendment is: Amend the invention title to read INSTALLATION STRUCTURE OF AVIATION OBSTRUCTION LIGHT

2020902881 **Aristocrat Technologies Australia Pty Limited** The nature of the amendment is: To amend the applicant name to Aristocrat Technologies Australia Pty Limited

2020902882 **Aristocrat Technologies Australia Pty Limited** The nature of the amendment is: To amend the applicant name to Aristocrat Technologies Australia Pty Limited

## Amendments

**2021**

2021101192 **China Railway 19 Bureau Group Guangzhou Engineering Co., Ltd.** The nature of the amendment is: Amend the priority details to read 202011205699.7 02 Nov 2020 CN

2021102622 **ByHealth Co., Ltd.** The nature of the amendment is: Amend the name of the inventor to read ZHANG, Xuguang and HE, Ruikun

2021103902 **Hoboomlife Bio-Technology (Shenzhen) Co., Ltd.** The nature of the amendment is: Amend the invention title to read APPLICATION OF COMPOSITION CONTAINING NICOTINAMIDE MONONUCLEOTIDE IN ANTI-AGING DRUGS/HEALTHCARE PRODUCTS

2021104065 **North China University of Science and Technology** The nature of the amendment is: Amend the invention title to read Device and Method for Detecting Quantitative Relationship of Interaction Between Sulfur and Titanium in Molten Iron in Furnace Hearth

2021104830 **Liu, Y.; Zhou, L.; Wu, Y.; Jilin University** The nature of the amendment is: Amend the priority details to remove ZL201420396465.9 18 Jul 2014 CN

2021105109 **CHINA RAILWAY MAJOR BRIDGE ENGINEERING GROUP CO., LTD; CHINA RAILWAY BRIDGE SCIENCE RESEARCH INSTITUTE, LTD.** The nature of the amendment is: Amend the invention title to read Method and System for Driving Safety Early Warning of Heavy-Duty Vehicle on Bridge Construction Road

2021203496 **Osaka University; The University of Tokyo** The nature of the amendment is: Amend the invention title to read Super versatile method for presenting cyclic peptide motif on protein structure

2021212159 **GEOPLAST Srl** The nature of the amendment is: Amend the priority details to read 102021000019271 21 Jul 2021 IT

2021218077 **Fortescue Metals Group Ltd** The nature of the amendment is: Amend the invention title to read Rail car absorber disassembly apparatus and method

2021900675 **Siakavelis, F.** The nature of the amendment is: To amend the applicant name to Fotios Siakavelis

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

**2004**

2004204417 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

**2005**

2005278207 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

**2006**

2006254733 Rapak Asia Pacific Limited The name of the patentee has been altered to **Liqui-Box Asia Pacific Limited**

## Amendments

2006289648 9051147 Canada Inc. The name of the patentee has been altered to **Avigilon Patent Holding 1 Corporation**

**2008**

2008213586 9051147 Canada Inc. The name of the patentee has been altered to **Avigilon Patent Holding 1 Corporation**

2008305440 DELTA T CORPORATION The name of the patentee has been altered to **Delta T, LLC**

2008361411 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

**2009**

2009273863 Orthalign, Inc. The name of the patentee has been altered to **OrthAlign, Inc.**

**2010**

2010202946 9051147 Canada Inc. The name of the patentee has been altered to **Avigilon Patent Holding 1 Corporation**

2010214764 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

2010246122 Delta T Corporation ; Aspen Motion Technologies, Inc The name of the patentee has been altered to **Delta T, LLC; Aspen Motion Technologies, Inc**

2010300905 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

**2013**

2013212098 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

**2015**

2015227404 Aspen Motion Technologies, Inc; Delta T Corporation The name of the patentee has been altered to **Aspen Motion Technologies, Inc; Delta T, LLC**

2015253354 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

2015374039 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

**2016**

2016213889 Delta T Corporation The name of the patentee has been altered to **Delta T, LLC**

2016231296 Eternit GmbH The name of the applicant has been altered to **Etex Germany Exteriors GmbH**

2016324172 Laundry 2.0, LLC The name of the applicant has been altered to **WASHLAVA, INC.**

## Amendments

2016432710 Guardian Glass Holding S.P.C. The name of the applicant has been altered to **Guardian Glass Management Services W.L.L.**

**2017**

2017101757 Wanhua Modular Projects Co., Ltd The name of the patentee has been altered to **Wanhua Building Technology Co., Ltd.**

2017346972 Jetti Resources, LLC.; The University of British Columbia The name of the applicant has been altered to **Jetti Resources, LLC; The University of British Columbia**

2017384168 Eternit GmbH The name of the applicant has been altered to **Etex Germany Exteriors GmbH**

**2019**

2019228134 Suzhow NG Biomedicine Co., Ltd. The name of the applicant has been altered to **Suzhou NG Biomedicine Co., Ltd.**

2019283989 Delta T Corporation The name of the applicant has been altered to **Delta T, LLC**

2019297523 Orfan Biotech Inc. The name of the applicant has been altered to **Cantero Therapeutics, Inc.**

2019310942 Meishan Shunying Power Battery Materials Co. Ltd The name of the applicant has been altered to **Sichuan Shunying Power Battery Material Co. Ltd.**

2019386057 Club Car LLC The name of the applicant has been altered to **Club Car, LLC**

2019391692 Bergersen, Eart The name of the applicant has been altered to **Bergersen, E.**

2019420189 XW Laboratories Inc. The name of the applicant has been altered to **XWPharma Ltd.**

**2020**

2020211290 Haemes GmbH The name of the applicant has been altered to **HAEMES Verwaltungsgesellschaft mbH**

2020260537 Institut National de la Recherche Agronomique ; The Royal Institution for the Advancement of Learning/ McGill University The name of the applicant has been altered to **Institut national de recherche pour l'agriculture, l'alimentation et l'environnement; The Royal Institution for the Advancement of Learning/ McGill University**

2020902848 Resource Conservation & Recycling Corp Pty Ltd The name of the applicant has been altered to **Resource Conservation and Recycling Corporation Pty Ltd**

2020902849 Resource Conservation & Recycling Corp Pty Ltd The name of the applicant has been altered to **Resource Conservation and Recycling Corporation Pty Ltd**

2020902886 Australian Performance Vehicles Pty Ltd The name of the applicant has been altered to **APV Corporation Pty Ltd**

## Amendments

2020903810 PPC AUSTRALIA PTY LTD The name of the applicant has been altered to **Precast Permeable Concrete Australia Pty Ltd**

**2021**

2021102771 Kovelakonda, Kusal Kumar; RAMAVATHU, SRINU NAIK; M., NALINI DEVI; Aravelli, S. L. K. Gopalamma; V., Sangeeta; D. V., Divakara Rao; G., SAILAJA; NBV, LAKSHMI KUMARI; D., RADHA; Mariyam, Bibi; G., Srujana; MOHAMMED, ARSHAD The name of the applicant has been altered to **Shaik, A.B.; Kovelakonda, K.K.; RAMAVATHU, S.N.; M., N.D.; Aravelli, S.L.K.G.; V., S.; D. V., D.R.; G., S.; NBV, L.K.; D., R.; Mariyam, B.; G., S.; MOHAMMED, A.**

2021104073 Claudio Ruff Escobar ; Marcelo Ruiz Toledo; Tomás Flores Jaña; Cristián Cornejo Gaete; Roberto Cortés Cancino ; Alexis Matheu Pérez The name of the applicant has been altered to **Universidad Bernardo O'Higgins**

2021105145 Institute of Geology and Geophysics, Chinese Academy of Sciences No. 19, Beitucheng Western Road Chaoyang District Beijing 100029 CHINA The name of the applicant has been altered to **Institute of Geology and Geophysics, Chinese Academy of Sciences**

2021105255 Jiangsu Xuhuai Region Xuzhou Agriculture Science And Technol Institute The name of the applicant has been altered to **Xuzhou Institute of Agricultural Sciences in Jiangsu Xuhuai District**

2021212075 GARINO, Jonathan The name of the applicant has been altered to **GARINO, J.P.**

2021900546 Aussie Ag Products Pty Ltd The name of the applicant has been altered to **Chester Brown Industries Pty Ltd**

2021901678 BHP Billiton Limited The name of the applicant has been altered to **BHP Innovation Pty Ltd**

2021902192 Resource Conservation & Recycling Corp Pty Ltd The name of the applicant has been altered to **Resource Conservation and Recycling Corporation Pty Ltd**

2021902519 Voss, Murray The name of the applicant has been altered to **Sayfa R&D Pty Ltd**

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

Australian Patent/Patent Application 2018208625 in the name(s) of Mayerle, D.

## Applications Open to Public Inspection

**Name Index**

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

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**(71)** A&E Advanced Closure Systems, LLC
**(11)** AU-A-2021215153
**(21)** 2021215153 **(22)** 11.08.2021
**(54)** BONE PLATE HAVING A CONNECTOR AND A CONNECTOR FOR A SURGICAL LOOP
**(51)** Int. Cl.
***A61B 17/82*** ( 2006.01 )
***A61B 17/04*** ( 2006.01 )
***A61B 17/80*** ( 2006.01 )
***A61B 17/84*** ( 2006.01 )
***A61B 17/86*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017210022
**(72)** Goodwin Jr., Robert A.; Gephart, Matthew P.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Abbott Diabetes Care Inc.
**(11)** AU-A-2021215294
**(21)** 2021215294 **(22)** 13.08.2021
**(54)** Devices, systems, and methods associated with analyte monitoring devices and devices incorporating the same
**(51)** Int. Cl.
***A61B 5/157*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019200995
**(72)** Karan, Jai; Tan, Annie; Taub, Marc B.; Dunn, Timothy C.; Goldsmith, Joel; Neuhaus, Christine M.; Rossi, Stephen A.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Accenture Global Solutions Limited
**(11)** AU-A-2021200678
**(21)** 2021200678 **(22)** 03.02.2021
**(54)** LOCATION-BASED RISK ALERTS
**(51)** Int. Cl.
***G08B 31/00*** ( 2006.01 )
***G06Q 50/10*** ( 2012.01 )
***G08B 23/00*** ( 2006.01 )
***G08B 27/00*** ( 2006.01 )
**(31)** 62/978,575 **(32)** 19.02.20 **(33)** US
62/988,119 11.03.20 US
17/147,106 12.01.21 US
**(43)** 02.09.2021
**(72)** MCDOUGALL, Anthony Peter; SIMMONS, Michael John
**(74)** Murray Trento & Associates Pty Ltd

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**(71)** Acer Incorporated
**(11)** AU-A-2021200712
**(21)** 2021200712 **(22)** 04.02.2021
**(54)** Device and Method for Handling Physical Uplink Control Channel Collision
**(51)** Int. Cl.
***H04W 74/08*** ( 2009.01 )
***H04W 72/12*** ( 2009.01 )
**(31)** 62/976,357 **(32)** 14.02.20 **(33)** US
17/153,886 21.01.21 US
**(43)** 02.09.2021
**(72)** Lee, Chien-Min
**(74)** Griffith Hack

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**(71)** Acer Incorporated
**(11)** AU-A-2021215290
**(21)** 2021215290 **(22)** 13.08.2021
**(54)** Device and method for handling a reception
**(51)** Int. Cl.
***H04W 72/04*** ( 2009.01 )
***H04L 5/00*** ( 2006.01 )
***H04W 72/12*** ( 2009.01 )
***H04W 88/02*** ( 2009.01 )
**(43)** 02.09.2021
**(62)** 2020217415
**(72)** LO, Li-Chung; LEE, Chien-Min
**(74)** Griffith Hack

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**(71)** Allergan, Inc.
**(11)** AU-A-2021203665
**(21)** 2021203665 **(22)** 04.06.2021
**(54)** Fixed dose combination of brimonidine and timolol
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/08*** ( 2006.01 )
***A61K 31/498*** ( 2006.01 )
***A61K 31/5377*** ( 2006.01 )
***A61K 47/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016233125
**(72)** Jiao, Jim; Chang, Chin-Ming; Gore, Anuradha V.; Graham, Richard S.; Jordan, R. Scott; Neervannan, Sesha; Pujara, Chetan P.; Shen, Jie; Warner, Kevin S.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Allovate, LLC
**(11)** AU-A-2021217993
**(21)** 2021217993 **(22)** 16.08.2021
**(54)** TOOTHPASTE FOR DELIVERING ALLERGENS TO ORAL MUCOSA
**(51)** Int. Cl.
***A61Q 11/00*** ( 2006.01 )
***A61K 8/34*** ( 2006.01 )
***A61K 39/35*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019253826
**(72)** Nelson, Michael; Berglund, Erick
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** ALX Oncology Inc.
**(11)** AU-A-2021215151
**(21)** 2021215151 **(22)** 10.08.2021
**(54)** SIRP-alpha variant constructs and uses thereof
**(51)** Int. Cl.
***C07K 14/71*** ( 2006.01 )
***A61K 38/17*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016210755
**(72)** DEMING, Laura; GOODMAN, Corey; PONS, Jaume; SIM, Bang Janet; VRLJIC, Marija
**(74)** FB Rice Pty Ltd

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**(71)** AMADEUS S.A.S.
**(11)** AU-A-2020277255
**(21)** 2020277255 **(22)** 27.11.2020
**(54)** Method and system for camera assisted map and navigation
**(51)** Int. Cl.
***G01C 21/00*** ( 2006.01 )
***G01S 5/02*** ( 2010.01 )
**(31)** 20 01465 **(32)** 14.02.20 **(33)** FR
**(43)** 02.09.2021
**(72)** PARIDA, Swagat; SASIDHARAN, Renjith Karimattathil; RUDRESH, Ruthwik
**(74)** Griffith Hack

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**(71)** Amgen Inc.
**(11)** AU-A-2021215211
**(21)** 2021215211 **(22)** 12.08.2021
**(54)** Interleukin-2 muteins for the expansion of T-regulatory cells
**(51)** Int. Cl.
***C07K 14/55*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019264645
**(72)** Butz, Eric Alan; Thomson, Christy Ann; Gavin, Marc Alain; Foltz, Ian Nevin; Xia, Dong; Alcorn, Dina N.; Lim, Ai Ching; Ketchem, Randal Robert; Manchulenko, Kathy; Sekirov, Laura; Berry, Kelly Ann; De Imus, Cyr Clovis Chua; Agrawal, Neeraj Jagdish; Kannan, Gunasekaran; Li, Li
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Angel Group Co., Ltd.
**(11)** AU-A-2021200797
**(21)** 2021200797 **(22)** 09.02.2021
**(54)** Game token and method for manufacturing the same
**(51)** Int. Cl.
***G06K 19/04*** ( 2006.01 )
***G06K 7/10*** ( 2006.01 )
***G06K 19/07*** ( 2006.01 )
**(31)** 2020-023346 **(32)** 14.02.20 **(33)** JP
**(43)** 02.09.2021
**(72)** Shigeta, Yasushi
**(74)** Davies Collison Cave Pty Ltd

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## Applications Open to Public Inspection - Name Index cont'd

**(71)** Angel Group Co., Ltd.
**(11)** AU-A-2021215222
**(21)** 2021215222 **(22)** 12.08.2021
**(54)** Game management system
**(51)** Int. Cl.
***A63F 1/18*** ( 2006.01 )
***A63F 9/24*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020204077
**(72)** Shigeta, Yasushi
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Apple Inc.
**(11)** AU-A-2020239743
**(21)** 2020239743 **(22)** 24.09.2020
**(54)** User interfaces for workout content
**(51)** Int. Cl.
***A63B 71/06*** ( 2006.01 )
***A63B 24/00*** ( 2006.01 )
***G06Q 10/06*** ( 2012.01 )
***G06Q 50/20*** ( 2012.01 )
***H04M 1/00*** ( 2006.01 )
**(31)** PA 2020 70612 **(32)** 21.09.20 **(33)** DK
PA 2020 70613 21.09.20 DK
PA 2020 70615 21.09.20 DK
PA 2020 70616 21.09.20 DK
62/977,076 14.02.20 US
63/036,374 08.06.20 US
63/078,311 14.09.20 US
**(43)** 02.09.2021
**(72)** Devine, Lynne; Arney, Julie A.; Bedekar, Niharika Milind; Blahnik, Jay; Lareau, Brett L.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Apple Inc.
**(11)** AU-A-2020239748
**(21)** 2020239748 **(22)** 24.09.2020
**(54)** User interfaces for workout content
**(51)** Int. Cl.
***A63B 71/00*** ( 2006.01 )
***G06Q 10/06*** ( 2012.01 )
***G06Q 50/20*** ( 2012.01 )
***H04M 1/00*** ( 2006.01 )
**(31)** PA 2020 70612 **(32)** 21.09.20 **(33)** DK
PA 2020 70613 21.09.20 DK
PA 2020 70615 21.09.20 DK
PA 2020 70616 21.09.20 DK
62/977,076 14.02.20 US
63/036,374 08.06.20 US
63/078,311 14.09.20 US
**(43)** 02.09.2021
**(72)** Devine, Lynne; Arney, Julie A.; Bedekar, Niharika Milind; Blahnik, Jay; Lareau, Brett L.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Apple Inc.
**(11)** AU-A-2020239752
**(21)** 2020239752 **(22)** 24.09.2020
**(54)** User interfaces for workout content
**(51)** Int. Cl.
***A63B 24/00*** ( 2006.01 )
***A63B 71/06*** ( 2006.01 )
***G06F 3/01*** ( 2006.01 )
***G06Q 10/06*** ( 2012.01 )
**(31)** PA 2020 70612 **(32)** 21.09.20 **(33)** DK
PA 2020 70613 21.09.20 DK
PA 2020 70615 21.09.20 DK
PA 2020 70616 21.09.20 DK
62/977,076 14.02.20 US
63/036,374 08.06.20 US
63/078,311 14.09.20 US
**(43)** 02.09.2021
**(72)** Devine, Lynne; Arney, Julie A.; Bedekar, Niharika Milind; Blahnik, Jay; Lareau, Brett L.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Apple Inc.
**(11)** AU-A-2021215172
**(21)** 2021215172 **(22)** 11.08.2021
**(54)** Accelerated scrolling and selection
**(51)** Int. Cl.
***G06F 3/048*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2020223752
**(72)** ALONSO RUIZ, Marcos; LEMAY, Stephen O.; MAGAHERN, James; PATERSON, Toby C.; COFFMAN, Patrick L.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Applied Medical Resources Corporation
**(11)** AU-A-2021215161
**(21)** 2021215161 **(22)** 11.08.2021
**(54)** Wound retractor with multi-segment outer ring
**(51)** Int. Cl.
*A61B 17/00* ( 2006.01 )
***A61B 17/02*** ( 2006.01 )
***A61B 17/34*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016335864
**(72)** ALBRECHT, Jeremy J.; BECERRA, Matthew M.; NGUYEN, Eric
**(74)** Griffith Hack

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**(71)** AqueSys, Inc.
**(11)** AU-A-2021215139
**(21)** 2021215139 **(22)** 10.08.2021
**(54)** Manually adjustable intraocular flow regulation
**(51)** Int. Cl.
***A61B 17/34*** ( 2006.01 )
***A61F 9/007*** ( 2006.01 )
***A61M 5/168*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017439185
**(72)** HORVATH, Christopher; ROMODA, Laszlo O.; ROBINSON, Michael
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Aristocrat Technologies, Inc.
**(11)** AU-A-2021200958
**(21)** 2021200958 **(22)** 13.02.2021
**(54)** BOOST STAGE WITH METAMORPHIC GRAPHICAL ELEMENT
**(51)** Int. Cl.
***G07F 17/32*** ( 2006.01 )
***G06F 3/01*** ( 2006.01 )
***G06F 3/16*** ( 2006.01 )
***G06F 7/58*** ( 2006.01 )
**(31)** 16/790,548 **(32)** 13.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** UBERUAGA, Christmas; ENGLMAN, Allon
**(74)** Griffith Hack

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**(71)** Aristocrat Technologies Australia Pty Limited
**(11)** AU-A-2020239629
**(21)** 2020239629 **(22)** 21.09.2020
**(54)** GAMING DEVICE WITH MULTIPLE TRIGGERABLE RESPIN FEATURES
**(51)** Int. Cl.
***G07F 17/32*** ( 2006.01 )
**(31)** 2020900465 **(32)** 19.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** TRAN, Toan; AGGARWAL, Romit; O'SULLIVAN, Nicholas; SIDOTI, Alessandro; LIU, Andrew
**(74)** James & Wells Intellectual Property

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**(71)** Aristocrat Technologies Australia Pty Limited
**(11)** AU-A-2020244437
**(21)** 2020244437 **(22)** 29.09.2020
**(54)** GAMING DEVICE WITH MULTIPLE TRIGGERABLE RESPIN FEATURES
**(51)** Int. Cl.
***G07F 17/32*** ( 2006.01 )
***A63F 13/00*** ( 2014.01 )
**(31)** 2020900466 **(32)** 19.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** SIDOTI, Alessandro; TRAN, Toan; LIU, Andrew; O'SULLIVAN, Nicholas
**(74)** Griffith Hack

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**(71)** Aristocrat Technologies Australia Pty Limited
**(11)** AU-A-2021204417
**(21)** 2021204417 **(22)** 28.06.2021
**(54)** GAMING DEVICE WITH MULTIPLE TRIGGERABLE RESPIN FEATURES
**(51)** Int. Cl.
***G07F 17/32*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020239629
**(72)** Tran, Toan; Aggarwal, Romit; O'Sullivan, Nicholas; Sidoti, Alessandro; Liu, Andrew
**(74)** James & Wells Intellectual Property

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**(71)** Aristocrat Technologies Australia Pty Limited
**(11)** AU-A-2021215299
**(21)** 2021215299 **(22)** 13.08.2021
**(54)** A GAMING SYSTEM, A METHOD OF GAMING AND A JACKPOT CONTROLLER
**(51)** Int. Cl.
***G06Q 50/34*** ( 2012.01 )
***A63F 13/00*** ( 2014.01 )
**(43)** 02.09.2021
**(62)** 2019203475
**(72)** BRAMBLE, Paul Francis Jason
**(74)** Griffith Hack

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## Applications Open to Public Inspection - Name Index cont'd

**(71)** Aristocrat Technologies Australia Pty Ltd
**(11)** AU-A-2021215280
**(21)** 2021215280 **(22)** 13.08.2021
**(54)** Multi-Game Gaming Machine
**(51)** Int. Cl.
***G06F 17/00*** ( 2019.01 )
***A63F 5/04*** ( 2006.01 )
***G07F 5/00*** ( 2006.01 )
***G07F 17/32*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019210671
**(72)** Leach, Martin; Bryant, Natalie
**(74)** James & Wells Intellectual Property

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**Arkansas Children's Research Institute see Bioventures, LLC**
**(21)** 2021215156

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**(71)** Aroma System S.r.l.
**(11)** AU-A-2021200949
**(21)** 2021200949 **(22)** 12.02.2021
**(54)** Capsules transport system with interchangeable housings
**(51)** Int. Cl.
***B65G 17/06*** ( 2006.01 )
***B29C 45/00*** ( 2006.01 )
***B29C 51/00*** ( 2006.01 )
***B65B 29/02*** ( 2006.01 )
***B65D 85/804*** ( 2006.01 )
**(31)** 102020000002923 **(32)** 13.02.20 **(33)** IT
**(43)** 02.09.2021
**(72)** RAPPARINI, Gino; GENERALI, Maurizio
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Arysta LifeScience Benelux SPRL
**(11)** AU-A-2021215268
**(21)** 2021215268 **(22)** 13.08.2021
**(54)** Improved tuber storage
**(51)** Int. Cl.
***A23B 7/154*** ( 2006.01 )
***A01N 27/00*** ( 2006.01 )
***A01N 65/00*** ( 2009.01 )
**(43)** 02.09.2021
**(62)** 2019201721
**(72)** PIROTTE, Alan
**(74)** Spruson & Ferguson

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**(71)** Asbestos Reports Australia Pty Limited
**(11)** AU-A-2021204427
**(21)** 2021204427 **(22)** 29.06.2021
**(54)** DATA INTEGRITY MANAGEMENT IN A COMPUTER NETWORK
**(51)** Int. Cl.
***G06F 16/29*** ( 2019.01 )
***G06F 21/60*** ( 2013.01 )
***G06F 21/64*** ( 2013.01 )
***G06N 20/00*** ( 2019.01 )
***G06Q 50/08*** ( 2012.01 )
***H04W 4/021*** ( 2018.01 )
*G06F 16/587* ( 2019.01 )
*G06F 16/909* ( 2019.01 )
*G06F 21/32* ( 2013.01 )
*G06N 20/10* ( 2019.01 )
*H04L 29/08* ( 2006.01 )
**(31)** 2020902523 **(32)** 21.07.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Dobrow, Wal
**(74)** FORWARD INTELLECTUAL PROPERTY PTY LTD

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**(71)** AstraZeneca AB
**(11)** AU-A-2021215150
**(21)** 2021215150 **(22)** 10.08.2021
**(54)** METHODS OF TREATING HEART FAILURE WITH REDUCED EJECTION FRACTION WITH DAPAGLIFLOZIN
**(51)** Int. Cl.
***A61K 31/70*** ( 2006.01 )
***A61K 31/351*** ( 2006.01 )
***A61K 45/06*** ( 2006.01 )
***A61P 9/04*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020202887
**(72)** Langkilde, Anna Maria
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Axogen Corporation
**(11)** AU-A-2021215200
**(21)** 2021215200 **(22)** 12.08.2021
**(54)** Nerve culture system
**(51)** Int. Cl.
***G01N 24/08*** ( 2006.01 )
***A61B 5/055*** ( 2006.01 )
***G01N 33/50*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016267075
**(72)** Deister, Curt; Tajdaran, Kasra
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Axogen Corporation
**(11)** AU-A-2021215201
**(21)** 2021215201 **(22)** 12.08.2021
**(54)** Nerve culture system
**(51)** Int. Cl.
***G01N 24/08*** ( 2006.01 )
***A61B 5/055*** ( 2006.01 )
***G01N 33/50*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016267075
**(72)** Deister, Curt; Tajdaran, Kasra
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Bayer CropScience AG
**(11)** AU-A-2021215215
**(21)** 2021215215 **(22)** 12.08.2021
**(54)** Method for operating a harvesting machine with the aid of a plant growth model
**(51)** Int. Cl.
***A01D 41/127*** ( 2006.01 )
***A01B 79/00*** ( 2006.01 )
***A01D 43/08*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016335176
**(72)** Peters, Ole
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Baylis Medical Company Inc.
**(11)** AU-A-2021215216
**(21)** 2021215216 **(22)** 12.08.2021
**(54)** Epicardial Access System and Methods
**(51)** Int. Cl.
***A61B 1/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016319002
**(72)** Abou-Marie, Rund; Miller, Brock; Urbanski, John Paul
**(74)** James & Wells Intellectual Property

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**(71)** BD Kiestra B.V.
**(11)** AU-A-2021215255
**(21)** 2021215255 **(22)** 13.08.2021
**(54)** Automated method and system for obtaining and preparing microorganism sample for both identification and antibiotic susceptibility tests
**(51)** Int. Cl.
***G01N 1/38*** ( 2006.01 )
***G01N 35/00*** ( 2006.01 )
***G01N 35/10*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016267580
**(72)** Hansen, Timothy R.; Holtz, Rick; Kleefstra, Martijn; Marcelpoil, Raphael Rodolphe; Pierpoint, Rick; Pohl, Brent Ronald; Shedlosky, Alyssa; Shindledecker, Scott; Skevington, Edward; Smith, Kerry Lynn; Wiles, Timothy
**(74)** FB Rice Pty Ltd

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**(71)** Becton, Dickinson and Company
**(11)** AU-A-2021215164
**(21)** 2021215164 **(22)** 11.08.2021
**(54)** Needle capture safety interlock for catheter
**(51)** Int. Cl.
***A61M 5/32*** ( 2006.01 )
***A61M 25/06*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019268105
**(72)** Harding, Weston; Stokes, John; Wang, Aaron
**(74)** FB Rice Pty Ltd

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**(71)** Becton Dickinson and Company Limited
**(11)** AU-A-2021215229
**(21)** 2021215229 **(22)** 12.08.2021
**(54)** System for closed transfer of fluids and membrane arrangements for use thereof
**(51)** Int. Cl.
***A61J 1/14*** ( 2006.01 )
***A61J 1/20*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019261785
**(72)** Sanders, Laurie; Yevmenenko, Yan; Cancellieri, Jude; Pohl, Olaf Garcia
**(74)** FB Rice Pty Ltd

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**(71)** BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD.
**(11)** AU-A-2021218001
**(21)** 2021218001 **(22)** 16.08.2021
**(54)** Systems and methods for providing a navigation route
**(51)** Int. Cl.
***G08G 1/00*** ( 2006.01 )

## Applications Open to Public Inspection - Name Index cont'd

**(43)** 02.09.2021
**(62)** 2017400606
**(72)** Liu, Bo; Zhao, Wei
**(74)** Shelston IP Pty Ltd

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**(71)** Beijing Geekplus Technology Co. Ltd.
**(11)** AU-A-2021215145
**(21)** 2021215145 **(22)** 10.08.2021
**(54)** System, device, and method for item sorting and conveying
**(51)** Int. Cl.
***B07C 3/08*** ( 2006.01 )
***B65G 35/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017434612
**(72)** HAN, Hao
**(74)** FB Rice Pty Ltd

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**(71)** Beijing Geekplus Technology Co. Ltd.
**(11)** AU-A-2021215147
**(21)** 2021215147 **(22)** 10.08.2021
**(54)** Parcel sorting platform, system and method, and data processing for item sorting system
**(51)** Int. Cl.
***B07C 3/00*** ( 2006.01 )
***B07C 3/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017434615
**(72)** HAN, Hao
**(74)** FB Rice Pty Ltd

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**(71)** Beth Israel Deaconess Medical Center; Brigham and Women's Hospital, Inc.; Board of Trustees of the Leland Stanford Junior University
**(11)** AU-A-2021215160
**(21)** 2021215160 **(22)** 11.08.2021
**(54)** System and method for cell levitation and monitoring
**(51)** Int. Cl.
***G01N 33/50*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015222978
**(72)** Demirci, Utkan; Ghiran, Ionita; Tasoglu, Savas; Davis, Ronald W.; Steinmetz, Lars; Durmus, Naside Gozde; Tekin, Huseyin Cumhur
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** BioCarbon Engineering Ltd.
**(11)** AU-A-2020201764
**(21)** 2020201764 **(22)** 11.03.2020
**(54)** PLANTING SYSTEM HAVING OSCILLATING SEED AGITATOR
**(51)** Int. Cl.
***A01C 7/16*** ( 2006.01 )
***A01C 7/08*** ( 2006.01 )
***B64C 39/02*** ( 2006.01 )
**(31)** 16/790,504 **(32)** 13.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** BIAN, Shuning; LEONARD, Jeremie; REDRUP, Hannah
**(74)** Collison & Co

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**(71)** Bioventures, LLC; Arkansas Children's Research Institute
**(11)** AU-A-2021215156
**(21)** 2021215156 **(22)** 11.08.2021
**(54)** ANTI-ACETAMINOPHEN ANTIBODIES AND ACETAMINOPHEN PROTEIN ADDUCTS
**(51)** Int. Cl.
***C07K 19/00*** ( 2006.01 )
***G01N 33/53*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015358373
**(72)** Hinson, Jack; James, Laura; Roberts, Dean W.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** BISSELL Inc.
**(11)** AU-A-2021201094
**(21)** 2021201094 **(22)** 19.02.2021
**(54)** SURFACE CLEANING APPARATUS WITH DAMP CLEANING
**(51)** Int. Cl.
***A47L 11/20*** ( 2006.01 )
***A47L 9/04*** ( 2006.01 )
**(31)** 62/978,503 **(32)** 19.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** PRUIETT, Jason W.
**(74)** Griffith Hack

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**(71)** Blackhawk Network, Inc.
**(11)** AU-A-2021218017
**(21)** 2021218017 **(22)** 16.08.2021
**(54)** Systems and methods for providing a transaction card package assembly including sample product or service
**(51)** Int. Cl.
***G06K 19/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019216628
**(72)** Saverio, Spagnolie Amie Miller
**(74)** Davies Collison Cave Pty Ltd

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**Board of Trustees of the Leland Stanford Junior University see Beth Israel Deaconess Medical Center**
**(21)** 2021215160

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**(71)** Breville Pty Limited
**(11)** AU-A-2021215220
**(21)** 2021215220 **(22)** 12.08.2021
**(54)** Apparatus and method for frothing milk
**(51)** Int. Cl.
***A47J 43/00*** ( 2006.01 )
***A47J 27/00*** ( 2006.01 )
***A47J 31/00*** ( 2006.01 )
***G05D 23/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019271885
**(72)** GRASSIA, Robert; McCOLL, Nicholas James; CORKIN, Daniel Robert
**(74)** Spruson & Ferguson

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**Brigham and Women's Hospital, Inc. see Beth Israel Deaconess Medical Center**
**(21)** 2021215160

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**British Columbia Cancer Agency Branch see The University of British Columbia**
**(21)** 2021215137

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**(71)** Broadridge Financial Solutions, Inc.
**(11)** AU-A-2021215303
**(21)** 2021215303 **(22)** 14.08.2021
**(54)** DATABASE-CENTERED COMPUTER NETWORK SYSTEMS AND COMPUTER-IMPLEMENTED METHODS FOR CRYPTOGRAPHICALLY-SECURED DISTRIBUTED DATA MANAGEMENT
**(51)** Int. Cl.
***G06F 21/62*** ( 2013.01 )
***G06F 16/25*** ( 2019.01 )
***G06F 16/27*** ( 2019.01 )
**(43)** 02.09.2021
**(62)** 2019204923
**(72)** Hogan, John; Dampeer, Lyell; Venkatraman, Laxmikanth; Mayadas, Vijay; Rosch, Patricia; Gullotta, John; Shaik, Ashfaq; Shaik, Saheer; Barakat, Horacio; Seshagiri, Kishore; Wiegand, James; Maiellano, Elizabeth; Sampath, Rekha
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Brookbar Holdings Pty Ltd
**(11)** AU-A-2020201133
**(21)** 2020201133 **(22)** 17.02.2020
**(54)** PREPARATION FOR TREATMENT OF COLIC
**(51)** Int. Cl.
***A23F 3/18*** ( 2006.01 )
***A23F 3/40*** ( 2006.01 )
***A61K 9/00*** ( 2006.01 )
***A61K 36/28*** ( 2006.01 )
***A61K 36/534*** ( 2006.01 )
***A61P 1/06*** ( 2006.01 )
***A61P 1/14*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Crawford, Ian
**(74)** Spruson & Ferguson

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**(71)** Buildsafe Australia IP Pty Ltd
**(11)** AU-A-2021215192
**(21)** 2021215192 **(22)** 11.08.2021
**(54)** Temporary Stairway with Void Cover
**(51)** Int. Cl.
***E04F 11/04*** ( 2006.01 )
***E04G 21/32*** ( 2006.01 )
***E06C 1/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015258170
**(72)** Edwards, Grant; Thompson, Tim
**(74)** Morcom Pernat

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**(71)** Caris MPI, Inc.
**(11)** AU-A-2021215104
**(21)** 2021215104 **(22)** 09.08.2021
**(54)** MOLECULAR PROFILING FOR CANCER
**(51)** Int. Cl.

## Applications Open to Public Inspection - Name Index cont'd

***C12Q 1/68*** ( 2018.01 )
***A61K 31/335*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***C40B 30/04*** ( 2006.01 )
***G01N 33/00*** ( 2006.01 )
***G01N 33/50*** ( 2006.01 )
***G01N 33/53*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016226210
**(72)** Spetzler, David; Abbott, Brian; Ellis, Philip; Reddy, Sandeep
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** CFPH, LLC
**(11)** AU-A-2021215205
**(21)** 2021215205 **(22)** 12.08.2021
**(54)** APPARATUS FOR PARI-MUTUEL RACING GAME WITH FINISH ORDER BETTING
**(51)** Int. Cl.
***A63F 13/00*** ( 2014.01 )
***G06F 17/00*** ( 2019.01 )
***G06Q 10/00*** ( 2012.01 )
**(43)** 02.09.2021
**(62)** 2019226161
**(72)** Alderucci, Dean P.; Gelman, Geoffrey M.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2021202879
**(21)** 2021202879 **(22)** 18.01.2021
**(54)** Migration of a desktop workload
**(51)** Int. Cl.
***G06F 9/44*** ( 2018.01 )
**(31)** 16/794,372 **(32)** 19.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** VAN ROTTERDAM, Jeroen Mattijs; HOUGH, Paul
**(74)** Spruson & Ferguson

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**(71)** City of Hope
**(11)** AU-A-2021215122
**(21)** 2021215122 **(22)** 10.08.2021
**(54)** MEDITOPES AND MEDITOPE-BINDING ANTIBODIES AND USES THEREOF
**(51)** Int. Cl.
***C07K 4/00*** ( 2006.01 )
***C07K 7/00*** ( 2006.01 )
***C07K 16/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019283789
**(72)** Williams, John C.; Donaldson, Joshua Michael; Horne, David A.; Ma, Yuelong; Zer, Cindy; Bzymek, Krzysztof; Avery, Kendra Nicole; Chang, Heng Wei; Xie, Jun
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Clawson, J.
**(11)** AU-A-2021217991
**(21)** 2021217991 **(22)** 16.08.2021
**(54)** Picture/video messaging system for emergency response
**(51)** Int. Cl.
***H04M 3/50*** ( 2006.01 )
***H04M 3/51*** ( 2006.01 )
***H04M 11/00*** ( 2006.01 )
***H04M 11/04*** ( 2006.01 )
***H04W 4/90*** ( 2018.01 )
**(43)** 02.09.2021
**(62)** 2017247146
**(72)** Clawson, Jeffrey
**(74)** Griffith Hack

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**(71)** ConMed Corporation
**(11)** AU-A-2021215217
**(21)** 2021215217 **(22)** 12.08.2021
**(54)** Hip access portal saver
**(51)** Int. Cl.
***A61B 17/34*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018386178
**(72)** WILLARD, Benjamin; STUBKJAER, Eric; KEHOE, Thomas; QUINTERO, Kevin
**(74)** Griffith Hack

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**(71)** ConMed Corporation
**(11)** AU-A-2021215258
**(21)** 2021215258 **(22)** 13.08.2021
**(54)** Multi-barrel drill guide
**(51)** Int. Cl.
***A61B 17/17*** ( 2006.01 )
***A61B 17/04*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018280029
**(72)** Thibodeau, Robert A.; Summitt, Matthew C.; Alfonso, Gregory A.; Rofman, Robert A.; Calvert, Erika T.
**(74)** Griffith Hack

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**(71)** Connected Group Australia Pty Ltd
**(11)** AU-A-2021218008
**(21)** 2021218008 **(22)** 16.08.2021
**(54)** Power Outlet Socket Sensor Switch
**(51)** Int. Cl.
***H01H 35/00*** ( 2006.01 )
***H01H 47/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019210501
**(72)** LUCANTONIO, Dean
**(74)** Wallington-Dummer

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**(71)** Cosmax NBT, Inc.; Cosmax NS, Inc.
**(11)** AU-A-2020294219
**(21)** 2020294219 **(22)** 21.05.2020
**(54)** Composition for the prevention or treatment of respiratory diseases caused by fine dust comprising Agastache rugosa and licorice extract
**(51)** Int. Cl.
***A61K 36/532*** ( 2006.01 )
***A61K 36/484*** ( 2006.01 )
***A61P 11/00*** ( 2006.01 )
***A61P 11/14*** ( 2006.01 )
***A61P 29/00*** ( 2006.01 )
**(31)** 10-2020-0020369 **(32)** 19.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** GEUM, Jeong Ho; KIM, Hye Rim; KIM, Jin Hak; CHOI, Su Young
**(74)** Allens Patent & Trade Mark Attorneys

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**Cosmax NS, Inc. see Cosmax NBT, Inc.**
**(21)** 2020294219

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**(71)** Coupang Corp.
**(11)** AU-A-2020267213
**(21)** 2020267213 **(22)** 20.07.2020
**(54)** Electronic apparatus and operation method thereof
**(51)** Int. Cl.
***G06Q 10/08*** ( 2012.01 )
**(31)** 10-2020-0019060 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** KIM, Da Young; JEON, Sang Min; JEONG, Jin Won; JIN, Kyeong Suk; PARK, Woo Jung
**(74)** Griffith Hack

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**(71)** Coupang Corp.
**(11)** AU-A-2020281049
**(21)** 2020281049 **(22)** 20.07.2020
**(54)** Electronic apparatus and operation method thereof
**(51)** Int. Cl.
***G06Q 50/28*** ( 2012.01 )
**(31)** 10-2020-0019089 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** HONG, Sun Young; JEON, Sang Min; KIM, So Hee; SONG, Myung Soo; JUNG, Se Hwan
**(74)** Griffith Hack

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**(71)** Coupang Corp.
**(11)** AU-A-2020286264
**(21)** 2020286264 **(22)** 24.07.2020
**(54)** Electronic device for inventory management and its operation method
**(51)** Int. Cl.
***G06Q 50/28*** ( 2012.01 )
**(31)** 10-2020-0019123 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** YANG, Byung Suk; JANG, Dae Yong; KIM, So Hee; HONG, Seon Sook; SONG, Myung Soo
**(74)** Griffith Hack

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**(71)** Coupang Corp.
**(11)** AU-A-2020286265
**(21)** 2020286265 **(22)** 17.07.2020
**(54)** Electronic apparatus for conveying item and operating method thereof
**(51)** Int. Cl.
***G06Q 50/28*** ( 2012.01 )
**(31)** 10-2020-0019036 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** JUNG, Hyun Yop; KANG, Kyung Tae; JANG, Dae Yong; KIM, Da Young; OH, Jeong Seok
**(74)** Griffith Hack

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## Applications Open to Public Inspection - Name Index cont'd

**(71)** Daifuku Co., Ltd.
**(11)** AU-A-2021200384
**(21)** 2021200384 **(22)** 21.01.2021
**(54)** CONVEYOR
**(51)** Int. Cl.
***B65G 47/24*** ( 2006.01 )
**(31)** 2020-025745 **(32)** 19.02.20 **(33)** JP
**(43)** 02.09.2021
**(72)** FUJIO, Yoshihiko
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Dalian University of Technology
**(11)** AU-A-2020323950
**(21)** 2020323950 **(22)** 17.02.2020
**(54)** Hybrid dynamically installed anchor with a folding shank and control method for keep anchor verticality during free fall in water
**(51)** Int. Cl.
***B63B 21/24*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** LIU, Jun; HAN, Congcong; WANG, Xu
**(74)** FOUNDRY INTELLECTUAL PROPERTY PTY LTD

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**(71)** DataInfoCom USA, Inc.
**(11)** AU-A-2021200862
**(21)** 2021200862 **(22)** 11.02.2021
**(54)** SYSTEMS AND METHODS FOR PROCESSING CLAIMS
**(51)** Int. Cl.
***G06Q 40/08*** ( 2012.01 )
**(31)** 62/976,191 **(32)** 13.02.20 **(33)** US
63/085,963 30.09.20 US
**(43)** 02.09.2021
**(72)** Wang, Wensu; Wang, Chun; Wei, Zhiyong; Cheng, Wanli; Gao, Kuikui; Sun, Yuhao; Nazir, Mubbashir; Thielke, Rick
**(74)** Acacia Law

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**(71)** Dexcom, Inc.
**(11)** AU-A-2021215191
**(21)** 2021215191 **(22)** 11.08.2021
**(54)** Systems and methods for remote and host monitoring communications
**(51)** Int. Cl.
***A61B 5/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019257401
**(72)** MAHALINGAM, Aarthi; CABRERA Jr., Esteban; DATTARAY, Basab; DRAEGER, Rian; DUNN, Laura J.; ESCOBAR, Derek James; HALL, Thomas; HAMPAPURAM, Hari; KAMATH, Apurv Ullas; KOHLER, Katherine Yerre; MAYOU, Phil; MENSINGER, Michael Robert; MOORE, Michael Levozier; PAL, Andrew Attila; POLYTARIDIS, Nicholas; REIHMAN, Eli; SMITH, Brian Christopher
**(74)** FB Rice Pty Ltd

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**(71)** Dolby International AB
**(11)** AU-A-2021215249
**(21)** 2021215249 **(22)** 13.08.2021
**(54)** Backward-compatible integration of harmonic transposer for high frequency reconstruction of audio signals
**(51)** Int. Cl.
***G06F 17/10*** ( 2006.01 )
***G10L 19/02*** ( 2013.01 )
***G10L 19/22*** ( 2013.01 )
***G10L 19/24*** ( 2013.01 )
***G10L 19/26*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2019222906
**(72)** Villemoes, Lars; Purnhagen, Heiko; Ekstrand, Per
**(74)** Shelston IP Pty Ltd.

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**(71)** Eddington, G.
**(11)** AU-A-2020201132
**(21)** 2020201132 **(22)** 17.02.2020
**(54)** Opposing Torque Dynamic Clutch
**(51)** Int. Cl.
***F16H 3/58*** ( 2006.01 )
***F16H 3/00*** ( 2006.01 )
***F16H 3/44*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Eddington, Graeme John
**(74)** WRAYS PTY LTD

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**(71)** ELEMENT, INC.
**(11)** AU-A-2021215190
**(21)** 2021215190 **(22)** 11.08.2021
**(54)** Methods, Systems, and Media for detecting Spoofing in Mobile Authentication
**(51)** Int. Cl.
***G01S 7/539*** ( 2006.01 )
***G06K 9/00*** ( 2006.01 )
***G06K 9/46*** ( 2006.01 )
***G06K 9/52*** ( 2006.01 )
***G06Q 30/02*** ( 2012.01 )
**(43)** 02.09.2021
**(62)** 2018334318
**(72)** LECUN, Yann; PEROLD, Adam; LV, Fengjun; GOYAL, Dushyant; WANG, Yang
**(74)** FB Rice Pty Ltd

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**(71)** EPTA S.P.A.
**(11)** AU-A-2021200889
**(21)** 2021200889 **(22)** 11.02.2021
**(54)** VAPOUR COMPRESSION REFRIGERATION SYSTEM AND METHOD OF OPERATING SUCH A SYSTEM
**(51)** Int. Cl.
***F25B 9/00*** ( 2006.01 )
***F25B 1/00*** ( 2006.01 )
***F25B 41/20*** ( 2021.01 )
**(31)** 102020000003019 **(32)** 14.02.20 **(33)** IT
**(43)** 02.09.2021
**(72)** CAVALLERI, Paolo; DE BONA, Mario; BORTOLUZZI, Davide; MAZZOLA, Daniele
**(74)** Murray Trento & Associates Pty Ltd

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**(71)** Esculon, LLC
**(11)** AU-A-2021215257
**(21)** 2021215257 **(22)** 13.08.2021
**(54)** Devices and methods for managing chest drainage
**(51)** Int. Cl.
***A61M 27/00*** ( 2006.01 )
***A61M 1/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017228404
**(72)** Luxon, Evan S.; Burnett, David R.; Preston, Randy; Coughlin, Ryan; Ziegler, Mark; Wallin, Derek
**(74)** Griffith Hack

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**(71)** Esdec B.V.
**(11)** AU-A-2021200427
**(21)** 2021200427 **(22)** 22.01.2021
**(54)** SYSTEM AND METHOD FOR MOUNTING A SOLAR PANEL ONTO A SUBSTANTIALLY FLAT MOUNTING SURFACE
**(51)** Int. Cl.
***H02S 20/24*** ( 2014.01 )
***H02S 20/10*** ( 2014.01 )
***H02S 20/30*** ( 2014.01 )
***H02S 30/20*** ( 2014.01 )
**(31)** 20157504.0 **(32)** 14.02.20 **(33)** EP
**(43)** 02.09.2021
**(72)** GOORMAN, Johannes Sander; SMIT, Maarten Alexander; DE GRAAF, Jan-Floris
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Exciva GMBH; Vepachedu, S.
**(11)** AU-A-2021215274
**(21)** 2021215274 **(22)** 13.08.2021
**(54)** Targeted drug rescue with novel compositions, combinations, and methods thereof
**(51)** Int. Cl.
***A61K 31/135*** ( 2006.01 )
***A61K 31/138*** ( 2006.01 )
***A61K 31/215*** ( 2006.01 )
***A61K 31/485*** ( 2006.01 )
***A61P 25/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018261654
**(72)** Vepachedu, Sreenivasarao; Moebius, Hans J.; Bespalov, Anton
**(74)** Shelston IP Pty Ltd.

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**(71)** Eximis Surgical Inc.
**(11)** AU-A-2021218005
**(21)** 2021218005 **(22)** 16.08.2021
**(54)** Electrosurgical device and methods
**(51)** Int. Cl.
***A61B 18/12*** ( 2006.01 )
*A61B 18/00* ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016323319
**(72)** GILBERT, James A.; RUPP, Steven C.; GREGG, William N.; JOHNSON, Kristin D.; JOHNSON, Dirk
**(74)** Spruson & Ferguson

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**(71)** Firebrick Pharma Limited
**(11)** AU-A-2021203846
**(21)** 2021203846 **(22)** 10.06.2021

## Applications Open to Public Inspection - Name Index cont'd

**(54)** VIRUCIDAL FORMULATIONS CONTAINING POVIDONE-IODINE
**(51)** Int. Cl.
***A01N 59/12*** ( 2006.01 )
***A01P 1/00*** ( 2006.01 )
***A61K 9/00*** ( 2006.01 )
***A61K 9/08*** ( 2006.01 )
***A61K 31/045*** ( 2006.01 )
***A61K 31/79*** ( 2006.01 )
***A61K 33/18*** ( 2006.01 )
***A61K 47/02*** ( 2006.01 )
***A61K 47/10*** ( 2017.01 )
***A61P 31/04*** ( 2006.01 )
***A61P 31/14*** ( 2006.01 )
***A61P 31/16*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Molloy, Peter; Tucker, Simon; Goodall, Stephen
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Fisher & Paykel Healthcare Limited
**(11)** AU-A-2021215123
**(21)** 2021215123 **(22)** 10.08.2021
**(54)** Flexible mask coupling
**(51)** Int. Cl.
***A61M 16/06*** ( 2006.01 )
***A61M 16/08*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019219807
**(72)** Salmon, Andrew Paul Maxwell; Huddart, Brett John
**(74)** AJ PARK

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**(71)** FlipTix, Inc.
**(11)** AU-A-2021215253
**(21)** 2021215253 **(22)** 13.08.2021
**(54)** System and method for providing a tertiary market for used tickets
**(51)** Int. Cl.
***G07B 15/00*** ( 2011.01 )
***G06Q 10/02*** ( 2012.01 )
***G06Q 30/02*** ( 2012.01 )
**(43)** 02.09.2021
**(62)** 2019268122
**(72)** SIEGEL, Seth
**(74)** FB Rice Pty Ltd

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**(71)** Forma Therapeutics, Inc.
**(11)** AU-A-2021215141
**(21)** 2021215141 **(22)** 10.08.2021
**(54)** Pyridin-2(1h)-one quinolinone derivatives as mutant-isocitrate dehydrogenase inhibitors
**(51)** Int. Cl.
***C07D 401/12*** ( 2006.01 )
***A61K 31/4704*** ( 2006.01 )
***A61K 31/4709*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07D 401/14*** ( 2006.01 )
***C07D 471/04*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019283765
**(72)** Ashwell, Susan; Campbell, Ann-Marie; Caravella, Justin Andrew; Diebold, R. Bruce; Ericsson, Anna; Gustafson, Gary; Lancia Jr., David R.; Lin, Jian; Lu, Wei; Wang, Zhongguo
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
**(11)** AU-A-2021215252
**(21)** 2021215252 **(22)** 13.08.2021
**(54)** Audio encoder, audio decoder, method for encoding an audio signal and method for decoding an encoded audio signal
**(51)** Int. Cl.
***G10L 19/02*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2019203173
**(72)** EDLER, Bernd; HELMRICH, Christian; NEUENDORF, Max; SCHUBERT, Benjamin
**(74)** Griffith Hack

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**(71)** FTR Labs Pty Ltd
**(11)** AU-A-2021215231
**(21)** 2021215231 **(22)** 12.08.2021
**(54)** Method and system for automatically diarising a sound recording
**(51)** Int. Cl.
***G10L 17/02*** ( 2013.01 )
***G10L 17/04*** ( 2013.01 )
***G10L 17/06*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2017294791
**(72)** Ghaemmaghami, Houman; Kalantari, Shahram; Dean, David; Sridharan, Sridha
**(74)** HopgoodGanim

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**(71)** FWP IP APS
**(11)** AU-A-2021215272
**(21)** 2021215272 **(22)** 13.08.2021
**(54)** Pharmaceutical composition containing dimethyl fumarate for administration at a low daily dose
**(51)** Int. Cl.
***A61K 9/28*** ( 2006.01 )
***A61K 31/225*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019268052
**(72)** GALETZKA, Christin; RUNDFELDT, Chris; RUPP, Roland; ANDERSEN, Peder M.
**(74)** FB Rice Pty Ltd

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**(71)** Genentech, Inc.
**(11)** AU-A-2021215166
**(21)** 2021215166 **(22)** 11.08.2021
**(54)** Anti-HER2 antibodies and immunoconjugates
**(51)** Int. Cl.
***C07K 16/32*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015314954
**(72)** CHEN, Xiaocheng; DENNIS, Mark; JUNUTULA, Jagath Reddy; PHILLIPS, Gail Lewis; PILLOW, Thomas Harden; SLIWKOWSKI, Mark X.
**(74)** Griffith Hack

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**(71)** Genentech, Inc.
**(11)** AU-A-2021215189
**(21)** 2021215189 **(22)** 11.08.2021
**(54)** Antibodies and methods of use
**(51)** Int. Cl.
***C07K 16/18*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***C07K 14/71*** ( 2006.01 )
***C07K 16/28*** ( 2006.01 )
***C07K 16/46*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019204128
**(72)** CHEN, Yongmei; ERNST, James; KIM, Hok Seon; SONODA, Junichiro; SPIESS, Christoph; STAWICKI, Scott; WU, Yan
**(74)** Griffith Hack

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**(71)** Geopyörä Oy
**(11)** AU-A-2020294352
**(21)** 2020294352 **(22)** 30.12.2020
**(54)** TEST ARRANGEMENT AND METHOD FOR TESTING BREAKAGE AND MECHANICAL PROPERTIES OF ROCK PARTICLES
**(51)** Int. Cl.
***G01N 3/08*** ( 2006.01 )
***B02C 4/02*** ( 2006.01 )
***B02C 4/32*** ( 2006.01 )
***B02C 25/00*** ( 2006.01 )
***G01M 7/00*** ( 2006.01 )
**(31)** PCT/ **(32)** 18.02.20 **(33)** IB FI2020/050100
**(43)** 02.09.2021
**(72)** de Paiva Bueno, Marcos; Torvela, Janne; Chandramohan, Rajiv
**(74)** Griffith Hack

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**Glass Technology Services Limited see Swansea University**
**(21)** 2021215296

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**(71)** Google LLC
**(11)** AU-A-2021215213
**(21)** 2021215213 **(22)** 12.08.2021
**(54)** PLANE WAVE DUAL BASIS FOR QUANTUM SIMULATION
**(51)** Int. Cl.
***G06F 17/14*** ( 2006.01 )
***G06F 17/00*** ( 2019.01 )
***G06F 30/20*** ( 2020.01 )
**(43)** 02.09.2021
**(62)** 2018270115
**(72)** Babbush, Ryan
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** HBI Branded Apparel Enterprises, LLC
**(11)** AU-A-2021215169
**(21)** 2021215169 **(22)** 11.08.2021
**(54)** Upper and lower torso garments having an improved band
**(51)** Int. Cl.
***A41C 3/00*** ( 2006.01 )
***A41B 9/14*** ( 2006.01 )
***A41C 3/12*** ( 2006.01 )
***A41C 5/00*** ( 2006.01 )

## Applications Open to Public Inspection - Name Index cont'd

***A41F 9/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016315456
**(72)** Abbott, Michael D.; Warren, Roger D.; L'italien, Reginald
**(74)** RnB IP Pty Ltd

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**(71)** Hensoldt Sensors GmbH
**(11)** AU-A-2021200829
**(21)** 2021200829 **(22)** 10.02.2021
**(54)** Apparatus and Method to Improve a Situational Awareness of a Pilot or Driver
**(51)** Int. Cl.
***F41H 11/02*** ( 2006.01 )
***F41H 13/00*** ( 2006.01 )
**(31)** 20 157 634.5 **(32)** 17.02.20 **(33)** EP
**(43)** 02.09.2021
**(72)** Assel, Michael; Thum-Jaeger, Andrea
**(74)** HopgoodGanim

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**(71)** Hero Health, Inc.
**(11)** AU-A-2021215182
**(21)** 2021215182 **(22)** 11.08.2021
**(54)** NETWORKED MANAGEMENT OF DISPENSABLES
**(51)** Int. Cl.
***G16H 20/13*** ( 2018.01 )
***A61J 7/04*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019206109
**(72)** AKDOGAN, Kutadgu; VEPURI, Kalyan C.; VON HEIFNER, Christian
**(74)** AJ PARK

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**(71)** Huawei Technologies Co., Ltd.
**(11)** AU-A-2021215138
**(21)** 2021215138 **(22)** 10.08.2021
**(54)** METHOD FOR CONFIGURING TRANSMISSION DIRECTION OF TIME-FREQUENCY RESOURCE, AND APPARATUS
**(51)** Int. Cl.
***H04W 72/04*** ( 2009.01 )
**(43)** 02.09.2021
**(62)** 2017410632
**(72)** Zhang, Lili; Li, Guorong; Zhuang, Hongcheng
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Huawei Technologies Co., Ltd.
**(11)** AU-A-2021215154
**(21)** 2021215154 **(22)** 11.08.2021
**(54)** COMMUNICATION DEVICE
**(51)** Int. Cl.
***H01Q 1/24*** ( 2006.01 )
***H01Q 5/307*** ( 2015.01 )
***H01Q 13/10*** ( 2006.01 )
***H01Q 21/24*** ( 2006.01 )
***H01Q 21/28*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017413139
**(72)** Khripkov, Alexander; Li, Linsheng; Tian, Ruiyuan
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Huawei Technologies Co., Ltd.
**(11)** AU-A-2021215187
**(21)** 2021215187 **(22)** 11.08.2021
**(54)** RADIO RESOURCE CONFIGURATION ADJUSTMENT METHOD, APPARATUS, AND SYSTEM
**(51)** Int. Cl.
***H04W 24/00*** ( 2009.01 )
**(43)** 02.09.2021
**(62)** 2018208142
**(72)** Xu, Haibo; Wang, Jian; Zeng, Yongbo; Chen, Liping; Wang, Hongyue
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Illinois Tool Works Inc.
**(11)** AU-A-2021215239
**(21)** 2021215239 **(22)** 12.08.2021
**(54)** Drive-in tool with improved safety device
**(51)** Int. Cl.
***B25C 1/00*** ( 2006.01 )
***B25C 1/04*** ( 2006.01 )
***B25C 1/08*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019203653
**(72)** Hahndel, Olaf
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Illumina, Inc.
**(11)** AU-A-2021215157
**(21)** 2021215157 **(22)** 11.08.2021
**(54)** Predicting reagent chiller instability and flow cell heater failure in sequencing systems
**(51)** Int. Cl.
***B01L 7/00*** ( 2006.01 )
***C12Q 1/6869*** ( 2018.01 )
**(43)** 02.09.2021
**(62)** 2019205267
**(72)** Apker, Gregory
**(74)** Shelston IP Pty Ltd.

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**(71)** Implantica Patent Ltd
**(11)** AU-A-2021215266
**(21)** 2021215266 **(22)** 13.08.2021
**(54)** Apparatus for controlling flow of intestinal contents in a patient's intestines
**(51)** Int. Cl.
***A61F 2/04*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2019283987
**(72)** Forsell, Peter
**(74)** WRAYS PTY LTD

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**(71)** Implantica Patent Ltd
**(11)** AU-A-2021215271
**(21)** 2021215271 **(22)** 13.08.2021
**(54)** Device and method for bone adjustment operating with wireless transmission of energy
**(51)** Int. Cl.
***A61B 17/64*** ( 2006.01 )
***A61B 17/72*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020200055
**(72)** Forsell, Peter
**(74)** WRAYS PTY LTD

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**(71)** Implantica Patent Ltd
**(11)** AU-A-2021218020
**(21)** 2021218020 **(22)** 16.08.2021
**(54)** Fastening Means For Implantable Medical Control Assembly
**(51)** Int. Cl.
***A61F 2/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019283918
**(72)** Forsell, Peter
**(74)** WRAYS PTY LTD

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**(71)** Interscope, Inc.
**(11)** AU-A-2021212164
**(21)** 2021212164 **(22)** 06.08.2021
**(54)** INSERTABLE ENDOSCOPIC INSTRUMENT FOR TISSUE REMOVAL WITH RETRACTABLE TOOL AT CUTTING TIP
**(51)** Int. Cl.
***A61B 1/005*** ( 2006.01 )
***A61B 1/015*** ( 2006.01 )
***A61B 17/221*** ( 2006.01 )
***A61B 18/24*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018345671
**(72)** Ryan Jr., Jeffery B.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** INVENTRICK PTY LTD
**(11)** AU-A-2020277129
**(21)** 2020277129 **(22)** 24.11.2020
**(54)** Bi-axial ball tip for use with a mobility cane
**(51)** Int. Cl.
***A61H 3/06*** ( 2006.01 )
**(31)** 2020900434 **(32)** 16.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Rickards, Peter; Rickards, Rohan
**(74)** LESICAR MAYNARD ANDREWS PTY LTD

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**(71)** J.M. Gillies Agencies Pty Ltd.
**(11)** AU-A-2021215158
**(21)** 2021215158 **(22)** 11.08.2021
**(54)** Fishing lures
**(51)** Int. Cl.
***A01K 85/01*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019204313
**(72)** Millyard, John; Butler, Lance
**(74)** Acumen Intellectual Property

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**(71)** JACKSON ELECTRICAL INDUSTRIES LIMITED
**(11)** AU-A-2020244564
**(21)** 2020244564 **(22)** 02.10.2020
**(54)** A LIGHTING FIXTURE AND LIGHTING SYSTEM
**(51)** Int. Cl.
***F21V 21/002*** ( 2006.01 )
***F21V 15/01*** ( 2006.01 )
***F21V 23/06*** ( 2006.01 )
***F21V 31/00*** ( 2006.01 )

## Applications Open to Public Inspection - Name Index cont'd

***H01R 33/00*** ( 2006.01 )
***H01R 33/945*** ( 2006.01 )
***H05B 45/00*** ( 2020.01 )
*F21Y 115/10* ( 2016.01 )
**(31)** 761735 **(32)** 14.02.20 **(33)** NZ
**(43)** 02.09.2021
**(72)** DONOVAN, Russell John; JACKSON, Mark Elliot James
**(74)** AJ PARK

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**(71)** Janssen Pharmaceutica NV
**(11)** AU-A-2021215155
**(21)** 2021215155 **(22)** 11.08.2021
**(54)** Methods and kits for treating depression
**(51)** Int. Cl.
***A61K 31/135*** ( 2006.01 )
***A61K 45/06*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016263598
**(72)** Singh, Jaskaran; Caers, Ivo; Daly, Ella; Drevets, Wayne C.
**(74)** Shelston IP Pty Ltd.

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**(71)** Janssen Pharmaceutica NV
**(11)** AU-A-2021215226
**(21)** 2021215226 **(22)** 12.08.2021
**(54)** Anti-vista antibodies and fragments
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
*G01N 33/574* ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019213384
**(72)** SNYDER, Linda; POWERS, Gordon
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Joy Global Underground Mining LLC
**(11)** AU-A-2020233751
**(21)** 2020233751 **(22)** 18.09.2020
**(54)** Impact feedback system for longwall shearer operator
**(51)** Int. Cl.
***E21C 25/06*** ( 2006.01 )
***E21C 27/02*** ( 2006.01 )
***E21C 35/08*** ( 2006.01 )
***E21C 35/24*** ( 2006.01 )
***G01M 7/02*** ( 2006.01 )
***G01M 13/00*** ( 2019.01 )
***G01N 29/12*** ( 2006.01 )
**(31)** 16/795,200 **(32)** 19.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** NIEDERRITER, Edward F.; LEY, Jeffrey A.
**(74)** Griffith Hack

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**(71)** Joy Global Underground Mining LLC
**(11)** AU-A-2020233752
**(21)** 2020233752 **(22)** 18.09.2020
**(54)** Impact sensor and control system for a longwall shearer
**(51)** Int. Cl.
***E21C 25/06*** ( 2006.01 )
***E21C 27/02*** ( 2006.01 )
***E21C 35/08*** ( 2006.01 )
***E21C 35/24*** ( 2006.01 )
**(31)** 16/795,173 **(32)** 19.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** NIEDERRITER, Edward F.; LEY, Jeffrey A.
**(74)** Griffith Hack

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**(71)** Jusand Nominees Pty Ltd
**(11)** AU-A-2021215238
**(21)** 2021215238 **(22)** 12.08.2021
**(54)** Safety System And Method For Protecting Against A Hazard Of Drill Rod Failure In A Drilled Rock Bore
**(51)** Int. Cl.
***E21B 23/01*** ( 2006.01 )
***E21B 11/00*** ( 2006.01 )
***E21B 12/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015255248
**(72)** NOONAN, Gerry
**(74)** WRAYS PTY LTD

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**(71)** Legrand Australia Pty Ltd
**(11)** AU-A-2020201115
**(21)** 2020201115 **(22)** 17.02.2020
**(54)** Emergency Lighting System
**(51)** Int. Cl.
***H05B 47/19*** ( 2020.01 )
***F21S 9/02*** ( 2006.01 )
***H05B 47/21*** ( 2020.01 )
**(43)** 02.09.2021
**(72)** Kebbi, Mahmoud
**(74)** Griffith Hack

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**(71)** LG Electronics Inc.
**(11)** AU-A-2021201041
**(21)** 2021201041 **(22)** 17.02.2021
**(54)** Laundry treating apparatus
**(51)** Int. Cl.
***D06F 29/00*** ( 2006.01 )
***D06F 34/28*** ( 2020.01 )
***D06F 39/12*** ( 2006.01 )
**(31)** 10-2020-0020460 **(32)** 19.02.20 **(33)** KR
10-2020-0131837 13.10.20 KR
**(43)** 02.09.2021
**(72)** JUNG, Youngho; YOO, Sanghee; KWON, Daehan
**(74)** FB Rice Pty Ltd

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**(71)** LG ELECTRONICS INC.
**(11)** AU-A-2021201073
**(21)** 2021201073 **(22)** 19.02.2021
**(54)** LAUNDRY TREATING APPARATUS
**(51)** Int. Cl.
***H05K 5/00*** ( 2006.01 )
**(31)** 10-2020-0020457 **(32)** 19.02.20 **(33)** KR
10-2020-0023776 26.02.20 KR
10-2020-0027778 05.03.20 KR
10-2020-0132545 14.10.20 KR
10-2020-0132544 14.10.20 KR
**(43)** 02.09.2021
**(72)** KWON, Daehan; YOO, Sanghee; KIM, Jaeseok; JIN, Donghyun; JUNG, Youngho; CHO, Sangho
**(74)** Dentons Patent Attorneys Australasia Limited

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**(71)** LG ELECTRONICS INC.
**(11)** AU-A-2021201090
**(21)** 2021201090 **(22)** 19.02.2021
**(54)** LAUNDRY TREATING APPARATUS
**(51)** Int. Cl.
***D06F 29/00*** ( 2006.01 )
***D06F 34/34*** ( 2020.01 )
**(31)** 10-2020-0020457 **(32)** 19.02.20 **(33)** KR
10-2020-0132545 14.10.20 KR
**(43)** 02.09.2021
**(72)** CHO, Sangho; JUNG, Youngho; KWON, Daehan
**(74)** Dentons Patent Attorneys Australasia Limited

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**Licentia Group Ltd see MyPinPad Ltd**
**(21)** 2021209332

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**(71)** Load and Move Pty Ltd
**(11)** AU-A-2021218002
**(21)** 2021218002 **(22)** 16.08.2021
**(54)** AN IMPROVED CONTAINER, CONTAINER CONSTRUCTION, HANDLING METHOD AND APPARATUS
**(51)** Int. Cl.
***B65D 88/12*** ( 2006.01 )
***B65D 90/64*** ( 2006.01 )
***B66C 1/66*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019284041
**(72)** CHALMERS, Matthew William; PINDER, Garry Mark
**(74)** Halfords IP

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**(71)** Lockliv Holdings Pty. Ltd.
**(11)** AU-A-2021212089
**(21)** 2021212089 **(22)** 05.08.2021
**(54)** MONITORING AND ALERT SYSTEM AND METHOD FOR SENSORIALLY PERCEPTIBLE DEVICES
**(51)** Int. Cl.
***B60R 22/48*** ( 2006.01 )
***E05B 17/22*** ( 2006.01 )
***E05B 39/00*** ( 2006.01 )
***E05B 41/00*** ( 2006.01 )
***E05B 45/00*** ( 2006.01 )
***E05B 47/00*** ( 2006.01 )
***E05B 49/00*** ( 2006.01 )
***E05B 51/00*** ( 2006.01 )
***E05B 53/00*** ( 2006.01 )
***G08B 21/02*** ( 2006.01 )
***G08B 21/18*** ( 2006.01 )
***G08B 26/00*** ( 2006.01 )
***G08B 29/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019203235
**(72)** Leary, Andrew; Aplin, Richard; Trieu, William; Redding, Matthew; Bykerk, Lili
**(74)** Krouzer IP

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**(71)** M & R Rickards Pty Ltd
**(11)** AU-A-2020239809
**(21)** 2020239809 **(22)** 25.09.2020
**(54)** CROP HARVESTING BLADE SYSTEM
**(51)** Int. Cl.
***A01D 34/73*** ( 2006.01 )
***A01D 34/66*** ( 2006.01 )

## Applications Open to Public Inspection - Name Index cont'd

***A01D 45/10*** ( 2006.01 )
**(31)** 2020900453 **(32)** 18.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** RICKARDS, Mark
**(74)** Baxter Patent Attorneys Pty Ltd

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**(71)** Magic Leap, Inc.
**(11)** AU-A-2021215223
**(21)** 2021215223 **(22)** 12.08.2021
**(54)** Dual composite light field device
**(51)** Int. Cl.
***G02B 6/34*** ( 2006.01 )
***G06F 3/01*** ( 2006.01 )
***G06F 3/03*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016264599
**(72)** Kaehler, Adrian
**(74)** Davies Collison Cave Pty Ltd

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**(71)** MARA RENEWABLES CORPORATION
**(11)** AU-A-2021218000
**(21)** 2021218000 **(22)** 16.08.2021
**(54)** Semi-continuous culture methods
**(51)** Int. Cl.
***C12Q 3/00*** ( 2006.01 )
***C11B 1/00*** ( 2006.01 )
***C12M 1/36*** ( 2006.01 )
***C12N 1/00*** ( 2006.01 )
***C12N 1/10*** ( 2006.01 )
***C12N 1/14*** ( 2006.01 )
***C12P 1/00*** ( 2006.01 )
***C12P 7/64*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015332094
**(72)** SUN, Zhiyong; MILWAY, Michael; BERRYMAN, Kevin; VALENTINE, Mercia; ARMENTA, Roberto E.; PURDUE, Laura
**(74)** Griffith Hack

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**(71)** Massachusetts Institute of Technology
**(11)** AU-A-2021215128
**(21)** 2021215128 **(22)** 10.08.2021
**(54)** SYSTEMS AND METHODS FOR PREVENTING, MITIGATING, AND/OR TREATING DEMENTIA
**(51)** Int. Cl.
***A61N 1/36*** ( 2006.01 )
***A61N 1/32*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016361503
**(72)** Tsai, Li-Huei; Martorell, Anthony James; Adaikkan, Chinnakkaruppan; Brown, Emery; Iaccarino, Hannah
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** MATANIEL LAURATE PTY LTD
**(11)** AU-A-2020203528
**(21)** 2020203528 **(22)** 28.05.2020
**(54)** SECURING DEVICE
**(51)** Int. Cl.
***E21B 17/03*** ( 2006.01 )
***E21B 12/00*** ( 2006.01 )
***E21B 17/00*** ( 2006.01 )
***E21B 19/16*** ( 2006.01 )
**(31)** 2020900415 **(32)** 14.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** COOPER, Samantha; CAREY, John
**(74)** Baxter Patent Attorneys Pty Ltd

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**(71)** McLaughlin Gormley King Company
**(11)** AU-A-2021215284
**(21)** 2021215284 **(22)** 13.08.2021
**(54)** Mixtures of sabadilla alkaloids and pyrethrum and uses thereof
**(51)** Int. Cl.
***A01N 65/12*** ( 2009.01 )
***A01N 65/40*** ( 2009.01 )
***A01N 65/42*** ( 2009.01 )
**(43)** 02.09.2021
**(62)** 2017290129
**(72)** SUNDQUIST, Donald L.; SURANYI, Robert A.
**(74)** Spruson & Ferguson

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**(71)** MediSieve Ltd
**(11)** AU-A-2021215241
**(21)** 2021215241 **(22)** 13.08.2021
**(54)** Magnetic filter apparatus and method
**(51)** Int. Cl.
***A61M 1/36*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016321877
**(72)** Frodsham, George Charles Martin; Pankhurst, Quentin Andrew; Wenman, Richard Alan; Httersley, Simon Richard
**(74)** Dark IP

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**(71)** Medtronic Minimed, Inc.
**(11)** AU-A-2021215117
**(21)** 2021215117 **(22)** 09.08.2021
**(54)** Smart connection interface
**(51)** Int. Cl.
***A61M 5/145*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020203469
**(72)** Bazargan, Afshin; Pananen, Jacob E.; Alderete Jr., Juan M.; Ali, Sherif M.; Grover, Benjamin A.; Halili, Edgardo C.; Montalvo, Susan McConnell; Ng, Anthony C.; Rankers, Ulrich H.; Sakae, Vaughn S.; Vazquez, Pablo; Weaver, Andrew E.; Yavorsky, Matthew William; Yu, Edmond W.; Wagner, Jennifer L.; Lin, Mark; Ibranyan, Arsen; Tieck, R. Marie; Trock, Adam S.; Lorenzen, Eric M.
**(74)** Spruson & Ferguson

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**(71)** Memorial Sloan-Kettering Cancer Center
**(11)** AU-A-2021215181
**(21)** 2021215181 **(22)** 11.08.2021
**(54)** Methods and compositions for reducing vancomycin-resistant enterococci infection or colonization
**(51)** Int. Cl.
***A01N 63/00*** ( 2020.01 )
***A01N 65/00*** ( 2009.01 )
***A61K 9/00*** ( 2006.01 )
***A61K 35/66*** ( 2015.01 )
***A61K 35/74*** ( 2015.01 )
**(43)** 02.09.2021
**(62)** 2016361583
**(72)** Pamer, Eric; McKenney, Peter; Caballero, Silvia
**(74)** Spruson & Ferguson

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**(71)** ModernaTX, Inc.
**(11)** AU-A-2021215174
**(21)** 2021215174 **(22)** 11.08.2021
**(54)** Compounds and compositions for intracellular delivery of agents
**(51)** Int. Cl.
***C07D 211/14*** ( 2006.01 )
***A61K 9/14*** ( 2006.01 )
***A61K 31/445*** ( 2006.01 )
***A61K 31/45*** ( 2006.01 )
***A61K 31/495*** ( 2006.01 )
***C07D 211/16*** ( 2006.01 )
***C07D 295/13*** ( 2006.01 )
***C07D 295/185*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016377681
**(72)** BENENATO, Kerry E; BUTCHER, William
**(74)** Griffith Hack

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**(71)** MyPinPad Ltd; Licentia Group Ltd
**(11)** AU-A-2021209332
**(21)** 2021209332 **(22)** 30.07.2021
**(54)** Authentication methods and systems
**(51)** Int. Cl.
***G06F 21/36*** ( 2013.01 )
***G07F 7/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016269268
**(72)** Pike, Justin
**(74)** James & Wells Intellectual Property

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**Nanjing Herui Supply Chain Management Co., Ltd. see State Grid Jiangsu Electric Power Co., Ltd Nanjing Power Supply Company**
**(21)** 2020203712

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**Nanjing Yuanneng Electric Power Engineering Co., Ltd. see State Grid Jiangsu Electric Power Co., Ltd Nanjing Power Supply Company**
**(21)** 2020203712

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**(71)** NAUTILUS, INC.
**(11)** AU-A-2021215163
**(21)** 2021215163 **(22)** 11.08.2021
**(54)** Storable exercise bench
**(51)** Int. Cl.
***A63B 21/00*** ( 2006.01 )
***A63B 23/00*** ( 2006.01 )
***A63B 23/02*** ( 2006.01 )
***A63B 71/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018295277
**(72)** BAKER, Bryce C.; POHL, Ryan J.
**(74)** Griffith Hack

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## Applications Open to Public Inspection - Name Index cont'd

**(71)** NAVICO HOLDING AS
**(11)** AU-A-2021200630
**(21)** 2021200630 **(22)** 01.02.2021
**(54)** SYSTEMS AND METHODS FOR CONTROLLING OPERATIONS OF MARINE VESSELS
**(51)** Int. Cl.
***G05D 1/02*** ( 2020.01 )
***B63B 49/00*** ( 2006.01 )
**(31)** 16/791,335 **(32)** 14.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** SNYDER, Kristopher C.; SCHROEDER, Jeremy J.; KASTE, Michael C.
**(74)** AJ PARK

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**(71)** Navitor Pharmaceuticals, Inc.
**(11)** AU-A-2021215177
**(21)** 2021215177 **(22)** 11.08.2021
**(54)** Modulators of Sestrin-GATOR2 interaction and uses thereof
**(51)** Int. Cl.
***C07C 211/03*** ( 2006.01 )
***A61K 31/13*** ( 2006.01 )
***A61K 31/135*** ( 2006.01 )
***A61K 31/137*** ( 2006.01 )
***C07C 211/26*** ( 2006.01 )
***C07C 211/27*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016342027
**(72)** Fetalvero, Kristina Michelle; Narayan, Sridhar; O'Neill, David John; Saiah, Eddine; Sengupta, Shomit
**(74)** Spruson & Ferguson

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**(71)** Neoss Limited
**(11)** AU-A-2021215175
**(21)** 2021215175 **(22)** 11.08.2021
**(54)** Dental Implant Assembly
**(51)** Int. Cl.
***A61C 8/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018312964
**(72)** ENGMAN, Fredrik Nils
**(74)** WRAYS PTY LTD

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**(71)** Netflix, Inc.
**(11)** AU-A-2021215203
**(21)** 2021215203 **(22)** 12.08.2021
**(54)** Techniques for optimizing encoding tasks
**(51)** Int. Cl.
***H04N 21/845*** ( 2011.01 )
***H04N 19/146*** ( 2014.01 )
***H04N 19/436*** ( 2014.01 )
***H04N 19/85*** ( 2014.01 )
**(43)** 02.09.2021
**(62)** 2018385585
**(72)** Moorthy, Anush; Manohara, Megha
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Neumedicines, Inc.
**(11)** AU-A-2021215168
**(21)** 2021215168 **(22)** 11.08.2021
**(54)** IL-12 compositions and methods of use in hematopoietic recovery
**(51)** Int. Cl.
***A61K 38/20*** ( 2006.01 )
***A61K 38/17*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 35/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015338995
**(72)** BASILE, Lena A.
**(74)** Spruson & Ferguson

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**(71)** ObsEva SA
**(11)** AU-A-2021218003
**(21)** 2021218003 **(22)** 16.08.2021
**(54)** ALPHA-AMINO ESTERS OF HYDROXYPROPYLTHIAZOLIDINE CARBOXAMIDE DERIVATIVE AND SALT FORM, CRYSTAL POLYMORPH THEREOF
**(51)** Int. Cl.
***C07D 277/06*** ( 2006.01 )
***A61K 31/426*** ( 2006.01 )
***A61K 45/06*** ( 2006.01 )
***A61P 15/00*** ( 2006.01 )
***A61P 15/06*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017205254
**(72)** NAXOS PAGE, Patrick; SCHWARZ, Matthias; JORAND-LEBRUN, Catherine; QUATTROPANI, Anna; POMEL, Vincent; LOUMAYE, Ernest; POHL, Oliver; GOTTELAND, Jean-Pierre
**(74)** Collison & Co

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**(71)** Ojai Retinal Technology, LLC
**(11)** AU-A-2021215167
**(21)** 2021215167 **(22)** 11.08.2021
**(54)** System and process for retina phototherapy
**(51)** Int. Cl.
***A61F 9/008*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016342091
**(72)** LUTTRULL, Jeffrey K.; BENJAMIN, Margolis W. L.; CHANG, David B.
**(74)** Griffith Hack

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**(71)** Paisley, W.
**(11)** AU-A-2021200650
**(21)** 2021200650 **(22)** 28.01.2021
**(54)** Systems and methods for creating and managing clinical decision support systems
**(51)** Int. Cl.
***G16H 10/60*** ( 2018.01 )
***G16H 20/00*** ( 2018.01 )
**(31)** 2020900422 **(32)** 14.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Paisley, William
**(74)** LEGALVISION ILP PTY. LTD.

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**(71)** Parabel Nutrition, Inc.
**(11)** AU-A-2021215302
**(21)** 2021215302 **(22)** 13.08.2021
**(54)** Methods and systems for processing a high-concentration protein product from a microcrop and compositions thereof
**(51)** Int. Cl.
***A23J 1/00*** ( 2006.01 )
***C07K 1/14*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016321414
**(72)** Carpio, Valentina; Kasat, Girish; Ifeduba, Ebenezer; Fichtali, Jaouad
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201015
**(21)** 2020201015 **(22)** 13.02.2020
**(54)** Cotton variety PX3B09W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** McPherson, Mustafa G.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201018
**(21)** 2020201018 **(22)** 13.02.2020
**(54)** Cotton variety PX3B07W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** McPherson, Mustafa G.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201021
**(21)** 2020201021 **(22)** 13.02.2020
**(54)** Cotton variety PX5D28W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Bordelon, Frank C.; Mahill, Joel F.; McPherson, Mustafa G.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201024
**(21)** 2020201024 **(22)** 13.02.2020
**(54)** Cotton variety PX5C09W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )

## Applications Open to Public Inspection - Name Index cont'd

**(43)** 02.09.2021
**(72)** McPherson, Mustafa G.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201025
**(21)** 2020201025 **(22)** 13.02.2020
**(54)** Cotton variety PX3C06W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** McPherson, Mustafa G.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201026
**(21)** 2020201026 **(22)** 13.02.2020
**(54)** Cotton variety PX2B12W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Rieff, Jacob M.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201027
**(21)** 2020201027 **(22)** 13.02.2020
**(54)** Cotton variety PX2B10W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Rieff, Jacob M.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Phytogen Seed Company, LLC
**(11)** AU-A-2020201029
**(21)** 2020201029 **(22)** 13.02.2020
**(54)** Cotton variety PX2B04W3FE
**(51)** Int. Cl.
***A01H 6/60*** ( 2018.01 )
***A01H 1/02*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C07K 14/325*** ( 2006.01 )
***C12N 5/04*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** Rieff, Jacob M.; Mahill, Joel F.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Proteostasis Therapeutics, Inc.
**(11)** AU-A-2021215136
**(21)** 2021215136 **(22)** 10.08.2021
**(54)** Compounds, compositions, and methods for increasing CFTR activity
**(51)** Int. Cl.
***C07D 413/12*** ( 2006.01 )
***A61K 31/42*** ( 2006.01 )
***A61K 31/422*** ( 2006.01 )
***C07D 261/18*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017280206
**(72)** Parks, Daniel; Bastos, Cecilia M.; Cullen, Matthew; Munoz, Benito
**(74)** Shelston IP Pty Ltd.

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**(71)** Rhodia Operations
**(11)** AU-A-2021215256
**(21)** 2021215256 **(22)** 13.08.2021
**(54)** Drift control formulations for use with air induction nozzles
**(51)** Int. Cl.
***A01N 25/04*** ( 2006.01 )
***A01M 7/00*** ( 2006.01 )
***A01N 31/02*** ( 2006.01 )
***A01N 47/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017223462
**(72)** Goyal, Rajesh; Ryan, Neal; Liu, Hong; Shanmuga, Krish; Kisenwether, Michael J.; Balastre, Marc
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** SALK INSTITUTE FOR BIOLOGICAL STUDIES
**(11)** AU-A-2021218007
**(21)** 2021218007 **(22)** 16.08.2021
**(54)** Reprogramming progenitor compositions and methods of use therefore
**(51)** Int. Cl.
***C12N 5/074*** ( 2010.01 )
***C12N 5/10*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018271254
**(72)** EVANS, Ronald; DOWNES, Michael; KIDA, Yasuyuki S.; KAWAMURA, Teruhisa; WEI, Zong; YU, Ruth T.; ATKINS, Annette R.
**(74)** Griffith Hack

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**(71)** Schneider Electric (Australia) Pty Limited
**(11)** AU-A-2021215135
**(21)** 2021215135 **(22)** 10.08.2021
**(54)** ELECTRICAL SYSTEM, APPARATUS AND METHOD
**(51)** Int. Cl.
***H01H 9/02*** ( 2006.01 )
***H01R 13/46*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015275225
**(72)** Lifran, Xavier
**(74)** Madderns Pty Ltd

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**(71)** SCHREDER
**(11)** AU-A-2021215228
**(21)** 2021215228 **(22)** 12.08.2021
**(54)** Method for marking luminaires, controller arrangement and luminaire
**(51)** Int. Cl.
***F21S 8/08*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016206046
**(72)** BRAND, Daniel; RICHTER, Jörg; SCHRÖDER, Helmut; WELLENS, Didier
**(74)** Griffith Hack

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**(71)** Senko Advanced Components, Inc.
**(11)** AU-A-2021215283
**(21)** 2021215283 **(22)** 13.08.2021
**(54)** Fiber optic connector assemblies with adjustable polarity
**(51)** Int. Cl.
***G02B 6/36*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017206806
**(72)** Chang, Jimmy Jun-Fu; Takano, Kazuyoshi
**(74)** Spruson & Ferguson

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**(71)** Seowon University Institute of Industry-Academy Collaboration
**(11)** AU-A-2020202375
**(21)** 2020202375 **(22)** 03.04.2020
**(54)** Composition for Prophylaxis of Colon Cancer
**(51)** Int. Cl.
***A61K 36/31*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(31)** 10-2020-0019603 **(32)** 18.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** KIM, Hyun Kyoung
**(74)** Collison & Co

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**(71)** Simplehuman, LLC
**(11)** AU-A-2021215293
**(21)** 2021215293 **(22)** 13.08.2021
**(54)** Foaming soap dispensers
**(51)** Int. Cl.
***A47K 5/14*** ( 2006.01 )
***A47K 5/12*** ( 2006.01 )
***B05B 7/26*** ( 2006.01 )
***B05B 11/06*** ( 2006.01 )
***B65D 47/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016201439
**(72)** Yang, Frank; Yen, Kenneth; Chen, Hon-Lun; Sandor, Joseph; Wolbert, David; Cohen, Guy; Pirshafiey, Nasser
**(74)** Davies Collison Cave Pty Ltd

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**(71)** SMART CARTE, INC.
**(11)** AU-A-2021215295
**(21)** 2021215295 **(22)** 13.08.2021
**(54)** Electronic locker right acquisition via an external system
**(51)** Int. Cl.
***G06Q 10/00*** ( 2012.01 )
***A47B 43/00*** ( 2006.01 )
***G06Q 30/06*** ( 2012.01 )
***G06Q 50/00*** ( 2012.01 )
**(43)** 02.09.2021
**(62)** 2015255230
**(72)** AMDAHL, Keith Louis
**(74)** Griffith Hack

## Applications Open to Public Inspection - Name Index cont'd

**(71)** Smile Fast Ltd
**(11)** AU-A-2021215143
**(21)** 2021215143 **(22)** 10.08.2021
**(54)** DENTAL STENT
**(51)** Int. Cl.
***A61C 5/77*** ( 2017.01 )
***A61C 5/20*** ( 2017.01 )
***A61C 13/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020279566
**(72)** Sealey, Thomas; Ojo, Olumide
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Société des Produits Nestlé S.A.
**(11)** AU-A-2021215159
**(21)** 2021215159 **(22)** 11.08.2021
**(54)** Composition in powder form comprising iron-casein complexes and compounds sensitive to oxidation
**(51)** Int. Cl.
***A23L 33/165*** ( 2016.01 )
***A23L 2/52*** ( 2006.01 )
***A23L 2/66*** ( 2006.01 )
***A23L 33/105*** ( 2016.01 )
***A23L 33/12*** ( 2016.01 )
***A23L 33/15*** ( 2016.01 )
***A23L 33/19*** ( 2016.01 )
**(43)** 02.09.2021
**(62)** 2017376591
**(72)** Bedard, Matthieu; Husny, Joeska
**(74)** Shelston IP Pty Ltd.

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**(71)** Sontiq, Inc.
**(11)** AU-A-2021215125
**(21)** 2021215125 **(22)** 10.08.2021
**(54)** Data breach score and method
**(51)** Int. Cl.
***G06F 21/62*** ( 2013.01 )
***G06F 21/60*** ( 2013.01 )
***G06F 21/71*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2018322024
**(72)** VAN DYKE, James
**(74)** Spruson & Ferguson

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**(71)** Sony Corporation
**(11)** AU-A-2021215291
**(21)** 2021215291 **(22)** 13.08.2021
**(54)** Frequency band extending device and method, encoding device and method, decoding device and method, and program
**(51)** Int. Cl.
***G10L 21/04*** ( 2013.01 )
***G10L 19/02*** ( 2013.01 )
***H03M 7/30*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019206091
**(72)** YAMAMOTO, Yuki; CHINEN, Toru; HONMA, Hiroyuki; MITSUFUJI, Yuhki
**(74)** Spruson & Ferguson

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**(71)** South China Sea Institute of Oceanology, Chinese Academy of Sciences
**(11)** AU-A-2020331564
**(21)** 2020331564 **(22)** 03.11.2020
**(54)** An environment-friendly composite basalt fiber reef base grid suitable for restoration of coral reef substrates and restoration method
**(51)** Int. Cl.
***A01K 61/00*** ( 2017.01 )
**(31)** 202010096619.2 **(32)** 17.02.20 **(33)** CN
**(43)** 02.09.2021
**(72)** YUAN, Tao; YUAN, Xiangcheng; HUANG, Hui
**(74)** Madderns Pty Ltd

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**(71)** SPEX Corporate Holdings Limited
**(11)** AU-A-2021215204
**(21)** 2021215204 **(22)** 12.08.2021
**(54)** Downhole tool with a propellant charge
**(51)** Int. Cl.
***E21B 29/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016247742
**(72)** YOUNGER, Rae
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Sprint Bioscience AB
**(11)** AU-A-2021215234
**(21)** 2021215234 **(22)** 12.08.2021
**(54)** 6-Aryl-4-Morpholin-1-Ylpyridone Compounds Useful For The Treatment Of Cancer And Diabetes
**(51)** Int. Cl.
***C07D 213/76*** ( 2006.01 )
***A61K 31/5377*** ( 2006.01 )
***A61P 3/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07D 413/04*** ( 2006.01 )
***C07D 413/12*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017219846
**(72)** Martinsson, Jessica; Andersson, Martin; Lindström, Johan; Forsblom, Rickard; Rahm, Fredrik; Ginman, Tobias; Viklund, Jenny
**(74)** WRAYS PTY LTD

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**(71)** State Grid Hebei Electric Power Co., Ltd.
**(11)** AU-A-2020202079
**(21)** 2020202079 **(22)** 23.03.2020
**(54)** A Smart Power Audit Method Based on Satellite Map Technology
**(51)** Int. Cl.
***G06Q 50/06*** ( 2012.01 )
***G01S 19/02*** ( 2010.01 )
***G01S 19/45*** ( 2010.01 )
***G06Q 10/06*** ( 2012.01 )
**(31)** 2020100994065 **(32)** 18.02.20 **(33)** CN
**(43)** 02.09.2021
**(72)** Su, Xia; Zhang, Jingjing; Zhang, Weiguang; Chen, Zhao; Su, Ruifeng; Zang, Yuhua; Bao, Jie; Zhang, Yufei; Hu, Xiguo
**(74)** protectmyidea.com.au

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**(71)** State Grid Hebei Electric Power Co., Ltd.
**(11)** AU-A-2020202174
**(21)** 2020202174 **(22)** 27.03.2020
**(54)** A INTELLIGENT MAP DATA SYSTEM MODELING METHOD AND ITS APPLICATION IN POWER AUDIT OPERATIONS
**(51)** Int. Cl.
***G06K 9/00*** ( 2006.01 )
***G06Q 50/06*** ( 2012.01 )
***G06T 7/00*** ( 2017.01 )
**(31)** 2020100994328 **(32)** 18.02.20 **(33)** CN
**(43)** 02.09.2021
**(72)** Su, Xia; Zhang, Jingjing; Zhang, Weiguang; Chen, Zhao; Su, Ruifeng; Zang, Yuhua; Bao, Jie; Zhang, Yufei; Wang, Yong
**(74)** protectmyidea.com.au

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**(71)** State Grid Jiangsu Electric Power Co., Ltd Nanjing Power Supply Company; Nanjing Yuanneng Electric Power Engineering Co., Ltd.; Nanjing Herui Supply Chain Management Co., Ltd.
**(11)** AU-A-2020203712
**(21)** 2020203712 **(22)** 04.06.2020
**(54)** SELF-DRIVEN ACTIVE HEAVY CABLE WINDER
**(51)** Int. Cl.
***B65H 54/42*** ( 2006.01 )
***B65H 49/34*** ( 2006.01 )
***B65H 75/34*** ( 2006.01 )
***B65H 75/44*** ( 2006.01 )
***H02G 1/06*** ( 2006.01 )
**(31)** 202010094549.7 **(32)** 16.02.20 **(33)** CN
**(43)** 02.09.2021
**(72)** Zhou, Yang; Chen, Yangbo; Chu, Qiang; Li, Xiang; Li, Weimin; Zhao, Zhiyu; Xue, Hengsong; Zhou, Yue
**(74)** Madderns Pty Ltd

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**(71)** Sterling IP Limited
**(11)** AU-A-2021215230
**(21)** 2021215230 **(22)** 12.08.2021
**(54)** ANTI-TENASCIN C ANTIBODIES AND USES THEREOF
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015298480
**(72)** Midwood, Kim Suzanne; Bland-Ward, Philip Antony; Burns, Nigel; Hextall, Patrick John; Aungier, Susan Rebecca
**(74)** AJ PARK

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**(71)** Stramit Corporation Pty Limited
**(11)** AU-A-2021200672
**(21)** 2021200672 **(22)** 03.02.2021
**(54)** Fascia Panel
**(51)** Int. Cl.
***E04D 13/152*** ( 2006.01 )
***E04D 13/158*** ( 2006.01 )
**(31)** 2020900421 **(32)** 14.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Guerrera, Angelo
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Sunrise Resort, Inc.
**(11)** AU-A-2020356804

## Applications Open to Public Inspection - Name Index cont'd

**(21)** 2020356804 **(22)** 13.02.2020
**(54)** Golf-shot-tracking-self-driving-path central controlling system
**(51)** Int. Cl.
***A63B 69/00*** ( 2006.01 )
***A63B 24/00*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** HSU, Yuh-Rong
**(74)** LESICAR MAYNARD ANDREWS PTY LTD

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**(71)** Surcon Ltd
**(11)** AU-A-2021215124
**(21)** 2021215124 **(22)** 10.08.2021
**(54)** METHOD AND SYSTEM FOR IMPROVING QUALITY OF DIRECTIONAL SURVEYS
**(51)** Int. Cl.
***E21B 47/00*** ( 2012.01 )
**(43)** 02.09.2021
**(62)** 2016291166
**(72)** Deverse, Jarrod Shawn; Maus, Stefan
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Swansea University; Glass Technology Services Limited
**(11)** AU-A-2021215296
**(21)** 2021215296 **(22)** 13.08.2021
**(54)** Proppant and Method of Manufacturing a Proppant
**(51)** Int. Cl.
***C09K 8/80*** ( 2006.01 )
***C03C 12/00*** ( 2006.01 )
***C03C 23/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2017310550
**(72)** BARRON, Andrew; CORREAS LOPEZ, Covadonga; GOMEZ JIMENEZ, Virginia; IRESON, Robert Gordon; GLENDENNING, Malcolm David; MARSHALL, Martyn William; HOLCROFT, Christopher Paul
**(74)** WRAYS PTY LTD

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**(71)** Takeda Pharmaceutical Company Limited
**(11)** AU-A-2021215261
**(21)** 2021215261 **(22)** 13.08.2021
**(54)** Evacuated blood collection tubes containing protease inhibitors for the assessment of contact system activation
**(51)** Int. Cl.
***A61B 5/154*** ( 2006.01 )
***A61B 5/15*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016306653
**(72)** Sexton, Daniel J.; Faucette, Ryan
**(74)** Spruson & Ferguson

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**(71)** Tarveda Therapeutics, Inc.
**(11)** AU-A-2021215260
**(21)** 2021215260 **(22)** 13.08.2021
**(54)** SSTR-targeted conjugates and particles and formulations thereof
**(51)** Int. Cl.
***A61P 35/00*** ( 2006.01 )
***C07K 14/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016343817
**(72)** WOOSTER, Richard; WHALEN, Kerry; BAZINET, Patrick Rosaire; BILODEAU, Mark T.; KADIYALA, Sudhakar; PERINO, Samantha; SWERYDA-KRAWIEC, Beata; SHINDE, Rajesh R.
**(74)** Griffith Hack

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**(71)** Technicka Univerzita V Liberci
**(11)** AU-A-2021200824
**(21)** 2021200824 **(22)** 10.02.2021
**(54)** Method for the production of a concentrated organic fertilizer from raw sheep wool
**(51)** Int. Cl.
***C05F 1/00*** ( 2006.01 )
***C05B 11/10*** ( 2006.01 )
***C05D 1/00*** ( 2006.01 )
**(31)** PV 2020-72 **(32)** 14.02.20 **(33)** CZ
**(43)** 02.09.2021
**(72)** Militky, Jiri; Wiener, Jakub
**(74)** Shelston IP Pty Ltd.

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**(71)** Techtronic Cordless GP
**(11)** AU-A-2021200551
**(21)** 2021200551 **(22)** 29.01.2021
**(54)** Lawnmowers with safety features and methods associate therewith
**(51)** Int. Cl.
***A01D 34/68*** ( 2006.01 )
***A01D 34/82*** ( 2006.01 )
**(31)** 62/976,070 **(32)** 13.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** KONDRO, Grzegorz; SHAO, Shuai; GIVENS, Robert T.; IFTIQHAR, Ayesha; FELDKAMP, Jonathan R.
**(74)** Spruson & Ferguson

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**(71)** Techtronic Cordless GP
**(11)** AU-A-2021200876
**(21)** 2021200876 **(22)** 11.02.2021
**(54)** Gutter cleaners and methods associated therewith
**(51)** Int. Cl.
***E04D 13/076*** ( 2006.01 )
**(31)** 62/977,570 **(32)** 17.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** Holman, Christopher A.; Hoffman, Ronald J.
**(74)** Spruson & Ferguson

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**(71)** TE CONNECTIVITY SERVICES GMBH
**(11)** AU-A-2021200897
**(21)** 2021200897 **(22)** 11.02.2021
**(54)** Enclosed connection systems for forming an enclosed connection between conductors, and methods including same
**(51)** Int. Cl.
***H01R 13/00*** ( 2006.01 )
***H02G 3/00*** ( 2006.01 )
**(31)** 17/153,362 **(32)** 20.01.21 **(33)** US
62/976,390 14.02.20 US
**(43)** 02.09.2021
**(72)** NEWTON, John Anthony
**(74)** Griffith Hack

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**(71)** TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
**(11)** AU-A-2021217994
**(21)** 2021217994 **(22)** 16.08.2021
**(54)** UPLINK DATA INDICATION
**(51)** Int. Cl.
***H04W 72/12*** ( 2009.01 )
**(43)** 02.09.2021
**(62)** 2019279988
**(72)** WITTBERG, Mikael; RATHONYI, Béla; STATTIN, Magnus
**(74)** AJ PARK

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**(71)** Terumo Kabushiki Kaisha
**(11)** AU-A-2021215305
**(21)** 2021215305 **(22)** 16.08.2021
**(54)** SYRINGE BARREL, METHOD FOR MANUFACTURING SAME, AND PREFILLED SYRINGE
**(51)** Int. Cl.
***A61M 5/31*** ( 2006.01 )
***A61M 5/28*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2020201583
**(72)** OKIHARA, Hitoshi
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** The Arizona Board of Regents on Behalf of the University of Arizona
**(11)** AU-A-2021217992
**(21)** 2021217992 **(22)** 16.08.2021
**(54)** Stereoscopic displays with addressable focus cues
**(51)** Int. Cl.
***G02B 27/22*** ( 2018.01 )
**(43)** 02.09.2021
**(62)** 2019204862
**(72)** Hua, Hong; Hu, Xinda
**(74)** Davies Collison Cave Pty Ltd

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**(71)** The Boeing Company
**(11)** AU-A-2021200433
**(21)** 2021200433 **(22)** 22.01.2021
**(54)** Composite plank support for stringer panel
**(51)** Int. Cl.
***B64C 1/06*** ( 2006.01 )
***B29C 70/30*** ( 2006.01 )
***B29C 70/44*** ( 2006.01 )
***B29D 99/00*** ( 2010.01 )
***B32B 5/28*** ( 2006.01 )
***B32B 27/04*** ( 2006.01 )
***B64C 3/18*** ( 2006.01 )
***E04B 1/12*** ( 2006.01 )
***E04B 1/14*** ( 2006.01 )
***E04C 2/26*** ( 2006.01 )
*B29L 31/30* ( 2006.01 )
**(31)** 16/793,971 **(32)** 18.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** Clark, Gregory L.
**(74)** Spruson & Ferguson

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## Applications Open to Public Inspection - Name Index cont'd

**(71)** The United States of America, as represented by the Secretary Department of Health and Human Services
**(11)** AU-A-2021215132
**(21)** 2021215132 **(22)** 10.08.2021
**(54)** Use of gram negative species to treat atopic dermatitis
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/06*** ( 2006.01 )
***A61K 35/74*** ( 2015.01 )
**(43)** 02.09.2021
**(62)** 2017253935
**(72)** Myles, Ian Antheni; Datta, Sandip K.
**(74)** FB Rice Pty Ltd

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**(71)** The University of British Columbia; British Columbia Cancer Agency Branch
**(11)** AU-A-2021215137
**(21)** 2021215137 **(22)** 10.08.2021
**(54)** Androgen receptor modulators and methods for their use
**(51)** Int. Cl.
***C07D 207/38*** ( 2006.01 )
***A61K 31/495*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019257509
**(72)** Yan, Luping; Andersen, Raymond J.; Sadar, Marianne Dorothy; Mawji, Nasrin R.; Banuelos, Carmen Adriana
**(74)** Davies Collison Cave Pty Ltd

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**(71)** The University of Sydney; Western Sydney Local Health District
**(11)** AU-A-2021215254
**(21)** 2021215254 **(22)** 13.08.2021
**(54)** Connexin 45 Inhibition for Therapy
**(51)** Int. Cl.
***A61K 31/7088*** ( 2006.01 )
***A61P 9/10*** ( 2006.01 )
***C07H 21/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016309948
**(72)** Kizana, Eddy; Fahmy, Peter
**(74)** FB Rice Pty Ltd

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**(71)** TNBT Holdings Pty Limited
**(11)** AU-A-2020267185
**(21)** 2020267185 **(22)** 10.11.2020
**(54)** A Padlock
**(51)** Int. Cl.
***E05B 67/20*** ( 2006.01 )
***E05B 35/08*** ( 2006.01 )
***E05B 67/18*** ( 2006.01 )
**(31)** 2020900399 **(32)** 13.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Szarka-Kovacs, Zsolt
**(74)** TNBT Holdings Pty Limited

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**(71)** Top Win Optoelectronics Corp.
**(11)** AU-A-2021200805
**(21)** 2021200805 **(22)** 09.02.2021
**(54)** Method for monitoring apparatus
**(51)** Int. Cl.
***H04W 4/70*** ( 2018.01 )
***H04L 29/06*** ( 2006.01 )
***H04W 24/02*** ( 2009.01 )
***H04W 40/20*** ( 2009.01 )
***H04W 40/24*** ( 2009.01 )
***H04W 40/32*** ( 2009.01 )
***H04W 84/18*** ( 2009.01 )
**(31)** 109105284 **(32)** 19.02.20 **(33)** TW
109116393 18.05.20 TW
**(43)** 02.09.2021
**(72)** SHEN, Yu-Tsang
**(74)** AJ PARK

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**(71)** TransMedics, Inc
**(11)** AU-A-2021215289
**(21)** 2021215289 **(22)** 13.08.2021
**(54)** Aortic cannula for ex vivo organ care system
**(51)** Int. Cl.
***A61M 39/10*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016318622
**(72)** Ritchie, Greg; Lambert II, Vincent; Bringham, Richard; Sullivan, John; Hassanein, Waleed H.
**(74)** Shelston IP Pty Ltd.

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**(71)** Treace Medical Concepts, Inc.
**(11)** AU-A-2021215227
**(21)** 2021215227 **(22)** 12.08.2021
**(54)** Tarsal-metatarsal joint procedure utilizing fulcrum
**(51)** Int. Cl.
***A61B 17/88*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016308483
**(72)** BAYS, F. Barry; SANTROCK, Robert D; DAYTON, Paul; HATCH, Daniel J; SMITH, W. Bret; GIL, Carlos Eduardo; SCANLAN, Sean F; FERGUSON, Joe William; TREACE, John T
**(74)** Griffith Hack

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**(71)** Trefimet S.A
**(11)** AU-A-2021215276
**(21)** 2021215276 **(22)** 13.08.2021
**(54)** QUICK-COUPLING DEVICE COMPRISING A HOLLOW CYLINDER HAVING BEVELLED ENDS AND TWO CIRCULAR INTERNAL GROOVES
**(51)** Int. Cl.
***F16L 37/088*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019232805
**(72)** Pena Astorga, Victor
**(74)** Churchill Attorneys

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**(71)** Uber Technologies, Inc.
**(11)** AU-A-2021215173
**(21)** 2021215173 **(22)** 11.08.2021
**(54)** First-person perspective view
**(51)** Int. Cl.
***G01C 21/34*** ( 2006.01 )
***G01C 21/36*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018330901
**(72)** LEE, Seung Woo
**(74)** FPA Patent Attorneys Pty Ltd

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**University of Guelph see Yissum Research Development Company of the Hebrew University of Jerusalem, Ltd.**
**(21)** 2021215297

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**Vepachedu, S. see Exciva GMBH**
**(21)** 2021215274

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**(71)** ViaCyte, Inc.
**(11)** AU-A-2021215242
**(21)** 2021215242 **(22)** 13.08.2021
**(54)** ENCAPSULATION OF PANCREATIC CELLS DERIVED FROM HUMAN PLURIPOTENT STEM CELLS
**(51)** Int. Cl.
***C12N 11/00*** ( 2006.01 )
***A61K 35/39*** ( 2015.01 )
***C12N 5/071*** ( 2010.01 )
**(43)** 02.09.2021
**(62)** 2021200419
**(72)** D'Amour, Kevin; Green, Chad; Kelly, Olivia; Agulnick, Alan; Baetge, Emmanuel E.; Kroon, Evert; Martinson, Laura
**(74)** RnB IP Pty Ltd

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**(71)** ViaSat, Inc.
**(11)** AU-A-2021215219
**(21)** 2021215219 **(22)** 12.08.2021
**(54)** BROADBAND SATELLITE COMMUNICATION SYSTEM USING OPTICAL FEEDER LINKS
**(51)** Int. Cl.
***H04B 10/118*** ( 2013.01 )
**(43)** 02.09.2021
**(62)** 2021203431
**(72)** Mendelsohn, Aaron
**(74)** Adams Pluck

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**(71)** View, Inc.
**(11)** AU-A-2021215134
**(21)** 2021215134 **(22)** 10.08.2021
**(54)** Multiple interacting systems at a site
**(51)** Int. Cl.
***G06Q 50/10*** ( 2012.01 )
***G06F 17/00*** ( 2019.01 )
**(43)** 02.09.2021
**(62)** 2015360714
**(72)** Shrivastava, Dhairya; Brown, Stephen C.; Cadet, Ronald F.
**(74)** Spruson & Ferguson

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**Virginia Commonwealth University see Yissum Research Development Company of the Hebrew University of Jerusalem, Ltd.**
**(21)** 2021215297

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**(71)** Visa International Service Association
**(11)** AU-A-2021215207
**(21)** 2021215207 **(22)** 12.08.2021
**(54)** Mid-range reader interactions
**(51)** Int. Cl.
***H04W 4/00*** ( 2018.01 )
***G06K 17/00*** ( 2006.01 )

## Applications Open to Public Inspection - Name Index cont'd

***H04W 4/06*** ( 2009.01 )
***H04W 12/06*** ( 2021.01 )
**(43)** 02.09.2021
**(62)** 2017228450
**(72)** Jin, Jing; Bellenger, Thomas; Aabye, Christian; Carroll, Bryan
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Visa International Service Association
**(11)** AU-A-2021215250
**(21)** 2021215250 **(22)** 13.08.2021
**(54)** System and method employing reduced time device processing
**(51)** Int. Cl.
***G06F 21/31*** ( 2013.01 )
***G06F 21/45*** ( 2013.01 )
***G06F 21/60*** ( 2013.01 )
***H04L 9/32*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016399761
**(72)** HURRY, Simon; CLARK, Aron; CLEVEN, Marc
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** VTEX Pty Ltd
**(11)** AU-A-2021200923
**(21)** 2021200923 **(22)** 12.02.2021
**(54)** PICKET POST
**(51)** Int. Cl.
***E04H 17/02*** ( 2006.01 )
***E04H 17/14*** ( 2006.01 )
***E04H 17/22*** ( 2006.01 )
**(31)** 2020900405 **(32)** 13.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Brims, David Neil
**(74)** Michael Buck IP

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**(71)** W. L. Gore & Associates, Inc.
**(11)** AU-A-2021215235
**(21)** 2021215235 **(22)** 12.08.2021
**(54)** Devices for occlusion of an atrial appendage
**(51)** Int. Cl.
***A61B 17/12*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2016260549
**(72)** CENTER, Charles J.; FOX, Aaron D.; KOREY, Nathan C.; SHAW, Edward E.; WEBSTER, Nicholas S.; WHAM, Bret J.; WOLFE, Roark N.; ZELLER, Peter J.
**(74)** Griffith Hack

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**(71)** Warby Parker Inc.
**(11)** AU-A-2021215179
**(21)** 2021215179 **(22)** 11.08.2021
**(54)** Virtual try-on systems and methods for spectacles
**(51)** Int. Cl.
***G06T 19/00*** ( 2011.01 )
***G06T 7/62*** ( 2017.01 )
**(43)** 02.09.2021
**(62)** 2019419376
**(72)** Goldberg, David; Rakowski, Michael; Cohen, Benjamin; Hall, Ben; Bernberg, Brian; Zachritz, Hannah
**(74)** FB Rice Pty Ltd

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**(71)** Wareing, C.
**(11)** AU-A-2021218013
**(21)** 2021218013 **(22)** 16.08.2021
**(54)** Gate Stop
**(51)** Int. Cl.
***E05C 17/02*** ( 2006.01 )
***E06B 11/02*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018241229
**(72)** Wareing, Colin
**(74)** Sandercock & Cowie

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**(71)** Well Universal Pty Ltd
**(11)** AU-A-2021217995
**(21)** 2021217995 **(22)** 16.08.2021
**(54)** A METHOD AND A PROCESSOR FOR DETERMINING HEALTH OF AN INDIVIDUAL
**(51)** Int. Cl.
***A61B 5/00*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2015345998
**(72)** WILD, Travis Leigh
**(74)** FOUNDRY INTELLECTUAL PROPERTY PTY LTD

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**Western Sydney Local Health District see The University of Sydney**
**(21)** 2021215254

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**(71)** WIREMAN PTY LIMITED
**(11)** AU-A-2021200792
**(21)** 2021200792 **(22)** 08.02.2021
**(54)** A Fence Post Body
**(51)** Int. Cl.
***E04H 17/20*** ( 2006.01 )
***E04H 17/02*** ( 2006.01 )
***E04H 17/22*** ( 2006.01 )
**(31)** 2020900420 **(32)** 14.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** OLD, Fraser Patison
**(74)** Fraser Old & Sohn

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**(71)** Wolzien LLC
**(11)** AU-A-2021215273
**(21)** 2021215273 **(22)** 13.08.2021
**(54)** Video call center
**(51)** Int. Cl.
***H04N 7/15*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019204999
**(72)** WOLZIEN, Thomas R.
**(74)** Spruson & Ferguson

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**(71)** XOMA Technology Ltd.
**(11)** AU-A-2021215206
**(21)** 2021215206 **(22)** 12.08.2021
**(54)** Antibodies Specific For TGF-Beta
**(51)** Int. Cl.
***C07K 16/22*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2019204781
**(72)** BEDINGER, Daniel; KHAN, Shireen S.; MIRZA, Amer; NARASIMHA, Ajay J.; TAKEUCHI, Toshihiko
**(74)** WRAYS PTY LTD

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**(71)** Yissum Research Development Company of the Hebrew University of Jerusalem, Ltd.; Virginia Commonwealth University; University of Guelph
**(11)** AU-A-2021215297
**(21)** 2021215297 **(22)** 13.08.2021
**(54)** Fatty acid amides and uses thereof in the treatment of addiction disorder and addiction related conditions
**(51)** Int. Cl.
***A61K 31/20*** ( 2006.01 )
***A61P 25/30*** ( 2006.01 )
***A61P 25/32*** ( 2006.01 )
***A61P 25/34*** ( 2006.01 )
***A61P 25/36*** ( 2006.01 )
**(43)** 02.09.2021
**(62)** 2018274757
**(72)** Mechoulam, Raphael; Di Marzo, Vincenzo; Piscitelli, Fabiana; Lichtman, Aron H.; Damaj, Imad M.; Parker, Linda; Yaka, Rami
**(74)** Griffith Hack

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**(71)** Zhejiang Orient Gene Biotech Co.,Ltd
**(11)** AU-A-2021200680
**(21)** 2021200680 **(22)** 03.02.2021
**(54)** DEVICE AND METHOD FOR DISTINGUISHING SMOKING E-CIGARETTE FROM SMOKING CIGARETTE
**(51)** Int. Cl.
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***G01N 21/78*** ( 2006.01 )
***G01N 33/53*** ( 2006.01 )
***G01N 33/94*** ( 2006.01 )
**(31)** 2020100902491 **(32)** 13.02.20 **(33)** CN
63/023,213 11.05.20 US
**(43)** 02.09.2021
**(72)** SHEN, Lili; FENG, Haiying; FANG, Jianqiu
**(74)** Baxter Patent Attorneys Pty Ltd

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**2021218001** BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD.
**2021218002** Load and Move Pty Ltd
**2021218003** ObsEva SA
**2021218005** Eximis Surgical Inc.
**2021218007** SALK INSTITUTE FOR BIOLOGICAL STUDIES
**2021218008** Connected Group Australia Pty Ltd
**2021218013** Wareing, C.
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**2021218020** Implantica Patent Ltd

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**No IPC Mark**

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. (**) Title not given

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**(71)** Abbisko Therapeutics Co., Ltd.
**(11)** AU-A-2020264642
**(21)** 2020264642 **(22)** 27.04.2020
**(54)** CD73 inhibitor, preparation method therefor and application thereof
**(51)** Int. Cl.
***C07H 19/16*** ( 2006.01 )
***A61K 31/70*** ( 2006.01 )
***A61K 31/7052*** ( 2006.01 )
***A61K 31/7076*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07H 19/20*** ( 2006.01 )
***C07H 19/207*** ( 2006.01 )
**(87)** WO2020/221209
**(31)** 201910350348.6 **(32)** 28.04.19 **(33)** CN
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**(43)** 05.11.2020
**(72)** DENG, Haibing; YU, Hongping; CHEN, Zhui; XU, Yaochang
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Actym Therapeutics, Inc.
**(11)** AU-A-2020229875
**(21)** 2020229875 **(22)** 27.02.2020
**(54)** Immunostimulatory bacteria engineered to colonize tumors, tumor-resident immune cells, and the tumor microenvironment
**(51)** Int. Cl.
***C07K 14/47*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 37/04*** ( 2006.01 )
***C07K 14/46*** ( 2006.01 )
***C07K 14/465*** ( 2006.01 )
***C12N 1/36*** ( 2006.01 )
**(87)** WO2020/176809
**(31)** 62/962,140 **(32)** 16.01.20 **(33)** US
62/934,478 12.11.19 US
62/811,521 27.02.19 US
62/828,990 03.04.19 US
**(43)** 03.09.2020
**(72)** THANOS, Christopher D.; GLICKMAN, Laura Hix; SKOBLE, Justin; IANNELLO, Alexandre Charles Michel; KEHOE, Haixing
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Aerie Pharmaceuticals, Inc.
**(11)** AU-A-2020216470
**(21)** 2020216470 **(22)** 31.01.2020
**(54)** Compounds, compositions and methods for treatment of myopia
**(51)** Int. Cl.
***C07D 451/02*** ( 2006.01 )
***A61K 31/4409*** ( 2006.01 )
***A61K 31/46*** ( 2006.01 )
***A61K 47/06*** ( 2006.01 )
***A61P 27/10*** ( 2006.01 )
***C07D 213/56*** ( 2006.01 )
**(87)** WO2020/160493
**(31)** 62/800,312 **(32)** 01.02.19 **(33)** US
62/801,515 05.02.19 US
62/819,236 15.03.19 US
**(43)** 06.08.2020
**(72)** CARLSON, Eric; DELONG, Mitchell A.; GORDHAN, Heeren; LICHOROWIC, Cynthia L.; STURDIVANT, Jill M.
**(74)** K&L Gates

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**(71)** Agios Pharmaceuticals, Inc.
**(11)** AU-A-2020221837
**(21)** 2020221837 **(22)** 12.02.2020
**(54)** Thieno[3,2-b] pyrrole[3,2-d]pyridazinone derivatives and their use as PKM2 derivatives for the treatment of cancer, obesity and diabetes related disorders
**(51)** Int. Cl.
***A61P 35/00*** ( 2006.01 )
***A61K 31/407*** ( 2006.01 )
***A61K 31/5025*** ( 2006.01 )
***A61P 3/10*** ( 2006.01 )
***C07D 487/04*** ( 2006.01 )
***C07D 487/14*** ( 2006.01 )
***C07D 495/04*** ( 2006.01 )
***C07D 495/14*** ( 2006.01 )
***C07D 498/14*** ( 2006.01 )
***C07D 513/14*** ( 2006.01 )
**(87)** WO2020/167976
**(31)** 62/805,040 **(32)** 13.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** LIU, Tao; SUI, Zhihua; JI, Jingjing
**(74)** Spruson & Ferguson

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**(71)** Akeso Biopharma, Inc
**(11)** AU-A-2019412405
**(21)** 2019412405 **(22)** 27.12.2019
**(54)** Antibody against human IL-4RA and use thereof
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***A61P 11/06*** ( 2006.01 )
***A61P 17/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 37/02*** ( 2006.01 )
***A61P 37/08*** ( 2006.01 )
***C12N 15/13*** ( 2006.01 )
**(87)** WO2020/135710
**(31)** 201811618948.8 **(32)** 27.12.18 **(33)** CN
**(43)** 02.07.2020
**(72)** LI, Baiyong; XIA, Yu; WANG, Zhongmin; ZHANG, Peng
**(74)** Shelston IP Pty Ltd.

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**(71)** Alcon Inc.
**(11)** AU-A-2020249883
**(21)** 2020249883 **(22)** 09.03.2020
**(54)** System and method of utilizing computer-aided identification with medical procedures
**(51)** Int. Cl.
***G06K 9/00*** ( 2006.01 )
**(87)** WO2020/194094
**(31)** 62/823,938 **(32)** 26.03.19 **(33)** US
**(43)** 01.10.2020
**(72)** EIL, Martin
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Alexion Pharmaceuticals, Inc.
**(11)** AU-A-2020223298
**(21)** 2020223298 **(22)** 13.02.2020
**(54)** Dosage and administration of anti-C5 antibodies for treatment of generalized myasthenia gravis
**(51)** Int. Cl.
***C07K 16/18*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***A61P 21/04*** ( 2006.01 )
**(87)** WO2020/168079
**(31)** 62/805,350 **(32)** 14.02.19 **(33)** US
62/814,935 07.03.19 US
**(43)** 20.08.2020
**(72)** FUJITA, Kenji; RAMPAL, Nishi; PAN, Wei-Jian; PATRA, Kaushik
**(74)** Southern Cross Intellectual Property

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**(71)** Allnex Netherlands
**(11)** AU-A-2020230424
**(21)** 2020230424 **(22)** 05.03.2020
**(54)** Aqueous coating composition
**(51)** Int. Cl.
***C09D 133/06*** ( 2006.01 )
***C09D 133/26*** ( 2006.01 )
**(87)** WO2020/178378
**(31)** 19161370.2 **(32)** 07.03.19 **(33)** EP
**(43)** 10.09.2020
**(72)** MESTACH, Dirk Emiel Paula; VERHAGEN, Nicole Emile Maria; VAN GORKUM, Anne P.M.; ADOLPHS, Robert L.
**(74)** Griffith Hack

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**(71)** Alucent Biomedical, Inc.
**(11)** AU-A-2020232921
**(21)** 2020232921 **(22)** 28.02.2020
**(54)** Apparatus and methods for restoring tissue
**(51)** Int. Cl.
***A61M 25/10*** ( 2013.01 )
***A61B 17/22*** ( 2006.01 )
***A61B 18/22*** ( 2006.01 )
***A61B 18/24*** ( 2006.01 )
**(87)** WO2020/180638
**(31)** 16/290,363 **(32)** 01.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** PERKINS, D H; HAYES, RB Eugene; SCOTT, Robert R.
**(74)** RnB IP Pty Ltd

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

**(71)** American Sterilizer Company
**(11)** AU-A-2020221009
**(21)** 2020221009 **(22)** 30.01.2020
**(54)** High foaming liquid alkaline cleaner concentrate composition
**(51)** Int. Cl.
***C11D 1/14*** ( 2006.01 )
***C11D 3/30*** ( 2006.01 )
***C11D 11/00*** ( 2006.01 )
**(87)** WO2020/167483
**(31)** 16/272,282 **(32)** 11.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** LINDER, Jessica Sue Haney Boester; XIA, Ping; KAISER, Nancy-Hope E.
**(74)** AJ PARK

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**(71)** AMSL Innovations Pty Ltd
**(11)** AU-A-2020243830
**(21)** 2020243830 **(22)** 19.03.2020
**(54)** Vertical take-off and landing (VTOL) aircraft
**(51)** Int. Cl.
***B64C 29/00*** ( 2006.01 )
***B64C 9/00*** ( 2006.01 )
***B64C 39/06*** ( 2006.01 )
**(87)** WO2020/186305
**(31)** 2019900954 **(32)** 21.03.19 **(33)** AU
**(43)** 24.09.2020
**(72)** MOORE, Andrew Dudley; WILSON, John
**(74)** Cotters Patent & Trade Mark Attorneys

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**(71)** Arrow Group Global Limited
**(11)** AU-A-2020205844
**(21)** 2020205844 **(22)** 11.01.2020
**(54)** Display device support arm
**(51)** Int. Cl.
***F16M 11/08*** ( 2006.01 )
***F16M 11/10*** ( 2006.01 )
***F16M 11/20*** ( 2006.01 )
***F16M 11/24*** ( 2006.01 )
***F16M 13/02*** ( 2006.01 )
**(87)** WO2020/144660
**(31)** 1900397.9 **(32)** 11.01.19 **(33)** GB
**(43)** 16.07.2020
**(72)** WALKER, David Andrew; NYE, Samuel John; FRANCIS, Timothy
**(74)** Madderns Pty Ltd

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**(71)** Arsenal AAA, LLC
**(11)** AU-A-2020225561
**(21)** 2020225561 **(22)** 24.02.2020
**(54)** Crosslinkable polymer compositions
**(51)** Int. Cl.
***C08L 83/04*** ( 2006.01 )
***A61B 17/12*** ( 2006.01 )
***A61L 24/04*** ( 2006.01 )
**(87)** WO2020/172665
**(31)** 62/809,254 **(32)** 22.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** WILTSEY, Craig; MANSUKHANI, Nikhita; GROOM, Jeffrey; RIELLY, Kate; YOU, Changcheng; CONCAGH, Danny
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Ascendis Pharma Endocrinology Division A/S
**(11)** AU-A-2020233198
**(21)** 2020233198 **(22)** 03.03.2020
**(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 )
***A61K 47/26*** ( 2006.01 )
***A61K 47/60*** ( 2017.01 )
***A61P 5/06*** ( 2006.01 )
**(87)** WO2020/178273
**(31)** 19160459.4 **(32)** 04.03.19 **(33)** EP
**(43)** 10.09.2020
**(72)** SPROGØE, Kennett
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Atos Medical AB
**(11)** AU-A-2020223508
**(21)** 2020223508 **(22)** 13.02.2020
**(54)** Breathing protector
**(51)** Int. Cl.
***A61M 16/04*** ( 2006.01 )
*A61M 16/10* ( 2006.01 )
**(87)** WO2020/165373
**(31)** 1950189-9 **(32)** 15.02.19 **(33)** SE
**(43)** 20.08.2020
**(72)** JENNFORS, Peter
**(74)** Madderns Pty Ltd

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**(71)** AT-PAC China Business Trust
**(11)** AU-A-2020251696
**(21)** 2020251696 **(22)** 07.04.2020
**(54)** Scaffold rosette
**(51)** Int. Cl.
***E04G 7/32*** ( 2006.01 )
***E04G 7/30*** ( 2006.01 )
**(87)** WO2020/200324
**(31)** 3,039,447 **(32)** 05.04.19 **(33)** CA
**(43)** 08.10.2020
**(72)** ROGERS, Peter
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Autolus Limited
**(11)** AU-A-2020235395
**(21)** 2020235395 **(22)** 06.03.2020
**(54)** Compositions and methods comprising engineered chimeric antigen receptor and modulator of CAR
**(51)** Int. Cl.
***A61K 35/13*** ( 2015.01 )
***A61K 35/17*** ( 2015.01 )
***C07K 14/08*** ( 2006.01 )
***C07K 14/15*** ( 2006.01 )
***C07K 14/155*** ( 2006.01 )
***C12N 7/00*** ( 2006.01 )
**(87)** WO2020/183131
**(31)** 1903237.4 **(32)** 08.03.19 **(33)** GB
1914216.5 02.10.19 GB
1916077.9 05.11.19 GB
**(43)** 17.09.2020
**(72)** PULÉ, Martin; PEDDAREDDIGARI, Vijay; ITIN, Christian
**(74)** Pairman IP

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**(71)** Axcess Global Sciences, LLC
**(11)** AU-A-2020221031
**(21)** 2020221031 **(22)** 06.02.2020
**(54)** Beta-hydroxybutyrate mixed salt-acid compositions and methods of use
**(51)** Int. Cl.
***A61K 31/12*** ( 2006.01 )
***A61K 31/191*** ( 2006.01 )
***C12P 7/26*** ( 2006.01 )
**(87)** WO2020/167571
**(31)** 16/272,145 **(32)** 11.02.19 **(33)** US
16/720,211 19.12.19 US
**(43)** 20.08.2020
**(72)** MILLET, Gary
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Axcess Global Sciences, LLC
**(11)** AU-A-2020221569
**(21)** 2020221569 **(22)** 10.02.2020
**(54)** Racemic beta-hydroxybutyrate mixed salt-acid compositions and methods of use
**(51)** Int. Cl.
***A61K 31/19*** ( 2006.01 )
***A23L 33/12*** ( 2006.01 )
***A61P 3/08*** ( 2006.01 )
**(87)** WO2020/167690
**(31)** 16/272,145 **(32)** 11.02.19 **(33)** US
62/805,054 13.02.19 US
16/720,211 19.12.19 US
16/783,956 06.02.20 US
**(43)** 20.08.2020
**(72)** MILLET, Gary
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Axcess Global Sciences, LLC
**(11)** AU-A-2020221916
**(21)** 2020221916 **(22)** 10.02.2020
**(54)** S-beta-hydroxybutyrate compounds and compositions enriched with S-enantiomer
**(51)** Int. Cl.
***A61K 31/19*** ( 2006.01 )
***A23L 33/12*** ( 2016.01 )
***A61P 3/08*** ( 2006.01 )
**(87)** WO2020/167693
**(31)** 16/272,192 **(32)** 11.02.19 **(33)** US
16/783,886 06.02.20 US
**(43)** 20.08.2020
**(72)** MILLET, Gary
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Axcess Global Sciences, LLC
**(11)** AU-A-2020222897
**(21)** 2020222897 **(22)** 10.02.2020
**(54)** Non-racemic beta-hydroxybutyrate compounds and compositions enriched with the R-enantiomer and methods of use
**(51)** Int. Cl.
***A61K 31/19*** ( 2006.01 )
***A23L 33/12*** ( 2016.01 )

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

***A61P 3/08*** ( 2006.01 )
**(87)** WO2020/167692
**(31)** 16/272,165 **(32)** 11.02.19 **(33)** US
16/409,501 10.05.19 US
16/783,844 06.02.20 US
**(43)** 20.08.2020
**(72)** MILLET, Gary
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Bairstow, J.A.
**(11)** AU-A-2020210098
**(21)** 2020210098 **(22)** 15.01.2020
**(54)** A tampon
**(51)** Int. Cl.
***A61F 13/20*** ( 2006.01 )
**(87)** WO2020/148537
**(31)** 1900729.3 **(32)** 18.01.19 **(33)** GB
**(43)** 23.07.2020
**(72)** BAIRSTOW, John Anthony
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** BASF SE
**(11)** AU-A-2020226609
**(21)** 2020226609 **(22)** 11.02.2020
**(54)** Pesticidal mixtures comprising a pyrazole compound
**(51)** Int. Cl.
***A01N 43/58*** ( 2006.01 )
***A01N 33/20*** ( 2006.01 )
***A01N 37/34*** ( 2006.01 )
***A01N 37/46*** ( 2006.01 )
***A01N 37/52*** ( 2006.01 )
***A01N 43/40*** ( 2006.01 )
***A01N 43/42*** ( 2006.01 )
***A01N 43/54*** ( 2006.01 )
***A01N 43/56*** ( 2006.01 )
***A01N 43/60*** ( 2006.01 )
***A01N 43/653*** ( 2006.01 )
***A01N 43/713*** ( 2006.01 )
***A01N 43/76*** ( 2006.01 )
***A01N 43/78*** ( 2006.01 )
***A01N 43/80*** ( 2006.01 )
***A01N 43/82*** ( 2006.01 )
***A01N 47/20*** ( 2006.01 )
**(87)** WO2020/169414
**(31)** 19158312.9 **(32)** 20.02.19 **(33)** EP
**(43)** 27.08.2020
**(72)** REINHARD, Robert; GEWEHR, Markus; SOERGEL, Sebastian
**(74)** Griffith Hack

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**(71)** Bayer Aktiengesellschaft
**(11)** AU-A-2020229979
**(21)** 2020229979 **(22)** 24.02.2020
**(54)** Fused bicyclic heterocycle derivatives as pesticides
**(51)** Int. Cl.
***C07D 471/04*** ( 2006.01 )
***A01N 43/90*** ( 2006.01 )
***C07D 487/04*** ( 2006.01 )
**(87)** WO2020/173860
**(31)** PCT/ **(32)** 26.02.19 **(33)** IB
CN2019/076145
**(43)** 03.09.2020
**(72)** HOFFMEISTER, Laura; FISCHER, Rüdiger; WILLOT, Matthieu; HAGER, Dominik; ILG, Kerstin; LINKA, Marc; GÖRGENS, Ulrich; LÖSEL, Peter; XIANG, Jing; ZHU, Yongkuan; TURBERG, Andreas
**(74)** Davies Collison Cave Pty Ltd

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**(71)** BeiGene, Ltd.
**(11)** AU-A-2020218383
**(21)** 2020218383 **(22)** 06.02.2020
**(54)** Imidazo [2, 1-f] [1, 2, 4] triazin-4-amine derivatives as TLR7 agonist
**(51)** Int. Cl.
***C07D 487/04*** ( 2006.01 )
***A61K 31/395*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/160710
**(31)** PCT/ **(32)** 07.02.19 **(33)** CN
CN2019/074732
PCT/ 31.07.19 CN
CN2019/098757
PCT/ 22.01.20 CN
CN2020/073673
**(43)** 13.08.2020
**(72)** ZHANG, Guoliang; MIAO, Jianzhuang; ZHOU, Changyou; CHEN, Gang
**(74)** Griffith Hack

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**(71)** Benesi, S.C.
**(11)** AU-A-2020236361
**(21)** 2020236361 **(22)** 05.03.2020
**(54)** Filter apparatus, filter disc sectors, filter elements and uses
**(51)** Int. Cl.
***B01D 33/21*** ( 2006.01 )
***B01D 33/23*** ( 2006.01 )
***B01D 39/12*** ( 2006.01 )
**(87)** WO2020/185484
**(31)** 62/919,383 **(32)** 08.03.19 **(33)** US
**(43)** 17.09.2020
**(72)** BENESI, Steve C.
**(74)** Spruson & Ferguson

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**(71)** Big Moon Power, Inc.
**(11)** AU-A-2020236379
**(21)** 2020236379 **(22)** 06.03.2020
**(54)** Systems and methods for hydro-based electric power generation
**(51)** Int. Cl.
***F03B 7/00*** ( 2006.01 )
***F03B 17/06*** ( 2006.01 )
**(87)** WO2020/185564
**(31)** 62/815,670 **(32)** 08.03.19 **(33)** US
62/866,376 25.06.19 US
**(43)** 17.09.2020
**(72)** BLODGETT, Lynn; BAGLEY, Colin; JENKINS, Andrew; BLODGETT, Jeff; DUNOW, Robert; BLODGETT, Ernest
**(74)** Shelston IP Pty Ltd.

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**(71)** Bignon, P.; Wan-Hoi, A.; Bouwer, A.
**(11)** AU-A-2019424710
**(21)** 2019424710 **(22)** 24.01.2019
**(54)** Pumping system and fluid delivery installation
**(51)** Int. Cl.
***F04B 9/113*** ( 2006.01 )
***F03C 1/007*** ( 2006.01 )
***F04F 7/02*** ( 2006.01 )
**(87)** WO2020/152402
**(43)** 30.07.2020
**(72)** BIGNON, Pierre; WAN-HOI, Armand; BOUWER, Anton
**(74)** Madderns Pty Ltd

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**(71)** Bilias, P.
**(11)** AU-A-2020210106
**(21)** 2020210106 **(22)** 14.01.2020
**(54)** Drink dispensing device
**(51)** Int. Cl.
***B67D 3/00*** ( 2006.01 )
**(87)** WO2020/148559
**(31)** 20190100016 **(32)** 14.01.19 **(33)** GR
**(43)** 23.07.2020
**(72)** BILIAS, Panagiotis
**(74)** Alder IP Pty Ltd

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**(71)** Bio Optimal Limited
**(11)** AU-A-2020235232
**(21)** 2020235232 **(22)** 11.03.2020
**(54)** Apparatus and method for forming a sealing end from a length of flexible tubing
**(51)** Int. Cl.
***F16L 23/16*** ( 2006.01 )
***A61M 39/10*** ( 2006.01 )
***F16L 31/00*** ( 2006.01 )
***F16L 31/02*** ( 2006.01 )
**(87)** WO2020/182906
**(31)** 1903367.9 **(32)** 12.03.19 **(33)** GB
**(43)** 17.09.2020
**(72)** MAUNDER, Roy Peter
**(74)** Cotters Patent & Trade Mark Attorneys

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**(71)** BioPoly, LLC
**(11)** AU-A-2020209674
**(21)** 2020209674 **(22)** 14.01.2020
**(54)** Implant systems for repair of a humeral head
**(51)** Int. Cl.
***A61F 2/30*** ( 2006.01 )
***A61F 2/00*** ( 2006.01 )
***A61F 2/08*** ( 2006.01 )
***A61F 2/46*** ( 2006.01 )
***A61L 27/44*** ( 2006.01 )
***A61L 27/56*** ( 2006.01 )
**(87)** WO2020/150216
**(31)** 62/792,594 **(32)** 15.01.19 **(33)** US
**(43)** 23.07.2020
**(72)** SCHWARTZ, Herbert E.; MROCZKOWSKI, Matthew L.
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Bios S.r.l.
**(11)** AU-A-2020228163
**(21)** 2020228163 **(22)** 27.02.2020
**(54)** Apparatus and method for fat and cellulite reduction using RF energy in combination with magnetic muscle thermostimulation (EMS)
**(51)** Int. Cl.
***A61N 2/02*** ( 2006.01 )
***A61B 18/00*** ( 2006.01 )
***A61M 37/00*** ( 2006.01 )
***A61N 1/04*** ( 2006.01 )
***A61N 1/40*** ( 2006.01 )

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

**(87)** WO2020/174444
**(31)** 62/812,123 **(32)** 28.02.19 **(33)** US
62/884,099 07.08.19 US
62/908,741 01.10.19 US
**(43)** 03.09.2020
**(72)** CASALINO, Lorenzo; CASALINO, Aldo
**(74)** WRAYS PTY LTD

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**(71)** Blind Insites, LLC
**(11)** AU-A-2020218207
**(21)** 2020218207 **(22)** 06.02.2020
**(54)** Methods and systems for wireless acquisition and presentation of local spatial information
**(51)** Int. Cl.
***G01C 21/20*** ( 2006.01 )
***G01S 5/08*** ( 2006.01 )
***H04W 4/024*** ( 2018.01 )
***H04W 4/33*** ( 2018.01 )
**(87)** WO2020/163576
**(31)** 62/802,053 **(32)** 06.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** BELT, Darwin Wayne; HIPP, Jessica B.; HILTON, Jeffrey; HILTON, April Ryan
**(74)** Spruson & Ferguson

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**(71)** Board of Regents, The University of Texas System
**(11)** AU-A-2020217747
**(21)** 2020217747 **(22)** 07.02.2020
**(54)** Telomerase-containing exosomes for treatment of diseases associated with aging and age-related organ dysfunction
**(51)** Int. Cl.
***A61K 9/127*** ( 2006.01 )
***A61K 9/51*** ( 2006.01 )
***A61K 38/43*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***A61K 47/50*** ( 2017.01 )
***A61K 47/62*** ( 2017.01 )
**(87)** WO2020/163705
**(31)** 62/803,023 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** KALLURI, Raghu
**(74)** RNB IP PTY LTD

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**(71)** Boehringer Ingelheim International GmbH
**(11)** AU-A-2020250810
**(21)** 2020250810 **(22)** 26.03.2020
**(54)** Anticancer combination therapy
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/200997
**(31)** 19166375.6 **(32)** 29.03.19 **(33)** EP
**(43)** 08.10.2020
**(72)** ZINZALLA, Vittoria; DROBITS-HANDL, Barbara; BAUER, Markus Johann
**(74)** Spruson & Ferguson

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**(71)** Bostik, Inc.
**(11)** AU-A-2020241513
**(21)** 2020241513 **(22)** 12.03.2020
**(54)** Wetness indicator free from halogen-containing species
**(51)** Int. Cl.
***A61F 13/42*** ( 2006.01 )
**(87)** WO2020/190625
**(31)** 62/818,830 **(32)** 15.03.19 **(33)** US
**(43)** 24.09.2020
**(72)** SECRIST, Kimberly E.; JANETSKI, Neil G.
**(74)** Dark IP

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**(71)** Breville USA, Inc.
**(11)** AU-A-2020211073
**(21)** 2020211073 **(22)** 24.01.2020
**(54)** Food storage system, method and computer readable medium
**(51)** Int. Cl.
***G06Q 10/08*** ( 2012.01 )
***G06K 19/06*** ( 2006.01 )
**(87)** WO2020/152634
**(31)** 62/796,997 **(32)** 25.01.19 **(33)** US
**(43)** 30.07.2020
**(72)** YOUNG, Christopher Charles; BALDWIN, Douglas; HARPER JR., Kent Michael; STARBIRD, Edward
**(74)** Spruson & Ferguson

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**(71)** Casale SA
**(11)** AU-A-2020230827
**(21)** 2020230827 **(22)** 18.02.2020
**(54)** Method for revamping a catalytic converter
**(51)** Int. Cl.
***B01J 8/04*** ( 2006.01 )
***B01J 8/00*** ( 2006.01 )
**(87)** WO2020/178019
**(31)** 19161126.8 **(32)** 06.03.19 **(33)** EP
**(43)** 10.09.2020
**(72)** FORMENTINI, Francesco
**(74)** Chrysiliou IP

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**(71)** Caterpillar Inc.
**(11)** AU-A-2020221180
**(21)** 2020221180 **(22)** 23.01.2020
**(54)** Augmented reality model orientation alignment
**(51)** Int. Cl.
***A63F 13/213*** ( 2014.01 )
***A63F 13/40*** ( 2014.01 )
***A63F 13/52*** ( 2014.01 )
***A63F 13/53*** ( 2014.01 )
***A63F 13/533*** ( 2014.01 )
***A63F 13/65*** ( 2014.01 )
**(87)** WO2020/167438
**(31)** 16/274,033 **(32)** 12.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** WAGNER, James; KFOUF, Shadi; ROSE, Scott M.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Caterpillar Inc.
**(11)** AU-A-2020222814
**(21)** 2020222814 **(22)** 05.02.2020
**(54)** Apparatus for facilitating pivotal movement of implements in machines
**(51)** Int. Cl.
***E02F 3/36*** ( 2006.01 )
***E02F 3/38*** ( 2006.01 )
***E02F 3/42*** ( 2006.01 )
**(87)** WO2020/167536
**(31)** 16/275,407 **(32)** 14.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** KERESTES, Chad William
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** CDA Research Group, Inc.
**(11)** AU-A-2020226318
**(21)** 2020226318 **(22)** 10.02.2020
**(54)** System for use in producing a metal ion suspension and process of using same
**(51)** Int. Cl.
***A61K 31/30*** ( 2006.01 )
***A61K 33/34*** ( 2006.01 )
***C22B 3/02*** ( 2006.01 )
***C22B 3/04*** ( 2006.01 )
***C22B 15/00*** ( 2006.01 )
**(87)** WO2020/171994
**(31)** 16/283,605 **(32)** 22.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** ABBOTT, Chunlim; ABBOTT, Dominic C.
**(74)** Spruson & Ferguson

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**(71)** CHEP Technology Pty Limited
**(11)** AU-A-2020232700
**(21)** 2020232700 **(22)** 04.03.2020
**(54)** Hybrid pallet
**(51)** Int. Cl.
***B65D 19/00*** ( 2006.01 )
***B65D 19/32*** ( 2006.01 )
***B65D 19/38*** ( 2006.01 )
**(87)** WO2020/180918
**(31)** 62/814,358 **(32)** 06.03.19 **(33)** US
16/805,973 02.03.20 US
**(43)** 10.09.2020
**(72)** WOOD, Matthew; MELIA, Paul M.; LANTZ, Daniel J.
**(74)** Spruson & Ferguson

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**(71)** CHEP Technology Pty Limited
**(11)** AU-A-2020232925
**(21)** 2020232925 **(22)** 28.02.2020
**(54)** Method for forming a pallet with plastic coated support blocks
**(51)** Int. Cl.
***B65D 19/31*** ( 2006.01 )
***B65D 19/26*** ( 2006.01 )
***B65D 19/38*** ( 2006.01 )
***B65D 19/40*** ( 2006.01 )
**(87)** WO2020/180654
**(31)** 62/814,350 **(32)** 06.03.19 **(33)** US
16/802,698 27.02.20 US
**(43)** 10.09.2020
**(72)** WOOD, Matthew; DE LAENDER, Bart; ANDERSON III, David Paul; LANTZ, Daniel J.; MELIA, Paul M.
**(74)** Spruson & Ferguson

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**(71)** Chevron U.S.A. Inc.
**(11)** AU-A-2020231612
**(21)** 2020231612 **(22)** 12.02.2020
**(54)** System and method for displaying seismic events in distributed acoustic sensing data

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

**(51)** Int. Cl.
***G01V 1/36*** ( 2006.01 )
***G01V 1/42*** ( 2006.01 )
***G06N 3/02*** ( 2006.01 )
*E21B 47/00* ( 2012.01 )
**(87)** WO2020/178648
**(31)** 16/291,912 **(32)** 04.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** ZHANG, Lin
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Chia Tai Tianqing Pharmaceutical Group Co., Ltd.
**(11)** AU-A-2019424375
**(21)** 2019424375 **(22)** 27.09.2019
**(54)** N-heterocyclic five-membered ring-containing capsid protein assembly inhibitor, pharmaceutical composition and uses thereof
**(51)** Int. Cl.
***C07D 207/34*** ( 2006.01 )
***A61K 31/40*** ( 2006.01 )
***A61P 31/20*** ( 2006.01 )
**(87)** WO2020/151252
**(31)** 201910073465.2 **(32)** 25.01.19 **(33)** CN
**(43)** 30.07.2020
**(72)** ZHANG, Yinsheng; AO, Wangwei; LI, Yuan; WANG, Hui; SHEN, Hangzhou; NI, Jie; ZHANG, Huan; WU, Jie; ZHANG, Li; CAO, Kai; LU, Peng; LIU, Xushi; WANG, Jie; ZHAO, Tianxiao; GE, Xingfeng; LU, Dandan; CHEN, Shuo; MA, Xueqin; SHI, Wei; WANG, Xiaojin; XU, Hongjiang
**(74)** FB Rice Pty Ltd

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**(71)** Chia Tai Tianqing Pharmaceutical Group Co., Ltd.; Nanjing Shunxin Pharmaceuticals Co., Ltd. Of Chiatai Tianqing Pharmaceutical Group
**(11)** AU-A-2020212767
**(21)** 2020212767 **(22)** 23.01.2020
**(54)** Combined pharmaceutical composition for treating tumor
**(51)** Int. Cl.
***A61K 45/00*** ( 2006.01 )
***A61K 31/444*** ( 2006.01 )
***A61K 31/454*** ( 2006.01 )
**(87)** WO2020/151759
**(31)** 201910071632.X **(32)** 25.01.19 **(33)** CN
201910071605.2 25.01.19 CN
201910071393.8 25.01.19 CN
201910071392.3 25.01.19 CN
**(43)** 30.07.2020
**(72)** ZHANG, Xiquan; WANG, Xunqiang; YANG, Chaoqiang; FAN, Yuchen; FAN, Mengxue; FENG, Fan; SU, Nan; LIU, Yao; ZHANG, Chi; JIANG, Hai
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Chiesi Farmaceutici S.p.A.
**(11)** AU-A-2020244071
**(21)** 2020244071 **(22)** 11.03.2020
**(54)** System comprising a pre-fillable syringe and a package for the pre-fillable syringe
**(51)** Int. Cl.
***A61M 5/00*** ( 2006.01 )
***A61M 5/31*** ( 2006.01 )
***A61M 5/32*** ( 2006.01 )
***A61M 39/20*** ( 2006.01 )
**(87)** WO2020/187660
**(31)** 19163093.8 **(32)** 15.03.19 **(33)** EP
**(43)** 24.09.2020
**(72)** PFRANG, Jürgen; GORSHÖFER, Andreas; LOMBARDINI, Marta
**(74)** Lord & Company

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**(71)** Chromaflo Technologies Europe B.V.
**(11)** AU-A-2020236689
**(21)** 2020236689 **(22)** 05.03.2020
**(54)** Solid colorant dispensing unit and tinting machine comprising the same
**(51)** Int. Cl.
***G01F 13/00*** ( 2006.01 )
***B01F 13/10*** ( 2006.01 )
***B65D 90/58*** ( 2006.01 )
**(87)** WO2020/182603
**(31)** 19161693.7 **(32)** 08.03.19 **(33)** EP
**(43)** 17.09.2020
**(72)** THOMMASSEN, Peter Petronella Martinus; HOFMAN, Jeroen; HUIJNEN, Judith Jeanette Elisabeth
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2019421606
**(21)** 2019421606 **(22)** 07.01.2019
**(54)** Subscriber identity management
**(51)** Int. Cl.
***H04W 12/08*** ( 2009.01 )
*H04W 12/06* ( 2009.01 )
*H04W 76/10* ( 2018.01 )
**(87)** WO2020/142864
**(43)** 16.07.2020
**(72)** OU, Yuran; ZANG, Bo; XU, Sai
**(74)** FB Rice Pty Ltd

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2019439058
**(21)** 2019439058 **(22)** 03.04.2019
**(54)** Systems and methods for protecting remotely hosted application from malicious attacks
**(51)** Int. Cl.
***G06F 21/00*** ( 2013.01 )
**(87)** WO2020/199163
**(43)** 08.10.2020
**(72)** LIU, Zhipan; XU, Ke
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2020206992
**(21)** 2020206992 **(22)** 06.01.2020
**(54)** Device augmentation of real time communications
**(51)** Int. Cl.
***H04L 12/18*** ( 2006.01 )
**(87)** WO2020/146235
**(31)** 62/789,189 **(32)** 07.01.19 **(33)** US
16/291,596 04.03.19 US
**(43)** 16.07.2020
**(72)** BEJJANKI, Santhosh Kumar; SHKRABAK, Sergii; SAMPIERI, Thomas John; BOZHKO, Dmytro
**(74)** FB Rice Pty Ltd

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2020207220
**(21)** 2020207220 **(22)** 07.01.2020
**(54)** Secure cloud computing
**(51)** Int. Cl.
***H04L 29/06*** ( 2006.01 )
***G06F 21/57*** ( 2013.01 )
***H04L 29/08*** ( 2006.01 )
***H04L 29/12*** ( 2006.01 )
**(87)** WO2020/146291
**(31)** 16/246,104 **(32)** 11.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** HUANG, Feng; COOPER, Andy
**(74)** FB Rice Pty Ltd

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2020256272
**(21)** 2020256272 **(22)** 05.04.2020
**(54)** Enhanced file sharing systems and methods
**(51)** Int. Cl.
***G06F 16/176*** ( 2019.01 )
***G06F 16/182*** ( 2019.01 )
**(87)** WO2020/206397
**(31)** 16/376,026 **(32)** 05.04.19 **(33)** US
**(43)** 08.10.2020
**(72)** DHANABALAN, Praveen Raja; ATHLUR, Anudeep Narasimhaprasad; ACHYUTH, Nandikotkur
**(74)** Spruson & Ferguson

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**(71)** Citrix Systems, Inc.
**(11)** AU-A-2021202879
**(21)** 2021202879 **(22)** 18.01.2021
**(54)** Migration of a desktop workload
**(51)** Int. Cl.
***G06F 9/44*** ( 2018.01 )
**(31)** 16/794,372 **(32)** 19.02.20 **(33)** US
**(43)** 02.09.2021
**(72)** VAN ROTTERDAM, Jeroen Mattijs; HOUGH, Paul
**(74)** Spruson & Ferguson

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**(71)** Coherus BioSciences, Inc.
**(11)** AU-A-2019419390
**(21)** 2019419390 **(22)** 27.12.2019
**(54)** Compositions and methods to treat non-alcoholic fatty liver diseases (NAFLD)
**(51)** Int. Cl.
***A61K 31/155*** ( 2006.01 )
***A61K 31/47*** ( 2006.01 )
***A61K 31/70*** ( 2006.01 )
***A61K 31/7034*** ( 2006.01 )
***A61K 31/7042*** ( 2006.01 )
***A61K 31/7048*** ( 2006.01 )
***A61K 31/7056*** ( 2006.01 )
***A61K 38/26*** ( 2006.01 )
***A61K 45/06*** ( 2006.01 )
***A61P 1/16*** ( 2006.01 )
**(87)** WO2020/142365

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

**(31)** 62/786,618 **(32)** 31.12.18 **(33)** US
62/827,349 01.04.19 US
**(43)** 09.07.2020
**(72)** MANTZOROS, Christos; ROSEN, Glenn D.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Cohesity, Inc.
**(11)** AU-A-2020217647
**(21)** 2020217647 **(22)** 28.01.2020
**(54)** Hosting virtual machines on a secondary storage system
**(51)** Int. Cl.
***G06F 9/455*** ( 2018.01 )
***G06F 9/48*** ( 2006.01 )
***G06F 11/20*** ( 2006.01 )
**(87)** WO2020/163117
**(31)** 16/389,201 **(32)** 19.04.19 **(33)** US
62/800,717 04.02.19 US
16/676,151 06.11.19 US
**(43)** 13.08.2020
**(72)** BHAT, Anand; BOGGARAPU, Anil Kumar; JAGANNATH, Arvind
**(74)** Clark Intellectual Property Pty Ltd

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**(71)** Commissariat A L'Energie Atomique Et Aux Energies Alternatives; Colas
**(11)** AU-A-2020229509
**(21)** 2020229509 **(22)** 25.02.2020
**(54)** Functional device integrated into a traversable surface and method for producing a traversable surface with same
**(51)** Int. Cl.
***E01C 3/00*** ( 2006.01 )
***E01C 5/00*** ( 2006.01 )
***E01C 9/00*** ( 2006.01 )
***E01C 11/24*** ( 2006.01 )
***E01C 17/00*** ( 2006.01 )
***G08G 1/00*** ( 2006.01 )
***H01L 31/0236*** ( 2006.01 )
***H01L 31/048*** ( 2014.01 )
***H02S 10/00*** ( 2014.01 )
***H02S 20/10*** ( 2014.01 )
***H02S 20/21*** ( 2014.01 )
**(87)** WO2020/174177
**(31)** 1901965 **(32)** 26.02.19 **(33)** FR
**(43)** 03.09.2020
**(72)** HESLINGA, Dick; BOULANGER, Amandine; COQUELLE, Eric; DE BETTIGNIES, Rémi; GAUME, Julien; VITE, Marion
**(74)** Griffith Hack

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**(71)** Concert Pharmaceuticals, Inc.
**(11)** AU-A-2020219797
**(21)** 2020219797 **(22)** 06.02.2020
**(54)** Process for preparing enantiomerically enriched jak inhibitors
**(51)** Int. Cl.
***C07D 487/04*** ( 2006.01 )
***A61K 31/519*** ( 2006.01 )
***A61P 35/02*** ( 2006.01 )
***C07B 59/00*** ( 2006.01 )
***C07C 255/03*** ( 2006.01 )
***C07D 239/30*** ( 2006.01 )
***C07D 403/04*** ( 2006.01 )
**(87)** WO2020/163653
**(31)** 62/850,981 **(32)** 21.05.19 **(33)** US
62/802,129 06.02.19 US
**(43)** 13.08.2020
**(72)** LEWIS, Robert S.; KARLA, Mahender Reddy; KAVOURIS, Kathryn E.; DONG, Yong; MORGAN, Adam J.; COWDEN, Cameron J.
**(74)** Spruson & Ferguson

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**(71)** Conmed Corporation
**(11)** AU-A-2020229332
**(21)** 2020229332 **(22)** 26.02.2020
**(54)** Modular docking system for electrosurgical equipment
**(51)** Int. Cl.
***A61B 18/12*** ( 2006.01 )
*A61B 18/00* ( 2006.01 )
**(87)** WO2020/176578
**(31)** 62/810,486 **(32)** 26.02.19 **(33)** US
**(43)** 03.09.2020
**(72)** FRAME, Dan; COOK, John
**(74)** Griffith Hack

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**(71)** Construction Research & Technology GmbH
**(11)** AU-A-2020221770
**(21)** 2020221770 **(22)** 11.02.2020
**(54)** Systems and methods for performing quality control on a construction composition
**(51)** Int. Cl.
***G06Q 10/00*** ( 2012.01 )
***G06Q 50/08*** ( 2012.01 )
**(87)** WO2020/167731
**(31)** 62/803,864 **(32)** 11.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** DACZKO, Joseph; SCHLAGBAUM, Tony; HENSON, David C.; SEILER, Paul Horst; BURY, Jeffrey; KAYELLO, Hamed
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Cosmax NBT, Inc.; Cosmax NS, Inc.
**(11)** AU-A-2020294219
**(21)** 2020294219 **(22)** 21.05.2020
**(54)** Composition for the prevention or treatment of respiratory diseases caused by fine dust comprising Agastache rugosa and licorice extract
**(51)** Int. Cl.
***A61K 36/532*** ( 2006.01 )
***A61K 36/484*** ( 2006.01 )
***A61P 11/00*** ( 2006.01 )
***A61P 11/14*** ( 2006.01 )
***A61P 29/00*** ( 2006.01 )
**(31)** 10-2020-0020369 **(32)** 19.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** GEUM, Jeong Ho; KIM, Hye Rim; KIM, Jin Hak; CHOI, Su Young
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Coupang Corp.
**(11)** AU-A-2020267213
**(21)** 2020267213 **(22)** 20.07.2020
**(54)** Electronic apparatus and operation method thereof
**(51)** Int. Cl.
***G06Q 10/08*** ( 2012.01 )
**(31)** 10-2020-0019060 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** KIM, Da Young; JEON, Sang Min; JEONG, Jin Won; JIN, Kyeong Suk; PARK, Woo Jung
**(74)** Griffith Hack

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**(71)** Coupang Corp.
**(11)** AU-A-2020281049
**(21)** 2020281049 **(22)** 20.07.2020
**(54)** Electronic apparatus and operation method thereof
**(51)** Int. Cl.
***G06Q 50/28*** ( 2012.01 )
**(31)** 10-2020-0019089 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** HONG, Sun Young; JEON, Sang Min; KIM, So Hee; SONG, Myung Soo; JUNG, Se Hwan
**(74)** Griffith Hack

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**(71)** Coupang Corp.
**(11)** AU-A-2020286264
**(21)** 2020286264 **(22)** 24.07.2020
**(54)** Electronic device for inventory management and its operation method
**(51)** Int. Cl.
***G06Q 50/28*** ( 2012.01 )
**(31)** 10-2020-0019123 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** YANG, Byung Suk; JANG, Dae Yong; KIM, So Hee; HONG, Seon Sook; SONG, Myung Soo
**(74)** Griffith Hack

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**(71)** Coupang Corp.
**(11)** AU-A-2020286265
**(21)** 2020286265 **(22)** 17.07.2020
**(54)** Electronic apparatus for conveying item and operating method thereof
**(51)** Int. Cl.
***G06Q 50/28*** ( 2012.01 )
**(31)** 10-2020-0019036 **(32)** 17.02.20 **(33)** KR
**(43)** 02.09.2021
**(72)** JUNG, Hyun Yop; KANG, Kyung Tae; JANG, Dae Yong; KIM, Da Young; OH, Jeong Seok
**(74)** Griffith Hack

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**(71)** Covidien LP
**(11)** AU-A-2020245284
**(21)** 2020245284 **(22)** 11.03.2020
**(54)** Robotic surgical systems with electrical switch for instrument attachment
**(51)** Int. Cl.
***A61B 34/30*** ( 2016.01 )
***A61B 17/00*** ( 2006.01 )
***A61B 18/00*** ( 2006.01 )
***A61B 18/14*** ( 2006.01 )
***A61B 34/00*** ( 2016.01 )
***A61B 46/10*** ( 2016.01 )
***A61B 90/50*** ( 2016.01 )
**(87)** WO2020/197767
**(31)** 62/823,036 **(32)** 25.03.19 **(33)** US
**(43)** 01.10.2020
**(72)** KAPADIA, Jaimeen
**(74)** Spruson & Ferguson

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

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**(71)** Cox Powertrain Ltd.
**(11)** AU-A-2020231075
**(21)** 2020231075 **(22)** 05.03.2020
**(54)** Marine outboard motor with shift mechanism
**(51)** Int. Cl.
***B63H 20/20*** ( 2006.01 )
**(87)** WO2020/178586
**(31)** 1903092.3 **(32)** 07.03.19 **(33)** GB
**(43)** 10.09.2020
**(72)** BARRATT, James
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Cox Powertrain Ltd.
**(11)** AU-A-2020231161
**(21)** 2020231161 **(22)** 05.03.2020
**(54)** A marine outboard motor with a transmission lubrication system and lubricant filter
**(51)** Int. Cl.
***B63H 20/00*** ( 2006.01 )
***B63H 20/28*** ( 2006.01 )
***F01P 3/20*** ( 2006.01 )
**(87)** WO2020/178585
**(31)** 1903073.3 **(32)** 07.03.19 **(33)** GB
**(43)** 10.09.2020
**(72)** BARRATT, James
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Cox Powertrain Ltd.
**(11)** AU-A-2020231603
**(21)** 2020231603 **(22)** 05.03.2020
**(54)** A marine outboard motor with drive shaft and cooling system
**(51)** Int. Cl.
***B63H 20/28*** ( 2006.01 )
***F01P 3/20*** ( 2006.01 )
**(87)** WO2020/178588
**(31)** 1903086.5 **(32)** 07.03.19 **(33)** GB
**(43)** 10.09.2020
**(72)** BARRATT, James
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Creamcol Ltd
**(11)** AU-A-2020225596
**(21)** 2020225596 **(22)** 24.02.2020
**(54)** Stabilized semisolid food products
**(51)** Int. Cl.
***A23L 9/20*** ( 2016.01 )
***A23G 9/38*** ( 2006.01 )
***A23L 33/175*** ( 2016.01 )
**(87)** WO2020/170258
**(31)** 265005 **(32)** 24.02.19 **(33)** IL
**(43)** 27.08.2020
**(72)** GELLER, Irena; GELLER, Tomer
**(74)** James & Wells Intellectual Property

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**(71)** Creamcol Ltd
**(11)** AU-A-2020226973
**(21)** 2020226973 **(22)** 24.02.2020
**(54)** Improved production of alcoholic food products
**(51)** Int. Cl.
***A23G 9/04*** ( 2006.01 )
***A23C 21/06*** ( 2006.01 )
***A23G 9/32*** ( 2006.01 )
***A23G 9/40*** ( 2006.01 )
**(87)** WO2020/170259
**(31)** 265005 **(32)** 24.02.19 **(33)** IL
**(43)** 27.08.2020
**(72)** GELLER, Irena; GELLER, Tomer
**(74)** James & Wells Intellectual Property

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**(71)** CR Packaging LLC
**(11)** AU-A-2020219352
**(21)** 2020219352 **(22)** 07.02.2020
**(54)** Methods and components for producing child resistant glass containers
**(51)** Int. Cl.
***C03B 9/00*** ( 2006.01 )
***C03B 9/30*** ( 2006.01 )
**(87)** WO2020/163736
**(31)** 62/825,976 **(32)** 29.03.19 **(33)** US
62/802,381 07.02.19 US
62/839,326 26.04.19 US
**(43)** 13.08.2020
**(72)** KNOBEL, Simon; GONZALEZ, Alexander; HAYES, Matthew; CLARK, Jeffrey
**(74)** Griffith Hack

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**(71)** Cryovac, LLC.
**(11)** AU-A-2020271090
**(21)** 2020271090 **(22)** 10.04.2020
**(54)** System for in-line inspection of seal integrity
**(51)** Int. Cl.
***G01N 21/88*** ( 2006.01 )
***G01M 3/38*** ( 2006.01 )
***G01N 21/90*** ( 2006.01 )
**(87)** WO2020/210574
**(31)** 62/832,573 **(32)** 11.04.19 **(33)** US
**(43)** 15.10.2020
**(72)** LI, Honglei; MEHTA, Kalpit Shailesh; BEKELE, Solomon; JONES, Dewitt; HEWITT, Marshall
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Curebiotec GmbH
**(11)** AU-A-2020230409
**(21)** 2020230409 **(22)** 04.03.2020
**(54)** Method for the treatment of a disease using pigment epithelium-derived factor (PEDF)
**(51)** Int. Cl.
***A61K 38/57*** ( 2006.01 )
***A61P 27/02*** ( 2006.01 )
***G01N 33/50*** ( 2006.01 )
**(87)** WO2020/178360
**(31)** 19000111.5 **(32)** 04.03.19 **(33)** EP
**(43)** 10.09.2020
**(72)** SCHRAERMEYER, Ulrich
**(74)** RnB IP

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**(71)** Dalian University of Technology
**(11)** AU-A-2020323950
**(21)** 2020323950 **(22)** 17.02.2020
**(54)** Hybrid dynamically installed anchor with a folding shank and control method for keep anchor verticality during free fall in water
**(51)** Int. Cl.
***B63B 21/24*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** LIU, Jun; HAN, Congcong; WANG, Xu
**(74)** FOUNDRY INTELLECTUAL PROPERTY PTY LTD

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**(71)** Dan Raz Ltd.
**(11)** AU-A-2020209259
**(21)** 2020209259 **(22)** 15.01.2020
**(54)** Panel closure apparatus
**(51)** Int. Cl.
***E05B 63/00*** ( 2006.01 )
***E05B 17/20*** ( 2006.01 )
***E05B 65/10*** ( 2006.01 )
***E05C 3/12*** ( 2006.01 )
***E05C 19/00*** ( 2006.01 )
**(87)** WO2020/148682
**(31)** 62/792,424 **(32)** 15.01.19 **(33)** US
**(43)** 23.07.2020
**(72)** RAZ, Amir
**(74)** Wallington-Dummer

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**(71)** Davis, Schottlander & Davis Ltd
**(11)** AU-A-2020225437
**(21)** 2020225437 **(22)** 17.02.2020
**(54)** Prosthetic tooth
**(51)** Int. Cl.
***A61C 13/08*** ( 2006.01 )
**(87)** WO2020/169952
**(31)** 1902213.6 **(32)** 18.02.19 **(33)** GB
**(43)** 27.08.2020
**(72)** SCHOTTLANDER, Brian
**(74)** Kevin Ashby

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**(71)** Dow Global Technologies LLC; Rohm and Haas Company; The Regents of the University of California
**(11)** AU-A-2020221038
**(21)** 2020221038 **(22)** 07.02.2020
**(54)** Iodine transfer polymerization method and compositions therefrom
**(51)** Int. Cl.
***C08F 2/00*** ( 2006.01 )
***C08F 4/00*** ( 2006.01 )
***C08F 120/06*** ( 2006.01 )
***C08F 220/06*** ( 2006.01 )
**(87)** WO2020/167599
**(31)** 62/803,627 **(32)** 11.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** REN, Jing Ming; HAWKER, Craig; WILLENBACHER, Johannes; MCGRATH, Alaina; NARUPAI, Benjaporn; LAITAR, David; VAN DYK, Antony
**(74)** Maxwells Patent & Trade Mark Attorneys Pty Ltd

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**(71)** Dow Global Technologies LLC; Rohm and Haas Company; The Regents of the University of California
**(11)** AU-A-2020222874
**(21)** 2020222874 **(22)** 07.02.2020
**(54)** Reverse iodine transfer polymerization method and compositions therefrom
**(51)** Int. Cl.
***C08F 120/06*** ( 2006.01 )
***C08F 220/06*** ( 2006.01 )
**(87)** WO2020/167600
**(31)** 62/803,633 **(32)** 11.02.19 **(33)** US

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

**(43)** 20.08.2020
**(72)** DISCEKICI, Emre; LEE, In-Hwan; MCGRATH, Alaina; HAWKER, Craig; REN, Jing Ming; LAITAR, David; VAN DYK, Antony
**(74)** Maxwells Patent & Trade Mark Attorneys Pty Ltd

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**(71)** Dragonfly Endoscopy LLC
**(11)** AU-A-2020206791
**(21)** 2020206791 **(22)** 10.01.2020
**(54)** Endoscopic device and methods of use thereof
**(51)** Int. Cl.
***A61B 1/005*** ( 2006.01 )
***A61B 1/00*** ( 2006.01 )
***A61B 1/008*** ( 2006.01 )
***A61B 1/01*** ( 2006.01 )
**(87)** WO2020/146812
**(31)** 62/791,497 **(32)** 11.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** STARKWEATHER, Jeremy; SPRINGS, Christen; WYNNE, John; YLIZARDE, Jason; GOVRIN, Amir; KATZIR, Doron
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Ecolab USA Inc.
**(11)** AU-A-2020217740
**(21)** 2020217740 **(22)** 06.02.2020
**(54)** Reducing illnesses and infections caused by ineffective cleaning by tracking and controlling cleaning efficacy
**(51)** Int. Cl.
***G16H 40/20*** ( 2018.01 )
**(87)** WO2020/163616
**(31)** 62/801,865 **(32)** 06.02.19 **(33)** US
62/801,875 06.02.19 US
**(43)** 13.08.2020
**(72)** GOLDFAIN, Albert; HAYES, Gregory Bryant; GAYNOR, Emily; VAN HOECKE, Pedro; WEART, Ilona Furman; WEGNER, Joseph
**(74)** Spruson & Ferguson

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**(71)** Ecolab USA Inc.
**(11)** AU-A-2020219242
**(21)** 2020219242 **(22)** 06.02.2020
**(54)** Hygiene management for reducing illnesses and infections caused by ineffective hygiene practices
**(51)** Int. Cl.
***G16H 40/20*** ( 2018.01 )
**(87)** WO2020/163617
**(31)** 62/801,865 **(32)** 06.02.19 **(33)** US
62/801,875 06.02.19 US
**(43)** 13.08.2020
**(72)** HAYES, Gregory Bryant; GOLDFAIN, Albert; VAN HOECKE, Pedro; GAYNOR, Emily; WEGNER, Joseph; WEART, Ilona Furman
**(74)** Spruson & Ferguson

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**(71)** Ecolab USA Inc.
**(11)** AU-A-2020231996
**(21)** 2020231996 **(22)** 06.03.2020
**(54)** Concentrated solid hard surface cleaner
**(51)** Int. Cl.
***C11D 1/94*** ( 2006.01 )
***C11D 1/83*** ( 2006.01 )
***C11D 3/00*** ( 2006.01 )
***C11D 3/08*** ( 2006.01 )
***C11D 3/10*** ( 2006.01 )
***C11D 3/33*** ( 2006.01 )
***C11D 3/36*** ( 2006.01 )
***C11D 3/37*** ( 2006.01 )
***C11D 11/00*** ( 2006.01 )
*C11D 1/12* ( 2006.01 )
*C11D 1/75* ( 2006.01 )
*C11D 1/90* ( 2006.01 )
**(87)** WO2020/181159
**(31)** 62/814,387 **(32)** 06.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** EMIRU, Hilina; OLSON, Erik C.
**(74)** Spruson & Ferguson

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**(71)** Editas Medicine, Inc.
**(11)** AU-A-2020221409
**(21)** 2020221409 **(22)** 14.02.2020
**(54)** Modified natural killer (NK) cells for immunotherapy
**(51)** Int. Cl.
***C12N 5/0783*** ( 2010.01 )
***A61K 35/17*** ( 2015.01 )
***A61P 35/00*** ( 2006.01 )
***C12N 5/10*** ( 2006.01 )
**(87)** WO2020/168300
**(31)** 62/841,684 **(32)** 01.05.19 **(33)** US
62/841,066 30.04.19 US
62/943,649 04.12.19 US
62/806,457 15.02.19 US
**(43)** 20.08.2020
**(72)** WELSTEAD, Gordon Grant; BORGES, Christopher; WONG, Karrie Ka Wai
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Eisai R&D Management Co., Ltd.
**(11)** AU-A-2020232044
**(21)** 2020232044 **(22)** 03.03.2020
**(54)** Pentacyclic heterocyclic compound
**(51)** Int. Cl.
***A61P 25/28*** ( 2006.01 )
***A61K 31/551*** ( 2006.01 )
***A61P 43/00*** ( 2006.01 )
***C07D 491/147*** ( 2006.01 )
***C07D 491/22*** ( 2006.01 )
***C07D 495/22*** ( 2006.01 )
**(87)** WO2020/179780
**(31)** 2019-039351 **(32)** 05.03.19 **(33)** JP
**(43)** 10.09.2020
**(72)** OHASHI, Yoshiaki; NORIMINE, Yoshihiko; HOSHIKAWA, Tamaki; YOSHIDA, Yu; KOBAYASHI, Yoshihisa; SATO, Nobuhiro; HAGIWARA, Koji; SATO, Nobuaki; HIROTA, Shinsuke; HARADA, Takaaki; YOSHIMURA, Hikaru
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Eisai R&D Management Co., Ltd.
**(11)** AU-A-2020233452
**(21)** 2020233452 **(22)** 03.03.2020
**(54)** Salt of pentacyclic compound and crystals thereof
**(51)** Int. Cl.
***A61P 25/28*** ( 2006.01 )
***A61K 31/551*** ( 2006.01 )
***A61P 43/00*** ( 2006.01 )
***C07D 495/22*** ( 2006.01 )
**(87)** WO2020/179781
**(31)** 2019-039349 **(32)** 05.03.19 **(33)** JP
**(43)** 10.09.2020
**(72)** YOSHIDA, Kenshi; OHASHI, Yoshiaki; HOSHIKAWA, Tamaki; SATO, Nobuaki; KUSHIDA, Ikuo
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Emelem Pty Ltd
**(11)** AU-A-2020212627
**(21)** 2020212627 **(22)** 24.01.2020
**(54)** System and method for disseminating information to consumers
**(51)** Int. Cl.
***G06Q 30/02*** ( 2012.01 )
**(87)** WO2020/150790
**(31)** 2019900225 **(32)** 24.01.19 **(33)** AU
**(43)** 30.07.2020
**(72)** MANFIELD, Matthew; MANFIELD, Maria
**(74)** Murray Trento & Associates Pty Ltd

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**(71)** Emory University; Children's Healthcare of Atlanta, Inc.
**(11)** AU-A-2020222962
**(21)** 2020222962 **(22)** 11.02.2020
**(54)** Chimeric RSV and hMPV F proteins, immunogenic compositions, and methods of use
**(51)** Int. Cl.
***A61K 39/12*** ( 2006.01 )
***C12N 15/79*** ( 2006.01 )
***C12N 15/86*** ( 2006.01 )
**(87)** WO2020/167813
**(31)** 62/804,005 **(32)** 11.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** MOORE, Martin L.; TODD, Sean; STOBART, Christopher C.
**(74)** Shelston IP Pty Ltd.

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**(71)** EMvision Medical Devices Ltd
**(11)** AU-A-2020230859
**(21)** 2020230859 **(22)** 04.03.2020
**(54)** Stroke monitoring
**(51)** Int. Cl.
***A61B 5/055*** ( 2006.01 )
**(87)** WO2020/176940
**(31)** 2019900703 **(32)** 04.03.19 **(33)** AU
**(43)** 10.09.2020
**(72)** ABBOSH, Amin; AFSARI, Arman
**(74)** Davies Collison Cave Pty Ltd

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**(71)** EMvision Medical Devices Ltd
**(11)** AU-A-2020234528
**(21)** 2020234528 **(22)** 13.03.2020
**(54)** Hybrid medical imaging probe, apparatus and process
**(51)** Int. Cl.
***A61B 8/08*** ( 2006.01 )
***A61B 5/05*** ( 2006.01 )
**(87)** WO2020/181336
**(31)** 2019900842 **(32)** 14.03.19 **(33)** AU

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**(43)** 17.09.2020
**(72)** REZAEIEH, Sasan Ahdi; ZAMANI, Ali; ABBOSH, Amin
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Encore Medical, L.P. (d/b/a DJO Surgical)
**(11)** AU-A-2020211958
**(21)** 2020211958 **(22)** 22.01.2020
**(54)** Universal joint assembly
**(51)** Int. Cl.
***F16D 3/205*** ( 2006.01 )
**(87)** WO2020/154365
**(31)** 62/797,101 **(32)** 25.01.19 **(33)** US
16/748,276 21.01.20 US
**(43)** 30.07.2020
**(72)** WILLS, Kevin Michael; SHALLENBERG, Adam
**(74)** Shelston IP Pty Ltd.

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**(71)** Eni S.p.A.
**(11)** AU-A-2020215838
**(21)** 2020215838 **(22)** 02.01.2020
**(54)** A process for producing hydrogen-lean syngas for acetic acid synthesis and dimethyl ether synthesis
**(51)** Int. Cl.
***C01B 3/38*** ( 2006.01 )
***C07C 27/06*** ( 2006.01 )
***C07C 41/01*** ( 2006.01 )
***C07C 41/09*** ( 2006.01 )
***C07C 51/12*** ( 2006.01 )
***C07C 53/08*** ( 2006.01 )
***C10K 3/02*** ( 2006.01 )
**(87)** WO2020/157585
**(31)** 62/797,591 **(32)** 28.01.19 **(33)** US
**(43)** 06.08.2020
**(72)** RAJAGOPALAN, Vijayanand; PANT, Atul; NARAYANASWAMY, Ravichander
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Eni S.p.A.
**(11)** AU-A-2020217991
**(21)** 2020217991 **(22)** 06.02.2020
**(54)** Methanol production process with increased energy efficiency
**(51)** Int. Cl.
***C01B 3/38*** ( 2006.01 )
***C07C 29/151*** ( 2006.01 )
**(87)** WO2020/161667
**(31)** 62/801,998 **(32)** 06.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** ALAHMADI, Faisal; ALAMRO, Marwan; KOLAH, Aspi
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** ENI S.p.A.
**(11)** AU-A-2020228629
**(21)** 2020228629 **(22)** 26.02.2020
**(54)** An integrated indirect heat transfer process for the production of syngas and olefins by catalytic partial oxidation and cracking
**(51)** Int. Cl.
***C07C 7/00*** ( 2006.01 )
***C01B 3/38*** ( 2006.01 )
***C07C 7/11*** ( 2006.01 )
***C10G 11/00*** ( 2006.01 )
**(87)** WO2020/176646
**(31)** 62/810,629 **(32)** 26.02.19 **(33)** US
**(43)** 03.09.2020
**(72)** CHINTA, Sivadinarayana; AL-GHAMDI, Miasser; PANT, Atul; NARAYANASWAMY, Ravichander
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Ennis-Flint, Inc.
**(11)** AU-A-2020208363
**(21)** 2020208363 **(22)** 15.01.2020
**(54)** Systems and methods for making thermoplastic products and compositions
**(51)** Int. Cl.
***B29B 7/24*** ( 2006.01 )
***B01F 15/00*** ( 2006.01 )
***B01F 15/02*** ( 2006.01 )
***B29B 7/30*** ( 2006.01 )
***B29B 7/60*** ( 2006.01 )
***B29B 7/82*** ( 2006.01 )
***B29C 48/285*** ( 2019.01 )
***C08J 3/05*** ( 2006.01 )
***C08J 3/20*** ( 2006.01 )
***C08K 5/01*** ( 2006.01 )
***C09D 191/06*** ( 2006.01 )
**(87)** WO2020/150337
**(31)** 62/792,625 **(32)** 15.01.19 **(33)** US
**(43)** 23.07.2020
**(72)** CROSS, Nathan Hoover; CADY, Alex; HEPLER, Bradley; PARKER, Andy; WILKINS, Vince
**(74)** MINTER ELLISON

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**(71)** EPS World Wide Holdings Pty Ltd
**(11)** AU-A-2020238620
**(21)** 2020238620 **(22)** 31.01.2020
**(54)** A post hole cover
**(51)** Int. Cl.
***E04H 12/00*** ( 2006.01 )
***A63B 61/02*** ( 2006.01 )
***A63B 71/00*** ( 2006.01 )
***E04H 12/22*** ( 2006.01 )
***E04H 17/00*** ( 2006.01 )
**(87)** WO2020/181318
**(31)** 2019900772 **(32)** 08.03.19 **(33)** AU
2019902105 18.06.19 AU
**(43)** 17.09.2020
**(72)** STEWART-BROWN, Luisa Danielle; BROWN, Scott Ian
**(74)** HopgoodGanim

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**(71)** Essilor International
**(11)** AU-A-2020247193
**(21)** 2020247193 **(22)** 19.03.2020
**(54)** A device and method for evaluating a performance of a visual equipment for a visual task
**(51)** Int. Cl.
***A61B 3/00*** ( 2006.01 )
**(87)** WO2020/193370
**(31)** 19305360.0 **(32)** 22.03.19 **(33)** EP
**(43)** 01.10.2020
**(72)** FRICKER, Sébastien; BARANTON, Konogan; TRANVOUEZ-BERNARDIN, Delphine; GUILLOUX, Cyril
**(74)** Halfords IP

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**(71)** Exeri AB
**(11)** AU-A-2020218296
**(21)** 2020218296 **(22)** 07.02.2020
**(54)** A node, system and method for detecting local anomalies in an overhead power grid
**(51)** Int. Cl.
***G01R 21/133*** ( 2006.01 )
***G01R 31/08*** ( 2020.01 )
**(87)** WO2020/162825
**(31)** 1950151-9 **(32)** 08.02.19 **(33)** SE
**(43)** 13.08.2020
**(72)** BURSTRÖM, Stefan; KARLSSON, Magnus
**(74)** Griffith Hack

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**(71)** Farmers Edge Inc.
**(11)** AU-A-2020261091
**(21)** 2020261091 **(22)** 20.03.2020
**(54)** Yield forecasting using crop specific features and growth stages
**(51)** Int. Cl.
***G06Q 10/04*** ( 2012.01 )
***G06Q 50/02*** ( 2012.01 )
**(87)** WO2020/215145
**(31)** 62/837,334 **(32)** 23.04.19 **(33)** US
**(43)** 29.10.2020
**(72)** BENGTSON, Jacob Walker; BRYANT, Chad Richard; XIAN, Changchi; CUELL, Charles; SCHOLTEN, Keilan; ZOHRA, Fatema Tuz
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Farmers Edge Inc.
**(11)** AU-A-2020264142
**(21)** 2020264142 **(22)** 13.04.2020
**(54)** Refined average for zoning method and system
**(51)** Int. Cl.
***G06Q 50/02*** ( 2012.01 )
***A01C 21/00*** ( 2006.01 )
***G01N 21/25*** ( 2006.01 )
***G06T 7/00*** ( 2017.01 )
**(87)** WO2020/215148
**(31)** 62/839,100 **(32)** 26.04.19 **(33)** US
**(43)** 29.10.2020
**(72)** GHADERPOUR, Ebrahim; JENSEN, Matthew Wright; DUKE, Guy Dion; MCCAFFREY, David Robert
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Ferronova Pty Ltd
**(11)** AU-A-2020387750
**(21)** 2020387750 **(22)** 20.11.2020
**(54)** Magnetic tracer compositions
**(51)** Int. Cl.
***A61K 49/18*** ( 2006.01 )
***A61B 5/05*** ( 2021.01 )
***A61K 9/16*** ( 2006.01 )
***A61K 47/02*** ( 2006.01 )
***A61K 47/56*** ( 2017.01 )
***A61K 47/59*** ( 2017.01 )
***A61K 47/60*** ( 2017.01 )
***A61K 49/12*** ( 2006.01 )
**(87)** WO2021/097537
**(31)** 2019904407 **(32)** 21.11.19 **(33)** AU

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

**(43)** 27.05.2021
**(72)** BARTLETT, Stewart Gavin; NELSON, Melanie Ruth Maria; THIERRY, Benjamin; COUSINS, Aidan; PHAM, Thi Hanh Nguyen; HAWKETT, Brian Stanley
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Fiorentino, M.J.
**(11)** AU-A-2020244339
**(21)** 2020244339 **(22)** 20.03.2020
**(54)** Platform, system and method of generating, distributing, and interacting with layered media
**(51)** Int. Cl.
***G11B 27/11*** ( 2006.01 )
***H04N 21/2343*** ( 2011.01 )
***H04N 21/236*** ( 2011.01 )
**(87)** WO2020/188532
**(31)** 62/821,576 **(32)** 21.03.19 **(33)** US
**(43)** 24.09.2020
**(72)** FIORENTINO, Michael James
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Flocon Engineering Pty Ltd
**(11)** AU-A-2020390428
**(21)** 2020390428 **(22)** 30.11.2020
**(54)** Aggregate distributor
**(51)** Int. Cl.
***E01C 19/20*** ( 2006.01 )
***B60P 1/36*** ( 2006.01 )
***B65G 15/10*** ( 2006.01 )
***B65G 47/16*** ( 2006.01 )
**(87)** WO2021/102501
**(31)** 2019904523 **(32)** 29.11.19 **(33)** AU
**(43)** 03.06.2021
**(72)** KNIGHT, Rory
**(74)** Sandercock & Cowie

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**(71)** Flyability SA
**(11)** AU-A-2020223851
**(21)** 2020223851 **(22)** 19.02.2020
**(54)** Unmanned aerial vehicle with collision tolerant propulsion and controller
**(51)** Int. Cl.
***B64C 17/00*** ( 2006.01 )
***B64C 39/02*** ( 2006.01 )
**(87)** WO2020/169686
**(31)** 19158413.5 **(32)** 20.02.19 **(33)** EP
**(43)** 27.08.2020
**(72)** SIDOTI, Antonino; VALCESCHINI, Mathieu; PABOUCTSIDIS, Alexandre; DALER, Ludovic; BRIOD, Adrien
**(74)** Cotters Patent & Trade Mark Attorneys

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**(71)** Fondazione Per l'istituto Oncologico di Ricerca (IOR)
**(11)** AU-A-2020215116
**(21)** 2020215116 **(22)** 03.02.2020
**(54)** Methods of treating castrate-resistant prostate cancer
**(51)** Int. Cl.
***A61K 39/395*** ( 2006.01 )
***A61K 31/167*** ( 2006.01 )
***A61K 31/277*** ( 2006.01 )
***A61K 31/4166*** ( 2006.01 )
***A61K 31/436*** ( 2006.01 )
***A61K 31/506*** ( 2006.01 )
***A61K 31/58*** ( 2006.01 )
***A61K 47/69*** ( 2017.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 35/04*** ( 2006.01 )
**(87)** WO2020/157334
**(31)** 19155128.2 **(32)** 01.02.19 **(33)** EP
**(43)** 06.08.2020
**(72)** AL AJATI, Abdullah; D'AMBROSIO, Mariantonietta; ALIMONTI, Andrea
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Food For Future S.r.l. Societa' Benefit
**(11)** AU-A-2020210969
**(21)** 2020210969 **(22)** 21.01.2020
**(54)** Methylation process
**(51)** Int. Cl.
***C07C 41/01*** ( 2006.01 )
***A23L 33/00*** ( 2016.01 )
***C07C 43/23*** ( 2006.01 )
**(87)** WO2020/152579
**(31)** 102019000000865 **(32)** 21.01.19 **(33)** IT
**(43)** 30.07.2020
**(72)** BUONAMICI, Guglielmo
**(74)** Spruson & Ferguson

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**(71)** Frimline Private Limited
**(11)** AU-A-2021214954
**(21)** 2021214954 **(22)** 25.01.2021
**(54)** Pharmaceutical composition for reducing protein bound uremic toxins
**(51)** Int. Cl.
***A61K 9/08*** ( 2006.01 )
***A61K 47/10*** ( 2017.01 )
**(87)** WO2021/152441
**(31)** 202021003641 **(32)** 27.01.20 **(33)** IN
**(43)** 05.08.2021
**(72)** SHYAM, Ankit; CHHUNCHHA, Alpesh
**(74)** FB Rice Pty Ltd

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**(71)** Fujian Sanan Sino-Science Photobiotech Co., Ltd.
**(11)** AU-A-2019452130
**(21)** 2019452130 **(22)** 18.09.2019
**(54)** Light regulation method for promoting accumulation of secondary metaboilites in cannabis plants
**(51)** Int. Cl.
***A01H 6/28*** ( 2018.01 )
***A01G 7/04*** ( 2006.01 )
***A01G 9/22*** ( 2006.01 )
**(87)** WO2020/252954
**(31)** 16/446,602 **(32)** 19.06.19 **(33)** US
**(43)** 24.12.2020
**(72)** LI, Shaohua; LIU, Guojie; MA, Jian; LI, Yang; WANG, Zhi; CHEN, Hengsheng; MENG, Linping; JIA, Shu
**(74)** Fujian Sanan Sino-Science Photobiotech Co Ltd

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**(71)** FUJIFILM Medical Systems U.S.A., Inc.
**(11)** AU-A-2020251783
**(21)** 2020251783 **(22)** 30.01.2020
**(54)** Systems and methods for transferring medical image records using a preferred transfer protocol
**(51)** Int. Cl.
***G06F 13/00*** ( 2006.01 )
***H04N 7/173*** ( 2011.01 )
**(87)** WO2020/205041
**(31)** 16/369,782 **(32)** 29.03.19 **(33)** US
**(43)** 08.10.2020
**(72)** KIBBLE, Gary
**(74)** Spruson & Ferguson

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**(71)** Gemiini Educational Systems, Inc.
**(11)** AU-A-2020222889
**(21)** 2020222889 **(22)** 10.02.2020
**(54)** Verbal expression system
**(51)** Int. Cl.
***G10L 15/02*** ( 2006.01 )
***G10L 17/02*** ( 2013.01 )
***G10L 25/48*** ( 2013.01 )
***H04R 29/00*** ( 2006.01 )
**(87)** WO2020/167660
**(31)** 62/803,965 **(32)** 11.02.19 **(33)** US
62/888,852 19.08.19 US
**(43)** 20.08.2020
**(72)** KASBAR, Laura Marie
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Generation Bio Co.
**(11)** AU-A-2020231228
**(21)** 2020231228 **(22)** 06.03.2020
**(54)** Closed-ended DNA (ceDNA) and immune modulating compounds
**(51)** Int. Cl.
***A61K 48/00*** ( 2006.01 )
***C12N 15/63*** ( 2006.01 )
***C12N 15/86*** ( 2006.01 )
**(87)** WO2020/181182
**(31)** 62/814,477 **(32)** 06.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** KLATTE, Debra; STANTON, Matthew
**(74)** Griffith Hack

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**(71)** Gen-Probe Incorporated
**(11)** AU-A-2020210753
**(21)** 2020210753 **(22)** 23.01.2020
**(54)** Detection of drug-resistant mycoplasma genitalium
**(51)** Int. Cl.
***C12Q 1/6844*** ( 2018.01 )
***C12Q 1/6827*** ( 2018.01 )
***C12Q 1/689*** ( 2018.01 )
**(87)** WO2020/154513
**(31)** 62/797,053 **(32)** 25.01.19 **(33)** US
**(43)** 30.07.2020
**(72)** JOHNSON, Tamara; DARBY, Paul M.; GETMAN, Damon K.
**(74)** FB Rice Pty Ltd

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**(71)** Gimsa S.R.L.
**(11)** AU-A-2020224404
**(21)** 2020224404 **(22)** 24.02.2020
**(54)** Recyclable composite material, in particular for food packaging
**(51)** Int. Cl.
***D21H 27/10*** ( 2006.01 )
***B65D 27/04*** ( 2006.01 )
***B65D 30/28*** ( 2006.01 )
***B65D 33/04*** ( 2006.01 )
***D21H 27/06*** ( 2006.01 )

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

**(87)** WO2020/170226
**(31)** 102019000002595 **(32)** 22.02.19 **(33)** IT
102019000004121 21.03.19 IT
**(43)** 27.08.2020
**(72)** GIUSTI, Stefano; GIUSTI, Martina
**(74)** Spruson & Ferguson

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**(71)** GlaxoSmithKline Intellectual Property Development Limited
**(11)** AU-A-2020222080
**(21)** 2020222080 **(22)** 11.02.2020
**(54)** Hydroxypyridoxazepines as Nrf2 activators
**(51)** Int. Cl.
***C07D 498/04*** ( 2006.01 )
***A61K 31/5365*** ( 2006.01 )
***A61P 9/00*** ( 2006.01 )
***A61P 11/00*** ( 2006.01 )
**(87)** WO2020/165776
**(31)** 62/806,201 **(32)** 15.02.19 **(33)** US
62/931,877 07.11.19 US
**(43)** 20.08.2020
**(72)** ELBAN, Mark; GLOGOWSKI, Michal Pawel; KOETTING, Michael Clinton; LAWHORN, Brian Griffin; MATTHEWS, Jay M.; PATTERSON, Jaclyn Renee
**(74)** AJ PARK

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**(71)** Global BioLife Inc.
**(11)** AU-A-2020219341
**(21)** 2020219341 **(22)** 07.02.2020
**(54)** Insect repelling composition
**(51)** Int. Cl.
***A01N 25/02*** ( 2006.01 )
***A01N 27/00*** ( 2006.01 )
***A01N 65/08*** ( 2009.01 )
***A01N 65/22*** ( 2009.01 )
**(87)** WO2020/163696
**(31)** 16/270,857 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** THOMPSON, Daryl L.; MEYER, Thomas A.; VAN REES, Nicholas A.
**(74)** Clark Intellectual Property Pty Ltd

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**(71)** Google LLC
**(11)** AU-A-2020221062
**(21)** 2020221062 **(22)** 10.02.2020
**(54)** Generating and provisioning of additional content for source perspective(s) of a document
**(51)** Int. Cl.
***G06F 40/169*** ( 2020.01 )
***G06F 40/131*** ( 2020.01 )
***G06F 40/216*** ( 2020.01 )
***G06F 40/284*** ( 2020.01 )
***G06F 40/295*** ( 2020.01 )
***G06F 40/30*** ( 2020.01 )
**(87)** WO2020/167695
**(31)** 16/272,610 **(32)** 11.02.19 **(33)** US
16/730,377 30.12.19 US
**(43)** 20.08.2020
**(72)** CARBUNE, Victor; DESELAERS, Thomas
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Green Wave Power Systems LLC
**(11)** AU-A-2020207027
**(21)** 2020207027 **(22)** 09.03.2020
**(54)** System and method for perturbing a permanent magnet asymmetric field to move a body
**(51)** Int. Cl.
***H01F 7/02*** ( 2006.01 )
***H02K 1/27*** ( 2006.01 )
**(87)** WO2020/144668
**(31)** 62/917,940 **(32)** 09.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** CLYMER, Mark Lawrence; MCCONNELL, Brenda Lee
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Gripple Limited
**(11)** AU-A-2020245246
**(21)** 2020245246 **(22)** 21.02.2020
**(54)** Securing device
**(51)** Int. Cl.
***F16G 11/10*** ( 2006.01 )
**(87)** WO2020/194075
**(31)** 1904007.0 **(32)** 22.03.19 **(33)** GB
1906023.5 30.04.19 GB
2002362.8 20.02.20 GB
**(43)** 01.10.2020
**(72)** REYNOLDS, Thomas
**(74)** Spruson & Ferguson

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**(71)** Grünenthal GmbH
**(11)** AU-A-2020207591
**(21)** 2020207591 **(22)** 13.01.2020
**(54)** Substituted pyrrolidine amidesIII
**(51)** Int. Cl.
***C07D 401/14*** ( 2006.01 )
***A61K 31/416*** ( 2006.01 )
***A61P 37/00*** ( 2006.01 )
***C07D 401/12*** ( 2006.01 )
***C07D 403/04*** ( 2006.01 )
***C07D 403/14*** ( 2006.01 )
***C07D 413/14*** ( 2006.01 )
***C07D 417/14*** ( 2006.01 )
***C07D 471/04*** ( 2006.01 )
**(87)** WO2020/144375
**(31)** 19151406.6 **(32)** 11.01.19 **(33)** EP
19152282.0 17.01.19 EP
19181203.1 19.06.19 EP
**(43)** 16.07.2020
**(72)** JAKOB, Florian; ALEN, Jo; KRÜGER, Sebastian; FRIEBE, Daniela; HENNEN, Stephanie; BARBIE, Philipp
**(74)** Spruson & Ferguson

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**(71)** Guangdong Oppo Mobile Telecommunications Corp., Ltd.
**(11)** AU-A-2019426298
**(21)** 2019426298 **(22)** 01.02.2019
**(54)** Method for transmitting feedback information, terminal device and network device
**(51)** Int. Cl.
***H04L 1/06*** ( 2006.01 )
**(87)** WO2020/155121
**(43)** 06.08.2020
**(72)** LIN, Yanan; WU, Zuomin
**(74)** Shelston IP Pty Ltd.

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**(71)** Halliburton Energy Services, Inc.
**(11)** AU-A-2019443371
**(21)** 2019443371 **(22)** 30.04.2019
**(54)** Hydraulic line controlled device with density barrier
**(51)** Int. Cl.
***E21B 34/10*** ( 2006.01 )
***E21B 23/04*** ( 2006.01 )
***E21B 41/00*** ( 2006.01 )
**(87)** WO2020/222818
**(43)** 05.11.2020
**(72)** BREERWOOD, Glen P.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Halliburton Energy Services, Inc.
**(11)** AU-A-2019445954
**(21)** 2019445954 **(22)** 14.05.2019
**(54)** Detecting amine-based inhibitors in drilling fluids
**(51)** Int. Cl.
***G01N 1/38*** ( 2006.01 )
***E21B 49/08*** ( 2006.01 )
***G01N 1/10*** ( 2006.01 )
***G01N 5/00*** ( 2006.01 )
***G01N 15/06*** ( 2006.01 )
**(87)** WO2020/231410
**(43)** 19.11.2020
**(72)** MAY, Preston Andrew; DEVILLE, Jay Paul
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Halliburton Energy Services, Inc.
**(11)** AU-A-2019454261
**(21)** 2019454261 **(22)** 25.06.2019
**(54)** Multiple port opening method with single pressure activation
**(51)** Int. Cl.
***E21B 21/08*** ( 2006.01 )
***E21B 21/10*** ( 2006.01 )
***E21B 23/00*** ( 2006.01 )
***E21B 34/06*** ( 2006.01 )
**(87)** WO2020/263224
**(43)** 30.12.2020
**(72)** ZACHARIAH, Jacob; COFFIN, Maxime Philippe
**(74)** Spruson & Ferguson

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**(71)** Halliburton Energy Services, Inc.
**(11)** AU-A-2020236351
**(21)** 2020236351 **(22)** 02.03.2020
**(54)** A well barrier and release device for use in drilling operations
**(51)** Int. Cl.
***E21B 23/01*** ( 2006.01 )
***E21B 23/10*** ( 2006.01 )
***E21B 33/12*** ( 2006.01 )
***E21B 34/00*** ( 2006.01 )
**(87)** WO2020/185436
**(31)** 62/817,201 **(32)** 12.03.19 **(33)** US
16/800,228 25.02.20 US
**(43)** 17.09.2020
**(72)** STAUTZENBERGER, Arthur Terry; MIKKELSEN, Klaus
**(74)** Spruson & Ferguson

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**(71)** Halliburton Energy Services, Inc.
**(11)** AU-A-2020259264

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

**(21)** 2020259264 **(22)** 03.04.2020
**(54)** Anti-preset for packers
**(51)** Int. Cl.
***E21B 33/129*** ( 2006.01 )
***E21B 23/01*** ( 2006.01 )
***E21B 23/06*** ( 2006.01 )
**(87)** WO2020/214440
**(31)** 62/835,821 **(32)** 18.04.19 **(33)** US
16/839,885 03.04.20 US
**(43)** 22.10.2020
**(72)** FADHIL, Mohammed Kamal; TUCKNESS, Cynthia Strickland; STANLEY, Jeremy Lynn; MOORE, Bruce Alan
**(74)** Spruson & Ferguson

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**(71)** Hangzhou Dac Biotech Co., Ltd.
**(11)** AU-A-2019426942
**(21)** 2019426942 **(22)** 31.01.2019
**(54)** A conjugate of an amanita toxin with branched linkers
**(51)** Int. Cl.
***A61K 47/50*** ( 2017.01 )
***A61P 35/00*** ( 2006.01 )
***C07K 7/64*** ( 2006.01 )
**(87)** WO2020/155017
**(43)** 06.08.2020
**(72)** ZHAO, Robert Yongxin; YANG, Qingliang; LEI, Jun; HUANG, Yuanyuan; ZHAO, Linyao; YE, Hangbo; GAI, Shun; CAO, Mingjun; TONG, Qianqian; BAI, Lu; GUO, Zhixiang; YANG, Chengyu; ZHOU, Xiaomai; XIE, Hongsheng; XU, Yifang; GUO, Huihui; JIA, Junxiang; ZHENG, Jun; LIN, Cheng; ZHUO, Xiaotao; LI, Wenjun; DU, Yong; KONG, Xiangfei; CHEN, Binbin; YANG, Yanlei; TONG, Yanhong; CHEN, Xiaoxiao; LI, Yanhua; ZHANG, Xiuzheng; LAI, Juan
**(74)** FB Rice Pty Ltd

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**(71)** Hexion Inc.
**(11)** AU-A-2020223364
**(21)** 2020223364 **(22)** 14.02.2020
**(54)** Chemical products for adhesive applications
**(51)** Int. Cl.
***C09K 8/70*** ( 2006.01 )
***C09K 8/80*** ( 2006.01 )
***E21B 43/267*** ( 2006.01 )
**(87)** WO2020/168267
**(31)** 62/808,611 **(32)** 21.02.19 **(33)** US
16/791,539 14.02.19 US
**(43)** 20.08.2020
**(72)** ZHA, Charles; BEETGE, Jan
**(74)** Griffith Hack

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**(71)** Hitgen Inc.
**(11)** AU-A-2020214477
**(21)** 2020214477 **(22)** 21.01.2020
**(54)** Immunomodulator
**(51)** Int. Cl.
***C07D 405/14*** ( 2006.01 )
***A61K 31/4188*** ( 2006.01 )
***A61K 31/427*** ( 2006.01 )
***A61P 31/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 37/00*** ( 2006.01 )
***C07D 403/14*** ( 2006.01 )
***C07D 407/14*** ( 2006.01 )
***C07D 409/14*** ( 2006.01 )
***C07D 411/14*** ( 2006.01 )
**(87)** WO2020/156363
**(31)** 201910083149.3 **(32)** 31.01.19 **(33)** CN
201910819220.X 04.09.19 CN
**(43)** 06.08.2020
**(72)** LI, Jin; ZHANG, Dengyou; PAN, Fei; MA, Rong; ZHU, Wenji; XIN, Yanfei; LI, Si; LIU, Weiping; LIN, Yanping
**(74)** MINTER ELLISON

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**(71)** Hoverfly Technologies, Inc.
**(11)** AU-A-2020223160
**(21)** 2020223160 **(22)** 14.02.2020
**(54)** System and method for determining wind direction and velocity measurement from altitude for an unmanned aerial vehicle
**(51)** Int. Cl.
***G01P 5/08*** ( 2006.01 )
***B64C 39/02*** ( 2006.01 )
***B64D 45/00*** ( 2006.01 )
**(87)** WO2020/168189
**(31)** 16/789,961 **(32)** 13.02.20 **(33)** US
62/806,559 15.02.19 US
**(43)** 20.08.2020
**(72)** DUCHARME, Alfred D.; TOPPING, Robert
**(74)** Adams Pluck

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**(71)** Hoverfly Technologies, Inc.
**(11)** AU-A-2020258267
**(21)** 2020258267 **(22)** 14.02.2020
**(54)** Landing structure for an unmanned aerial vehicle
**(51)** Int. Cl.
***B64F 1/22*** ( 2006.01 )
***B64C 39/02*** ( 2006.01 )
**(87)** WO2020/214236
**(31)** 62/806,533 **(32)** 15.02.19 **(33)** US
16/714,257 13.12.19 US
**(43)** 22.10.2020
**(72)** DUCHARME, Alfred D.; STEPIEN, Adam; TABOR, Jason; WHITAKER, Lucas Colt; BURROUGHS, Daniel J.
**(74)** Adams Pluck

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**(71)** Howmet Aerospace Inc.
**(11)** AU-A-2019432938
**(21)** 2019432938 **(22)** 18.12.2019
**(54)** Metallic substrate treatment methods and articles comprising a phosphonate functionalized layer
**(51)** Int. Cl.
***C23C 22/07*** ( 2006.01 )
***C23C 22/76*** ( 2006.01 )
***C23C 22/78*** ( 2006.01 )
***C23C 22/82*** ( 2006.01 )
**(87)** WO2020/180386
**(31)** 62/812,334 **(32)** 01.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** SCOTT, Ryan N.; ROBARE, Kevin M.; GIOCONDI, Jennifer L.; MENEGAZZO, Nicola; WEILER, Kelly M.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Huawei Technologies Co., Ltd.
**(11)** AU-A-2020213574
**(21)** 2020213574 **(22)** 23.01.2020
**(54)** Method and apparatus for transmitting signal
**(51)** Int. Cl.
***H04W 24/04*** ( 2009.01 )
**(87)** WO2020/156484
**(31)** 201910105775.8 **(32)** 01.02.19 **(33)** CN
**(43)** 06.08.2020
**(72)** HUANG, Su; CHEN, Lei; WANG, Yi; LUO, Jun
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Huawei Technologies Co., Ltd.
**(11)** AU-A-2020214502
**(21)** 2020214502 **(22)** 23.01.2020
**(54)** Communication method, apparatus, and system
**(51)** Int. Cl.
***H04W 12/08*** ( 2009.01 )
**(87)** WO2020/156488
**(31)** 201910098742.5 **(32)** 31.01.19 **(33)** CN
201910937699.7 30.09.19 CN
**(43)** 06.08.2020
**(72)** GENG, Tingting; YAN, Le; ZENG, Qinghai
**(74)** Halfords IP

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**(71)** Hudson Institute of Medical Research
**(11)** AU-A-2020219149
**(21)** 2020219149 **(22)** 07.02.2020
**(54)** A method for the treatment or prophylaxis of cancer by targeting the extracellular portion of keratin 14 (KRT14) residing on cancer cells
**(51)** Int. Cl.
***A61K 39/395*** ( 2006.01 )
***A61P 35/04*** ( 2006.01 )
***C07K 16/30*** ( 2006.01 )
***G01N 33/574*** ( 2006.01 )
**(87)** WO2020/160628
**(31)** 2019900382 **(32)** 07.02.19 **(33)** AU
**(43)** 13.08.2020
**(72)** STEPHENS, Andrew Nicholas; BILANDZIC, Maree
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Humabs BioMed SA; Vir Biotechnology, Inc.
**(11)** AU-A-2020266283
**(21)** 2020266283 **(22)** 30.04.2020
**(54)** Antibodies binding to plasmodium circumsporozoite protein and uses thereof
**(51)** Int. Cl.
***A61K 38/03*** ( 2006.01 )
***A61K 39/015*** ( 2006.01 )
***A61P 33/06*** ( 2006.01 )
***C07K 16/20*** ( 2006.01 )
*A61K 39/00* ( 2006.01 )
**(87)** WO2020/221910
**(31)** PCT/ **(32)** 30.04.19 **(33)** EP
EP2019/061135
**(43)** 05.11.2020
**(72)** CORTI, Davide; PICCOLI, Luca; FINK, Katja; CAMERONI, Elisabetta
**(74)** Allens Patent & Trade Mark Attorneys

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

**(71)** Huya Bioscience International, LLC
**(11)** AU-A-2020216925
**(21)** 2020216925 **(22)** 28.01.2020
**(54)** Sulcardine salts
**(51)** Int. Cl.
***C07D 403/10*** ( 2006.01 )
***A61K 31/402*** ( 2006.01 )
***A61P 9/00*** ( 2006.01 )
**(87)** WO2020/159959
**(31)** 62/959,687 **(32)** 10.01.20 **(33)** US
62/798,467 29.01.19 US
**(43)** 06.08.2020
**(72)** ROMANO, Suzanne J.; REECE, Hayley Ann; BENSON, Joseph Edward Gordon; COLLINS, Sarah; ELLIOTT, Gary T.; GILLINGS, Mireille; GOODENOW, Robert; TYREE, Curtis
**(74)** FB Rice Pty Ltd

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**(71)** Hydrogreen, Inc.
**(11)** AU-A-2020225282
**(21)** 2020225282 **(22)** 18.02.2020
**(54)** Hydroponic grower
**(51)** Int. Cl.
***A01G 31/04*** ( 2006.01 )
***A01G 31/00*** ( 2018.01 )
***A01G 31/02*** ( 2006.01 )
***A01G 31/06*** ( 2006.01 )
**(87)** WO2020/172137
**(31)** 62/807,623 **(32)** 19.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** GROHS, Dihl; JOENS, Ryan; LIVINGSTON, Craig
**(74)** Spruson & Ferguson

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**(71)** Hydrostor Inc.
**(11)** AU-A-2019428468
**(21)** 2019428468 **(22)** 22.05.2019
**(54)** A compressed gas energy storage system
**(51)** Int. Cl.
***F17C 7/00*** ( 2006.01 )
***B65G 5/00*** ( 2006.01 )
***F03D 9/17*** ( 2016.01 )
***F15B 1/027*** ( 2006.01 )
***F17B 1/16*** ( 2006.01 )
***F17C 5/06*** ( 2006.01 )
***F17C 13/00*** ( 2006.01 )
***F28D 20/00*** ( 2006.01 )
**(87)** WO2020/160635
**(31)** 62/802,746 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** LEWIS, Cameron; MCGILLIS, Andrew; YOUNG, Davin
**(74)** Griffith Hack

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**(71)** Hydrostor Inc.
**(11)** AU-A-2020218795
**(21)** 2020218795 **(22)** 07.02.2020
**(54)** Methods and systems for storing thermal energy in a compressed gas energy storage system
**(51)** Int. Cl.
***B65G 5/00*** ( 2006.01 )
***F03B 13/06*** ( 2006.01 )
***F03D 9/13*** ( 2016.01 )
***F03D 9/17*** ( 2016.01 )
***F04B 41/02*** ( 2006.01 )
***F17B 1/16*** ( 2006.01 )
***F17C 5/06*** ( 2006.01 )
***F17C 7/00*** ( 2006.01 )
***F17C 13/00*** ( 2006.01 )
***F28D 19/02*** ( 2006.01 )
***F28D 20/00*** ( 2006.01 )
**(87)** WO2020/160681
**(31)** 62/802,746 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** YOUNG, Davin; THEXTON, Lucas; LEWIS, Cameron
**(74)** Griffith Hack

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**(71)** I4F Licensing NV
**(11)** AU-A-2019426795
**(21)** 2019426795 **(22)** 30.01.2019
**(54)** A flooring panel and a floor covering with such panel
**(51)** Int. Cl.
***E04F 15/02*** ( 2006.01 )
***E04F 15/10*** ( 2006.01 )
**(87)** WO2020/159354
**(43)** 06.08.2020
**(72)** PERRA, Antonio Giuseppe
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** I4F Licensing NV
**(11)** AU-A-2019426850
**(21)** 2019426850 **(22)** 30.01.2019
**(54)** Floor panel and floor covering
**(51)** Int. Cl.
***F16B 5/00*** ( 2006.01 )
***E04F 15/02*** ( 2006.01 )
***E04F 15/04*** ( 2006.01 )
***E04F 15/10*** ( 2006.01 )
**(87)** WO2020/159352
**(43)** 06.08.2020
**(72)** PERRA, Antonio Giuseppe
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** I4F Licensing NV
**(11)** AU-A-2019427461
**(21)** 2019427461 **(22)** 30.01.2019
**(54)** Panel and floor covering comprising the same
**(51)** Int. Cl.
***E04F 15/02*** ( 2006.01 )
***E04F 15/10*** ( 2006.01 )
**(87)** WO2020/159353
**(43)** 06.08.2020
**(72)** PERRA, Antonio Giuseppe
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** IHI Corporation
**(11)** AU-A-2020223611
**(21)** 2020223611 **(22)** 07.02.2020
**(54)** Vapor supply device and drying system
**(51)** Int. Cl.
***F26B 3/084*** ( 2006.01 )
***F24S 23/74*** ( 2018.01 )
***F24S 60/10*** ( 2018.01 )
***F24S 90/00*** ( 2018.01 )
**(87)** WO2020/166526
**(31)** 2019-024650 **(32)** 14.02.19 **(33)** JP
**(43)** 20.08.2020
**(72)** ISHII, Toru
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Imdpharm Inc.
**(11)** AU-A-2020225991
**(21)** 2020225991 **(22)** 17.02.2020
**(54)** Sustained-release lipid preformulation and pharmaceutical composition for sustained-release injection in form of lipid solution containing same
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/08*** ( 2006.01 )
***A61K 38/08*** ( 2019.01 )
***A61K 38/09*** ( 2006.01 )
***A61K 47/12*** ( 2006.01 )
***A61K 47/14*** ( 2017.01 )
***A61K 47/22*** ( 2006.01 )
***A61K 47/24*** ( 2006.01 )
**(87)** WO2020/171491
**(31)** 10-2019-0018619 **(32)** 18.02.19 **(33)** KR
**(43)** 27.08.2020
**(72)** PARK, Young-Joon; JEON, Sang-Won; CHOI, Sook
**(74)** Spruson & Ferguson

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**(71)** Incyte Corporation
**(11)** AU-A-2020221293
**(21)** 2020221293 **(22)** 14.02.2020
**(54)** Cyclin-dependent kinase 2 biomarkers and uses thereof
**(51)** Int. Cl.
***A61K 31/519*** ( 2006.01 )
***A61K 31/5377*** ( 2006.01 )
***A61K 31/5386*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/168178
**(31)** 62/806,265 **(32)** 15.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** WINTERTON, Sarah; YE, Min; CHEN, Yingnan; FAVATA, Margaret; LO, Yvonne; SOKOLSKY, Alexander; WU, Liangxing; YAO, Wenqing
**(74)** Houlihan² Pty Ltd

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**(71)** Innovative Bedding Solutions, Inc.
**(11)** AU-A-2020216988
**(21)** 2020216988 **(22)** 31.01.2020
**(54)** Personal support device with elongate inserts
**(51)** Int. Cl.
***A47G 9/10*** ( 2006.01 )
***B26D 1/04*** ( 2006.01 )
***B26D 3/00*** ( 2006.01 )
***B26D 7/06*** ( 2006.01 )
***B26D 11/00*** ( 2006.01 )
**(87)** WO2020/160495
**(31)** 62/800,213 **(32)** 01.02.19 **(33)** US
16/509,274 11.07.19 US
**(43)** 06.08.2020
**(72)** CHAVEZ, Cesar A.; AMENDOLA, Jonathan J.; WHITE, Jerry L.
**(74)** Michael Buck IP

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**(71)** Integrated DNA Technologies, Inc.
**(11)** AU-A-2020226864

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**(21)** 2020226864 **(22)** 21.02.2020
**(54)** Lachnospiraceae Bacterium ND2006 Cas12a mmutant genes and polypeptides encoded by same
**(51)** Int. Cl.
***C12N 9/22*** ( 2006.01 )
**(87)** WO2020/172502
**(31)** 62/808,984 **(32)** 22.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** BEAUDOIN, Sarah Franz; COLLINGWOOD, Michael Allen; VAKULSKAS, Christopher Anthony
**(74)** Griffith Hack

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**(71)** Intuit Inc.
**(11)** AU-A-2019449179
**(21)** 2019449179 **(22)** 26.07.2019
**(54)** Bias prediction and categorization in financial tools
**(51)** Int. Cl.
***G06Q 40/08*** ( 2012.01 )
***G06Q 40/06*** ( 2012.01 )
**(87)** WO2020/247001
**(31)** 16/429,119 **(32)** 03.06.19 **(33)** US
**(43)** 10.12.2020
**(72)** FURBISH, Kevin; RAGANATHAN, Nirmala; DIBNER-DUNLAP, Aaron; RAHMAN, Sumayah
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Intuit Inc.
**(11)** AU-A-2020321751
**(21)** 2020321751 **(22)** 17.06.2020
**(54)** Neural network system for text classification
**(51)** Int. Cl.
***G06F 16/332*** ( 2019.01 )
***G06F 16/33*** ( 2019.01 )
***G06F 40/216*** ( 2020.01 )
***G06F 40/284*** ( 2020.01 )
***G06F 40/30*** ( 2020.01 )
**(87)** WO2021/021330
**(31)** 16/526,626 **(32)** 30.07.19 **(33)** US
**(43)** 04.02.2021
**(72)** PODGORNY, Igor A.; CARVALHO, Vitor R.; GUPTA, Sparsh
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Intuit Inc.
**(11)** AU-A-2020321911
**(21)** 2020321911 **(22)** 17.06.2020
**(54)** Region proposal networks for automated bounding box detection and text segmentation
**(51)** Int. Cl.
***G06K 9/00*** ( 2006.01 )
***G06K 9/32*** ( 2006.01 )
***G06K 9/34*** ( 2006.01 )
***G06K 9/62*** ( 2006.01 )
**(87)** WO2021/021332
**(31)** 16/524,889 **(32)** 29.07.19 **(33)** US
**(43)** 04.02.2021
**(72)** TORRES, Terrence J.; FOROUGHI, Homa
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Intuit Inc.
**(11)** AU-A-2020382717
**(21)** 2020382717 **(22)** 01.07.2020
**(54)** Pre-trained contextual embedding models for named entity recognition and confidence prediction
**(51)** Int. Cl.
***G06F 40/295*** ( 2020.01 )
**(87)** WO2021/096571
**(31)** 16/685,651 **(32)** 15.11.19 **(33)** US
**(43)** 20.05.2021
**(72)** TORRES, Terrence J.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Intuit Inc.
**(11)** AU-A-2020418421
**(21)** 2020418421 **(22)** 01.07.2020
**(54)** Method for serving parameter efficient NLP models through adaptive architectures
**(51)** Int. Cl.
***G06N 20/00*** ( 2019.01 )
***G06F 40/20*** ( 2020.01 )
***G06F 40/30*** ( 2020.01 )
***G06N 3/08*** ( 2006.01 )
**(87)** WO2021/137893
**(31)** 16/732,869 **(32)** 02.01.20 **(33)** US
**(43)** 08.07.2021
**(72)** TORRES, Terrence J.; RIMCHALA, Tharathorn; MATTARELLA-MICKE, Andrew
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Intuit Inc.
**(11)** AU-A-2020427553
**(21)** 2020427553 **(22)** 01.07.2020
**(54)** Oracle-aided protocol for compact data storage for applications using computations over fully homomorphic encrypted data
**(51)** Int. Cl.
***H04L 9/00*** ( 2006.01 )
**(87)** WO2021/158256
**(31)** 16/783,471 **(32)** 06.02.20 **(33)** US
**(43)** 12.08.2021
**(72)** VALD, Margarita; KAHN, Laetitia; SAPIR, Boaz; SHEFFER, Yaron; RESHEFF, Yehezkel Shraga
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Ionis Pharmaceuticals, Inc.
**(11)** AU-A-2020241693
**(21)** 2020241693 **(22)** 13.03.2020
**(54)** Compounds and methods for reducing KCNT1 expression
**(51)** Int. Cl.
***C12N 15/113*** ( 2010.01 )
***A61P 25/08*** ( 2006.01 )
***A61P 25/24*** ( 2006.01 )
**(87)** WO2020/190740
**(31)** 62/884,501 **(32)** 08.08.19 **(33)** US
62/819,344 15.03.19 US
**(43)** 24.09.2020
**(72)** BUI, Huynh-Hoa; FREIER, Susan M.
**(74)** RnB IP Pty Ltd

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**(71)** i-SENS, Inc.
**(11)** AU-A-2019431856
**(21)** 2019431856 **(22)** 27.11.2019
**(54)** Method of displaying biological information
**(51)** Int. Cl.
***A61B 5/00*** ( 2006.01 )
**(87)** WO2020/175767
**(31)** 10-2019-0022426 **(32)** 26.02.19 **(33)** KR
**(43)** 03.09.2020
**(72)** LEE, Jin Won
**(74)** H & H Lawyers

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**(71)** Isps Sp. z o.o.
**(11)** AU-A-2020221147
**(21)** 2020221147 **(22)** 13.02.2020
**(54)** Method for strutting brace legs in an earth-retaining structure of an excavation support system and system of elements used for purposes of this method
**(51)** Int. Cl.
***E02D 17/08*** ( 2006.01 )
***E02D 17/04*** ( 2006.01 )
**(87)** WO2020/167148
**(31)** P.428941 **(32)** 17.02.19 **(33)** PL
**(43)** 20.08.2020
**(72)** KWARCIŃSKI, Paweł
**(74)** Michael Buck IP

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**(71)** Janssen Biotech, Inc.
**(11)** AU-A-2020222359
**(21)** 2020222359 **(22)** 14.02.2020
**(54)** Combination therapy for treatment of B-cell malignancies
**(51)** Int. Cl.
***A61K 31/506*** ( 2006.01 )
***A61K 31/519*** ( 2006.01 )
***A61K 31/635*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/165861
**(31)** 62/806,148 **(32)** 15.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** BALASUBRAMANIAN, Sriram
**(74)** Shelston IP Pty Ltd.

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**(71)** JCM American Corporation
**(11)** AU-A-2020261014
**(21)** 2020261014 **(22)** 22.04.2020
**(54)** Evaluating currency in areas using image processing
**(51)** Int. Cl.
***G07D 7/00*** ( 2016.01 )
***G07D 7/12*** ( 2016.01 )
***G07D 7/20*** ( 2016.01 )
***G07D 7/206*** ( 2016.01 )
**(87)** WO2020/219553
**(31)** 62/838,046 **(32)** 24.04.19 **(33)** US
16/810,455 05.03.20 US
**(43)** 29.10.2020
**(72)** PECHINKO, Paul
**(74)** AJ PARK

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**(71)** JCM American Corporation
**(11)** AU-A-2020273988
**(21)** 2020273988 **(22)** 07.05.2020
**(54)** Drop cart with cashbox data reader array and autonomous drop cart pro-

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

cessing system for automated casino accounting
**(51)** Int. Cl.
***G07F 17/32*** ( 2006.01 )
***E05B 9/02*** ( 2006.01 )
***E05G 1/06*** ( 2006.01 )
***G06Q 10/08*** ( 2012.01 )
***G06Q 50/34*** ( 2012.01 )
***G07D 11/12*** ( 2019.01 )
***G07D 11/16*** ( 2019.01 )
***G07F 9/06*** ( 2006.01 )
***G07F 11/16*** ( 2006.01 )
***G07F 19/00*** ( 2006.01 )
***G07G 1/00*** ( 2006.01 )
**(87)** WO2020/231724
**(31)** 62/846,062 **(32)** 10.05.19 **(33)** US
16/810,307 05.03.20 US
**(43)** 19.11.2020
**(72)** PECHINKO, Paul
**(74)** AJ PARK

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**(71)** JCM American Corporation
**(11)** AU-A-2020279719
**(21)** 2020279719 **(22)** 19.05.2020
**(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 )
**(87)** WO2020/236781
**(31)** 62/852,013 **(32)** 23.05.19 **(33)** US
16/855,089 22.04.20 US
**(43)** 26.11.2020
**(72)** KUBAJAK, David C.
**(74)** AJ PARK

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**(71)** Jetoptera, Inc.
**(11)** AU-A-2020268690
**(21)** 2020268690 **(22)** 21.01.2020
**(54)** Fluidic propulsive system
**(51)** Int. Cl.
***B64C 21/02*** ( 2006.01 )
***B64C 3/10*** ( 2006.01 )
***B64C 15/00*** ( 2006.01 )
***B64C 15/12*** ( 2006.01 )
***B64C 15/14*** ( 2006.01 )
***B64C 21/00*** ( 2006.01 )
***B64C 21/04*** ( 2006.01 )
***B64C 21/06*** ( 2006.01 )
***B64C 21/08*** ( 2006.01 )
***B64C 23/00*** ( 2006.01 )
***B64C 29/04*** ( 2006.01 )
***B64D 27/10*** ( 2006.01 )
***B64D 27/14*** ( 2006.01 )
***B64D 27/18*** ( 2006.01 )
***B64D 33/04*** ( 2006.01 )
***F02C 6/04*** ( 2006.01 )
***F02K 1/36*** ( 2006.01 )
***F23L 17/16*** ( 2006.01 )
**(87)** WO2020/226708
**(31)** 62/794,464 **(32)** 18.01.19 **(33)** US
**(43)** 12.11.2020
**(72)** EVULET, Andrei
**(74)** Spruson & Ferguson

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**(71)** JFS Patents APS
**(11)** AU-A-2020218798
**(21)** 2020218798 **(22)** 28.01.2020
**(54)** A bicycle parking stand for locking a bicycle to the stand comprising an electronic lock
**(51)** Int. Cl.
***B62H 3/10*** ( 2006.01 )
***B62H 5/10*** ( 2006.01 )
**(87)** WO2020/160736
**(31)** PA 2019 00163 **(32)** 05.02.19 **(33)** DK
**(43)** 13.08.2020
**(72)** SØRENSEN, Jesper Farver
**(74)** Dennemeyer & Associates

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**(71)** Jiangsu Hengrui Medicine Co., Ltd.; Shanghai Hengrui Pharmaceutical Co., Ltd.
**(11)** AU-A-2020213579
**(21)** 2020213579 **(22)** 31.01.2020
**(54)** Anti-PD-1 antibody, antigen-binding fragment thereof and pharmaceutical use thereof
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***A61K 48/00*** ( 2006.01 )
***A61P 29/00*** ( 2006.01 )
***A61P 31/00*** ( 2006.01 )
***A61P 33/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C12N 1/15*** ( 2006.01 )
***C12N 1/19*** ( 2006.01 )
***C12N 1/21*** ( 2006.01 )
***C12N 5/10*** ( 2006.01 )
***C12N 15/13*** ( 2006.01 )
***C12N 15/63*** ( 2006.01 )
**(87)** WO2020/156509
**(31)** 201910108743.3 **(32)** 03.02.19 **(33)** CN
202010052351.2 17.01.20 CN
**(43)** 06.08.2020
**(72)** GU, Xiaoling; YE, Xin; GE, Hu; TAO, Weikang
**(74)** FB Rice Pty Ltd

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**(71)** Jiangsu Vcare PharmaTech Co., Ltd.
**(11)** AU-A-2020214895
**(21)** 2020214895 **(22)** 19.01.2020
**(54)** Janus kinase (JAK) family inhibitor, preparation of same, and applications thereof
**(51)** Int. Cl.
***C07D 471/04*** ( 2006.01 )
***A61K 31/437*** ( 2006.01 )
***A61K 31/496*** ( 2006.01 )
***A61P 29/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 37/02*** ( 2006.01 )
***A61P 37/06*** ( 2006.01 )
***C07D 487/04*** ( 2006.01 )
***C07D 519/00*** ( 2006.01 )
**(87)** WO2020/156271
**(31)** 201910106479.X **(32)** 02.02.19 **(33)** CN
202010050671.4 13.01.20 CN
**(43)** 06.08.2020
**(72)** WU, Yong; GONG, Yanchun; ZHOU, Wenbin; QIN, Daan; ZHANG, Ya; LIU, Yongqiang
**(74)** Ellis Terry

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**(71)** JKL Corporation
**(11)** AU-A-2020272417
**(21)** 2020272417 **(22)** 09.04.2020
**(54)** Tents
**(51)** Int. Cl.
***E04H 15/34*** ( 2006.01 )
***E04H 15/58*** ( 2006.01 )
***E04H 15/60*** ( 2006.01 )
**(87)** WO2020/209649
**(31)** 10-2019-0041848 **(32)** 10.04.19 **(33)** KR
10-2019-0056210 14.05.19 KR
**(43)** 15.10.2020
**(72)** LAH, Jeh Kun
**(74)** H & H Lawyers

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**(71)** Just A New Health
**(11)** AU-A-2020218617
**(21)** 2020218617 **(22)** 06.02.2020
**(54)** Device for measuring the circumference of an object, in particular a body limb
**(51)** Int. Cl.
***A61B 5/107*** ( 2006.01 )
***A41H 1/02*** ( 2006.01 )
***G01B 3/10*** ( 2020.01 )
**(87)** WO2020/161246
**(31)** BE2019/5075 **(32)** 07.02.19 **(33)** BE
**(43)** 13.08.2020
**(72)** HARFOUCHE, Joseph
**(74)** Griffith Hack

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**(71)** JUUL Labs, Inc.
**(11)** AU-A-2020228669
**(21)** 2020228669 **(22)** 28.02.2020
**(54)** Vaporizer device with vaporizer cartridge
**(51)** Int. Cl.
***A24F 40/10*** ( 2020.01 )
***A24F 40/40*** ( 2020.01 )
***A24F 40/42*** ( 2020.01 )
**(87)** WO2020/176901
**(31)** 62/913,135 **(32)** 09.10.19 **(33)** US
62/981,498 25.02.20 US
62/947,496 12.12.19 US
62/930,508 04.11.19 US
62/915,005 14.10.19 US
62/812,161 28.02.19 US
62/812,148 28.02.19 US
**(43)** 03.09.2020
**(72)** ATKINS, Ariel; BELISLE, Christopher L.; CHANG, Tsuey; CHEUNG, Brandon; CHRISTENSEN, Steven; ENTELIS, Dylan E.; HOOPAI, Alexander M.; JOHNSON, Eric Joseph; KING, Jason; LEON DUQUE, Esteban; LI, YongChao; LIANG, Huei-Huei; MALONE, Matthew J.; MONSEES, James; NG, Nathan N.; O' MALLEY, Claire; RIOS, Matthew; ROSSER, Christopher James; SCOTT, Zachary T.; STRATTON, Andrew J.; THAWER, Alim; WESELY, Norbert; WESTLEY, James; YIN, Hao; ZHANG, XueHai; ZHANG, XueQing
**(74)** Spruson & Ferguson

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**(71)** Kabushiki Kaisha Yakult Honsha
**(11)** AU-A-2020224435
**(21)** 2020224435 **(22)** 03.02.2020

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

**(54)** Method for producing culture of lactic acid bacterium and/or bacterium belonging to genus Bifidobacterium
**(51)** Int. Cl.
***A23C 9/123*** ( 2006.01 )
***A23C 9/13*** ( 2006.01 )
***C12N 1/20*** ( 2006.01 )
**(87)** WO2020/170776
**(31)** 2019-027288 **(32)** 19.02.19 **(33)** JP
**(43)** 27.08.2020
**(72)** SAITO, Junki; HOSHI, Ryotaro
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Kabushiki Kaisha Yakult Honsha
**(11)** AU-A-2020227459
**(21)** 2020227459 **(22)** 19.02.2020
**(54)** Food/beverage product, off-flavor masking agent for food/beverage product, and off-flavor masking method for food/beverage product
**(51)** Int. Cl.
***A23C 9/13*** ( 2006.01 )
***A23L 27/00*** ( 2016.01 )
***A23L 33/10*** ( 2016.01 )
***A23L 33/15*** ( 2016.01 )
***A23L 33/16*** ( 2016.01 )
***A23L 33/26*** ( 2016.01 )
**(87)** WO2020/175274
**(31)** 2019-033536 **(32)** 27.02.19 **(33)** JP
**(43)** 03.09.2020
**(72)** MIIDA Satoshi; NIHEI Daichi
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Kao Corporation; Shizuoka Prefectural University Corporation
**(11)** AU-A-2020222577
**(21)** 2020222577 **(22)** 07.02.2020
**(54)** Proliferation method
**(51)** Int. Cl.
***A61K 39/145*** ( 2006.01 )
***C07K 7/06*** ( 2006.01 )
***C12N 7/00*** ( 2006.01 )
***C12N 7/02*** ( 2006.01 )
***C12N 15/12*** ( 2006.01 )
**(87)** WO2020/166524
**(31)** 2019-024777 **(32)** 14.02.19 **(33)** JP
2019-226747 16.12.19 JP
**(43)** 20.08.2020
**(72)** ONISHI, Shintaro; MORI, Takuya; SUZUKI, Takashi; KUREBAYASHI, Yuuki
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Kara Technologies Inc.
**(11)** AU-A-2020226852
**(21)** 2020226852 **(22)** 17.02.2020
**(54)** Catalyst structure and method of upgrading hydrocarbons in the presence of the catalyst structure
**(51)** Int. Cl.
***B01J 23/64*** ( 2006.01 )
***B01J 32/00*** ( 2006.01 )
***B01J 35/10*** ( 2006.01 )
***B01J 37/04*** ( 2006.01 )
***B01J 37/08*** ( 2006.01 )
***B01J 38/02*** ( 2006.01 )
**(87)** WO2020/170042
**(31)** 62/807,795 **(32)** 20.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** SONG, Hua; AIKEN, Blair; HE, Peng; MENG, Shijun
**(74)** Spruson & Ferguson

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**(71)** Kimberly-Clark Worldwide, Inc.
**(11)** AU-A-2018455886
**(21)** 2018455886 **(22)** 28.12.2018
**(54)** Resilient, multi-layered wiping product
**(51)** Int. Cl.
***D04H 1/425*** ( 2012.01 )
***D04H 1/559*** ( 2012.01 )
***D04H 5/06*** ( 2006.01 )
**(87)** WO2020/139374
**(43)** 02.07.2020
**(72)** LILLEY, David A.; WALDROUP, Donald E.; COLMAN, Charles W.; BAKER, Joseph K.; SWAILS, Marvin E.; PAYNE, Michael; POLASHOCK, Vicky S.
**(74)** Spruson & Ferguson

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**(71)** Kimberly-Clark Worldwide, Inc.
**(11)** AU-A-2019422265
**(21)** 2019422265 **(22)** 18.01.2019
**(54)** Layered tissue comprising long, high-coarseness wood pulp fibers
**(51)** Int. Cl.
***D21H 27/38*** ( 2006.01 )
*D21H 11/04* ( 2006.01 )
**(87)** WO2020/149849
**(43)** 23.07.2020
**(72)** SHANNON, Thomas Gerard; LINDSAY, Stephen Michael; THOMPSON, Brent Merrik; UNDERHILL, Richard Louis
**(74)** Spruson & Ferguson

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**(71)** KL-Teho Oy
**(11)** AU-A-2020225419
**(21)** 2020225419 **(22)** 20.02.2020
**(54)** A fishing bait, a mouldable composition for manufacturing the fishing bait, a method for manufacturing the fishing bait and a use of the mouldable composition
**(51)** Int. Cl.
***A01K 97/04*** ( 2006.01 )
***A01K 85/00*** ( 2006.01 )
**(87)** WO2020/169885
**(31)** 19158188.3 **(32)** 20.02.19 **(33)** EP
**(43)** 27.08.2020
**(72)** KOKKONEN, Jari; SIIRTOLA, Juha; DICK, Eberhard; GÖTTLING, Sonja; WIRTH, Sigrid
**(74)** Griffith Hack

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**(71)** Koch-Glitsch, LP
**(11)** AU-A-2020247558
**(21)** 2020247558 **(22)** 18.03.2020
**(54)** Vapor distributor for a mass transfer column and method involving same
**(51)** Int. Cl.
***B01D 1/00*** ( 2006.01 )
***B01D 3/00*** ( 2006.01 )
**(87)** WO2020/194132
**(31)** 62/822,397 **(32)** 22.03.19 **(33)** US
62/903,942 23.09.19 US
**(43)** 01.10.2020
**(72)** NIEUWOUDT, Izak; TALBOT, Malcolm
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Komatsu Ltd.
**(11)** AU-A-2019431055
**(21)** 2019431055 **(22)** 18.11.2019
**(54)** Work management device, work management system, operation machine, work management method, and program
**(51)** Int. Cl.
***G06Q 50/08*** ( 2012.01 )
**(87)** WO2020/174774
**(31)** 2019-033036 **(32)** 26.02.19 **(33)** JP
**(43)** 03.09.2020
**(72)** SHIKE, Chikashi; NAKAMURA, Takeshi
**(74)** FB Rice Pty Ltd

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**(71)** Komatsu Ltd.
**(11)** AU-A-2020263549
**(21)** 2020263549 **(22)** 07.04.2020
**(54)** System and method for controlling work machines
**(51)** Int. Cl.
***E02F 9/20*** ( 2006.01 )
***H04Q 9/00*** ( 2006.01 )
**(87)** WO2020/217972
**(31)** 2019-082975 **(32)** 24.04.19 **(33)** JP
**(43)** 29.10.2020
**(72)** TAKAOKA, Yukihisa
**(74)** Shelston IP Pty Ltd.

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**(71)** Korea Aviation Light Co., Ltd.
**(11)** AU-A-2020405824
**(21)** 2020405824 **(22)** 24.07.2020
**(54)** Aviation obstacle light installation structure
**(51)** Int. Cl.
***F21V 21/10*** ( 2006.01 )
***F03D 80/10*** ( 2016.01 )
***F21V 21/096*** ( 2006.01 )
***F21V 31/00*** ( 2006.01 )
**(87)** WO2021/125486
**(31)** 10-2019-0170653 **(32)** 19.12.19 **(33)** KR
**(43)** 24.06.2021
**(72)** AN, Yong Jin; KANG, Dae Yong; JO, Hyoung Guen; LIM, Chang Hyun
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Kraft Foods Schweiz Holding GmbH
**(11)** AU-A-2020211400
**(21)** 2020211400 **(22)** 16.01.2020
**(54)** Pusher bin for storing bulk products
**(51)** Int. Cl.
***B65G 1/07*** ( 2006.01 )
***B65D 83/00*** ( 2006.01 )
**(87)** WO2020/154161
**(31)** 62/795,989 **(32)** 23.01.19 **(33)** US
**(43)** 30.07.2020
**(72)** BURNHAM, Thomas; GAMBLE, Nigel; JOYNSON, Alexander; NEYLAND-PHILLIPS, Ashleigh; WASHINGTON, Umi; ZEALAND, Gary
**(74)** Griffith Hack

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

**(71)** Kubota Corporation
**(11)** AU-A-2019429402
**(21)** 2019429402 **(22)** 20.11.2019
**(54)** Agricultural machinery
**(51)** Int. Cl.
***A01B 69/00*** ( 2006.01 )
***B62D 49/00*** ( 2006.01 )
***G01S 7/481*** ( 2006.01 )
***G01S 7/521*** ( 2006.01 )
***G01S 15/93*** ( 2020.01 )
***G01S 17/93*** ( 2020.01 )
***G08G 1/16*** ( 2006.01 )
**(87)** WO2020/166164
**(31)** 2019-024624 **(32)** 14.02.19 **(33)** JP
**(43)** 20.08.2020
**(72)** NISHIKUBO Takuya; MIYAKE Hiroshi
**(74)** Griffith Hack

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**(71)** Kuhns, H.D.
**(11)** AU-A-2020218361
**(21)** 2020218361 **(22)** 07.02.2020
**(54)** Light therapy system
**(51)** Int. Cl.
***A61N 5/06*** ( 2006.01 )
**(87)** WO2020/163757
**(31)** 62/802,686 **(32)** 07.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** KUHNS, Hampden D.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Kushnir, U.
**(11)** AU-A-2020251966
**(21)** 2020251966 **(22)** 27.03.2020
**(54)** Cultivated legume species ononis alopecuroides as a novel food source for livestock animals
**(51)** Int. Cl.
***A23K 20/142*** ( 2016.01 )
***A23K 50/10*** ( 2016.01 )
***A23K 50/15*** ( 2016.01 )
**(87)** WO2020/202141
**(31)** 62/826,411 **(32)** 29.03.19 **(33)** US
**(43)** 08.10.2020
**(72)** KUSHNIR, Uri
**(74)** WRAYS PTY LTD

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**(71)** Kyocera Senco Industrial Tools, Inc.
**(11)** AU-A-2020241300
**(21)** 2020241300 **(22)** 28.02.2020
**(54)** Autofeed screwdriver attachment with twist collar to activate movable plates for latching to screw gun
**(51)** Int. Cl.
***B25B 23/00*** ( 2006.01 )
***B25B 21/00*** ( 2006.01 )
***B25B 23/04*** ( 2006.01 )
**(87)** WO2020/190477
**(31)** 62/820,037 **(32)** 18.03.19 **(33)** US
16/443,410 17.06.19 US
**(43)** 24.09.2020
**(72)** CLARK, Chad L.
**(74)** Spruson & Ferguson

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**(71)** Kyowa Kirin Co., Ltd.
**(11)** AU-A-2020222120
**(21)** 2020222120 **(22)** 10.02.2020
**(54)** Method for treating pregancy-induced hypertension nephrosis
**(51)** Int. Cl.
***A61K 38/55*** ( 2006.01 )
***A61P 7/02*** ( 2006.01 )
***A61P 13/12*** ( 2006.01 )
**(87)** WO2020/166557
**(31)** 62/803,888 **(32)** 11.02.19 **(33)** US
62/820,459 19.03.19 US
**(43)** 20.08.2020
**(72)** NAKAMURA,Yoshihide; MURAYAMA,Takashi; TAKAGI, Kenichi; SHIMAZAKI, Ryutaro; ENDO, Yuichi; KANDA, Hironori; MOTOYAMA, Kayoko; KATO, Masaya; ORIHARA, Shunichiro; TANAKA, Tomoko
**(74)** Spruson & Ferguson

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**(71)** Labcyte Inc.
**(11)** AU-A-2020215595
**(21)** 2020215595 **(22)** 31.01.2020
**(54)** Acoustic concentration, transfer and analysis of samples containing particles
**(51)** Int. Cl.
***G01N 15/10*** ( 2006.01 )
***B05B 17/06*** ( 2006.01 )
***C12N 13/00*** ( 2006.01 )
**(87)** WO2020/160501
**(31)** 62/800,304 **(32)** 01.02.19 **(33)** US
**(43)** 06.08.2020
**(72)** ELLSON, Richard N.; STEARNS, Richard G.; HADIMIOGLU, Babur
**(74)** AJ PARK

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**(71)** Lashify, Inc.
**(11)** AU-A-2017302022
**(21)** 2017302022 **(22)** 27.07.2017
**(54)** Artificial lash extensions
**(51)** Int. Cl.
***A41G 5/02*** ( 2006.01 )
***A41G 5/00*** ( 2006.01 )
***A45D 2/48*** ( 2006.01 )
**(87)** WO2018/022914
**(31)** 62/368,116 **(32)** 28.07.16 **(33)** US
**(43)** 01.02.2018
**(72)** Lotti, Sahara
**(74)** Spruson & Ferguson

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**(71)** Les Innovations Dog E Katz Inc.
**(11)** AU-A-2020230911
**(21)** 2020230911 **(22)** 28.02.2020
**(54)** Boot and coat for domestic animals
**(51)** Int. Cl.
***A01K 13/00*** ( 2006.01 )
***A01K 29/00*** ( 2006.01 )
***A41D 1/02*** ( 2006.01 )
***A43B 3/00*** ( 2006.01 )
**(87)** WO2020/176980
**(31)** 62/812,480 **(32)** 01.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** D'ANGELO, Antonio; D'AMORE, Terry
**(74)** Adams Pluck

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**(71)** Les Laboratoires Servier SAS
**(11)** AU-A-2020221384
**(21)** 2020221384 **(22)** 13.02.2020
**(54)** Combination therapies for use in treating cancer
**(51)** Int. Cl.
***A61K 31/519*** ( 2006.01 )
***A61K 31/282*** ( 2006.01 )
***A61K 31/337*** ( 2006.01 )
***A61K 31/555*** ( 2006.01 )
***A61K 31/7068*** ( 2006.01 )
***A61K 33/243*** ( 2019.01 )
***A61K 45/06*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/168032
**(31)** 62/805,179 **(32)** 13.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** HYER, Marc Lee; KALEV, Petar; MARJON, Katya; MARKS, Kevin
**(74)** Spruson & Ferguson

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**(71)** Lexicon Pharmaceuticals, Inc.
**(11)** AU-A-2020231322
**(21)** 2020231322 **(22)** 28.02.2020
**(54)** Use of sotagliflozin for the treatment of patients with type 1 diabetes mellitus
**(51)** Int. Cl.
***A61K 31/351*** ( 2006.01 )
***A61P 3/10*** ( 2006.01 )
**(87)** WO2020/180647
**(31)** 62/812,338 **(32)** 01.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** BANKS, Phillip; SAWHNEY, Sangeeta
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** LG Electronics Inc.
**(11)** AU-A-2020205179
**(21)** 2020205179 **(22)** 02.01.2020
**(54)** Method and device for processing video signal by using inter prediction
**(51)** Int. Cl.
***H04N 19/58*** ( 2014.01 )
***H04N 19/105*** ( 2014.01 )
***H04N 19/119*** ( 2014.01 )
***H04N 19/176*** ( 2014.01 )
***H04N 19/70*** ( 2014.01 )
**(87)** WO2020/141889
**(31)** 62/787,384 **(32)** 02.01.19 **(33)** US
**(43)** 09.07.2020
**(72)** PALURI, Seethal; KIM, Seunghwan
**(74)** Dentons Patent Attorneys Australasia Limited

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**(71)** LG Electronics Inc.
**(11)** AU-A-2020206084
**(21)** 2020206084 **(22)** 10.01.2020
**(54)** Cooking device
**(51)** Int. Cl.
***A47J 37/06*** ( 2006.01 )
***A47J 27/12*** ( 2006.01 )
***F24C 7/06*** ( 2006.01 )
**(87)** WO2020/145761
**(31)** 10-2019-0004169 **(32)** 11.01.19 **(33)** KR
10-2019-0040378 05.04.19 KR
10-2019-0082347 08.07.19 KR
**(43)** 16.07.2020
**(72)** KIM, Hag Soo; KIM, Eui Sung; YOON, Sung Mun
**(74)** Dentons Patent Attorneys Australasia Limited

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

**(71)** LG Electronics Inc.
**(11)** AU-A-2020208074
**(21)** 2020208074 **(22)** 17.01.2020
**(54)** Mobile robot and method of controlling mobile robot
**(51)** Int. Cl.
***B25J 11/00*** ( 2006.01 )
***A47L 9/28*** ( 2006.01 )
***B25J 9/16*** ( 2006.01 )
***B25J 19/02*** ( 2006.01 )
**(87)** WO2020/149697
**(31)** 10-2019-0006058 **(32)** 17.01.19 **(33)** KR
**(43)** 23.07.2020
**(72)** CHOI, Juno; CHEONG, Janghun
**(74)** FB Rice Pty Ltd

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**(71)** LG Electronics Inc.
**(11)** AU-A-2020209330
**(21)** 2020209330 **(22)** 17.01.2020
**(54)** Mobile robot and method of controlling plurality of mobile robots
**(51)** Int. Cl.
***B25J 11/00*** ( 2006.01 )
***A47L 9/28*** ( 2006.01 )
***B25J 9/16*** ( 2006.01 )
***B25J 19/02*** ( 2006.01 )
**(87)** WO2020/149696
**(31)** 10-2019-0006059 **(32)** 17.01.19 **(33)** KR
**(43)** 23.07.2020
**(72)** CHOI, Wonjun
**(74)** FB Rice Pty Ltd

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**(71)** LI, Y.
**(11)** AU-A-2020237195
**(21)** 2020237195 **(22)** 12.03.2020
**(54)** Distributed system generating rule compiler engine apparatuses, methods, systems and media
**(51)** Int. Cl.
***G06F 16/245*** ( 2019.01 )
***G06F 16/2453*** ( 2019.01 )
***G06F 16/9032*** ( 2019.01 )
**(87)** WO2020/185988
**(31)** 62/894,001 **(32)** 30.08.19 **(33)** US
62/818,318 14.03.19 US
62/892,085 27.08.19 US
**(43)** 17.09.2020
**(72)** LI, Yadong
**(74)** Spruson & Ferguson

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**(71)** Licensys Australasia Pty Ltd
**(11)** AU-A-2019429902
**(21)** 2019429902 **(22)** 18.11.2019
**(54)** A vehicle license plate
**(51)** Int. Cl.
***B60R 13/10*** ( 2006.01 )
***G06K 19/07*** ( 2006.01 )
**(87)** WO2020/168375
**(31)** 2019900510 **(32)** 18.02.19 **(33)** AU
**(43)** 27.08.2020
**(72)** MCNEILAGE, Timothy; PRETORIUS, Albertus Jacobus
**(74)** Spruson & Ferguson

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**(71)** Liebherr-Werk Biberach GmbH
**(11)** AU-A-2020218102
**(21)** 2020218102 **(22)** 07.02.2020
**(54)** Device and method for controlling and/or configuring a construction machine
**(51)** Int. Cl.
***H04L 12/24*** ( 2006.01 )
***B66C 13/18*** ( 2006.01 )
***E02F 3/76*** ( 2006.01 )
***G05B 15/00*** ( 2006.01 )
***G06F 8/65*** ( 2018.01 )
***H04L 29/06*** ( 2006.01 )
***H04L 29/08*** ( 2006.01 )
**(87)** WO2020/161322
**(31)** 10 2019 103 195.8 **(32)** 08.02.19 **(33)** DE
**(43)** 13.08.2020
**(72)** BRAMBERGER, Robert; KÖGL, Martin
**(74)** Spruson & Ferguson

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**(71)** Life Technologies Corporation
**(11)** AU-A-2020225632
**(21)** 2020225632 **(22)** 21.02.2020
**(54)** Suspension system for adeno associated virus production
**(51)** Int. Cl.
***C07K 14/005*** ( 2006.01 )
***C12N 15/86*** ( 2006.01 )
**(87)** WO2020/172624
**(31)** 62/809,407 **(32)** 22.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** YU, Xin; DE MOLLERAT DU JEU, Xavier; LIU, Chao Yan; LIU, Jian; ZMUDA, Jonathan
**(74)** Spruson & Ferguson

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**(71)** Lightcast Discovery Ltd
**(11)** AU-A-2020219461
**(21)** 2020219461 **(22)** 07.02.2020
**(54)** Microdroplet manipulation method
**(51)** Int. Cl.
***B01L 3/00*** ( 2006.01 )
**(87)** WO2020/161500
**(31)** 19156182.8 **(32)** 08.02.19 **(33)** EP
**(43)** 13.08.2020
**(72)** ISAAC, Tom; BALMFORTH, Barnaby; CONTERIO, Jasmin; JOHNSON, Kerr Francis; SOSNA, Maciej; INGHAM, Richard; PODD, Gareth
**(74)** FB Rice Pty Ltd

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**(71)** Linde GmbH
**(11)** AU-A-2019431304
**(21)** 2019431304 **(22)** 26.02.2019
**(54)** Method and apparatus for producing ternary cathode material
**(51)** Int. Cl.
***H01M 4/48*** ( 2010.01 )
***F27B 9/06*** ( 2006.01 )
***F27B 9/12*** ( 2006.01 )
***F27B 9/24*** ( 2006.01 )
**(87)** WO2020/172784
**(43)** 03.09.2020
**(72)** FENG, Edward; WEI, Rocky
**(74)** Spruson & Ferguson

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**(71)** Lindsay Transportation Solutions, LLC
**(11)** AU-A-2019428452
**(21)** 2019428452 **(22)** 06.08.2019
**(54)** Anchorless crash cushion apparatus including crash cushion stabilizing structure
**(51)** Int. Cl.
***E01F 13/00*** ( 2006.01 )
***E01F 15/00*** ( 2006.01 )
**(87)** WO2020/162974
**(31)** 16/266,428 **(32)** 04.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** ELMORE, Matthew A.; LIM, Jason T.; DACAYANAN LOYA, Daniel Paul; MORALES FLORES, Alvaro E.; DYKE, Gerrit A.; THOMPSON, Jeff M.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Lindsay Transportation Solutions, LLC
**(11)** AU-A-2019428718
**(21)** 2019428718 **(22)** 06.08.2019
**(54)** Anchorless crash cushion apparatus with midnose stabilizing structure
**(51)** Int. Cl.
***E01F 15/08*** ( 2006.01 )
***E01F 13/00*** ( 2006.01 )
***E01F 13/02*** ( 2006.01 )
***E01F 15/00*** ( 2006.01 )
***E01F 15/14*** ( 2006.01 )
***F16F 7/12*** ( 2006.01 )
**(87)** WO2020/162975
**(31)** 16/266,475 **(32)** 04.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** DACAYANAN LOYA, Daniel Paul; ELMORE, Matthew A.; LIM, Jason T.; MORALES FLORES, Alvaro E.; DYKE, Gerrit A.; THOMPSON, Jeff M.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** LivePerson, Inc.
**(11)** AU-A-2020225381
**(21)** 2020225381 **(22)** 19.02.2020
**(54)** Dynamic text message processing implementing endpoint communication channel selection
**(51)** Int. Cl.
***H04L 12/58*** ( 2006.01 )
**(87)** WO2020/172326
**(31)** 62/809,136 **(32)** 22.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** CHEN, Anthony
**(74)** Spruson & Ferguson

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**(71)** Lo-Dough Limited
**(11)** AU-A-2020225816
**(21)** 2020225816 **(22)** 21.02.2020
**(54)** Granular food ingredient comprising a mucilaginous hydrocolloid, a mannan-based hydrocolloid, egg white and insoluble fibre
**(51)** Int. Cl.
***A21D 2/18*** ( 2006.01 )
***A21D 2/26*** ( 2006.01 )
***A21D 2/36*** ( 2006.01 )
***A21D 10/00*** ( 2006.01 )
***A21D 10/04*** ( 2006.01 )
***A21D 13/02*** ( 2006.01 )
***A21D 13/04*** ( 2017.01 )
***A21D 13/062*** ( 2017.01 )
***A21D 13/066*** ( 2017.01 )
***A21D 13/068*** ( 2017.01 )

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

***A21D 13/46*** ( 2017.01 )
***A23L 7/157*** ( 2016.01 )
***A23L 19/10*** ( 2016.01 )
***A23L 29/238*** ( 2016.01 )
***A23L 29/244*** ( 2016.01 )
**(87)** WO2020/169984
**(31)** 1902447.0 **(32)** 22.02.19 **(33)** GB
1910912.3 31.07.19 GB
**(43)** 27.08.2020
**(72)** HOLDEN, Ben; WALES, Robert
**(74)** Spruson & Ferguson

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**(71)** Low, H.
**(11)** AU-A-2021207960
**(21)** 2021207960 **(22)** 12.01.2021
**(54)** Method of enhancing heat dissipation from solar panel, and device therefor
**(51)** Int. Cl.
***H01L 31/048*** ( 2014.01 )
***H01L 31/052*** ( 2014.01 )
**(87)** WO2021/143675
**(31)** 32020001342.5 **(32)** 13.01.20 **(33)** HK
**(43)** 22.07.2021
**(72)** LOW, Hock Yew Winston
**(74)** BRM Patent Attorneys Pty Ltd

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**(71)** Lucid Software, Inc.
**(11)** AU-A-2020225223
**(21)** 2020225223 **(22)** 14.02.2020
**(54)** Reversible data transforms
**(51)** Int. Cl.
***G06F 16/904*** ( 2019.01 )
***G06F 16/25*** ( 2019.01 )
**(87)** WO2020/172069
**(31)** 62/809,402 **(32)** 22.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** DILTS, Benjamin N.; DAVIS, Tyler J.; MCKENNA, Sean P.
**(74)** Pangaea IP Consultants

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**(71)** Madison Vaccines Inc.
**(11)** AU-A-2020218259
**(21)** 2020218259 **(22)** 07.02.2020
**(54)** Cancer therapy
**(51)** Int. Cl.
***A61K 39/00*** ( 2006.01 )
***A61K 39/39*** ( 2006.01 )
***C07K 16/28*** ( 2006.01 )
***C07K 16/30*** ( 2006.01 )
***C12N 15/09*** ( 2006.01 )
**(87)** WO2020/163690
**(31)** 62/802,813 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** MCNEEL, Doug; LESNIEWSKI, Richard R.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** MAKO Surgical Corp.
**(11)** AU-A-2020232318
**(21)** 2020232318 **(22)** 05.03.2020
**(54)** Systems and methods for surgical registration
**(51)** Int. Cl.
***A61B 5/00*** ( 2006.01 )
**(87)** WO2020/181076
**(31)** 62/814,057 **(32)** 05.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** WU, Zhu; THOMPSON, Matthew; MITTELSTADT, Brent; ELBANNA, Jamil
**(74)** FB Rice Pty Ltd

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**(71)** Mannesch, A.
**(11)** AU-A-2020225325
**(21)** 2020225325 **(22)** 18.02.2020
**(54)** Wideband antenna, in particular for a microwave imaging system
**(51)** Int. Cl.
***H01Q 1/38*** ( 2006.01 )
***H01Q 9/27*** ( 2006.01 )
**(87)** WO2020/169619
**(31)** FR1901784 **(32)** 21.02.19 **(33)** FR
**(43)** 27.08.2020
**(72)** MANNESCHI, Alessandro
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Marker Diagnostics Uk Limited
**(11)** AU-A-2020220963
**(21)** 2020220963 **(22)** 14.02.2020
**(54)** Salivary biomarkers of brain injury
**(51)** Int. Cl.
***C12Q 1/6883*** ( 2018.01 )
**(87)** WO2020/165863
**(31)** 62/805,761 **(32)** 14.02.19 **(33)** US
62/884,104 07.08.19 US
**(43)** 20.08.2020
**(72)** BELLI, Antonio; DI PIETRO, Valentina
**(74)** Lord & Company

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**(71)** Marksman Targeting, Inc.
**(11)** AU-A-2019428232
**(21)** 2019428232 **(22)** 04.02.2019
**(54)** Collar device for mounting with an image receptor of a medical imaging system
**(51)** Int. Cl.
***A61B 17/17*** ( 2006.01 )
***A61B 34/10*** ( 2016.01 )
***A61B 34/20*** ( 2016.01 )
**(87)** WO2020/162869
**(43)** 13.08.2020
**(72)** BROWN, Roy Anthony; AUSDAL, Kellen Van
**(74)** Adams Pluck

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**(71)** Merck Patent GmbH
**(11)** AU-A-2020232026
**(21)** 2020232026 **(22)** 09.03.2020
**(54)** Carboxamide-pyrimidine derivatives as shp2 antagonists
**(51)** Int. Cl.
***C07D 401/04*** ( 2006.01 )
***A61K 31/506*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07D 239/42*** ( 2006.01 )
***C07D 403/04*** ( 2006.01 )
***C07D 405/14*** ( 2006.01 )
***C07D 413/04*** ( 2006.01 )
***C07D 451/14*** ( 2006.01 )
***C07D 491/107*** ( 2006.01 )
**(87)** WO2020/181283
**(31)** 19161323.1 **(32)** 07.03.19 **(33)** EP
62/879,597 29.07.19 US
**(43)** 10.09.2020
**(72)** JORAND-LEBRUN, Catherine; BOIVIN, Roch; MOCHALKIN, Igor; JOHNSON, Theresa; LINDE, Nina; MUSCH, Doreen; KUMAR, Deepak
**(74)** Griffith Hack

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**(71)** Merus N.V.
**(11)** AU-A-2020221649
**(21)** 2020221649 **(22)** 13.02.2020
**(54)** Producing compositions comprising two or more antibodies.
**(51)** Int. Cl.
***C07K 16/00*** ( 2006.01 )
***C07K 1/18*** ( 2006.01 )
***C07K 16/06*** ( 2006.01 )
***C07K 16/30*** ( 2006.01 )
***C07K 16/46*** ( 2006.01 )
**(87)** WO2020/167122
**(31)** 19157286.6 **(32)** 14.02.19 **(33)** EP
19178542.7 05.06.19 EP
**(43)** 20.08.2020
**(72)** DOORNBOS, Robert Paul; BAKKER, Alexander Berthold Hendrik
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Merus N.V.
**(11)** AU-A-2020222749
**(21)** 2020222749 **(22)** 13.02.2020
**(54)** Combinations of binding moieties that bind EGFR, HER2 and HER3.
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07K 16/32*** ( 2006.01 )
*A61K 39/00* ( 2006.01 )
**(87)** WO2020/167123
**(31)** 19157302.1 **(32)** 14.02.19 **(33)** EP
19178564.1 05.06.19 EP
**(43)** 20.08.2020
**(72)** GEUIJEN, Cecilia Anna Wilhelmina; GALLENNE, Tristan Louis Jean; THROSBY, Mark; DE KRUIF, Cornelis Adriaan
**(74)** Spruson & Ferguson

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**(71)** Micon Technology, Inc.
**(11)** AU-A-2019383946
**(21)** 2019383946 **(22)** 14.11.2019
**(54)** Electron beam irradiated product and methods
**(51)** Int. Cl.
***E04C 5/07*** ( 2006.01 )
***C04B 16/00*** ( 2006.01 )
***C04B 16/04*** ( 2006.01 )
***E04C 5/00*** ( 2006.01 )
**(87)** WO2020/106544
**(31)** 62/769,892 **(32)** 20.11.18 **(33)** US
**(43)** 28.05.2020
**(72)** BAKHTARI, Kaveh; BUYUKOZTURK, Oral; SHORT, Michael Philip
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Mirum Pharmaceuticals, Inc.
**(11)** AU-A-2020221834
**(21)** 2020221834 **(22)** 12.02.2020

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

**(54)** Genotype and dose-dependent response to an ASBTI in patients with bile salt export pump deficiency
**(51)** Int. Cl.
***A61K 31/4995*** ( 2006.01 )
***A61P 1/16*** ( 2006.01 )
**(87)** WO2020/167964
**(31)** 62/804,523 **(32)** 12.02.19 **(33)** US
62/908,431 30.09.19 US
62/863,904 20.06.19 US
62/932,015 07.11.19 US
**(43)** 20.08.2020
**(72)** JAECKLIN, Thomas; DORENBAUM, Alejandro
**(74)** Spruson & Ferguson

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**(71)** Mirum Pharmaceuticals, Inc.
**(11)** AU-A-2020223022
**(21)** 2020223022 **(22)** 12.02.2020
**(54)** Methods for increasing growth in pediatric subjects having cholestatic liver disease
**(51)** Int. Cl.
***A61K 38/10*** ( 2006.01 )
**(87)** WO2020/167981
**(31)** 62/804,523 **(32)** 12.02.19 **(33)** US
62/863,904 20.06.19 US
62/908,431 30.09.19 US
62/932,015 07.11.19 US
**(43)** 20.08.2020
**(72)** JAECKLIN, Thomas; DORENBAUM, Alejandro
**(74)** Spruson & Ferguson

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**(71)** Mitsubishi Electric Corporation
**(11)** AU-A-2019445121
**(21)** 2019445121 **(22)** 08.04.2019
**(54)** Outdoor unit of air conditioner
**(51)** Int. Cl.
***F24F 1/22*** ( 2011.01 )
**(87)** WO2020/208675
**(43)** 15.10.2020
**(72)** YAMASUSO, Masaya; KAWAGUCHI, Yohei
**(74)** Davies Collison Cave Pty Ltd

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**(71)** MorphoSys AG
**(11)** AU-A-2020235263
**(21)** 2020235263 **(22)** 13.03.2020
**(54)** Antibodies targeting C5aR
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 37/00*** ( 2006.01 )
**(87)** WO2020/182974
**(31)** 19162759.5 **(32)** 14.03.19 **(33)** EP
**(43)** 17.09.2020
**(72)** NEUGEBAUER, Julia; BACHLER-KONETZKI, Barbara; HERRMANN, Tanja; ELIS, Winfried
**(74)** Shelston IP Pty Ltd.

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**(71)** Motorola Solutions, Inc.
**(11)** AU-A-2020225135
**(21)** 2020225135 **(22)** 17.01.2020
**(54)** Video annotation
**(51)** Int. Cl.
***G11B 27/28*** ( 2006.01 )
***G06F 16/732*** ( 2019.01 )
***G06F 16/78*** ( 2019.01 )
***G11B 27/031*** ( 2006.01 )
*G06K 9/00* ( 2006.01 )
*G08B 13/196* ( 2006.01 )
*H04N 7/18* ( 2006.01 )
**(87)** WO2020/171901
**(31)** 16/281,199 **(32)** 21.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** GAN, Guo Dong; CHEW, Yen Hsiang; PHUA, Jin Hoe; DURAIMANICKAM, Tejeash
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Muanchart, M.
**(11)** AU-A-2020264069
**(21)** 2020264069 **(22)** 29.01.2020
**(54)** Equipment and process for plant nutrition through the air
**(51)** Int. Cl.
***A01G 31/02*** ( 2006.01 )
**(87)** WO2020/218981
**(31)** 1901002389 **(32)** 22.04.19 **(33)** TH
**(43)** 29.10.2020
**(72)** MUANCHART, Mankaew
**(74)** Baxter Patent Attorneys Pty Ltd

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**(71)** Munsell, M.; Dumienski, Z.
**(11)** AU-A-2020219380
**(21)** 2020219380 **(22)** 10.02.2020
**(54)** Processing and preserving a kava product and process of making it stable
**(51)** Int. Cl.
***A23L 3/00*** ( 2006.01 )
***A23L 3/015*** ( 2006.01 )
***A23L 3/16*** ( 2006.01 )
***A23L 3/32*** ( 2006.01 )
***A23L 3/36*** ( 2006.01 )
***A23L 3/40*** ( 2006.01 )
**(87)** WO2020/163843
**(31)** 16/271,848 **(32)** 10.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** MUNSELL, Michael; DUMIENSKI, Zbigniew
**(74)** Cotters Patent & Trade Mark Attorneys

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**(71)** MVRx, Inc.
**(11)** AU-A-2020215043
**(21)** 2020215043 **(22)** 30.01.2020
**(54)** Suture management device and methods
**(51)** Int. Cl.
***A61B 17/04*** ( 2006.01 )
**(87)** WO2020/160218
**(31)** 62/799,574 **(32)** 31.01.19 **(33)** US
**(43)** 06.08.2020
**(72)** MACHOLD, Timothy R.; THOLFSEN, David R.
**(74)** FB Rice Pty Ltd

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**(71)** National University of Ireland, Galway
**(11)** AU-A-2020221615
**(21)** 2020221615 **(22)** 13.02.2020
**(54)** An ablation probe
**(51)** Int. Cl.
***A61B 18/14*** ( 2006.01 )
**(87)** WO2020/165375
**(31)** 19157020.9 **(32)** 13.02.19 **(33)** EP
**(43)** 20.08.2020
**(72)** EATON-EVANS, Jimmy; RUVIO, Giuseppe; BOUCHIER-HAYES, Jonathan; O'HALLORAN, Martin; BRUZZI, Mark
**(74)** Michael Buck IP

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**(71)** National University of Singapore
**(11)** AU-A-2020229628
**(21)** 2020229628 **(22)** 28.02.2020
**(54)** Recombinant bacteria and uses thereof
**(51)** Int. Cl.
***A61K 35/744*** ( 2015.01 )
***A61P 29/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/176042
**(31)** 10201901828T **(32)** 28.02.19 **(33)** SG
**(43)** 03.09.2020
**(72)** ZHANG, Yongliang; PNG, Chin Wen
**(74)** Spruson & Ferguson

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**(71)** National University of Singapore
**(11)** AU-A-2020232327
**(21)** 2020232327 **(22)** 06.03.2020
**(54)** Non-viral modification of mesenchymal stem cells
**(51)** Int. Cl.
***C12N 5/0775*** ( 2010.01 )
***A61K 35/28*** ( 2015.01 )
***A61P 35/00*** ( 2006.01 )
***C12N 15/85*** ( 2006.01 )
**(87)** WO2020/178800
**(31)** 10201902002S **(32)** 06.03.19 **(33)** SG
**(43)** 10.09.2020
**(72)** TOO, Heng-Phon; HO, Yoon Khei; TU, Xue En Geraldine
**(74)** Gestalt Law Pty Ltd

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**(71)** Naval Group
**(11)** AU-A-2020225017
**(21)** 2020225017 **(22)** 19.02.2020
**(54)** Integrated device for carrying out a water gas reaction and catalytic oxidation, system incorporating such a device and naval platform incorporating such a system
**(51)** Int. Cl.
***C01B 3/16*** ( 2006.01 )
***B01J 8/02*** ( 2006.01 )
***B01J 8/04*** ( 2006.01 )
***C01B 3/48*** ( 2006.01 )
**(87)** WO2020/169663
**(31)** FR19 01739 **(32)** 21.02.19 **(33)** FR
**(43)** 27.08.2020
**(72)** BOULAIRE, François-Xavier; BOUHIER, Aurélien; GUIHENEUF, Nicolas
**(74)** Davies Collison Cave Pty Ltd

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**(71)** NDT Global AS
**(11)** AU-A-2020216052
**(21)** 2020216052 **(22)** 31.01.2020
**(54)** A method and device for non-destructive testing of a plate material
**(51)** Int. Cl.
***G01N 29/12*** ( 2006.01 )
***G01N 29/38*** ( 2006.01 )

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

**(87)** WO2020/159385
**(31)** 20190133 **(32)** 31.01.19 **(33)** NO
**(43)** 06.08.2020
**(72)** NORLI, Petter
**(74)** Shelston IP Pty Ltd.

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**(71)** Newclip International
**(11)** AU-A-2020222242
**(21)** 2020222242 **(22)** 13.02.2020
**(54)** Osteosynthesis device with plate provided with a threaded hole for receiving a locked fastening screw
**(51)** Int. Cl.
***A61B 17/80*** ( 2006.01 )
***A61B 17/84*** ( 2006.01 )
*A61B 17/86* ( 2006.01 )
**(87)** WO2020/165360
**(31)** 1901476 **(32)** 14.02.19 **(33)** FR
**(43)** 20.08.2020
**(72)** BALLERINI, Julien; LARCHE, Grégoire; PODGORSKI, Jean-Pierre
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** NewSouth Innovations Pty Limited
**(11)** AU-A-2020228672
**(21)** 2020228672 **(22)** 28.02.2020
**(54)** Network bandwidth apportioning
**(51)** Int. Cl.
***H04L 29/00*** ( 2006.01 )
***H04W 28/10*** ( 2009.01 )
**(87)** WO2020/172721
**(31)** 2019900655 **(32)** 28.02.19 **(33)** AU
**(43)** 03.09.2020
**(72)** SIVARAMAN, Vijay; GHARAKHEILI, Hassan Habibi; KUMAR, Himal; MADANAPALLI, Sharat Chandra
**(74)** Davies Collison Cave Pty Ltd

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**(71)** New-Tec Integration (Xiamen) Co., Ltd.
**(11)** AU-A-2019429012
**(21)** 2019429012 **(22)** 19.08.2019
**(54)** Composite panel and desk having same
**(51)** Int. Cl.
***A47B 13/08*** ( 2006.01 )
***A47B 3/00*** ( 2006.01 )
***A47B 3/083*** ( 2006.01 )
**(87)** WO2020/164235
**(31)** 201910115646.7 **(32)** 15.02.19 **(33)** CN
**(43)** 20.08.2020
**(72)** LENG, Luhao
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Nexa3D Inc.
**(11)** AU-A-2020241100
**(21)** 2020241100 **(22)** 16.01.2020
**(54)** Method and system for additive manufacture
**(51)** Int. Cl.
***B29C 64/124*** ( 2017.01 )
***B29C 64/255*** ( 2017.01 )
***B29C 64/321*** ( 2017.01 )
***B29C 64/393*** ( 2017.01 )
**(87)** WO2020/190360
**(31)** 62/820,206 **(32)** 18.03.19 **(33)** US
**(43)** 24.09.2020
**(72)** MEDALSY, Izhar; TRINGALI, Luciano
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Nexter Systems
**(11)** AU-A-2020222084
**(21)** 2020222084 **(22)** 12.02.2020
**(54)** Ammunition conveyor and turret comprising such a conveyor
**(51)** Int. Cl.
***F41A 9/11*** ( 2006.01 )
***F41A 9/22*** ( 2006.01 )
***F42B 39/22*** ( 2006.01 )
*F41A 9/26* ( 2006.01 )
**(87)** WO2020/165792
**(31)** 1901400 **(32)** 14.02.19 **(33)** FR
**(43)** 20.08.2020
**(72)** MARTINEZ, Yves
**(74)** Wallington-Dummer

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**(71)** Nextracker Inc.
**(11)** AU-A-2020227736
**(21)** 2020227736 **(22)** 25.02.2020
**(54)** Power converters and methods of controlling same
**(51)** Int. Cl.
***H02M 3/158*** ( 2006.01 )
**(87)** WO2020/176540
**(31)** 16/284,807 **(32)** 25.02.19 **(33)** US
**(43)** 03.09.2020
**(72)** LI, Chen; LIU, Yang; KHAN, Mohammad Salmaan; KAMEI, Jonathan Kenzo; LELE, Sandeep Sanjiva
**(74)** Clark Intellectual Property Pty Ltd

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**(71)** Nippon Steel Corporation; JFE Steel Corporation; Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.); Nippon Steel Engineering Co., Ltd.
**(11)** AU-A-2020226229
**(21)** 2020226229 **(22)** 17.02.2020
**(54)** Blast furnace operation method
**(51)** Int. Cl.
***C21B 5/00*** ( 2006.01 )
**(87)** WO2020/171008
**(31)** 2019-026220 **(32)** 18.02.19 **(33)** JP
**(43)** 27.08.2020
**(72)** SAKAI, Hiroshi; NISHIOKA, Koki; NAKANO, Kaoru
**(74)** Spruson & Ferguson

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**(71)** Nippon Steel Corporation
**(11)** AU-A-2020240203
**(21)** 2020240203 **(22)** 02.03.2020
**(54)** Rail
**(51)** Int. Cl.
***C21D 8/00*** ( 2006.01 )
***C21D 9/04*** ( 2006.01 )
***C22C 38/00*** ( 2006.01 )
***C22C 38/58*** ( 2006.01 )
**(87)** WO2020/189232
**(31)** 2019-048809 **(32)** 15.03.19 **(33)** JP
**(43)** 24.09.2020
**(72)** UEDA, Masaharu; MIYAZAKI, Teruhisa; TANAHASHI, Takuya; MAEDA, Yusuke
**(74)** Spruson & Ferguson

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**(71)** Nippon Telegraph and Telephone Corporation
**(11)** AU-A-2020226154
**(21)** 2020226154 **(22)** 07.02.2020
**(54)** Communication terminal device, communication control method, and communication control program
**(51)** Int. Cl.
***H04L 12/66*** ( 2006.01 )
***G06F 13/00*** ( 2006.01 )
**(87)** WO2020/170863
**(31)** 2019-030887 **(32)** 22.02.19 **(33)** JP
**(43)** 27.08.2020
**(72)** TYOU, Iifan; NUKUSHINA, Takahiro; TANIKAWA, Masaki; NAGAFUCHI, Yukio; KASHIMA, Shingo; MURATA, Tetsuhiko; OTA, Kenji; KONDO, Tsuyoshi; NOMURA, Koki; MUKAIYAMA, Akio; NAGAYAMA, Hiroki; MORISHITA, Koji
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Nipro Corporation
**(11)** AU-A-2020207989
**(21)** 2020207989 **(22)** 17.01.2020
**(54)** Drug solution injection controller
**(51)** Int. Cl.
***A61M 5/175*** ( 2006.01 )
***A61M 5/152*** ( 2006.01 )
***A61M 5/168*** ( 2006.01 )
**(87)** WO2020/149406
**(31)** 2019-006387 **(32)** 17.01.19 **(33)** JP
**(43)** 23.07.2020
**(72)** SAKAMOTO, Shingo
**(74)** Shelston IP Pty Ltd.

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**(71)** Olsson, A.
**(11)** AU-A-2020224695
**(21)** 2020224695 **(22)** 18.02.2020
**(54)** Portable device
**(51)** Int. Cl.
***B21D 7/04*** ( 2006.01 )
***B21F 1/04*** ( 2006.01 )
***B21F 27/14*** ( 2006.01 )
***B21F 33/00*** ( 2006.01 )
**(87)** WO2020/168384
**(31)** 2019900515 **(32)** 18.02.19 **(33)** AU
**(43)** 27.08.2020
**(72)** OLSSON, Ashley Dean
**(74)** Spruson & Ferguson

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**(71)** Omideon Ltd
**(11)** AU-A-2020210958
**(21)** 2020210958 **(22)** 24.01.2020
**(54)** CBM uses
**(51)** Int. Cl.
***A61K 38/16*** ( 2006.01 )
***A61K 38/43*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/152479
**(31)** 1901057.8 **(32)** 25.01.19 **(33)** GB
**(43)** 30.07.2020
**(72)** ROGERS, Graeme; CONNARIS, Helen
**(74)** Phillips Ormonde Fitzpatrick

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

**(71)** OncoImmune, Inc.; University of Maryland, Baltimore
**(11)** AU-A-2020219216
**(21)** 2020219216 **(22)** 05.02.2020
**(54)** Targeting CD24-Siglec interactions for the treatment and prevention of nonalcoholic steatohepatitis
**(51)** Int. Cl.
***C07K 14/705*** ( 2006.01 )
***C07K 14/435*** ( 2006.01 )
***C07K 19/00*** ( 2006.01 )
**(87)** WO2020/163529
**(31)** 62/801,986 **(32)** 06.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** LIU, Yang; ZHENG, Pan; WANG, Xu; LIU, Mingyue; DEVENPORT, Martin
**(74)** Spruson & Ferguson

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**(71)** OncoImmune, Inc.; Children's Research Institute, Children's National Medical Center
**(11)** AU-A-2020219785
**(21)** 2020219785 **(22)** 05.02.2020
**(54)** Targeting CD24-Siglec interactions for treating subjects with prediabetes or diabetes
**(51)** Int. Cl.
***C07K 14/705*** ( 2006.01 )
***A61K 38/00*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***G01N 33/00*** ( 2006.01 )
***G01N 33/53*** ( 2006.01 )
**(87)** WO2020/163523
**(31)** 62/801,972 **(32)** 06.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** LIU, Yang; ZHENG, Pan; WANG, Xu; DEVENPORT, Martin
**(74)** Spruson & Ferguson

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**(71)** ONXEO; INSERM (Institut National de la Santé et de la Recherche Médicale); Universite Paul Sabatier Toulouse III; Institut Claudius Regaud
**(11)** AU-A-2020242287
**(21)** 2020242287 **(22)** 19.03.2020
**(54)** A Dbait molecule in combination with kinase inhibitor for the treatment of cancer
**(51)** Int. Cl.
***C12N 15/113*** ( 2010.01 )
***C12N 15/11*** ( 2006.01 )
**(87)** WO2020/188015
**(31)** 19305349.3 **(32)** 21.03.19 **(33)** EP
**(43)** 24.09.2020
**(72)** BONO, Françoise; FAVRE, Gilles; CALVAYRAC, Olivier
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Otsuka Pharmaceutical Co., Ltd.
**(11)** AU-A-2020244921
**(21)** 2020244921 **(22)** 25.03.2020
**(54)** Antitumor composition
**(51)** Int. Cl.
***A61K 31/44*** ( 2006.01 )
***A61K 31/175*** ( 2006.01 )
***A61K 31/198*** ( 2006.01 )
***A61K 31/255*** ( 2006.01 )
***A61K 31/4184*** ( 2006.01 )
***A61K 31/4439*** ( 2006.01 )
***A61K 31/47*** ( 2006.01 )
***A61K 31/506*** ( 2006.01 )
***A61K 31/513*** ( 2006.01 )
***A61K 31/517*** ( 2006.01 )
***A61K 31/519*** ( 2006.01 )
***A61K 31/5377*** ( 2006.01 )
***A61K 31/635*** ( 2006.01 )
***A61K 31/675*** ( 2006.01 )
***A61K 31/7008*** ( 2006.01 )
***A61K 31/706*** ( 2006.01 )
***A61K 31/7068*** ( 2006.01 )
***A61K 39/395*** ( 2006.01 )
***A61K 45/06*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2020/196665
**(31)** 2019-057029 **(32)** 25.03.19 **(33)** JP
**(43)** 01.10.2020
**(72)** OHI, Naoto; OKUNO, Mitsuhiro; TANAKA, Hideo
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Oy ICS Intelligent Control Systems Ltd
**(11)** AU-A-2020213717
**(21)** 2020213717 **(22)** 31.01.2020
**(54)** Optical structure for solar applications and manufacturing method
**(51)** Int. Cl.
***H01L 31/0232*** ( 2014.01 )
***B29D 1/00*** ( 2006.01 )
***B32B 37/00*** ( 2006.01 )
***G02B 6/42*** ( 2006.01 )
***H01L 31/0236*** ( 2006.01 )
***H01L 31/046*** ( 2014.01 )
***H01L 31/054*** ( 2014.01 )
***H01L 31/056*** ( 2014.01 )
**(87)** WO2020/157387
**(31)** 62/799,606 **(32)** 31.01.19 **(33)** US
**(43)** 06.08.2020
**(72)** RINKO, Kari
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** PACT Pharma, Inc.
**(11)** AU-A-2020221229
**(21)** 2020221229 **(22)** 12.02.2020
**(54)** Compositions and methods for identification of antigen specific T cells
**(51)** Int. Cl.
***C07K 14/705*** ( 2006.01 )
***C12Q 1/6876*** ( 2018.01 )
***G01N 33/58*** ( 2006.01 )
**(87)** WO2020/167918
**(31)** 62/826,823 **(32)** 29.03.19 **(33)** US
62/867,165 26.06.19 US
62/804,649 12.02.19 US
62/876,380 19.07.19 US
**(43)** 20.08.2020
**(72)** PENG, Songming; QUACH, Boi Bryant; AN, Duo; BAO, Xiaoyan Robert; FRANZUSOFF, Alexis; SENNINO, Barbara; DALMAS, Olivier; MANDL-CASHMAN, Stefanie
**(74)** Griffith Hack

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**(71)** Paisley, W.
**(11)** AU-A-2021200650
**(21)** 2021200650 **(22)** 28.01.2021
**(54)** Systems and methods for creating and managing clinical decision support systems
**(51)** Int. Cl.
***G16H 10/60*** ( 2018.01 )
***G16H 20/00*** ( 2018.01 )
**(31)** 2020900422 **(32)** 14.02.20 **(33)** AU
**(43)** 02.09.2021
**(72)** Paisley, William
**(74)** LEGALVISION ILP PTY. LTD.

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**(71)** Paltech
**(11)** AU-A-2020220614
**(21)** 2020220614 **(22)** 03.02.2020
**(54)** Process for moulding polymeric foam core sandwich articles
**(51)** Int. Cl.
***C08J 9/08*** ( 2006.01 )
***C08J 9/10*** ( 2006.01 )
***C08J 9/34*** ( 2006.01 )
**(87)** WO2020/164947
**(31)** 19156572.0 **(32)** 12.02.19 **(33)** EP
**(43)** 20.08.2020
**(72)** FEERICK, Patrick; DOYLE, Adrian
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Particle Sciences Inc.
**(11)** AU-A-2020226355
**(21)** 2020226355 **(22)** 14.02.2020
**(54)** Compartmentalized drug delivery devices
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 31/57*** ( 2006.01 )
***A61K 47/34*** ( 2017.01 )
***A61P 15/02*** ( 2006.01 )
***A61P 15/18*** ( 2006.01 )
**(87)** WO2020/172065
**(31)** 62/807,336 **(32)** 19.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** MCCONNELL, Jason L.; MITCHNICK, Mark A.; FRANK, Bruce L.; OKOH, Onajite
**(74)** Houlihan² Pty Ltd

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**(71)** Peking University
**(11)** AU-A-2019440527
**(21)** 2019440527 **(22)** 29.11.2019
**(54)** Application of MIT and/or DIT as thyroid cancer marker and kit
**(51)** Int. Cl.
***G01N 30/02*** ( 2006.01 )
***G01N 30/04*** ( 2006.01 )
***G01N 30/06*** ( 2006.01 )
***G01N 30/14*** ( 2006.01 )
***G01N 30/72*** ( 2006.01 )
***G01N 30/86*** ( 2006.01 )
***G01N 30/88*** ( 2006.01 )
**(87)** WO2020/207037
**(31)** 16/378,802 **(32)** 09.04.19 **(33)** US
201911027895.7 25.10.19 CN
**(43)** 15.10.2020
**(72)** WAN, Yi; CUI, Hongyang
**(74)** Madderns Pty Ltd

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**(71)** Pepsico, Inc.
**(11)** AU-A-2020226531
**(21)** 2020226531 **(22)** 19.02.2020
**(54)** Beverage container
**(51)** Int. Cl.

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

***B65D 1/42*** ( 2006.01 )
***B65D 1/02*** ( 2006.01 )
***B65D 1/40*** ( 2006.01 )
***B65D 90/02*** ( 2019.01 )
**(87)** WO2020/172275
**(31)** 16/282,063 **(32)** 21.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** BHAT, Advait; TELESCA, Bruno; WIESCINSKI, Marc T.
**(74)** Spruson & Ferguson

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**(71)** Perkinelmer Health Sciences Canada, Inc.
**(11)** AU-A-2019423246
**(21)** 2019423246 **(22)** 15.01.2019
**(54)** Analyzing fluids
**(51)** Int. Cl.
***G01N 15/14*** ( 2006.01 )
***G01N 21/73*** ( 2006.01 )
***G01N 33/28*** ( 2006.01 )
***H01J 49/10*** ( 2006.01 )
*G01N 15/00* ( 2006.01 )
**(87)** WO2020/149836
**(43)** 23.07.2020
**(72)** STEPHAN, Chady; HILLIGOSS, David
**(74)** FB Rice Pty Ltd

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**(71)** Pettine, K.A.; Moseley, T.A.
**(11)** AU-A-2020217808
**(21)** 2020217808 **(22)** 07.02.2020
**(54)** Method for treating osteoarthritis with a combination of mesenchymal stem cell exosomes, synovial mesencymal stem cells, and scaffolds
**(51)** Int. Cl.
***A61K 35/28*** ( 2015.01 )
***A61K 35/00*** ( 2006.01 )
***A61K 35/12*** ( 2015.01 )
***A61K 35/26*** ( 2015.01 )
**(87)** WO2020/163803
**(31)** 62/802,310 **(32)** 07.02.19 **(33)** US
62/908,853 01.10.19 US
**(43)** 13.08.2020
**(72)** PETTINE, Kenneth Allen; MOSELEY, Timothy Alexander
**(74)** Madderns Pty Ltd

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**(71)** Pfizer Inc.
**(11)** AU-A-2020222083
**(21)** 2020222083 **(22)** 12.02.2020
**(54)** Crystalline pyrimidinyl-3,8-diazabicyclo(3.2.1)octanylmethanone compound and use thereof
**(51)** Int. Cl.
***C07D 487/08*** ( 2006.01 )
***A61K 31/506*** ( 2006.01 )
***A61P 17/00*** ( 2006.01 )
***A61P 19/02*** ( 2006.01 )
***A61P 37/00*** ( 2006.01 )
**(87)** WO2020/165788
**(31)** 62/806,180 **(32)** 15.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** YANG, Xiaojing; SAMUEL, Amanda Patrice Surajhie
**(74)** Davies Collison Cave Pty Ltd

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**(71)** PGS Geophysical AS
**(11)** AU-A-2020224347
**(21)** 2020224347 **(22)** 21.02.2020
**(54)** Marine seismic inline source for near-continuously actuation
**(51)** Int. Cl.
***G01V 1/38*** ( 2006.01 )
**(87)** WO2020/169790
**(31)** 62/808,520 **(32)** 21.02.19 **(33)** US
62/908,786 01.10.19 US
16/793,093 18.02.20 US
**(43)** 27.08.2020
**(72)** HEGNA, Stian; KLUVER, Tilman
**(74)** Davies Collison Cave Pty Ltd

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**(71)** PGS Geophysical AS
**(11)** AU-A-2020226722
**(21)** 2020226722 **(22)** 20.02.2020
**(54)** Seismic source with chamber for housing wave generator
**(51)** Int. Cl.
***G01V 1/137*** ( 2006.01 )
***G01V 1/02*** ( 2006.01 )
***G01V 1/38*** ( 2006.01 )
***G01V 1/387*** ( 2006.01 )
**(87)** WO2020/169729
**(31)** 62/808,139 **(32)** 20.02.19 **(33)** US
16/787,945 11.02.20 US
**(43)** 27.08.2020
**(72)** IRVING, Rick
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Pioneer Hi-Bred International, Inc.
**(11)** AU-A-2020236982
**(21)** 2020236982 **(22)** 10.03.2020
**(54)** Methods and compositions for imputing or predicting genotype or phenotype
**(51)** Int. Cl.
***G16B 20/20*** ( 2019.01 )
***G16B 25/10*** ( 2019.01 )
***G16B 40/30*** ( 2019.01 )
**(87)** WO2020/185725
**(31)** 62/816,719 **(32)** 11.03.19 **(33)** US
62/833,497 12.04.19 US
62/960,363 13.01.20 US
**(43)** 17.09.2020
**(72)** BAUMGARTEN, Andrew; GERKE, Justin P.; RODGERS-MELNICK, Eli
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Pixium Vision SA
**(11)** AU-A-2020245773
**(21)** 2020245773 **(22)** 27.03.2020
**(54)** Method and device for projecting a pattern of interest on a modified retinal area of a human eye
**(51)** Int. Cl.
***A61B 3/00*** ( 2006.01 )
**(87)** WO2020/193798
**(31)** PCT/ **(32)** 28.03.19 **(33)** EP
EP2019/057967
**(43)** 01.10.2020
**(72)** DURBAN, Bastien; FLODERER, Jean-Baptiste; DENEFLE, Maxime; DETERRE, Martin
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Pixium Vision SA
**(11)** AU-A-2020249609
**(21)** 2020249609 **(22)** 27.03.2020
**(54)** System for projecting a pattern of interest onto a retinal area of a human eye
**(51)** Int. Cl.
***A61B 3/00*** ( 2006.01 )
**(87)** WO2020/193796
**(31)** PCT/ **(32)** 28.03.19 **(33)** EP
EP2019/057965
**(43)** 01.10.2020
**(72)** BUC, Guillaume; BEUQUE, Xavier; BISMUTH, Vincent; DETERRE, Martin
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Pixium Vision SA
**(11)** AU-A-2020249610
**(21)** 2020249610 **(22)** 27.03.2020
**(54)** Device, projector device and method for projecting a light beam onto a retina of a human eye
**(51)** Int. Cl.
***A61B 3/00*** ( 2006.01 )
**(87)** WO2020/193797
**(31)** PCT/ **(32)** 28.03.19 **(33)** EP
EP2019/057966
**(43)** 01.10.2020
**(72)** DETERRE, Martin; HORNIG, Ralf; SIMON, Emmanuel; ABHAMON, Eric
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Poriferous, LLC
**(11)** AU-A-2020209223
**(21)** 2020209223 **(22)** 16.01.2020
**(54)** Sizer, introducer and template device
**(51)** Int. Cl.
***A61F 2/28*** ( 2006.01 )
**(87)** WO2020/150485
**(31)** 62/793,225 **(32)** 16.01.19 **(33)** US
**(43)** 23.07.2020
**(72)** NOBLE, Aaron Matthew
**(74)** Griffith Hack

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**(71)** Primetals Technologies Austria GmbH
**(11)** AU-A-2020242905
**(21)** 2020242905 **(22)** 12.03.2020
**(54)** Method for direct reduction in a fluidized bed
**(51)** Int. Cl.
***C21B 13/00*** ( 2006.01 )
***F27B 15/08*** ( 2006.01 )
***F27B 15/09*** ( 2006.01 )
***F27B 15/10*** ( 2006.01 )
**(87)** WO2020/187672
**(31)** 19163059.9 **(32)** 15.03.19 **(33)** EP
**(43)** 24.09.2020
**(72)** REIN, Norbert; WURM, Johann; HIEBL, Bernhard; OFNER, Hanspeter; EISL, Roland
**(74)** Spruson & Ferguson

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**(71)** Procore Technologies, Inc.
**(11)** AU-A-2020221451
**(21)** 2020221451 **(22)** 05.02.2020
**(54)** Generating technical drawings from building information models

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

**(51)** Int. Cl.
***G06F 30/13*** ( 2020.01 )
***G06F 30/20*** ( 2020.01 )
***G06T 15/10*** ( 2011.01 )
***G06T 17/20*** ( 2006.01 )
**(87)** WO2020/167562
**(31)** 16/277,406 **(32)** 15.02.19 **(33)** US
16/277,679 15.02.19 US
16/277,752 15.02.19 US
16/594,877 07.10.19 US
**(43)** 20.08.2020
**(72)** CHU, Winson; WU, Peter; MYERS, Christopher; BINDLOSS, Chris
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Promaxo, Inc.
**(11)** AU-A-2020223171
**(21)** 2020223171 **(22)** 14.02.2020
**(54)** Systems and methods for ultralow field relaxation dispersion
**(51)** Int. Cl.
***G01R 33/383*** ( 2006.01 )
***G01R 33/34*** ( 2006.01 )
***G01R 33/385*** ( 2006.01 )
***G01R 33/465*** ( 2006.01 )
***G01R 33/48*** ( 2006.01 )
**(87)** WO2020/168233
**(31)** 62/806,664 **(32)** 15.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** GOMES, Muller
**(74)** K&L Gates

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**(71)** Qingdao Haier Refrigerator Co., Ltd.; Haier Smart Home Co., Ltd.
**(11)** AU-A-2020226423
**(21)** 2020226423 **(22)** 11.02.2020
**(54)** Refrigerating and freezing apparatus
**(51)** Int. Cl.
***F25D 11/02*** ( 2006.01 )
***F25D 23/12*** ( 2006.01 )
***F25D 29/00*** ( 2006.01 )
**(87)** WO2020/168945
**(31)** 201920210472.8 **(32)** 19.02.19 **(33)** CN
**(43)** 27.08.2020
**(72)** WANG, Haijuan; LI, Peng; CAO, Dongqiang; MU, Sen
**(74)** Shelston IP Pty Ltd.

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**(71)** Quest Technical Sales and Marketing, Inc.
**(11)** AU-A-2020221785
**(21)** 2020221785 **(22)** 11.02.2020
**(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 )
**(87)** WO2020/167800
**(31)** 16/455,702 **(32)** 27.06.19 **(33)** US
62/804,700 12.02.19 US
**(43)** 20.08.2020
**(72)** LEIGHTON, John; BARANOWSKI, Robert
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Radius Pharmaceuticals, Inc.
**(11)** AU-A-2020223101
**(21)** 2020223101 **(22)** 11.02.2020
**(54)** Processes and compounds
**(51)** Int. Cl.
***C07C 213/02*** ( 2006.01 )
***C07C 213/08*** ( 2006.01 )
***C07C 217/84*** ( 2006.01 )
***C07C 231/12*** ( 2006.01 )
***C07C 233/25*** ( 2006.01 )
***C07C 237/20*** ( 2006.01 )
***C07F 5/04*** ( 2006.01 )
**(87)** WO2020/167855
**(31)** 62/804,391 **(32)** 12.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** MARKEY, Michael
**(74)** Spruson & Ferguson

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**(71)** RAI Strategic Holdings, Inc.
**(11)** AU-A-2020215848
**(21)** 2020215848 **(22)** 27.01.2020
**(54)** Susceptor arrangement for induction-heated aerosol delivery device
**(51)** Int. Cl.
***A24F 40/465*** ( 2020.01 )
***A24D 1/20*** ( 2020.01 )
***H05B 6/10*** ( 2006.01 )
**(87)** WO2020/157635
**(31)** 16/260,712 **(32)** 29.01.19 **(33)** US
**(43)** 06.08.2020
**(72)** SUR, Rajesh
**(74)** FB Rice Pty Ltd

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**(71)** Rajoo, S.
**(11)** AU-A-2020205588
**(21)** 2020205588 **(22)** 08.01.2020
**(54)** Cheque clearing system and method
**(51)** Int. Cl.
***G06Q 40/02*** ( 2012.01 )
***G06Q 20/02*** ( 2012.01 )
**(87)** WO2020/145813
**(31)** PI 2019000280 **(32)** 08.01.19 **(33)** MY
**(43)** 16.07.2020
**(72)** LECHIMANAN, Rajasuriya
**(74)** MOHAN MURALI KODIVEL

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**(71)** Ranpak Corp.
**(11)** AU-A-2020228015
**(21)** 2020228015 **(22)** 12.02.2020
**(54)** Forming assembly for a dunnage conversion machine, dunnage conversion machine and pre-perared sheet stock material
**(51)** Int. Cl.
***B31D 5/00*** ( 2017.01 )
**(87)** WO2020/176257
**(31)** 62/812,059 **(32)** 28.02.19 **(33)** US
**(43)** 03.09.2020
**(72)** CHEICH, Robert C.; WAGNER, Dennis J.; LEMMENS, Peter L.C.; PLUIJMEN, Rob A.H.
**(74)** KINGS PATENT & TRADE MARKS ATTORNEYS PTY LTD

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**(71)** Rapture Innovation Labs Private Limited
**(11)** AU-A-2020221690
**(21)** 2020221690 **(22)** 27.01.2020
**(54)** An headphone system
**(51)** Int. Cl.
***H04R 1/22*** ( 2006.01 )
***H04R 3/04*** ( 2006.01 )
**(87)** WO2020/165667
**(31)** 201941005439 **(32)** 12.02.19 **(33)** IN
**(43)** 20.08.2020
**(72)** KARKERA, Navajith Padmanabha; BIDDAPPA, Jagath; PREETHAM, Not Given
**(74)** Michael Buck IP

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**(71)** Razer (Asia-Pacific) Pte. Ltd.
**(11)** AU-A-2019428009
**(21)** 2019428009 **(22)** 04.02.2019
**(54)** Method and apparatus of using a computer touchpad or digitizer stylus pad as a mousepad
**(51)** Int. Cl.
***G06F 3/041*** ( 2006.01 )
***G06F 3/038*** ( 2013.01 )
***G06F 3/039*** ( 2013.01 )
**(87)** WO2020/162827
**(43)** 13.08.2020
**(72)** LIEN, Jian Yao; VIERNES, Rafael Raymund
**(74)** FB Rice Pty Ltd

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**(71)** Reckitt Benckiser Health Limited
**(11)** AU-A-2020220560
**(21)** 2020220560 **(22)** 11.02.2020
**(54)** Novel composition
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/70*** ( 2006.01 )
***A61K 31/00*** ( 2006.01 )
**(87)** WO2020/165578
**(31)** 1901876.1 **(32)** 11.02.19 **(33)** GB
1902257.3 19.02.19 GB
**(43)** 20.08.2020
**(72)** BROWN, Fraser William Hanson; HALL, Steven Scott; MIRFATTAHI, Rouzbeh; SON, Delphine Bérengère
**(74)** Madderns Pty Ltd

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**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-A-2020224136
**(21)** 2020224136 **(22)** 20.02.2020
**(54)** Methods of treating ocular cancer using anti-MET antibodies and bispecific antigen binding molecules that bind MET
**(51)** Int. Cl.
***A61P 35/00*** ( 2006.01 )
***A61K 31/537*** ( 2006.01 )
***A61K 47/68*** ( 2017.01 )
***A61P 27/02*** ( 2006.01 )
***C07K 16/28*** ( 2006.01 )
***C07K 16/30*** ( 2006.01 )
**(87)** WO2020/172475
**(31)** 62/808,839 **(32)** 21.02.19 **(33)** US
62/823,788 26.03.19 US
**(43)** 27.08.2020
**(72)** SCHWARTZ, Gary; SURRIGA, Oliver
**(74)** AJ PARK

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

**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-A-2020232683
**(21)** 2020232683 **(22)** 03.03.2020
**(54)** Human serum albumin in formulations
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/08*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***A61K 47/26*** ( 2006.01 )
***A61K 47/42*** ( 2017.01 )
**(87)** WO2020/180850
**(31)** 62/813,843 **(32)** 05.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** KIM, Dorothy; MARLOW, Michael
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-A-2020253531
**(21)** 2020253531 **(22)** 02.04.2020
**(54)** Methods for scarless introduction of targeted modifications into targeting vectors
**(51)** Int. Cl.
***C12N 15/10*** ( 2006.01 )
***C12N 15/64*** ( 2006.01 )
**(87)** WO2020/206134
**(31)** 62/829,327 **(32)** 04.04.19 **(33)** US
**(43)** 08.10.2020
**(72)** BRYDGES, Susannah; ROJAS, Jose F.; WARSHAW, Gregg S.; SIAO, Chia-Jen
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-A-2020253532
**(21)** 2020253532 **(22)** 02.04.2020
**(54)** Non-human animals comprising a humanized coagulation factor 12 locus
**(51)** Int. Cl.
***A01K 67/027*** ( 2006.01 )
***C07K 14/745*** ( 2006.01 )
**(87)** WO2020/206139
**(31)** 62/829,321 **(32)** 04.04.19 **(33)** US
**(43)** 08.10.2020
**(72)** TANG, Yajun; CHALOTHORN, Dan; MITNAUL, Lyndon; MORTON, Lori; ZAMOLODCHIKOV, Daria; ALESS-ANDRI-HABER, Nicole; MACDONALD, Lynn
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-A-2020256225
**(21)** 2020256225 **(22)** 02.04.2020
**(54)** Methods and compositions for insertion of antibody coding sequences into a safe harbor locus
**(51)** Int. Cl.
***A01K 67/027*** ( 2006.01 )
***C07K 16/10*** ( 2006.01 )
***C12N 15/90*** ( 2006.01 )
**(87)** WO2020/206162
**(31)** 62/828,518 **(32)** 03.04.19 **(33)** US
62/887,885 16.08.19 US
**(43)** 08.10.2020
**(72)** WANG, Cheng; HARTFORD, Suzanne; GONG, Guochun; KYRATSOUS, Christos; ZAMBROWICZ, Brian; YANCOPOULOS, George D.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Renata Medical, Inc.
**(11)** AU-A-2019431385
**(21)** 2019431385 **(22)** 17.06.2019
**(54)** Growth stent for congenital narrowings
**(51)** Int. Cl.
***A61F 2/844*** ( 2013.01 )
***A61F 2/90*** ( 2013.01 )
***A61F 2/95*** ( 2013.01 )
**(87)** WO2020/176122
**(31)** 62/811,875 **(32)** 28.02.19 **(33)** US
16/441,201 14.06.19 US
**(43)** 03.09.2020
**(72)** ARMER, Dustin; ABBOTT, Eason
**(74)** Zone Patents Limited

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**(71)** Repligen Corporation
**(11)** AU-A-2020206028
**(21)** 2020206028 **(22)** 10.01.2020
**(54)** Hollow fiber filtration systems and methods
**(51)** Int. Cl.
***B01D 29/11*** ( 2006.01 )
***B01D 35/26*** ( 2006.01 )
***B01D 37/04*** ( 2006.01 )
***B01D 61/20*** ( 2006.01 )
***C12M 1/00*** ( 2006.01 )
***C12M 1/36*** ( 2006.01 )
***F04B 23/04*** ( 2006.01 )
***F04B 43/00*** ( 2006.01 )
***F04B 43/02*** ( 2006.01 )
***F04B 49/20*** ( 2006.01 )
**(87)** WO2020/146734
**(31)** 62/790,808 **(32)** 10.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** PAVLIK, Rudolf
**(74)** Spruson & Ferguson

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**(71)** ResMed Pty Ltd
**(11)** AU-A-2020222309
**(21)** 2020222309 **(22)** 11.02.2020
**(54)** Textile seal with air-assisted biasing portion
**(51)** Int. Cl.
***A61M 16/06*** ( 2006.01 )
**(87)** WO2020/165761
**(31)** PCT/IB2019/058832 **(32)** 16.10.19 **(33)** IB
62/805,147 13.02.19 US
2019900644 28.02.19 AU
**(43)** 20.08.2020
**(72)** GUNEY, Memduh; SCHEINER, Rupert Christian; ENGSTROM, Hans Christer Henric; BATE, Andrew James
**(74)** Halfords IP

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**(71)** ResMed Pty Ltd
**(11)** AU-A-2020225914
**(21)** 2020225914 **(22)** 21.02.2020
**(54)** Textile vent assembly
**(51)** Int. Cl.
***A61M 16/06*** ( 2006.01 )
***A61M 16/20*** ( 2006.01 )
**(87)** WO2020/170207
**(31)** 62/808,901 **(32)** 22.02.19 **(33)** US
62/880,338 30.07.19 US
**(43)** 27.08.2020
**(72)** DANTANARAYANA, Muditha Pradeep; GUNEY, Memduh
**(74)** Halfords IP

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**(71)** S.A. Reverté Productos Minerales
**(11)** AU-A-2019420812
**(21)** 2019420812 **(22)** 30.12.2019
**(54)** Permanent eco-fertilizer against fruit physiological disorders and pests
**(51)** Int. Cl.
***A01N 59/06*** ( 2006.01 )
***A01N 25/00*** ( 2006.01 )
***A01N 25/04*** ( 2006.01 )
***A01P 7/04*** ( 2006.01 )
***A01P 19/00*** ( 2006.01 )
***C05B 1/00*** ( 2006.01 )
***C05D 3/02*** ( 2006.01 )
**(87)** WO2020/144076
**(31)** 19382016.4 **(32)** 11.01.19 **(33)** EP
**(43)** 16.07.2020
**(72)** PRIETO GIGÓ, Arcadio
**(74)** Griffith Hack

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**(71)** Saietta Group PLC
**(11)** AU-A-2020213960
**(21)** 2020213960 **(22)** 29.01.2020
**(54)** Axial flux electrical machine
**(51)** Int. Cl.
***H02K 21/24*** ( 2006.01 )
***H02K 1/18*** ( 2006.01 )
***H02K 3/04*** ( 2006.01 )
***H02K 3/47*** ( 2006.01 )
***H02K 5/04*** ( 2006.01 )
*H02K 1/27* ( 2006.01 )
**(87)** WO2020/157501
**(31)** 1901195.6 **(32)** 29.01.19 **(33)** GB
**(43)** 06.08.2020
**(72)** LINES, Christopher Roger
**(74)** Madderns Pty Ltd

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**(71)** Saietta Group PLC
**(11)** AU-A-2020215311
**(21)** 2020215311 **(22)** 29.01.2020
**(54)** Axial flux electrical machine
**(51)** Int. Cl.
***H02K 21/24*** ( 2006.01 )
***H02K 1/18*** ( 2006.01 )
***H02K 3/04*** ( 2006.01 )
***H02K 3/47*** ( 2006.01 )
***H02K 5/04*** ( 2006.01 )
*H02K 1/27* ( 2006.01 )
**(87)** WO2020/157503
**(31)** 1901192.3 **(32)** 29.01.19 **(33)** GB
**(43)** 06.08.2020
**(72)** LINES, Christopher Roger
**(74)** Madderns Pty Ltd

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**(71)** Saietta Group PLC
**(11)** AU-A-2020215829
**(21)** 2020215829 **(22)** 29.01.2020
**(54)** Axial flux electrical machine and ancillary components
**(51)** Int. Cl.
***H02K 1/12*** ( 2006.01 )

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

***H02K 1/18*** ( 2006.01 )
***H02K 3/04*** ( 2006.01 )
***H02K 3/46*** ( 2006.01 )
***H02K 21/24*** ( 2006.01 )
**(87)** WO2020/157500
**(31)** 1901209.5 **(32)** 29.01.19 **(33)** GB
**(43)** 06.08.2020
**(72)** LINES, Christopher Roger; SHORE, Samuel Andrew Joshua; TOMS, Benjamin Charles; FRASER, Mark Peter
**(74)** Madderns Pty Ltd

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**(71)** Salts Healthcare Limited
**(11)** AU-A-2020228757
**(21)** 2020228757 **(22)** 21.02.2020
**(54)** A valve for a urostomy appliance
**(51)** Int. Cl.
***A61F 5/445*** ( 2006.01 )
**(87)** WO2020/174218
**(31)** 1902746.5 **(32)** 28.02.19 **(33)** GB
**(43)** 03.09.2020
**(72)** ALLEN, Marcus
**(74)** Griffith Hack

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**(71)** Salts Healthcare Limited
**(11)** AU-A-2020229012
**(21)** 2020229012 **(22)** 21.02.2020
**(54)** A valve for a urostomy appliance
**(51)** Int. Cl.
***A61F 5/44*** ( 2006.01 )
**(87)** WO2020/174219
**(31)** 1902745.7 **(32)** 28.02.19 **(33)** GB
**(43)** 03.09.2020
**(72)** ALLEN, Marcus
**(74)** Griffith Hack

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**(71)** Sangle-Ferriere, B.
**(11)** AU-A-2020225314
**(21)** 2020225314 **(22)** 17.02.2020
**(54)** Cryptographic data verification method
**(51)** Int. Cl.
***G06F 21/44*** ( 2013.01 )
***G06F 21/64*** ( 2013.01 )
***H04L 9/06*** ( 2006.01 )
***H04L 9/08*** ( 2006.01 )
***H04L 9/32*** ( 2006.01 )
***H04L 29/06*** ( 2006.01 )
**(87)** WO2020/169542
**(31)** FR1901648 **(32)** 19.02.19 **(33)** FR
**(43)** 27.08.2020
**(72)** SANGLE-FERRIERE, Bruno
**(74)** AJ PARK

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**(71)** Sasol Chemicals GmbH
**(11)** AU-A-2020225665
**(21)** 2020225665 **(22)** 18.02.2020
**(54)** Injection fluids comprising alkoxylated alcohols and the use of such fluids in oil recovery processes
**(51)** Int. Cl.
***C09K 8/584*** ( 2006.01 )
***C09K 8/594*** ( 2006.01 )
***E21B 43/16*** ( 2006.01 )
**(87)** WO2020/169618
**(31)** 19158014.1 **(32)** 19.02.19 **(33)** EP
**(43)** 27.08.2020
**(72)** ROMMERSKIRCHEN, Renke; SOTTMANN, Thomas; BILGILI, Harun; FISCHER, Julian
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Schatz, R.; Riegler, S.; Kaltenbrunner, E.; Riegler, M.
**(11)** AU-A-2020228670
**(21)** 2020228670 **(22)** 14.02.2020
**(54)** Holding device for using gymnastic equipment
**(51)** Int. Cl.
***A63B 21/00*** ( 2006.01 )
***A63B 21/06*** ( 2006.01 )
***A63B 21/072*** ( 2006.01 )
***A63B 21/075*** ( 2006.01 )
***A63B 23/035*** ( 2006.01 )
***A63B 23/12*** ( 2006.01 )
**(87)** WO2020/172695
**(31)** A 73/2019 **(32)** 27.02.19 **(33)** AT
A 240/2019 01.07.19 AT
**(43)** 03.09.2020
**(72)** SCHATZ, Ralph; RIEGLER, Stefan; KALTENBRUNNER, Eric; RIEGLER, Matthias
**(74)** Shelston IP Pty Ltd.

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**(71)** Schlapik, K.D.
**(11)** AU-A-2020206268
**(21)** 2020206268 **(22)** 10.01.2020
**(54)** Illuminated levitating wand
**(51)** Int. Cl.
***A45B 3/04*** ( 2006.01 )
***A63H 33/26*** ( 2006.01 )
***A63J 21/00*** ( 2006.01 )
***F21L 4/00*** ( 2006.01 )
**(87)** WO2020/146824
**(31)** 62/791,580 **(32)** 11.01.19 **(33)** US
62/928,273 30.10.19 US
**(43)** 16.07.2020
**(72)** SCHLAPIK, Kevin D.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** SES-imagotag GmbH
**(11)** AU-A-2019419905
**(21)** 2019419905 **(22)** 12.01.2019
**(54)** Electronic shelf label and shelf illumination devices
**(51)** Int. Cl.
***G06F 3/147*** ( 2006.01 )
***A47F 11/10*** ( 2006.01 )
***G09F 3/20*** ( 2006.01 )
***G09G 3/20*** ( 2006.01 )
**(87)** WO2020/143923
**(43)** 16.07.2020
**(72)** OOSTHOEK, Jan; JAUCK, Philipp
**(74)** Collison & Co

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**(71)** SES-imagotag GmbH
**(11)** AU-A-2019420313
**(21)** 2019420313 **(22)** 12.01.2019
**(54)** Electronic shelf label with interaction interface
**(51)** Int. Cl.
***G06F 3/0354*** ( 2013.01 )
***G09F 3/20*** ( 2006.01 )
***G09G 3/20*** ( 2006.01 )
**(87)** WO2020/143925
**(43)** 16.07.2020
**(72)** OOSTHOEK, Jan
**(74)** Collison & Co

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**(71)** SES-imagotag GmbH
**(11)** AU-A-2019421719
**(21)** 2019421719 **(22)** 12.01.2019
**(54)** Retail shelf floor divider
**(51)** Int. Cl.
***A47B 96/04*** ( 2006.01 )
***A47F 5/00*** ( 2006.01 )
***G06Q 30/02*** ( 2012.01 )
***G09F 3/20*** ( 2006.01 )
*A47F 10/02* ( 2006.01 )
**(87)** WO2020/143924
**(43)** 16.07.2020
**(72)** OOSTHOEK, Jan; JAUCK, Philipp
**(74)** Collison & Co

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**(71)** SharkNinja Operating LLC
**(11)** AU-A-2020219083
**(21)** 2020219083 **(22)** 07.02.2020
**(54)** Cooking device with wet cooking mode
**(51)** Int. Cl.
***A47J 37/06*** ( 2006.01 )
***F24C 15/32*** ( 2006.01 )
**(87)** WO2020/163710
**(31)** 62/803,336 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** ANTHONY, Joshua D.; MARTIN, Christopher; WOODROW, Chad
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Sharp Kabushiki Kaisha; FG Innovation Company Limited
**(11)** AU-A-2020205855
**(21)** 2020205855 **(22)** 07.01.2020
**(54)** User equipment and base stations that achieve mini-slot-based repetitions
**(51)** Int. Cl.
***H04W 72/04*** ( 2009.01 )
***H04W 72/12*** ( 2009.01 )
**(87)** WO2020/145271
**(31)** 62/790,936 **(32)** 10.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** YING, Kai; AIBA, Tatsushi; YOKOMAKURA, Kazunari; KOWALSKI, John Michael
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Shenzhen Hive Box Technology Co., Ltd
**(11)** AU-A-2019422590
**(21)** 2019422590 **(22)** 19.06.2019
**(54)** Pickup reminding method, device and equipment, and storage medium
**(51)** Int. Cl.
***G06Q 10/04*** ( 2012.01 )
**(87)** WO2020/147261
**(31)** 201910036046.1 **(32)** 15.01.19 **(33)** CN
**(43)** 23.07.2020
**(72)** LI, Wenqing; MA, Haiyan
**(74)** FB Rice Pty Ltd

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

**(71)** SICPA Holding SA
**(11)** AU-A-2019422692
**(21)** 2019422692 **(22)** 27.12.2019
**(54)** Process for producing optical effect layers
**(51)** Int. Cl.
***B05D 5/06*** ( 2006.01 )
***B05D 3/00*** ( 2006.01 )
***B05D 3/06*** ( 2006.01 )
**(87)** WO2020/148076
**(31)** 19151899.2 **(32)** 15.01.19 **(33)** EP
**(43)** 23.07.2020
**(72)** LOGINOV, Evgeny; SCHMID, Mathieu; MUELLER, Edgar; DESPLAND, Claude-Alain
**(74)** Shelston IP Pty Ltd.

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**(71)** Simpson Strong-Tie Company Inc.
**(11)** AU-A-2020206799
**(21)** 2020206799 **(22)** 13.01.2020
**(54)** Ledger connector
**(51)** Int. Cl.
***E04B 1/00*** ( 2006.01 )
***F16B 37/02*** ( 2006.01 )
***F16B 43/00*** ( 2006.01 )
***F16B 43/02*** ( 2006.01 )
*E04B 1/26* ( 2006.01 )
*E04B 5/12* ( 2006.01 )
**(87)** WO2020/146900
**(31)** 62/791,875 **(32)** 13.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** HOLLAND, Rachel Marie; MURPHY, Thomas Lee; STAUFFER, Timothy M; ANG, Benedict
**(74)** Spruson & Ferguson

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**(71)** Simpson Strong-Tie Company Inc.
**(11)** AU-A-2020209750
**(21)** 2020209750 **(22)** 14.01.2020
**(54)** Reinforced hinge connector
**(51)** Int. Cl.
***E04B 1/26*** ( 2006.01 )
**(87)** WO2020/150281
**(31)** 62/791,891 **(32)** 14.01.19 **(33)** US
**(43)** 23.07.2020
**(72)** EVANS, Thomas G.; MUHN, Dustin P.; STAUFFER, Timothy M.; HOLLAND, Rachel Marie
**(74)** Spruson & Ferguson

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**(71)** Singapore Health Services Pte. Ltd.; National University of Singapore
**(11)** AU-A-2020211695
**(21)** 2020211695 **(22)** 21.01.2020
**(54)** Treatment of hepatotoxicity
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 31/167*** ( 2006.01 )
***A61P 1/16*** ( 2006.01 )
***A61P 39/02*** ( 2006.01 )
***G01N 33/53*** ( 2006.01 )
**(87)** WO2020/152122
**(31)** 1900811.9 **(32)** 21.01.19 **(33)** GB
1907839.3 03.06.19 GB
1915003.6 17.10.19 GB
**(43)** 30.07.2020
**(72)** COOK, Stuart Alexander; SCHAEFER, Sebastian; WIDJAJA, Anissa Anindya
**(74)** FB Rice Pty Ltd

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**(71)** Six Minutes LLC
**(11)** AU-A-2020206671
**(21)** 2020206671 **(22)** 03.01.2020
**(54)** Cross-laminated timber having a conduit therein
**(51)** Int. Cl.
***E04C 2/52*** ( 2006.01 )
***B32B 3/10*** ( 2006.01 )
***B32B 21/13*** ( 2006.01 )
***B32B 21/14*** ( 2006.01 )
***E04C 2/12*** ( 2006.01 )
**(87)** WO2020/146210
**(31)** 16/243,711 **(32)** 09.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** KUHN, Tyler Valentine; BRADLEY, Michael Ryan
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Smartbubble LTD.
**(11)** AU-A-2020228342
**(21)** 2020228342 **(22)** 26.02.2020
**(54)** Satiety inducing food products and preparation thereof
**(51)** Int. Cl.
***A23L 29/256*** ( 2016.01 )
***A23L 21/12*** ( 2016.01 )
***A23L 33/00*** ( 2016.01 )
***A23P 20/10*** ( 2016.01 )
***A23P 20/20*** ( 2016.01 )
**(87)** WO2020/174469
**(31)** 62/811,690 **(32)** 28.02.19 **(33)** US
**(43)** 03.09.2020
**(72)** GOLAN, Alon; ETZIONI, Adi; EDELHEIT, Oded
**(74)** Pipers Intellectual Property

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**(71)** SmartKable LLC
**(11)** AU-A-2020207202
**(21)** 2020207202 **(22)** 06.01.2020
**(54)** An apparatus and method for monitoring a circuit under load using a circuit breaker
**(51)** Int. Cl.
***H02H 3/02*** ( 2006.01 )
***G01R 25/00*** ( 2006.01 )
***G01R 27/00*** ( 2006.01 )
***G05B 23/02*** ( 2006.01 )
**(87)** WO2020/146227
**(31)** 62/789,055 **(32)** 07.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** HIRSH, Douglas S.; HRINDA, Radovan
**(74)** Sandercock & Cowie

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**(71)** Société des Produits Nestlé S.A.
**(11)** AU-A-2020230410
**(21)** 2020230410 **(22)** 05.03.2020
**(54)** A nutritional composition for use to enhance executive function
**(51)** Int. Cl.
***A61K 31/702*** ( 2006.01 )
***A61P 25/00*** ( 2006.01 )
**(87)** WO2020/178362
**(31)** 19160876.9 **(32)** 05.03.19 **(33)** EP
19161023.7 06.03.19 EP
19214414.5 09.12.19 EP
**(43)** 10.09.2020
**(72)** HAUSER, Jonas; SCHNEIDER, Nora
**(74)** Shelston IP Pty Ltd.

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**(71)** Sonnen GmbH
**(11)** AU-A-2020208718
**(21)** 2020208718 **(22)** 15.01.2020
**(54)** Computer program product for reading status data of electrical power units, method for providing control power and/or for optimizing own consumption and electrical energy store
**(51)** Int. Cl.
***H04L 12/26*** ( 2006.01 )
***H04L 12/24*** ( 2006.01 )
***H04L 12/28*** ( 2006.01 )
***H04L 29/08*** ( 2006.01 )
**(87)** WO2020/147892
**(31)** 10 2019 101 082.9 **(32)** 16.01.19 **(33)** DE
**(43)** 23.07.2020
**(72)** KIMPEL, Tim
**(74)** Halfords IP

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**(71)** Sound Genetics, Inc.
**(11)** AU-A-2020210905
**(21)** 2020210905 **(22)** 22.01.2020
**(54)** Systems and methods for pre-filtering audio content based on prominence of frequency content
**(51)** Int. Cl.
***G06F 3/16*** ( 2006.01 )
***G10L 19/02*** ( 2013.01 )
***G10L 19/032*** ( 2013.01 )
***G10L 19/06*** ( 2013.01 )
***G10L 19/20*** ( 2013.01 )
***G10L 19/26*** ( 2013.01 )
**(87)** WO2020/154367
**(31)** 62/795,675 **(32)** 23.01.19 **(33)** US
**(43)** 30.07.2020
**(72)** ALMOJARKESH, Anwar; KENNEDY, Rick; GERARD, Doyle
**(74)** FB Rice Pty Ltd

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**(71)** South China Sea Institute of Oceanology, Chinese Academy of Sciences
**(11)** AU-A-2020331564
**(21)** 2020331564 **(22)** 03.11.2020
**(54)** An environment-friendly composite basalt fiber reef base grid suitable for restoration of coral reef substrates and restoration method
**(51)** Int. Cl.
***A01K 61/00*** ( 2017.01 )
**(31)** 202010096619.2 **(32)** 17.02.20 **(33)** CN
**(43)** 02.09.2021
**(72)** YUAN, Tao; YUAN, Xiangcheng; HUANG, Hui
**(74)** Madderns Pty Ltd

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**(71)** Sports Data Labs, Inc.
**(11)** AU-A-2020223038
**(21)** 2020223038 **(22)** 13.02.2020
**(54)** Biological data tracking system and method
**(51)** Int. Cl.
***A61B 5/11*** ( 2006.01 )
***A61B 5/0245*** ( 2006.01 )

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

***G16H 20/30*** ( 2018.01 )
**(87)** WO2020/168045
**(31)** 16/274,701 **(32)** 13.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** KHARE, Vivek; MIMOTO, Stan; GORSKI, Mark
**(74)** Shelston IP Pty Ltd

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**(71)** ST Engineering Innosparks Pte Ltd.
**(11)** AU-A-2019445279
**(21)** 2019445279 **(22)** 19.12.2019
**(54)** Multi-unit evaporative cooling system for stratified thermal air conditioning
**(51)** Int. Cl.
***F24F 11/70*** ( 2018.01 )
***F24F 5/00*** ( 2006.01 )
**(87)** WO2020/209790
**(31)** PCT/ **(32)** 11.04.19 **(33)** SG
SG2019/050203
**(43)** 15.10.2020
**(72)** TANG, Ee Ho Gareth; LI, Fuyun; ANG, Tze Wei Timothy; YAP, Lok Lee Hillary
**(74)** Madderns Pty Ltd

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**(71)** St-Georges Eco-Mining Corp.
**(11)** AU-A-2020209369
**(21)** 2020209369 **(22)** 20.01.2020
**(54)** Method of mineral recovery
**(51)** Int. Cl.
***C22B 3/06*** ( 2006.01 )
***C01D 15/00*** ( 2006.01 )
***C22B 3/08*** ( 2006.01 )
***C22B 3/22*** ( 2006.01 )
***C22B 26/12*** ( 2006.01 )
***H01M 10/54*** ( 2006.01 )
**(87)** WO2020/146956
**(31)** 62/794,414 **(32)** 18.01.19 **(33)** US
**(43)** 23.07.2020
**(72)** DI CESARE, Enrico
**(74)** AJ PARK

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**(71)** Strong Force IoT Portfolio 2016, LLC.
**(11)** AU-A-2019420582
**(21)** 2019420582 **(22)** 31.10.2019
**(54)** Methods, systems, kits and apparatuses for monitoring and managing industrial settings
**(51)** Int. Cl.
***H04L 29/08*** ( 2006.01 )
***G05B 23/02*** ( 2006.01 )
**(87)** WO2020/146036
**(31)** 62/869,011 **(32)** 30.06.19 **(33)** US
62/914,998 14.10.19 US
62/791,878 13.01.19 US
62/827,166 31.03.19 US
**(43)** 16.07.2020
**(72)** CELLA, Charles; EL-TAHRY, Teymour; SPITZ, Richard; MCGUCKIN, Jeffrey P.; DUFFY JR., Gerald William
**(74)** Ellis Terry

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**(71)** Sumitomo Electric Industries, Ltd.
**(11)** AU-A-2020227967
**(21)** 2020227967 **(22)** 20.02.2020
**(54)** Redox flow battery
**(51)** Int. Cl.
***H01M 8/04*** ( 2016.01 )
***H01M 8/18*** ( 2006.01 )
**(87)** WO2020/175340
**(31)** 2019-035027 **(32)** 27.02.19 **(33)** JP
**(43)** 03.09.2020
**(72)** TATSUMI, Ryouta; KAKU, Hirokazu; IKEUCHI, Atsuo
**(74)** Spruson & Ferguson

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**(71)** Sunrise Resort, Inc.
**(11)** AU-A-2020356804
**(21)** 2020356804 **(22)** 13.02.2020
**(54)** Golf-shot-tracking-self-driving-path central controlling system
**(51)** Int. Cl.
***A63B 69/00*** ( 2006.01 )
***A63B 24/00*** ( 2006.01 )
**(43)** 02.09.2021
**(72)** HSU, Yuh-Rong
**(74)** LESICAR MAYNARD ANDREWS PTY LTD

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**(71)** SWIMC LLC
**(11)** AU-A-2020232188
**(21)** 2020232188 **(22)** 26.02.2020
**(54)** Coating material container
**(51)** Int. Cl.
***B44D 3/14*** ( 2006.01 )
***B65D 25/28*** ( 2006.01 )
***B65D 25/32*** ( 2006.01 )
**(87)** WO2020/180556
**(31)** 62/812,418 **(32)** 01.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** LAMBERTSON Jr., Michael C.; ROBERTSON, Joshua R.
**(74)** Spruson & Ferguson

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**(71)** Syngenta Crop Protection AG
**(11)** AU-A-2020228277
**(21)** 2020228277 **(22)** 24.02.2020
**(54)** Compositions and methods for driving T1 event diversity
**(51)** Int. Cl.
***A01H 1/04*** ( 2006.01 )
***A01H 1/08*** ( 2006.01 )
***A01H 5/10*** ( 2018.01 )
***C12N 9/18*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
***C12Q 1/68*** ( 2018.01 )
***C12Q 1/6895*** ( 2018.01 )
**(87)** WO2020/176412
**(31)** PCT/ **(32)** 25.02.19 **(33)** CN
CN2019/076062
**(43)** 03.09.2020
**(72)** KELLIHER, Timothy; GREEN, Julie; CHEN, Zhongying; SHI, Wan; TANG, Guozhu; LI, Jiang; SCORGIE, Emily
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Syngenta Crop Protection AG
**(11)** AU-A-2020230897
**(21)** 2020230897 **(22)** 26.02.2020
**(54)** Suppression of target gene expression through genome editing of native miRNAs
**(51)** Int. Cl.
***C12N 15/10*** ( 2006.01 )
***C12N 15/63*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(87)** WO2020/178099
**(31)** PCT/ **(32)** 01.03.19 **(33)** CN
CN2019/076722
**(43)** 10.09.2020
**(72)** LIU, Juntao; XU, Jianping; CHEN, Yanhui; LIU, Zhiqiang; CHEN, Xi
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Tanvex BioPharma USA, Inc.
**(11)** AU-A-2020219799
**(21)** 2020219799 **(22)** 07.02.2020
**(54)** Data extraction for biopharmaceutical analysis
**(51)** Int. Cl.
***G01N 33/68*** ( 2006.01 )
***A61K 38/00*** ( 2006.01 )
***B01D 59/44*** ( 2006.01 )
***G01N 30/06*** ( 2006.01 )
**(87)** WO2020/163675
**(31)** 62/803,339 **(32)** 08.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** TSE, Kevin Yuen Fung
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Tempus Labs, Inc.
**(11)** AU-A-2020221845
**(21)** 2020221845 **(22)** 12.02.2020
**(54)** An integrated machine-learning framework to estimate homologous recombination deficiency
**(51)** Int. Cl.
***C12Q 1/68*** ( 2018.01 )
**(87)** WO2020/168008
**(31)** 62/946,347 **(32)** 10.12.19 **(33)** US
62/804,730 12.02.19 US
**(43)** 20.08.2020
**(72)** VENKAT, Aarti; PARSONS, Jerod; BELL, Joshua SK; IGARTUA, Catherine; ZHANG, Yilin; SALAHUDEEN, Ameen; SÁNCHEZ FREIRE, Verónica; TELL, Robert
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Tesla, Inc.
**(11)** AU-A-2020221897
**(21)** 2020221897 **(22)** 07.02.2020
**(54)** Autonomous and user controlled vehicle summon to a target
**(51)** Int. Cl.
***G01C 21/00*** ( 2006.01 )
***B62D 15/02*** ( 2006.01 )
***G01C 21/20*** ( 2006.01 )
***G01C 21/34*** ( 2006.01 )
**(87)** WO2020/167613
**(31)** 16/272,273 **(32)** 11.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** MUSK, Elon; PARK, Kate; UZUNOVIC, Nenad; MOORE, Christopher Coleman; HAVLAK, Francis; BOWERS, Stuart; KARPATHY, Andrej; RAMANANDAN, Arvind; SUD, Ashima Kapur; CHEN, Paul; JAIN, Paril; HERTZBERG, Alexander; KONG, Jason; WANG, Li; ARSLAN, Oktay; GUSTAFSSON, Nicklas; SHIEH, Charles; SEELIG, David
**(74)** Spruson & Ferguson

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

**(71)** Tesla, Inc.
**(11)** AU-A-2020224581
**(21)** 2020224581 **(22)** 07.02.2020
**(54)** Estimating object properties using visual image data
**(51)** Int. Cl.
***G06K 9/00*** ( 2006.01 )
***G06K 9/62*** ( 2006.01 )
**(87)** WO2020/171983
**(31)** 16/279,657 **(32)** 19.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** MUSK, James Anthony; SAHAI, Swupnil Kumar; ELLUSWAMY, Ashok Kumar
**(74)** Spruson & Ferguson

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**(71)** The Coca-Cola Company
**(11)** AU-A-2020219829
**(21)** 2020219829 **(22)** 04.02.2020
**(54)** Beverage dispensing systems with limited time offering circuits
**(51)** Int. Cl.
***B67D 7/74*** ( 2010.01 )
***B67D 1/00*** ( 2006.01 )
***B67D 1/07*** ( 2006.01 )
***B67D 1/08*** ( 2006.01 )
***B67D 1/12*** ( 2006.01 )
***F16K 31/06*** ( 2006.01 )
**(87)** WO2020/163281
**(31)** 62/801,838 **(32)** 06.02.19 **(33)** US
62/883,956 07.08.19 US
**(43)** 13.08.2020
**(72)** TRAN, Son Van; MCDOUGALL, Douglas J.; MAY, Patrick
**(74)** FB Rice Pty Ltd

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**(71)** The Gillette Company LLC
**(11)** AU-A-2020253797
**(21)** 2020253797 **(22)** 25.03.2020
**(54)** Head for an oral care implement and oral care implement
**(51)** Int. Cl.
***A46B 9/04*** ( 2006.01 )
***A46D 1/00*** ( 2006.01 )
***A46D 1/08*** ( 2006.01 )
**(87)** WO2020/205351
**(31)** 19166091.9 **(32)** 29.03.19 **(33)** EP
**(43)** 08.10.2020
**(72)** JUNGNICKEL, Uwe
**(74)** AJ PARK

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**(71)** The Heil Co.
**(11)** AU-A-2020219848
**(21)** 2020219848 **(22)** 04.02.2020
**(54)** Semi-autonomous refuse collection
**(51)** Int. Cl.
***B65F 3/04*** ( 2006.01 )
***B65F 3/02*** ( 2006.01 )
**(87)** WO2020/163383
**(31)** 62/800,985 **(32)** 04.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** MARONEY, Stanley L.; LEWIS, David G.; WILLIAMS, Robert B.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** The National Institutes of Pharmaceutical R&D Co., Ltd.
**(11)** AU-A-2020214889
**(21)** 2020214889 **(22)** 17.01.2020
**(54)** Aromatic ring or heteroaromatic ring compounds, preparation method therefor and medical use thereof
**(51)** Int. Cl.
***C07D 417/14*** ( 2006.01 )
***A61K 31/46*** ( 2006.01 )
***A61P 3/00*** ( 2006.01 )
***C07D 451/06*** ( 2006.01 )
***C07D 471/04*** ( 2006.01 )
**(87)** WO2020/156241
**(31)** 201910096771.8 **(32)** 31.01.19 **(33)** CN
**(43)** 06.08.2020
**(72)** YIN, Huijun; YAN, Xu; ZONG, Libin; SHI, Jianxin; LIU, Chunyan; ZHANG, Shouliang; LU, Jiawei; LI, Hao
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Theracell, Inc.
**(11)** AU-A-2020219377
**(21)** 2020219377 **(22)** 07.02.2020
**(54)** Demineralized bone fiber implant compositions and methods for augmenting fixation in bone repair
**(51)** Int. Cl.
***A61F 2/28*** ( 2006.01 )
***A61B 17/68*** ( 2006.01 )
**(87)** WO2020/163828
**(31)** 62/803,470 **(32)** 09.02.19 **(33)** US
62/901,935 18.09.19 US
**(43)** 13.08.2020
**(72)** CARTER, Andrew J.; PATT, Bradley E.; ANDERSSON, Gunnar; MCRURY, Ian; VERMA, Nikhil; SCARBOROUGH, Nelson L.
**(74)** PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD

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**(71)** The Regents of the University of California; ShangPharma Innovation Inc.
**(11)** AU-A-2020226633
**(21)** 2020226633 **(22)** 19.02.2020
**(54)** Nurr1 receptor modulators
**(51)** Int. Cl.
***A61K 31/015*** ( 2006.01 )
***A61P 25/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07C 15/04*** ( 2006.01 )
**(87)** WO2020/172324
**(31)** 62/807,642 **(32)** 19.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** ENGLAND, Pamela M.; JACOBSON, Matthew P.; BERESIS, Richard
**(74)** RnB IP

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**(71)** The Regents of The University of California
**(11)** AU-A-2020245603
**(21)** 2020245603 **(22)** 27.03.2020
**(54)** Concurrent analysis of multiple analytes
**(51)** Int. Cl.
***G01N 21/93*** ( 2006.01 )
***G01N 27/62*** ( 2006.01 )
***G01N 30/02*** ( 2006.01 )
***G01N 30/72*** ( 2006.01 )
***G01N 33/50*** ( 2006.01 )
***H01J 49/00*** ( 2006.01 )
**(87)** WO2020/198688
**(31)** 62/825,610 **(32)** 28.03.19 **(33)** US
**(43)** 01.10.2020
**(72)** QUACH, Austin; FAULL, Kym Francis
**(74)** Spruson & Ferguson

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**(71)** The Regents of the University of Michigan; University of California, San Diego; Tuszynski, M.; Sakamoto, J.; Pawelec, K.; Koffler, Y.; Sailor, M.; Zuidema, J.
**(11)** AU-A-2020206777
**(21)** 2020206777 **(22)** 09.01.2020
**(54)** Porous material with microscale features
**(51)** Int. Cl.
***A61L 27/56*** ( 2006.01 )
***B29C 59/02*** ( 2006.01 )
***C08J 5/18*** ( 2006.01 )
**(87)** WO2020/146658
**(31)** 62/790,178 **(32)** 09.01.19 **(33)** US
**(43)** 16.07.2020
**(72)** TUSZYNSKI, Mark H.; SAKAMOTO, Jeffrey S.; PAWELEC, Kendell M.; KOFFLER, Yacov M.; SAILOR, Michael; ZUIDEMA, Jonathan
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** ThermoLife International, LLC
**(11)** AU-A-2020215729
**(21)** 2020215729 **(22)** 31.01.2020
**(54)** Enhanced nitrate compositions and methods of use
**(51)** Int. Cl.
***A61K 33/00*** ( 2006.01 )
***A61K 33/06*** ( 2006.01 )
***A61K 33/08*** ( 2006.01 )
***A61K 33/26*** ( 2006.01 )
***A61K 33/30*** ( 2006.01 )
***A61P 9/12*** ( 2006.01 )
***A61P 21/00*** ( 2006.01 )
*A61K 31/18* ( 2006.01 )
*A61P 9/08* ( 2006.01 )
**(87)** WO2020/160509
**(31)** 16/779,349 **(32)** 31.01.20 **(33)** US
62/800,361 01.02.19 US
62/866,540 25.06.19 US
**(43)** 06.08.2020
**(72)** NIKOLAIDIS, Alexandros; KRAMER, Ronald
**(74)** Southern Cross Intellectual Property

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**(71)** The Texas A&M University System
**(11)** AU-A-2020221054
**(21)** 2020221054 **(22)** 10.02.2020
**(54)** Anti-fibrotic NEU3 inhibitor compounds and methods of use
**(51)** Int. Cl.
***C07D 213/79*** ( 2006.01 )
***C07D 213/81*** ( 2006.01 )
**(87)** WO2020/167663
**(31)** 62/804,262 **(32)** 12.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** GOMER, Richard H.; MEEK, Thomas; KARHADKAR, Tejas; PILLING, Darrell
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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

**(71)** The Texas A&M University System
**(11)** AU-A-2020223282
**(21)** 2020223282 **(22)** 17.02.2020
**(54)** Methods and compositions for altering teeth
**(51)** Int. Cl.
***A61D 11/00*** ( 2006.01 )
***A01K 15/02*** ( 2006.01 )
***A61K 6/00*** ( 2020.01 )
***A61Q 11/02*** ( 2006.01 )
**(87)** WO2020/168329
**(31)** 62/806,488 **(32)** 15.02.19 **(33)** US
62/966,691 28.01.20 US
**(43)** 20.08.2020
**(72)** CHEN, Yan; SIMON, Bradley; OPPERMAN, Lynne; LIANG, Hong
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Titeline Services Pty Ltd
**(11)** AU-A-2020224694
**(21)** 2020224694 **(22)** 18.02.2020
**(54)** System and method for handling drill rods
**(51)** Int. Cl.
***E21B 19/20*** ( 2006.01 )
***E21B 19/14*** ( 2006.01 )
**(87)** WO2020/168377
**(31)** 2019900528 **(32)** 19.02.19 **(33)** AU
**(43)** 27.08.2020
**(72)** WYTHES, Gregory Kenneth; BRIGGS, Grant; ARNOLD, Aaron
**(74)** HopgoodGanim

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**(71)** TLV Co., Ltd.
**(11)** AU-A-2019427682
**(21)** 2019427682 **(22)** 24.10.2019
**(54)** Monitoring system, monitoring method, and monitoring program for steam-using equipment
**(51)** Int. Cl.
***F01D 25/00*** ( 2006.01 )
***F01D 25/32*** ( 2006.01 )
***F16T 1/48*** ( 2006.01 )
***G05B 23/02*** ( 2006.01 )
**(87)** WO2020/158072
**(31)** 2019-016298 **(32)** 31.01.19 **(33)** JP
**(43)** 06.08.2020
**(72)** NAKANISHI, Kazuki
**(74)** Griffith Hack

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**(71)** TMC Limited
**(11)** AU-A-2020215546
**(21)** 2020215546 **(22)** 30.01.2020
**(54)** Yarn, method and apparatus for producing yarn and products formed therefrom
**(51)** Int. Cl.
***D02G 3/04*** ( 2006.01 )
***D02G 3/28*** ( 2006.01 )
**(87)** WO2020/159387
**(31)** 750303 **(32)** 30.01.19 **(33)** NZ
756477 27.08.19 NZ
**(43)** 06.08.2020
**(72)** WYNNE, Andrew George
**(74)** Ellis Terry

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**(71)** Toyish Labs Inc.
**(11)** AU-A-2020238651
**(21)** 2020238651 **(22)** 02.03.2020
**(54)** Flexible construction unit, kit, and method for constructing a structure
**(51)** Int. Cl.
***A63H 33/04*** ( 2006.01 )
***A63H 33/08*** ( 2006.01 )
**(87)** WO2020/185439
**(31)** 16/296,543 **(32)** 08.03.19 **(33)** US
**(43)** 17.09.2020
**(72)** ESHET, Assaf; BARLEV, Yaron
**(74)** Spruson & Ferguson

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**(71)** Transitions Optical, Ltd.
**(11)** AU-A-2020215766
**(21)** 2020215766 **(22)** 30.01.2020
**(54)** Method, system, and computer program product for generating a customized photochromic optical article recommendation
**(51)** Int. Cl.
***G06F 16/907*** ( 2019.01 )
**(87)** WO2020/157160
**(31)** 62/799,935 **(32)** 01.02.19 **(33)** US
**(43)** 06.08.2020
**(72)** WHELAN, Sean D.; TARDIEU, Pascale; BALDY, Christopher J.
**(74)** MINTER ELLISON

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**(71)** Tri Innovations LLC
**(11)** AU-A-2019431869
**(21)** 2019431869 **(22)** 08.07.2019
**(54)** Electronic grinder
**(51)** Int. Cl.
***B02C 18/18*** ( 2006.01 )
***A24B 7/04*** ( 2006.01 )
***B02C 18/12*** ( 2006.01 )
***B02C 18/16*** ( 2006.01 )
***B02C 18/24*** ( 2006.01 )
**(87)** WO2020/176125
**(31)** 16/285,628 **(32)** 26.02.19 **(33)** US
**(43)** 03.09.2020
**(72)** ABEHASERA, Benyamin
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Trividia Health, Inc.
**(11)** AU-A-2020223077
**(21)** 2020223077 **(22)** 11.02.2020
**(54)** Systems and methods for hematocrit impedance measurement using switched capacitor accumulator
**(51)** Int. Cl.
***A61B 5/145*** ( 2006.01 )
***G01N 33/49*** ( 2006.01 )
**(87)** WO2020/167759
**(31)** 62/803,732 **(32)** 11.02.19 **(33)** US
16/787,417 11.02.20 US
**(43)** 20.08.2020
**(72)** LEONE, Steven V.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** T-Worx Holdings, LLC
**(11)** AU-A-2020210615
**(21)** 2020210615 **(22)** 17.01.2020
**(54)** Rail operating system
**(51)** Int. Cl.
***F41C 27/00*** ( 2006.01 )
**(87)** WO2020/154193
**(31)** 62/794,951 **(32)** 21.01.19 **(33)** US
**(43)** 30.07.2020
**(72)** MUSA, Jeffrey R.; TAYLOR, Wayne J.; CALLSEN, Gary W.; MILLER, Tyler J.; ELLENA, Joseph D.; FELDMAN, Benjamin F.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Uber Technologies, Inc.
**(11)** AU-A-2020212588
**(21)** 2020212588 **(22)** 24.01.2020
**(54)** Pick-up/drop-off zone handoff
**(51)** Int. Cl.
***G06Q 10/06*** ( 2012.01 )
***G06Q 50/30*** ( 2012.01 )
**(87)** WO2020/154659
**(31)** 62/796,897 **(32)** 25.01.19 **(33)** US
62/829,343 04.04.19 US
16/514,937 17.07.19 US
**(43)** 30.07.2020
**(72)** GAO, Shenglong; GOLDMAN, Brent; NIEMIEC, Konrad Julian
**(74)** FB Rice Pty Ltd

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**(71)** ULMA Packaging Technological Center, S.Coop.
**(11)** AU-A-2020253960
**(21)** 2020253960 **(22)** 24.03.2020
**(54)** Vertical packaging machine for packaging products in a modified atmosphere
**(51)** Int. Cl.
***B65B 31/04*** ( 2006.01 )
***B65B 9/20*** ( 2012.01 )
**(87)** WO2020/201598
**(31)** 19382251.7 **(32)** 04.04.19 **(33)** EP
**(43)** 08.10.2020
**(72)** OTXOA-AIZPURUA CALVO, Alberto; IZQUIERDO EREÑO, Eneko
**(74)** Griffith Hack

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**(71)** United Kingdom Research and Innovation
**(11)** AU-A-2020212386
**(21)** 2020212386 **(22)** 23.01.2020
**(54)** Choroid plexus organoids and methods for production thereof
**(51)** Int. Cl.
***C12N 5/071*** ( 2010.01 )
***C12N 5/079*** ( 2010.01 )
***C12N 5/0793*** ( 2010.01 )
***G01N 33/50*** ( 2006.01 )
**(87)** WO2020/152272
**(31)** 1900930.7 **(32)** 23.01.19 **(33)** GB
**(43)** 30.07.2020
**(72)** LANCASTER, Madeline A.; PELLEGRINI, Laura
**(74)** AJ PARK

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**(71)** United States Government as represented by the Department of Veterans Affairs; University of Miami
**(11)** AU-A-2020218272
**(21)** 2020218272 **(22)** 08.02.2020

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

**(54)** Growth hormone-releasing hormone antagonists and uses thereof
**(51)** Int. Cl.
***A61K 38/25*** ( 2006.01 )
***C07K 14/60*** ( 2006.01 )
***G01N 33/74*** ( 2006.01 )
**(87)** WO2020/163833
**(31)** 62/803,170 **(32)** 08.02.19 **(33)** US
62/869,687 02.07.19 US
**(43)** 13.08.2020
**(72)** JACKSON, Robert M.; SCHALLY, Andrew V.; CAI, Renzhi; CAI, Xianyang Zhang; WANG, Haibo; SHA, Wei
**(74)** Griffith Hack

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**(71)** United States Gypsum Company
**(11)** AU-A-2020218198
**(21)** 2020218198 **(22)** 05.02.2020
**(54)** Blast protection wall including cementitious panel
**(51)** Int. Cl.
***E04B 2/74*** ( 2006.01 )
***F42D 5/045*** ( 2006.01 )
**(87)** WO2020/163485
**(31)** 62/803,444 **(32)** 09.02.19 **(33)** US
16/589,596 01.10.19 US
**(43)** 13.08.2020
**(72)** POSPISIL, Frank
**(74)** Maxwells Patent & Trade Mark Attorneys Pty Ltd

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**(71)** Universite d'Angers; Centre Hospitalier Universitaire d'Angers
**(11)** AU-A-2020226823
**(21)** 2020226823 **(22)** 21.02.2020
**(54)** Peptide targeting GIP and GLP-2 receptors for treating bone disorders
**(51)** Int. Cl.
***C07K 14/575*** ( 2006.01 )
***A61K 38/00*** ( 2006.01 )
***A61K 38/22*** ( 2006.01 )
***A61K 38/26*** ( 2006.01 )
***C07K 14/605*** ( 2006.01 )
***C12N 15/62*** ( 2006.01 )
**(87)** WO2020/169792
**(31)** 19305210.7 **(32)** 21.02.19 **(33)** EP
**(43)** 27.08.2020
**(72)** MABILLEAU, Guillaume; MIECZKOWSKA, Aleksandra
**(74)** Davies Collison Cave Pty Ltd

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**(71)** University of North Texas Health Science Center at Fort Worth; Board of Regents, The University of Texas System
**(11)** AU-A-2020221382
**(21)** 2020221382 **(22)** 14.02.2020
**(54)** Blood-based screen for detecting neurological diseases in primary care settings
**(51)** Int. Cl.
***G16B 25/00*** ( 2019.01 )
***C12Q 1/6813*** ( 2018.01 )
**(87)** WO2020/168196
**(31)** 16/276,420 **(32)** 14.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** O'BRYANT, Sid E.; BARBER, Robert C.; XIAO, Guanghua; GERMAN, Dwight
**(74)** RnB IP

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**(71)** University of Southern California
**(11)** AU-A-2020221324
**(21)** 2020221324 **(22)** 14.02.2020
**(54)** Lym-1 and Lym-2 antibody compositions and improved CAR constructs
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07K 14/725*** ( 2006.01 )
***C12N 5/0783*** ( 2010.01 )
***C12N 15/62*** ( 2006.01 )
**(87)** WO2020/168298
**(31)** 62/806,632 **(32)** 15.02.19 **(33)** US
62/815,961 08.03.19 US
62/924,151 21.10.19 US
**(43)** 20.08.2020
**(72)** EPSTEIN, Alan L.; HU, Peisheng; ZHENG, Long
**(74)** HENRY HUGHES IP LTD

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**(71)** University of Washington
**(11)** AU-A-2020235117
**(21)** 2020235117 **(22)** 13.03.2020
**(54)** Zwitterionic copolymer coatings and related methods
**(51)** Int. Cl.
***A61L 27/00*** ( 2006.01 )
***A61L 27/14*** ( 2006.01 )
***A61L 27/16*** ( 2006.01 )
***C08F 2/00*** ( 2006.01 )
***C08F 8/00*** ( 2006.01 )
***C08F 293/00*** ( 2006.01 )
**(87)** WO2020/186134
**(31)** 62/818,265 **(32)** 14.03.19 **(33)** US
62/818,299 14.03.19 US
62/818,283 14.03.19 US
**(43)** 17.09.2020
**(72)** JIANG, Shaoyi; LIN, Xiaojie; HIMMELFARB, Jonathan; RATNER, Buddy D.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Vibrant Ltd.
**(11)** AU-A-2020210968
**(21)** 2020210968 **(22)** 21.01.2020
**(54)** Device and method for delivering a flowable ingestible medicament into the gastrointestinal tract of a user
**(51)** Int. Cl.
***A61M 31/00*** ( 2006.01 )
***A61M 37/00*** ( 2006.01 )
**(87)** WO2020/152574
**(31)** 1900780.6 **(32)** 21.01.19 **(33)** GB
**(43)** 30.07.2020
**(72)** BEN-TSUR, Lior; SHABAT, Roni; MOLNAR, Shai
**(74)** Belyea IP

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**(71)** View, Inc.
**(11)** AU-A-2020224620
**(21)** 2020224620 **(22)** 18.02.2020
**(54)** Remote management of a facility
**(51)** Int. Cl.
***H04L 12/28*** ( 2006.01 )
***G05B 15/00*** ( 2006.01 )
***H04L 12/407*** ( 2006.01 )
*H04L 12/40* ( 2006.01 )
**(87)** WO2020/172187
**(31)** 62/807,668 **(32)** 19.02.19 **(33)** US
**(43)** 27.08.2020
**(72)** KHANNA, Nitin
**(74)** Spruson & Ferguson

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**(71)** Virox Technologies Inc.
**(11)** AU-A-2020217906
**(21)** 2020217906 **(22)** 05.02.2020
**(54)** Shelf-stable antimicrobial compositions
**(51)** Int. Cl.
***A61L 2/18*** ( 2006.01 )
**(87)** WO2020/161648
**(31)** 16/268,752 **(32)** 06.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** ALDERSON, Faraz Ahmadpou
**(74)** LESICAR MAYNARD ANDREWS PTY LTD

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**(71)** Vivo Mobile Communication Co.,Ltd.
**(11)** AU-A-2020212661
**(21)** 2020212661 **(22)** 02.01.2020
**(54)** Beam failure recovery method, processing method, terminal and network side device
**(51)** Int. Cl.
***H04W 16/28*** ( 2009.01 )
***H04W 72/08*** ( 2009.01 )
**(87)** WO2020/151472
**(31)** 201910075898.1 **(32)** 25.01.19 **(33)** CN
**(43)** 30.07.2020
**(72)** YANG, Yu; SUN, Peng; PAN, Xueming
**(74)** Adams Pluck

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**(71)** Vivo Mobile Communication Co., Ltd.
**(11)** AU-A-2020208709
**(21)** 2020208709 **(22)** 17.01.2020
**(54)** Interface availability reporting and indicating methods and devices
**(51)** Int. Cl.
***H04W 48/08*** ( 2009.01 )
***H04W 48/16*** ( 2009.01 )
***H04W 76/10*** ( 2018.01 )
**(87)** WO2020/147832
**(31)** 201910049884.2 **(32)** 18.01.19 **(33)** CN
**(43)** 23.07.2020
**(72)** LIANG, Jing; ZHENG, Qian
**(74)** Adams Pluck

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**(71)** Warrantee Inc.
**(11)** AU-A-2020242007
**(21)** 2020242007 **(22)** 19.03.2020
**(54)** Insurance management server, service providing system, and service providing method
**(51)** Int. Cl.
***G06Q 40/08*** ( 2012.01 )
**(87)** WO2020/189783
**(31)** 2019-053356 **(32)** 20.03.19 **(33)** JP
**(43)** 24.09.2020
**(72)** SHONO, Yusuke
**(74)** LAMINAR IP PTY LTD

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**(71)** Wepfer Technics AG
**(11)** AU-A-2020212316

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

**(21)** 2020212316 **(22)** 20.01.2020
**(54)** Rotor blade for a wind turbine
**(51)** Int. Cl.
***F03D 1/06*** ( 2006.01 )
**(87)** WO2020/152080
**(31)** 19153139.1 **(32)** 22.01.19 **(33)** EP
**(43)** 30.07.2020
**(72)** WEPFER, Hans
**(74)** MEYER WEST IP PTY LTD

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**(71)** WestRock Packaging Systems, LLC
**(11)** AU-A-2020221455
**(21)** 2020221455 **(22)** 06.02.2020
**(54)** Panel interlocking device
**(51)** Int. Cl.
***B65D 71/14*** ( 2006.01 )
**(87)** WO2020/167578
**(31)** 62/804,507 **(32)** 12.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** HETTINGER, Peter; STAMER, Valentin; ERSCHFELD, Rainer
**(74)** Spruson & Ferguson

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**(71)** William Marsh Rice University
**(11)** AU-A-2020223379
**(21)** 2020223379 **(22)** 17.02.2020
**(54)** Vascularizing devices and methods for implanted diagnostics and therapeutics
**(51)** Int. Cl.
***A61L 27/54*** ( 2006.01 )
***A61L 31/14*** ( 2006.01 )
**(87)** WO2020/168327
**(31)** 62/806,496 **(32)** 15.02.19 **(33)** US
**(43)** 20.08.2020
**(72)** VEISEH, Omid; GRIGORYAN, Bagrat; SAZER, Daniel Warren; PARKHIDEH, Siavash; MILLER, Jordan; MUKHERJEE, Sudip
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Windtree Therapeutics, Inc.
**(11)** AU-A-2019432709
**(21)** 2019432709 **(22)** 12.11.2019
**(54)** Istaroxime-containing intravenous formulation for the treatment of acute heart failure (AHF)
**(51)** Int. Cl.
***A61K 31/5685*** ( 2006.01 )
***A61K 45/06*** ( 2006.01 )
***A61P 9/00*** ( 2006.01 )
***A61P 9/04*** ( 2006.01 )
**(87)** WO2020/180356
**(31)** 62/814,149 **(32)** 05.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** BIANCHI, Giuseppe; FERRARI, Patrizia; FERRANDI, Mara; BARRASSI, Paolo
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Woodland Mills Inc.
**(11)** AU-A-2020242085
**(21)** 2020242085 **(22)** 11.03.2020
**(54)** Tiltable carriage assembly and sawmill incorporating same
**(51)** Int. Cl.
***B27B 13/00*** ( 2006.01 )
***B27B 13/04*** ( 2006.01 )
***B27B 15/02*** ( 2006.01 )
***B27B 31/00*** ( 2006.01 )
**(87)** WO2020/186339
**(31)** 3037514 **(32)** 21.03.19 **(33)** CA
**(43)** 24.09.2020
**(72)** BRAMLEY, Neil K.; MALCOLM, Joshua J.
**(74)** Madderns Pty Ltd

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**(71)** Wright Medical Technology, Inc.
**(11)** AU-A-2020256210
**(21)** 2020256210 **(22)** 02.04.2020
**(54)** Surgical system and methods for stabilization and fixation of fractures, joints, and reconstructions
**(51)** Int. Cl.
***A61B 17/17*** ( 2006.01 )
***A61B 17/58*** ( 2006.01 )
***A61B 17/68*** ( 2006.01 )
**(87)** WO2020/206087
**(31)** 62/829,125 **(32)** 04.04.19 **(33)** US
**(43)** 08.10.2020
**(72)** CARLO III, Robert Michael; AWTREY, George Matthew; LOWERY, Gary W.; WOODARD, Joseph Ryan
**(74)** Spruson & Ferguson

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**(71)** Xevo Inc.
**(11)** AU-A-2020219038
**(21)** 2020219038 **(22)** 03.02.2020
**(54)** System and method for prioritizing content based on automobile-usage patterns
**(51)** Int. Cl.
***G06Q 30/00*** ( 2012.01 )
**(87)** WO2020/163238
**(31)** 16/266,222 **(32)** 04.02.19 **(33)** US
**(43)** 13.08.2020
**(72)** CORDELL, John P.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Xpella (Pty) Ltd
**(11)** AU-A-2020221341
**(21)** 2020221341 **(22)** 11.02.2020
**(54)** Fluid drainage device
**(51)** Int. Cl.
***A61M 1/00*** ( 2006.01 )
**(87)** WO2020/168366
**(31)** 2019/00880 **(32)** 11.02.19 **(33)** ZA
**(43)** 20.08.2020
**(72)** SCHMITT, Karl-Heinz; SHAHIM, Clinton Frederick
**(74)** Halfords IP

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**(71)** Yan, Y.; Setzler, B.; Zhao, Y.; Carbonell, M.S.R.; Gottesfeld, S.
**(11)** AU-A-2019384039
**(21)** 2019384039 **(22)** 20.11.2019
**(54)** Electrochemical devices and fuel cell systems
**(51)** Int. Cl.
***B01D 53/32*** ( 2006.01 )
***H01M 8/0668*** ( 2016.01 )
***H01M 16/00*** ( 2006.01 )
**(87)** WO2020/106901
**(31)** 62/769,764 **(32)** 20.11.18 **(33)** US
16/278,505 18.02.19 US
**(43)** 28.05.2020
**(72)** YAN, Yushan; SETZLER, Brian; ZHAO, Yun; CARBONELL, Mario Santiago Rojas; GOTTESFELD, Shimshon
**(74)** Spruson & Ferguson

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**(71)** YETI Coolers, LLC
**(11)** AU-A-2020231415
**(21)** 2020231415 **(22)** 06.03.2020
**(54)** Container with magnetic closure
**(51)** Int. Cl.
***A45C 3/10*** ( 2006.01 )
***A45C 3/00*** ( 2006.01 )
***A45C 11/20*** ( 2006.01 )
***A45C 11/22*** ( 2006.01 )
***A45C 13/00*** ( 2006.01 )
***A45C 13/10*** ( 2006.01 )
**(87)** WO2020/181241
**(31)** 16/295,711 **(32)** 07.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** ROGERS, Kyle Edward; FRITZ, John; MUNIE, Jeffrey Charles
**(74)** Southern Cross Intellectual Property

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**(71)** YETI Coolers, LLC
**(11)** AU-A-2020232017
**(21)** 2020232017 **(22)** 06.03.2020
**(54)** Container with magnetic closure
**(51)** Int. Cl.
***A45C 3/10*** ( 2006.01 )
***A45C 11/20*** ( 2006.01 )
***A45C 11/22*** ( 2006.01 )
***A45C 13/00*** ( 2006.01 )
***A45C 13/10*** ( 2006.01 )
**(87)** WO2020/181243
**(31)** 16/295,682 **(32)** 07.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** SULLIVAN, Derek G.; ROGERS, Kyle Edward
**(74)** Southern Cross Intellectual Property

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**(71)** Yoon, J.O.; Korea New Technology Co.,Ltd.
**(11)** AU-A-2020260932
**(21)** 2020260932 **(22)** 23.04.2020
**(54)** Silicon ion complex organized with carboxylic acid, method for manufacturing complex, and product using same
**(51)** Int. Cl.
***C02F 1/68*** ( 2006.01 )
***A23L 33/10*** ( 2016.01 )
***A61K 33/00*** ( 2006.01 )
***A61K 47/12*** ( 2006.01 )
***A61P 3/02*** ( 2006.01 )
***C05D 9/00*** ( 2006.01 )
***C05F 11/00*** ( 2006.01 )
**(87)** WO2020/218834
**(31)** 10-2019-0047830 **(32)** 24.04.19 **(33)** KR
10-2020-0025022 28.02.20 KR
**(43)** 29.10.2020
**(72)** YOON, Jong Oh
**(74)** Jones Tulloch

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**(71)** Yunjing Intelligence Technology(Dongguan) Co.,Ltd
**(11)** AU-A-2019420955

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

**(21)** 2019420955 **(22)** 20.11.2019
**(54)** Control method and apparatus for mopping robot, device, and storage medium
**(51)** Int. Cl.
***A47L 11/28*** ( 2006.01 )
**(87)** WO2020/143337
**(31)** 201910017398.2 **(32)** 08.01.19 **(33)** CN
**(43)** 16.07.2020
**(72)** WU, Yihao; WU, Zhuorui; ZHANG, Yupeng
**(74)** WRAYS PTY LTD

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**(71)** Zhejiang Doer Biologics Corporation
**(11)** AU-A-2019422629
**(21)** 2019422629 **(22)** 06.12.2019
**(54)** Anti-CLD18A2 nanobody and application thereof
**(51)** Int. Cl.
***C07K 16/30*** ( 2006.01 )
***A61K 35/17*** ( 2015.01 )
***A61K 39/395*** ( 2006.01 )
***A61K 47/42*** ( 2017.01 )
***A61P 35/00*** ( 2006.01 )
***C07K 16/28*** ( 2006.01 )
***C07K 16/46*** ( 2006.01 )
***C07K 19/00*** ( 2006.01 )
***C12N 5/10*** ( 2006.01 )
***C12N 15/13*** ( 2006.01 )
***C12N 15/62*** ( 2006.01 )
**(87)** WO2020/147451
**(31)** 201910033995.4 **(32)** 15.01.19 **(33)** CN
**(43)** 23.07.2020
**(72)** YAO, Gaofeng; LU, Yali; ZHOU, Zhenxing; FANG, Yilin; ZHU, Lina; LI, Changkui; ZHANG, Hongta; WEN, Xiaofang; DONG, Jiali; HUANG, Yanshan
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Zoetis Services LLC
**(11)** AU-A-2020232306
**(21)** 2020232306 **(22)** 05.03.2020
**(54)** Ready-to-use injectable formulations
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/10*** ( 2006.01 )
***A61K 31/546*** ( 2006.01 )
***A61K 47/14*** ( 2017.01 )
***A61P 31/04*** ( 2006.01 )
**(87)** WO2020/181024
**(31)** 62/814,440 **(32)** 06.03.19 **(33)** US
**(43)** 10.09.2020
**(72)** JOSHI, Vijaya Bharti; FOSTER, Todd P.; LUO, Laibin
**(74)** Davies Collison Cave Pty Ltd

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**(71)** ZTE Corporation
**(11)** AU-A-2020206398
**(21)** 2020206398 **(22)** 10.01.2020
**(54)** Method, apparatus and system for determining spatial relationship information, and information element transmission method and apparatus
**(51)** Int. Cl.
***H04W 72/12*** ( 2009.01 )
**(87)** WO2020/143735
**(31)** 201910024674.8 **(32)** 10.01.19 **(33)** CN
**(43)** 16.07.2020
**(72)** ZHANG, Shujuan; LU, Zhaohua; LI, Yu Ngok; GAO, Bo; HE, Zhen; JIANG, Chuangxin
**(74)** Davies Collison Cave Pty Ltd

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**(71)** ZTE Corporation
**(11)** AU-A-2020207472
**(21)** 2020207472 **(22)** 10.01.2020
**(54)** Information element processing method and apparatus, quasi-colocation information obtaining method and apparatus, and information determining method and apparatus
**(51)** Int. Cl.
***H04B 17/309*** ( 2015.01 )
**(87)** WO2020/143790
**(31)** 201910028857.7 **(32)** 11.01.19 **(33)** CN
**(43)** 16.07.2020
**(72)** ZHANG, Shujuan; LU, Zhaohua; GAO, Bo; WU, Hao; LI, Yu Ngok; JIANG, Chuangxin; HE, Zhen
**(74)** Davies Collison Cave Pty Ltd

**Numerical Index**

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

**2020218207** Blind Insites, LLC
**2020218259** Madison Vaccines Inc.
**2020218272** United States Government as represented by the Department of Veterans Affairs; University of Miami
**2020218296** Exeri AB
**2020218361** Kuhns, H.D.
**2020218383** BeiGene, Ltd.
**2020218617** Just A New Health
**2020218795** Hydrostor Inc.
**2020218798** JFS Patents APS
**2020219038** Xevo Inc.
**2020219083** SharkNinja Operating LLC
**2020219149** Hudson Institute of Medical Research
**2020219216** OncoImmune, Inc.; University of Maryland, Baltimore
**2020219242** Ecolab USA Inc.
**2020219341** Global BioLife Inc.
**2020219352** CR Packaging LLC
**2020219377** Theracell, Inc.
**2020219380** Munsell, M.; Dumienski, Z.
**2020219461** Lightcast Discovery Ltd
**2020219785** OncoImmune, Inc.; Children's Research Institute, Children's National Medical Center
**2020219797** Concert Pharmaceuticals, Inc.
**2020219799** Tanvex BioPharma USA, Inc.
**2020219829** The Coca-Cola Company
**2020219848** The Heil Co.
**2020220560** Reckitt Benckiser Health Limited
**2020220614** Paltech
**2020220963** Marker Diagnostics Uk Limited
**2020221009** American Sterilizer Company
**2020221031** Axcess Global Sciences, LLC
**2020221038** Dow Global Technologies LLC; Rohm and Haas Company; The Regents of the University of California
**2020221054** The Texas A&M University System
**2020221062** Google LLC
**2020221147** Isps Sp. z o.o.
**2020221180** Caterpillar Inc.
**2020221229** PACT Pharma, Inc.
**2020221293** Incyte Corporation
**2020221324** University of Southern California
**2020221341** Xpella (Pty) Ltd
**2020221382** University of North Texas Health Science Center at Fort Worth; Board of Regents, The University of Texas System
**2020221384** Les Laboratoires Servier SAS
**2020221409** Editas Medicine, Inc.
**2020221451** Procore Technologies, Inc.
**2020221455** WestRock Packaging Systems, LLC
**2020221569** Axcess Global Sciences, LLC
**2020221615** National University of Ireland, Galway
**2020221649** Merus N.V.
**2020221690** Rapture Innovation Labs Private Limited
**2020221770** Construction Research & Technology GmbH
**2020221785** Quest Technical Sales and Marketing, Inc.
**2020221834** Mirum Pharmaceuticals, Inc.
**2020221837** Agios Pharmaceuticals, Inc.
**2020221845** Tempus Labs, Inc.
**2020221897** Tesla, Inc.
**2020221916** Axcess Global Sciences, LLC
**2020222080** GlaxoSmithKline Intellectual Property Development Limited
**2020222083** Pfizer Inc.
**2020222084** Nexter Systems
**2020222120** Kyowa Kirin Co., Ltd.
**2020222242** Newclip International
**2020222309** ResMed Pty Ltd
**2020222359** Janssen Biotech, Inc.
**2020222577** Kao Corporation; Shizuoka Prefectural University Corporation
**2020222749** Merus N.V.
**2020222814** Caterpillar Inc.
**2020222874** Dow Global Technologies LLC; Rohm and Haas Company; The Regents of the University of California
**2020222889** Gemiini Educational Systems, Inc.
**2020222897** Axcess Global Sciences, LLC
**2020222962** Emory University; Children's Healthcare of Atlanta, Inc.
**2020223022** Mirum Pharmaceuticals, Inc.
**2020223038** Sports Data Labs, Inc.
**2020223077** Trividia Health, Inc.
**2020223101** Radius Pharmaceuticals, Inc.
**2020223160** Hoverfly Technologies, Inc.
**2020223171** Promaxo, Inc.
**2020223282** The Texas A&M University System
**2020223298** Alexion Pharmaceuticals, Inc.
**2020223364** Hexion Inc.
**2020223379** William Marsh Rice University
**2020223508** Atos Medical AB
**2020223611** IHI Corporation
**2020223851** Flyability SA
**2020224136** Regeneron Pharmaceuticals, Inc.
**2020224347** PGS Geophysical AS
**2020224404** Gimsa S.R.L.
**2020224435** Kabushiki Kaisha Yakult Honsha
**2020224581** Tesla, Inc.
**2020224620** View, Inc.
**2020224694** Titeline Services Pty Ltd
**2020224695** Olsson, A.
**2020225017** Naval Group
**2020225135** Motorola Solutions, Inc.
**2020225223** Lucid Software, Inc.
**2020225282** Hydrogreen, Inc.
**2020225314** Sangle-Ferriere, B.
**2020225325** Mannesch, A.
**2020225381** LivePerson, Inc.
**2020225419** KL-Teho Oy
**2020225437** Davis, Schottlander & Davis Ltd
**2020225561** Arsenal AAA, LLC
**2020225596** Creamcol Ltd
**2020225632** Life Technologies Corporation
**2020225665** Sasol Chemicals GmbH
**2020225816** Lo-Dough Limited
**2020225914** ResMed Pty Ltd
**2020225991** Imdpharm Inc.
**2020226154** Nippon Telegraph and Telephone Corporation
**2020226229** Nippon Steel Corporation; JFE Steel Corporation; Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.); Nippon Steel Engineering Co., Ltd.
**2020226318** CDA Research Group, Inc.
**2020226355** Particle Sciences Inc.
**2020226423** Qingdao Haier Refrigerator Co., Ltd.; Haier Smart Home Co., Ltd.
**2020226531** Pepsico, Inc.
**2020226609** BASF SE
**2020226633** The Regents of the University of California; Shang-Pharma Innovation Inc.
**2020226722** PGS Geophysical AS
**2020226823** Universite d'Angers; Centre Hospitalier Universitaire d'Angers
**2020226852** Kara Technologies Inc.
**2020226864** Integrated DNA Technologies, Inc.
**2020226973** Creamcol Ltd
**2020227459** Kabushiki Kaisha Yakult Honsha
**2020227736** Nextracker Inc.
**2020227967** Sumitomo Electric Industries, Ltd.
**2020228015** Ranpak Corp.
**2020228163** Bios S.r.l.
**2020228277** Syngenta Crop Protection AG
**2020228342** Smartbubble LTD.
**2020228629** ENI S.p.A.
**2020228669** JUUL Labs, Inc.
**2020228670** Schatz, R.; Riegler, S.; Kaltenbrunner, E.; Riegler, M.
**2020228672** NewSouth Innovations Pty Limited
**2020228757** Salts Healthcare Limited

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

**2020229012** Salts Healthcare Limited
**2020229332** Conmed Corporation
**2020229509** Commissariat A L'Energie Atomique Et Aux Energies Alternatives; Colas
**2020229628** National University of Singapore
**2020229875** Actym Therapeutics, Inc.
**2020229979** Bayer Aktiengesellschaft
**2020230409** Curebiotec GmbH
**2020230410** Société des Produits Nestlé S.A.
**2020230424** Allnex Netherlands
**2020230827** Casale SA
**2020230859** EMvision Medical Devices Ltd
**2020230897** Syngenta Crop Protection AG
**2020230911** Les Innovations Dog E Katz Inc.
**2020231075** Cox Powertrain Ltd.
**2020231161** Cox Powertrain Ltd.
**2020231228** Generation Bio Co.
**2020231322** Lexicon Pharmaceuticals, Inc.
**2020231415** YETI Coolers, LLC
**2020231603** Cox Powertrain Ltd.
**2020231612** Chevron U.S.A. Inc.
**2020231996** Ecolab USA Inc.
**2020232017** YETI Coolers, LLC
**2020232026** Merck Patent GmbH
**2020232044** Eisai R&D Management Co., Ltd.
**2020232188** SWIMC LLC
**2020232306** Zoetis Services LLC
**2020232318** MAKO Surgical Corp.
**2020232327** National University of Singapore
**2020232683** Regeneron Pharmaceuticals, Inc.
**2020232700** CHEP Technology Pty Limited
**2020232921** Alucent Biomedical, Inc.
**2020232925** CHEP Technology Pty Limited
**2020233198** Ascendis Pharma Endocrinology Division A/S
**2020233452** Eisai R&D Management Co., Ltd.
**2020234528** EMvision Medical Devices Ltd
**2020235117** University of Washington
**2020235232** Bio Optimal Limited
**2020235263** MorphoSys AG
**2020235395** Autolus Limited
**2020236351** Halliburton Energy Services, Inc.
**2020236361** Benesi, S.C.
**2020236379** Big Moon Power, Inc.
**2020236689** Chromaflo Technologies Europe B.V.
**2020236982** Pioneer Hi-Bred International, Inc.
**2020237195** LI, Y.
**2020238620** EPS World Wide Holdings Pty Ltd
**2020238651** Toyish Labs Inc.
**2020240203** Nippon Steel Corporation
**2020241100** Nexa3D Inc.
**2020241300** Kyocera Senco Industrial Tools, Inc.
**2020241513** Bostik, Inc.
**2020241693** Ionis Pharmaceuticals, Inc.
**2020242007** Warrantee Inc.
**2020242085** Woodland Mills Inc.
**2020242287** ONXEO; INSERM (Institut National de la Santé et de la Recherche Médicale); Universite Paul Sabatier Toulouse III; Institut Claudius Regaud
**2020242905** Primetals Technologies Austria GmbH
**2020243830** AMSL Innovations Pty Ltd
**2020244071** Chiesi Farmaceutici S.p.A.
**2020244339** Fiorentino, M.J.
**2020244921** Otsuka Pharmaceutical Co., Ltd.
**2020245246** Gripple Limited
**2020245284** Covidien LP
**2020245603** The Regents of The University of California
**2020245773** Pixium Vision SA
**2020247193** Essilor International
**2020247558** Koch-Glitsch, LP
**2020249609** Pixium Vision SA
**2020249610** Pixium Vision SA
**2020249883** Alcon Inc.
**2020250810** Boehringer Ingelheim International GmbH
**2020251696** AT-PAC China Business Trust
**2020251783** FUJIFILM Medical Systems U.S.A., Inc.
**2020251966** Kushnir, U.
**2020253531** Regeneron Pharmaceuticals, Inc.
**2020253532** Regeneron Pharmaceuticals, Inc.
**2020253797** The Gillette Company LLC
**2020253960** ULMA Packaging Technological Center, S.Coop.
**2020256210** Wright Medical Technology, Inc.
**2020256225** Regeneron Pharmaceuticals, Inc.
**2020256272** Citrix Systems, Inc.
**2020258267** Hoverfly Technologies, Inc.
**2020259264** Halliburton Energy Services, Inc.
**2020260932** Yoon, J.O.; Korea New Technology Co.,Ltd.
**2020261014** JCM American Corporation
**2020261091** Farmers Edge Inc.
**2020263549** Komatsu Ltd.
**2020264069** Muanchart, M.
**2020264142** Farmers Edge Inc.
**2020264642** Abbisko Therapeutics Co., Ltd.
**2020266283** Humabs BioMed SA; Vir Biotechnology, Inc.
**2020267213** Coupang Corp.
**2020268690** Jetoptera, Inc.
**2020271090** Cryovac, LLC.
**2020272417** JKL Corporation
**2020273988** JCM American Corporation
**2020279719** JCM American Corporation
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**2020286264** Coupang Corp.
**2020286265** Coupang Corp.
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**2020321751** Intuit Inc.
**2020321911** Intuit Inc.
**2020323950** Dalian University of Technology
**2020331564** South China Sea Institute of Oceanology, Chinese Academy of Sciences
**2020356804** Sunrise Resort, Inc.
**2020382717** Intuit Inc.
**2020387750** Ferronova Pty Ltd
**2020390428** Flocon Engineering Pty Ltd
**2020405824** Korea Aviation Light Co., Ltd.
**2020418421** Intuit Inc.
**2020427553** Intuit Inc.
**2021200650** Paisley, W.
**2021202879** Citrix Systems, Inc.
**2021207960** Low, H.
**2021214954** Frimline Private Limited

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2020219038

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2020264142
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**G10L 25 /-**

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**G16B 20 /-**

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**G16B 40 /-**

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**H01L 31 /-**

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**H01M 10 /-**

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**H01M 16 /-**

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**H01M 4 /-**

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**H01M 8 /-**

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2020227967

**H01Q 1 /-**

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**H01Q 9 /-**

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**H02K 1 /-**

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**H02K 3 /-**

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**H04L 1 /-**

2019426298

**H04L 12 /-**

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2020208718
2020218102
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2020225381
2020226154

**H04L 29 /-**

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**H04L 9 /-**

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**H04N 19 /-**

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**H04N 21 /-**

2020244339

**H04N 7 /-**

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2020251783

**H04Q 9 /-**

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**H04R 1 /-**

2020221690

**H04R 29 /-**

2020222889

**H04R 3 /-**

2020221690

**H04W 12 /-**

2019421606
2020214502

**H04W 16 /-**

2020212661

**H04W 24 /-**

2020213574

**H04W 28 /-**

2020228672

**H04W 4 /-**

2020218207

**H04W 48 /-**

2020208709

**H04W 72 /-**

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2020206398
2020212661

**H04W 76 /-**

2019421606
2020208709

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**(11)** AU-B-2018399638
**(21)** 2018399638 **(22)** 31.12.2018
**(54)** Impedance matching conductive structure for high efficiency RF circuits
**(51)** Int. Cl.
***H03H 1/00*** ( 2006.01 )
***C03C 15/00*** ( 2006.01 )
***C03C 17/06*** ( 2006.01 )
***C03C 23/00*** ( 2006.01 )
***H01P 5/02*** ( 2006.01 )
***H03H 7/38*** ( 2006.01 )
***H05K 1/02*** ( 2006.01 )
***H05K 1/03*** ( 2006.01 )
***H05K 3/00*** ( 2006.01 )
**(87)** WO2019/136024
**(31)** 62/613,735 **(32)** 04.01.18 **(33)** US
**(43)** 11.07.2019
**(44)** 02.09.2021
**(72)** FLEMMING, Jeb H.; McWETHY, Kyle
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(11)** AU-B-2019232873
**(21)** 2019232873 **(22)** 19.09.2019
**(54)** System and method for power production including methanation
**(51)** Int. Cl.
***C10J 3/84*** ( 2006.01 )
**(43)** 10.10.2019
**(44)** 02.09.2021
**(62)** 2017220796
**(72)** Forrest, Brock Alan; Lu, Xijia
**(74)** Spruson & Ferguson

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**(11)** AU-B-2016208411
**(21)** 2016208411 **(22)** 29.07.2016
**(54)** IDENTIFYING SHAPES IN AN IMAGE BY COMPARING BÉZIER CURVES
**(51)** Int. Cl.
***G06T 7/00*** ( 2006.01 )
***G06K 9/36*** ( 2006.01 )
**(31)** 14/869,959 **(32)** 29.09.15 **(33)** US
**(43)** 20.04.2017
**(44)** 02.09.2021
**(72)** Thevenet, Frederic; Yu, Fan
**(74)** RnB IP Pty Ltd

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**(54)** SYSTEM AND METHOD FOR MULTIMEDIA DOCUMENT SUMMARIZATION
**(51)** Int. Cl.
***G06F 40/20*** ( 2020.01 )
***G06F 16/44*** ( 2019.01 )
**(31)** 14/947,964 **(32)** 20.11.15 **(33)** US
**(43)** 08.06.2017
**(44)** 02.09.2021
**(72)** Subramanian, Vaishnavi; Utpal; Gupta, Shivani; Maneriker, Pranav Ravindra; Modani, Natwar; Hiranandani, Gaurush; Sinha, Atanu
**(74)** RnB IP Pty Ltd

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**(11)** AU-B-2019201787
**(21)** 2019201787 **(22)** 14.03.2019
**(54)** COMPOSITING AWARE IMAGE SEARCH
**(51)** Int. Cl.
***G06T 1/40*** ( 2006.01 )
**(31)** 15/986,401 **(32)** 22.05.18 **(33)** US
**(43)** 12.12.2019
**(44)** 02.09.2021
**(72)** Shen, Xiaohui; Lin, Zhe; Sunkavalli, Kalyan Krishna; Zhao, Hengshuang; Price, Brian Lynn
**(74)** RnB IP Pty Ltd

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**(11)** AU-B-2020289816
**(21)** 2020289816 **(22)** 17.12.2020
**(54)** SECURE AUDIO WATERMARKING BASED ON NEURAL NETWORKS
**(51)** Int. Cl.
***G10L 19/018*** ( 2013.01 )
***G10L 25/30*** ( 2013.01 )
***G10L 25/78*** ( 2013.01 )
***H04S 7/00*** ( 2006.01 )
**(31)** 16/790,301 **(32)** 13.02.20 **(33)** US
**(43)** 02.09.2021
**(44)** 02.09.2021
**(72)** Jin, Zeyu; Risse-adams, Oona
**(74)** RnB IP Pty Ltd

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**(71)** Afferent Pharmaceuticals Inc.
**(11)** AU-B-2017233841
**(21)** 2017233841 **(22)** 09.03.2017
**(54)** Pyrimidines and variants thereof, and uses therefor
**(51)** Int. Cl.
***C07D 237/02*** ( 2006.01 )
***A61K 31/501*** ( 2006.01 )
***C07D 253/06*** ( 2006.01 )
**(87)** WO2017/160569
**(31)** 62/363,630 **(32)** 18.07.16 **(33)** US
62/308,157 14.03.16 US
**(43)** 21.09.2017
**(44)** 02.09.2021
**(72)** Hawley, Ronald Charles; Ibrahim, Prabha; Ford, Anthony P.; Gever, Joel R.
**(74)** Allens Patent & Trade Mark Attorneys

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**(11)** AU-B-2016243147
**(21)** 2016243147 **(22)** 28.03.2016
**(54)** Method and system for determining integrated metabolic baseline and potential of living cells
**(51)** Int. Cl.
***G01N 33/50*** ( 2006.01 )
***G01N 33/52*** ( 2006.01 )
***G01N 33/58*** ( 2006.01 )
**(87)** WO2016/160702
**(31)** 62/139,432 **(32)** 27.03.15 **(33)** US
**(43)** 06.10.2016
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**(72)** Ferrick, David A.; Dranka, Brian
**(74)** Phillips Ormonde Fitzpatrick

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**(11)** AU-B-2016253217
**(21)** 2016253217 **(22)** 21.04.2016
**(54)** Method for secretory production of protein
**(51)** Int. Cl.
***C12N 15/09*** ( 2006.01 )
***C07K 14/34*** ( 2006.01 )
***C12N 1/21*** ( 2006.01 )
***C12P 21/00*** ( 2006.01 )
**(87)** WO2016/171224
**(31)** 2015-089046 **(32)** 24.04.15 **(33)** JP
**(43)** 27.10.2016
**(44)** 02.09.2021
**(72)** Matsuda, Yoshihiko; Ito, Yumi; Kashima, Yukari; Yamada, Naoko; Tsurui, Noriko; Itaya, Hiroshi
**(74)** Griffith Hack

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**(11)** AU-B-2019321923
**(21)** 2019321923 **(22)** 27.11.2019
**(54)** Asynchronous processing of blockchain blocks
**(51)** Int. Cl.
***H04L 9/32*** ( 2006.01 )
**(87)** WO2020/035095
**(43)** 20.02.2020
**(44)** 02.09.2021
**(72)** WANG, Jiyuan; YAN, Xuebing
**(74)** Spruson & Ferguson

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**(11)** AU-B-2019275578
**(21)** 2019275578 **(22)** 04.12.2019
**(54)** Sterilization of ciprofloxacin composition
**(51)** Int. Cl.
***C07D 215/56*** ( 2006.01 )
***A61K 9/16*** ( 2006.01 )
***A61K 31/497*** ( 2006.01 )
**(43)** 02.01.2020
**(44)** 02.09.2021
**(62)** 2015284048
**(72)** Coleman, Scott H.; Liaw, Wei-Cheng; Wroblewski, Jerry; Savel, Robert
**(74)** FB Rice Pty Ltd

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**(11)** AU-B-2016217906

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**(54)** Retargeted herpesvirus with a glycoprotein H fusion
**(51)** Int. Cl.
***C12N 7/00*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***C12N 5/10*** ( 2006.01 )
***C12N 15/09*** ( 2006.01 )
***C12N 15/62*** ( 2006.01 )
***C12N 15/869*** ( 2006.01 )
**(87)** WO2016/128497
**(31)** 15425012.0 **(32)** 11.02.15 **(33)** EP
**(43)** 18.08.2016
**(44)** 02.09.2021
**(72)** Campadelli, Maria Gabriella; Gatta, Valentina
**(74)** Spruson & Ferguson

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**(11)** AU-B-2015330726
**(21)** 2015330726 **(22)** 09.10.2015
**(54)** Compositions and methods for inhibition of HAO1 (hydroxyacid oxidase 1 (glycolate oxidase)) gene expression
**(51)** Int. Cl.
***A61K 31/713*** ( 2006.01 )
**(87)** WO2016/057893
**(31)** 62/147,976 **(32)** 15.04.15 **(33)** US
62/214,602 04.09.15 US
62/062,751 10.10.14 US
**(43)** 14.04.2016
**(44)** 02.09.2021
**(72)** Querbes, William; Fitzgerald, Kevin; Bettencourt, Brian; Liebow, Abigail; Erbe, David V.
**(74)** Griffith Hack

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**(11)** AU-B-2017202545
**(21)** 2017202545 **(22)** 19.04.2017
**(54)** Method for initializing the FS mode for the movement of a train on a railway equipped with an ERTMS/ETCS signaling system
**(51)** Int. Cl.
***B61L 25/00*** ( 2006.01 )
***B61L 23/00*** ( 2006.01 )
***B61L 27/00*** ( 2006.01 )
**(31)** 16166239.0 **(32)** 20.04.16 **(33)** EP
**(43)** 09.11.2017
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**(72)** Badot, Bertrand
**(74)** Davies Collison Cave Pty Ltd

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**(21)** 2015265578

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**(71)** Amgen Inc.
**(11)** AU-B-2020202207
**(21)** 2020202207 **(22)** 27.03.2020
**(54)** Process control systems and methods for use with filters and filtration processes
**(51)** Int. Cl.
***B01D 61/14*** ( 2006.01 )
***B01D 61/18*** ( 2006.01 )
***B01D 61/22*** ( 2006.01 )
***C07K 1/34*** ( 2006.01 )
**(43)** 16.04.2020
**(44)** 02.09.2021
**(62)** 2015259228
**(72)** Gefroh, Eva; Schweickart, Randolph W.; Petty, Krista; Frank, Gregory; Salstrom Terpsma, Christine; Hewig III, Arthur C.; Schultz, Joseph Edward
**(74)** Shelston IP Pty Ltd.

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**(71)** Amgen Research (Munich) GmbH; Amgen Inc.
**(11)** AU-B-2015265578
**(21)** 2015265578 **(22)** 20.05.2015
**(54)** Risk-stratification of B-precursor acute lymphoblastic leukemia patients
**(51)** Int. Cl.
***G01N 33/574*** ( 2006.01 )
**(87)** WO2015/181683
**(31)** 62/005,560 **(32)** 30.05.14 **(33)** US
**(43)** 03.12.2015
**(44)** 02.09.2021
**(72)** Zugmaier, Gerhard; Kufer, Peter; Alekar, Shilpa
**(74)** Wrays

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**(11)** AU-B-2015332507
**(21)** 2015332507 **(22)** 14.10.2015
**(54)** Reducing error in predicted genetic relationships
**(51)** Int. Cl.
***C12Q 1/68*** ( 2006.01 )
**(87)** WO2016/061260
**(31)** 62/063,849 **(32)** 14.10.14 **(33)** US
**(43)** 21.04.2016
**(44)** 02.09.2021
**(72)** Barber, Mathew J.; Wang, Yong; Noto, Keith D.; Chahine, Kenneth G.; Ball, Catherine Ann
**(74)** AJ PARK

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**(11)** AU-B-2018389705
**(21)** 2018389705 **(22)** 13.12.2018
**(54)** Method for the treatment of iron-containing sludge
**(51)** Int. Cl.
***C22B 7/00*** ( 2006.01 )
***C22B 3/00*** ( 2006.01 )
***C22B 7/02*** ( 2006.01 )
***C22B 19/00*** ( 2006.01 )
**(87)** WO2019/123138
**(31)** PCT/IB2017/058327 **(32)** 22.12.17 **(33)** IB
**(43)** 27.06.2019
**(44)** 02.09.2021
**(72)** KERZERHO, Gaëlle; BOUCARD, Hélène; IOSIF, Ana-Maria
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Aristocrat Technologies Australia Pty Limited
**(11)** AU-B-2019268082
**(21)** 2019268082 **(22)** 19.11.2019
**(54)** A METHOD OF GAMING, A GAMING SYSTEM AND A GAME CONTROLLER
**(51)** Int. Cl.
***A63F 13/00*** ( 2006.01 )
***A63F 9/24*** ( 2006.01 )
***G07F 17/32*** ( 2006.01 )
**(43)** 12.12.2019
**(44)** 02.09.2021
**(62)** 2018201845
**(72)** VILLA, David; CHEN, Yonghong
**(74)** Griffith Hack

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**(21)** 2017266911

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**(21)** 2019264664 **(22)** 15.11.2019
**(54)** BLOOD PUMP SYSTEMS AND METHODS
**(51)** Int. Cl.
***A61M 1/14*** ( 2006.01 )
**(43)** 05.12.2019
**(44)** 02.09.2021
**(62)** 2018200046
**(72)** Franano, F. Nicholas; Loree, II, Howard M.; Tansley, Geoff; Woodard, Steve; Hutto, Barrett
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Atlantic Pacific Equipment, Inc.
**(11)** AU-B-2016318081
**(21)** 2016318081 **(22)** 02.09.2016
**(54)** Horizontal scaffold support component
**(51)** Int. Cl.
***E04G 7/00*** ( 2006.01 )
**(87)** WO2017/040944
**(31)** 62/213,186 **(32)** 02.09.15 **(33)** US
**(43)** 09.03.2017
**(44)** 02.09.2021
**(72)** Rogers, Peter
**(74)** Griffith Hack

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**(71)** AxoGen Corporation
**(11)** AU-B-2016267075
**(21)** 2016267075 **(22)** 25.05.2016
**(54)** Nerve culture system
**(51)** Int. Cl.
***G01N 24/08*** ( 2006.01 )
***A61B 5/055*** ( 2006.01 )
***G01N 33/50*** ( 2006.01 )
**(87)** WO2016/191483
**(31)** 14/724,365 **(32)** 28.05.15 **(33)** US
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**(44)** 02.09.2021
**(72)** Deister, Curt; Tajdaran, Kasra
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Azuma Design Pty Limited
**(11)** AU-B-2016253578
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**(54)** A vent lock
**(51)** Int. Cl.

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***E05C 1/10*** ( 2006.01 )
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**(43)** 25.05.2017
**(44)** 02.09.2021
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**(11)** AU-B-2017260298
**(21)** 2017260298 **(22)** 04.05.2017
**(54)** Adenine derivatives as protein kinase inhibitors
**(51)** Int. Cl.
***C07D 473/34*** ( 2006.01 )
***A61K 31/52*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2017/191297
**(31)** 16305530.4 **(32)** 04.05.16 **(33)** EP
**(43)** 09.11.2017
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**(72)** Surleraux, Dominique; Amiable, Claire; Guillon, Rémi
**(74)** Griffith Hack

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**(71)** Bally Gaming, Inc.
**(11)** AU-B-2020201885
**(21)** 2020201885 **(22)** 16.03.2020
**(54)** Mobile secondary betting user interface
**(51)** Int. Cl.
***A63F 13/30*** ( 2014.01 )
**(43)** 02.04.2020
**(44)** 02.09.2021
**(62)** 2017276339
**(72)** WARD, Mattehw J.; SYLLA, Craig J.; BUCHOLZ, Dale R.; TOOHEY, John; BAERLOCHER, Anthony J.; PETERSON, James S.
**(74)** Spruson & Ferguson

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**(71)** Baraja Pty Ltd
**(11)** AU-B-2021202660
**(21)** 2021202660 **(22)** 29.04.2021
**(54)** Spatial profiling system and method
**(51)** Int. Cl.
***G01S 17/89*** ( 2020.01 )
***G01C 3/08*** ( 2006.01 )
***G01S 7/483*** ( 2006.01 )
***G01S 17/02*** ( 2020.01 )
**(43)** 27.05.2021
**(44)** 02.09.2021
**(62)** 2020203638
**(72)** Collarte Bondy, Federico; Pulikkaseril, Cibby
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Barrette Outdoor Living, Inc.
**(11)** AU-B-2020203907
**(21)** 2020203907 **(22)** 12.06.2020
**(54)** SYSTEM AND METHOD FOR DECKING TILES
**(51)** Int. Cl.
***E04F 15/02*** ( 2006.01 )
**(31)** 62/866,152 **(32)** 25.06.19 **(33)** US
**(43)** 21.01.2021
**(44)** 02.09.2021
**(72)** Schneider, Christopher Michael; Marin, Simon Rafael; Bertke, Patrick Joseph
**(74)** Alder IP Pty Ltd

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**(11)** AU-B-2016289685
**(21)** 2016289685 **(22)** 04.07.2016
**(54)** Emulsifier mixtures
**(51)** Int. Cl.
***B01F 17/00*** ( 2006.01 )
***A23L 27/00*** ( 2016.01 )
***A23L 29/10*** ( 2016.01 )
***A23L 35/00*** ( 2016.01 )
***A23P 10/47*** ( 2016.01 )
**(87)** WO2017/005672
**(31)** 16164182.4 **(32)** 07.04.16 **(33)** EP
15175436.3 06.07.15 EP
**(43)** 12.01.2017
**(44)** 02.09.2021
**(72)** Dennhoefer, Anna; Reitlinger, Christina; Mueller, Michael; Alaoui Ismaili Zemmahi, Smail; Hofmann, Alois; Rudolph, Kristina
**(74)** Griffith Hack

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**(11)** AU-B-2017264843
**(21)** 2017264843 **(22)** 11.05.2017
**(54)** Aqueous agricultural composition having improved spray drift performance
**(51)** Int. Cl.
***A01N 25/06*** ( 2006.01 )
***A01N 25/10*** ( 2006.01 )
***A01N 25/30*** ( 2006.01 )
***A01N 57/20*** ( 2006.01 )
***A01P 13/00*** ( 2006.01 )
**(87)** WO2017/197066
**(31)** 62/334,618 **(32)** 11.05.16 **(33)** US
**(43)** 16.11.2017
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**(74)** Griffith Hack

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**(11)** AU-B-2017275599
**(21)** 2017275599 **(22)** 23.05.2017
**(54)** Benzoxaborole compounds
**(51)** Int. Cl.
***A01N 55/08*** ( 2006.01 )
***A01P 13/00*** ( 2006.01 )
***C07F 5/02*** ( 2006.01 )
**(87)** WO2017/207358
**(31)** 16172769.8 **(32)** 03.06.16 **(33)** EP
**(43)** 07.12.2017
**(44)** 02.09.2021
**(72)** Witschel, Matthias; Mietzner, Thomas; Johannes, Manuel; Seitz, Thomas; Newton, Trevor William; Kraemer, Gerd; Tresch, Stefan
**(74)** Griffith Hack

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**(71)** Bausch & Lomb Incorporated
**(11)** AU-B-2016261062
**(21)** 2016261062 **(22)** 27.04.2016
**(54)** Cast molding toric contact lenses
**(51)** Int. Cl.
***B29D 11/00*** ( 2006.01 )
**(87)** WO2016/182731
**(31)** 62/160,846 **(32)** 13.05.15 **(33)** US
**(43)** 17.11.2016
**(44)** 02.09.2021
**(72)** Dobner, Michael Henry; Barrile-Josephson, Craig A.
**(74)** Spruson & Ferguson

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**(71)** Behr Process Corporation
**(11)** AU-B-2017298280
**(21)** 2017298280 **(22)** 18.07.2017
**(54)** Antimicrobial paint composition and related methods
**(51)** Int. Cl.
***C09D 5/00*** ( 2006.01 )
**(87)** WO2018/017557
**(31)** 62/363,922 **(32)** 19.07.16 **(33)** US
**(43)** 25.01.2018
**(44)** 02.09.2021
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**(74)** AJ PARK

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**(71)** BeneTerra Technologies Pty Ltd
**(11)** AU-B-2017266440
**(21)** 2017266440 **(22)** 17.05.2017
**(54)** Submerged combustion apparatus
**(51)** Int. Cl.
***B01D 1/14*** ( 2006.01 )
**(87)** WO2017/197454
**(31)** 62/338,098 **(32)** 18.05.16 **(33)** US
**(43)** 23.11.2017
**(44)** 02.09.2021
**(72)** Zupancic, John William; Stapleton, Anthony William; Zimmer, Adam Lee; Van Niekerk, Rory; Carroll, Anthony Justin; Jones, James Joseph; Kisbee, Scott Peter
**(74)** Davies Collison Cave Pty Ltd

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**(11)** AU-B-2018300727
**(21)** 2018300727 **(22)** 05.07.2018
**(54)** Mechanical switch
**(51)** Int. Cl.
***H01H 3/28*** ( 2006.01 )
***H01H 23/28*** ( 2006.01 )
***H01H 50/32*** ( 2006.01 )
**(87)** WO2019/011768
**(31)** 10 2017 115 382.9 **(32)** 10.07.17 **(33)** DE
**(43)** 17.01.2019
**(44)** 02.09.2021
**(72)** GRUSZENINKS, Johann; ENGELS, Martin; FA, Christian
**(74)** Cotters Patent & Trade Mark Attorneys

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**(71)** Beyer, P.
**(11)** AU-B-2016259984
**(21)** 2016259984 **(22)** 10.05.2016
**(54)** Lighting system with integrated smoke detector
**(51)** Int. Cl.
***G08B 17/10*** ( 2006.01 )
***F21S 9/02*** ( 2006.01 )

## Applications Accepted - Name Index cont'd

***F21V 33/00*** ( 2006.01 )
**(87)** WO2016/179655
**(31)** 2015901736 **(32)** 13.05.15 **(33)** AU
**(43)** 17.11.2016
**(44)** 02.09.2021
**(72)** Beyer, Peter Ernest
**(74)** Elliptic Legal & Patent Services

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**(71)** Biosearch, S.A.
**(11)** AU-B-2015359382
**(21)** 2015359382 **(22)** 10.12.2015
**(54)** Probiotic strains having cholesterol absorbing capacity, methods and uses thereof
**(51)** Int. Cl.
*C12R 1/01* ( 2006.01 )
*C12R 1/225* ( 2006.01 )
**(87)** WO2016/092032
**(31)** 14384202.9 **(32)** 10.12.14 **(33)** EP
**(43)** 16.06.2016
**(44)** 02.09.2021
**(72)** Sanudo Otero, Ana Isabel; Criado Garcia, Raquel; Rodriguez Nogales, Alba; Garach Domech, Alberto; Olivares Martin, Monica; Galvez Peralta, Julio Juan; De La Escalera Huerso, Santiago; Duarte Perez, Juan Manuel; Zarzuelo Zurita, Antonio; Banuelos Hortiguela, Oscar
**(74)** Collison & Co

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**(71)** Biotie Therapies, Inc.
**(11)** AU-B-2017337053
**(21)** 2017337053 **(22)** 29.09.2017
**(54)** Compositions and methods for treating alzheimer's disease and parkinson's disease
**(51)** Int. Cl.
***C07C 275/04*** ( 2006.01 )
***A61K 31/17*** ( 2006.01 )
***C07C 317/32*** ( 2006.01 )
**(87)** WO2018/064559
**(31)** 62/402,357 **(32)** 30.09.16 **(33)** US
**(43)** 05.04.2018
**(44)** 02.09.2021
**(72)** Salentine, Christopher G.; Malefyt, Thomas R.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Bioverativ Therapeutics Inc.
**(11)** AU-B-2019202656
**(21)** 2019202656 **(22)** 16.04.2019
**(54)** Factor VIII polypeptide formulations
**(51)** Int. Cl.
***A61K 38/37*** ( 2006.01 )
**(43)** 09.05.2019
**(44)** 02.09.2021
**(62)** 2014228506
**(72)** MALONEY, Kevin; ABDUL-FATTAH, Ahmad; GAGE, Daniel
**(74)** Spruson & Ferguson

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**(71)** Bluescope Steel Limited
**(11)** AU-B-2017268032
**(21)** 2017268032 **(22)** 16.05.2017
**(54)** Coating process
**(51)** Int. Cl.
***C09D 5/00*** ( 2006.01 )
***C08J 7/04*** ( 2006.01 )
***C23C 28/00*** ( 2006.01 )
**(87)** WO2017/197448
**(31)** 2016901812 **(32)** 16.05.16 **(33)** AU
**(43)** 23.11.2017
**(44)** 02.09.2021
**(72)** Maclaughlin, Shane A.; Xi, Binbin
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** Board of Regents, The University of Texas System
**(11)** AU-B-2015393953
**(21)** 2015393953 **(22)** 02.09.2015
**(54)** Multidrug brittle matrix compositions
**(51)** Int. Cl.
***A61K 9/14*** ( 2006.01 )
***A61K 9/72*** ( 2006.01 )
***A61K 31/137*** ( 2006.01 )
***A61K 31/167*** ( 2006.01 )
***A61K 31/58*** ( 2006.01 )
***A61P 11/00*** ( 2006.01 )
**(87)** WO2016/178704
**(31)** 62/156,052 **(32)** 01.05.15 **(33)** US
**(43)** 10.11.2016
**(44)** 02.09.2021
**(72)** Williams, Robert; Watts, Alan; Peters, Jay; Carvalho, Simone Raffia
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Brigham and Women's Hospital, Inc.; President and Fellows of Harvard College; Vilnius University
**(11)** AU-B-2020201355
**(21)** 2020201355 **(22)** 25.02.2020
**(54)** SYSTEMS AND METHODS FOR BIOMIMETIC FLUID PROCESSING
**(51)** Int. Cl.
***C12M 1/00*** ( 2006.01 )
***B01L 3/00*** ( 2006.01 )
***C12M 3/08*** ( 2006.01 )
**(43)** 12.03.2020
**(44)** 02.09.2021
**(62)** 2015241133
**(72)** Thon, Jonathan N.; Italiano, Joseph E.; Mazutis, Linas; Weitz, David A.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Cabinplant International A/S
**(11)** AU-B-2018263729
**(21)** 2018263729 **(22)** 26.04.2018
**(54)** Methods and systems for weighing and collecting solid food products
**(51)** Int. Cl.
***G01G 13/24*** ( 2006.01 )
***G01G 19/393*** ( 2006.01 )
**(87)** WO2018/202555
**(31)** 17169086.0 **(32)** 02.05.17 **(33)** EP
**(43)** 08.11.2018
**(44)** 02.09.2021
**(72)** Hansen, Henning Ingemann
**(74)** Franke Hyland Pty Ltd

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**(71)** Carl Freudenberg KG
**(11)** AU-B-2018365210
**(21)** 2018365210 **(22)** 08.11.2018
**(54)** Cleaning cart and frame therefor
**(51)** Int. Cl.
***A47L 13/51*** ( 2006.01 )
**(87)** WO2019/092062
**(31)** 10 2017 010 461.1 **(32)** 13.11.17 **(33)** DE
**(43)** 16.05.2019
**(44)** 02.09.2021
**(72)** DEERBERG, Jens; GRATZKI, Torsten; BARBER, Steve; JÜRGENS, Ralf; FALLENSTEIN, Felix; SAND, Nikolai; EISENHUT, Andreas
**(74)** Halfords IP

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**(71)** Cefront Technology AS
**(11)** AU-B-2017423234
**(21)** 2017423234 **(22)** 10.07.2017
**(54)** Offshore vessel for production and storage of hydrocarbon products
**(51)** Int. Cl.
***B63B 35/44*** ( 2006.01 )
***B63B 39/06*** ( 2006.01 )
**(87)** WO2019/011407
**(43)** 17.01.2019
**(44)** 02.09.2021
**(72)** Syvertsen, Kåre; Aarsnes, Jan Vidar; Thunes, Ragnar
**(74)** Griffith Hack

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**(71)** CGG Services SA
**(11)** AU-B-2015268581
**(21)** 2015268581 **(22)** 08.12.2015
**(54)** Apparatus for airborne geophysical prospecting using both natural and controlled source fields and method
**(51)** Int. Cl.
***G01V 3/17*** ( 2006.01 )
**(31)** 62/114,648 **(32)** 11.02.15 **(33)** US
**(43)** 25.08.2016
**(44)** 02.09.2021
**(72)** Miles, Philip
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Citrix Systems, Inc.
**(11)** AU-B-2018330053
**(21)** 2018330053 **(22)** 05.09.2018
**(54)** RDP proxy support in presence of RDP server farm with session directory or broker
**(51)** Int. Cl.
***H04L 29/08*** ( 2006.01 )
***G06F 9/451*** ( 2018.01 )
***G06F 21/41*** ( 2013.01 )
**(87)** WO2019/050905
**(31)** 15/699,892 **(32)** 08.09.17 **(33)** US
**(43)** 14.03.2019
**(44)** 02.09.2021
**(72)** SURESH, Viswanath Yarangatta
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** CJ Cheiljedang Corporation
**(11)** AU-B-2018299607
**(21)** 2018299607 **(22)** 12.07.2018

## Applications Accepted - Name Index cont'd

**(54)** Method Of Recovering Phosphoric Acid From Fermentation Broth Or Fermentation Waste Liquid And Reusing The Same
**(51)** Int. Cl.
***C12P 3/00*** ( 2006.01 )
***C01B 25/234*** ( 2006.01 )
***C12N 9/10*** ( 2006.01 )
**(87)** WO2019/013570
**(31)** 10-2017-0089121 **(32)** 13.07.17 **(33)** KR
**(43)** 17.01.2019
**(44)** 02.09.2021
**(72)** KIM, Jun-Woo; KIM, Jaeik; KIM, Il Chul; LEE, In Sung; KANG, Seung Hoon; KIM, Min Sup; LEE, Kang Hoon; LEE, Seung-je; LEE, Chungkwon; JUNG, Jun Young
**(74)** WRAYS PTY LTD

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**(71)** CJ Cheiljedang Corporation
**(11)** AU-B-2019216084
**(21)** 2019216084 **(22)** 30.01.2019
**(54)** Method for preparing natural L-cysteine hydrochloride hydrate crystals by continuous chromatography
**(51)** Int. Cl.
***C07C 319/28*** ( 2006.01 )
***C07C 323/58*** ( 2006.01 )
***C12P 13/12*** ( 2006.01 )
**(87)** WO2019/151769
**(31)** 10-2018-0012290 **(32)** 31.01.18 **(33)** KR
**(43)** 08.08.2019
**(44)** 02.09.2021
**(72)** KIM, Jun-Woo; LEE, Jung Min; JO, Se-Hee; KIM, Il Chul; LEE, In Sung; JUNG, Jun Young
**(74)** WRAYS PTY LTD

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**(71)** Clariant Produkte (Deutschland) GmbH
**(11)** AU-B-2019290974
**(21)** 2019290974 **(22)** 12.06.2019
**(54)** Method for dealcoholization of beverages
**(51)** Int. Cl.
***C12H 3/04*** ( 2019.01 )
**(87)** WO2019/243144
**(31)** 18178377.0 **(32)** 18.06.18 **(33)** EP
**(43)** 26.12.2019
**(44)** 02.09.2021
**(72)** BANNERT, Sebastian; VERHUELSDONK, Marcus; ZAVREL, Michael; GENSLER, Sven
**(74)** Spruson & Ferguson

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**(71)** Club Gaming Pty Ltd
**(11)** AU-B-2016202967
**(21)** 2016202967 **(22)** 09.05.2016
**(54)** Roulette Gaming Method, System and apparatus
**(51)** Int. Cl.
***A63F 5/00*** ( 2006.01 )
***A63F 13/00*** ( 2006.01 )
***A63F 13/65*** ( 2014.01 )
**(31)** 2015901653 **(32)** 07.05.15 **(33)** AU
**(43)** 24.11.2016
**(44)** 02.09.2021
**(72)** Kohl, Linh; Bruce, Daryl; Croft, David
**(74)** Pini IP

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**(71)** Commonwealth Scientific and Industrial Research Organisation
**(11)** AU-B-2017314763
**(21)** 2017314763 **(22)** 16.08.2017
**(54)** Automatic sedimentation and separation curve generator
**(51)** Int. Cl.
***G01N 15/04*** ( 2006.01 )
***G01N 21/47*** ( 2006.01 )
***G01N 21/59*** ( 2006.01 )
**(87)** WO2018/035558
**(31)** 2016903332 **(32)** 22.08.16 **(33)** AU
**(43)** 01.03.2018
**(44)** 02.09.2021
**(72)** Mohanarangam, Krishna; Monch, Andreas
**(74)** FB Rice Pty Ltd

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**(71)** Compagnie Generale des Etablissements Michelin
**(11)** AU-B-2018342610
**(21)** 2018342610 **(22)** 01.10.2018
**(54)** Aerodynamic mud flap
**(51)** Int. Cl.
***B62D 25/18*** ( 2006.01 )
**(87)** WO2019/068089
**(31)** PCT/US2017/054514 **(32)** 29.09.17 **(33)** US
**(43)** 04.04.2019
**(44)** 02.09.2021
**(72)** MORGAN, Justin; BAXTER, Parker; PAN, Chinglin; BRADLEY, Calvin Rhett; MCPILLAN, Charles Andrew
**(74)** Griffith Hack

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**(71)** Corn Products Development, Inc.
**(11)** AU-B-2016259429
**(21)** 2016259429 **(22)** 18.11.2016
**(54)** MODIFIED POLYSACCHARIDES
**(51)** Int. Cl.
***C07H 23/00*** ( 2006.01 )
**(31)** 15/140,107 **(32)** 27.04.16 **(33)** US
**(43)** 16.11.2017
**(44)** 02.09.2021
**(72)** Bellovin, Christopher; Sheihet, Larisa; Nikolic, Nikola
**(74)** Spruson & Ferguson

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**(71)** Covidien LP
**(11)** AU-B-2020256317
**(21)** 2020256317 **(22)** 13.10.2020
**(54)** Input device assemblies for robotic surgical systems
**(51)** Int. Cl.
***A61B 17/00*** ( 2006.01 )
**(43)** 12.11.2020
**(44)** 02.09.2021
**(62)** 2019210499
**(72)** ALLEN, Robert; ZEMLOK, Michael; SEOW, Chi Min
**(74)** Spruson & Ferguson

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**(71)** Creatv Microtech Inc.
**(11)** AU-B-2016267146
**(21)** 2016267146 **(22)** 26.05.2016
**(54)** Use of circulating tumor cell mitotic index in cancer stratification and diagnostics
**(51)** Int. Cl.
***G01N 33/50*** ( 2006.01 )
***G01N 33/574*** ( 2006.01 )
**(87)** WO2016/191532
**(31)** 62/166,499 **(32)** 26.05.15 **(33)** US
62/330,529 02.05.16 US
**(43)** 01.12.2016
**(44)** 02.09.2021
**(72)** Adams, Daniel; Tang, Cha-Mei
**(74)** Shelston IP Pty Ltd.

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**(71)** Creo Medical Limited
**(11)** AU-B-2017266469
**(21)** 2017266469 **(22)** 19.05.2017
**(54)** Antenna structure
**(51)** Int. Cl.
***A61B 18/04*** ( 2006.01 )
***A61B 18/18*** ( 2006.01 )
***H01Q 11/08*** ( 2006.01 )
**(87)** WO2017/198869
**(31)** 1608872.6 **(32)** 20.05.16 **(33)** GB
**(43)** 23.11.2017
**(44)** 02.09.2021
**(72)** Hancock, Christopher Paul; White, Malcolm; Burn, Patrick
**(74)** AJ PARK

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**(71)** Crossroads Extremity Systems, LLC
**(11)** AU-B-2020201392
**(21)** 2020201392 **(22)** 26.02.2020
**(54)** Bone plates with dynamic elements
**(51)** Int. Cl.
***A61B 17/84*** ( 2006.01 )
**(43)** 12.03.2020
**(44)** 02.09.2021
**(62)** 2019208253
**(72)** Hollis, Chad Michael; Hartdegen, Raymond Vernon; Sayger, Daniel
**(74)** FB Rice Pty Ltd

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**(71)** Cystic Fibrosis Foundation
**(11)** AU-B-2017378324
**(21)** 2017378324 **(22)** 14.12.2017
**(54)** Bycyclic heteroaryl derivatives as CFTR potentiators
**(51)** Int. Cl.
***C07D 487/04*** ( 2006.01 )
***A61K 31/4162*** ( 2006.01 )
***A61K 31/519*** ( 2006.01 )
***A61P 11/00*** ( 2006.01 )
**(87)** WO2018/112149
**(31)** 62/435,253 **(32)** 16.12.16 **(33)** US
**(43)** 21.06.2018
**(44)** 02.09.2021
**(72)** Strohbach, Joseph Walter; Limburg, David Christopher; Mathias, John Paul; Thorarensen, Atli; Mousseau, James John; Denny, Rajiah Aldrin; Zapf, Christoph Wolfgang; Efremov, Ivan Viktorovich
**(74)** Spruson & Ferguson

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**(71)** Cytosorbents Corporation
**(11)** AU-B-2017272021

## Applications Accepted - Name Index cont'd

**(21)** 2017272021 **(22)** 18.05.2017
**(54)** The use of a Hemocompatible porous polymer bead sorbent for removal of Endotoxemia-inducing molecules
**(51)** Int. Cl.
***B01J 20/32*** ( 2006.01 )
***B01D 15/34*** ( 2006.01 )
***B01J 20/28*** ( 2006.01 )
**(87)** WO2017/205166
**(31)** 62/341,676 **(32)** 26.05.16 **(33)** US
**(43)** 30.11.2017
**(44)** 02.09.2021
**(72)** Guliashvili, Tamaz; Golobish, Thomas; Gruda, Maryann; O'Sullivan, Pamela; Scheirer, Andrew; Capponi, Vincent; Chan, Phillip; Young, Wei-Tai
**(74)** Dark IP

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**(71)** Dana-Farber Cancer Institute, Inc.
**(11)** AU-B-2016271519
**(21)** 2016271519 **(22)** 06.06.2016
**(54)** Compositions and methods for transient gene therapy with enhanced stability
**(51)** Int. Cl.
***C12N 15/11*** ( 2006.01 )
***C07K 14/435*** ( 2006.01 )
*C12N 5/00* ( 2006.01 )
**(87)** WO2016/197121
**(31)** 62/171,538 **(32)** 05.06.15 **(33)** US
62/303,116 03.03.16 US
**(43)** 08.12.2016
**(44)** 02.09.2021
**(72)** Goldberg, Michael; Carmona, Ellese
**(74)** Spruson & Ferguson

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**(71)** Dana-Farber Cancer Institute, Inc.
**(11)** AU-B-2019222652
**(21)** 2019222652 **(22)** 13.02.2019
**(54)** Cyclin-dependent kinase degraders and methods of use
**(51)** Int. Cl.
***C07J 43/00*** ( 2006.01 )
**(87)** WO2019/160890
**(31)** 62/629,753 **(32)** 13.02.18 **(33)** US
**(43)** 22.08.2019
**(44)** 02.09.2021
**(72)** GRAY, Nathanael S.; HATCHER, John
**(74)** Spruson & Ferguson

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**(71)** Dan Raz Ltd.
**(11)** AU-B-2017228059
**(21)** 2017228059 **(22)** 02.03.2017
**(54)** Latch arrangement having a handle
**(51)** Int. Cl.
***E05B 63/00*** ( 2006.01 )
**(87)** WO2017/149544
**(31)** 15/059,363 **(32)** 03.03.16 **(33)** US
**(43)** 08.09.2017
**(44)** 02.09.2021
**(72)** Raz, Amir
**(74)** Wallington-Dummer

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**(71)** DEKA Products Limited Partnership
**(11)** AU-B-2019236691
**(21)** 2019236691 **(22)** 26.09.2019
**(54)** Computer-implemented method, system, and apparatus for electronic patient care
**(51)** Int. Cl.
***G06F 15/00*** ( 2006.01 )
***G16H 10/00*** ( 2018.01 )
***G16Z 99/00*** ( 2019.01 )
**(43)** 17.10.2019
**(44)** 02.09.2021
**(62)** 2013364039
**(72)** BIASI, John J.; NEWMAN, Richard M.; PRIBYL, Eric L.; KERWIN, John M.; GUPTA, Rahul
**(74)** Griffith Hack

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**(71)** Dicerna Pharmaceuticals, Inc.
**(11)** AU-B-2015362630
**(21)** 2015362630 **(22)** 15.12.2015
**(54)** Ligand-modified double-stranded nucleic acids
**(51)** Int. Cl.
***C12N 15/11*** ( 2006.01 )
***C12N 15/113*** ( 2010.01 )
**(87)** WO2016/100401
**(31)** 62/092,241 **(32)** 15.12.14 **(33)** US
62/187,856 02.07.15 US
62/092,238 15.12.14 US
62/187,848 02.07.15 US
**(43)** 23.06.2016
**(44)** 02.09.2021
**(72)** Brown, Bob Dale; Wang, Weimin
**(74)** Spruson & Ferguson

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**(71)** Dispersol Technologies, LLC
**(11)** AU-B-2016280280
**(21)** 2016280280 **(22)** 17.06.2016
**(54)** Improved formulations of deferasirox and methods of making the same
**(51)** Int. Cl.
***A61K 31/4196*** ( 2006.01 )
***A61K 9/20*** ( 2006.01 )
***A61K 9/28*** ( 2006.01 )
***A61K 9/50*** ( 2006.01 )
**(87)** WO2016/205658
**(31)** 62/180,998 **(32)** 17.06.15 **(33)** US
**(43)** 22.12.2016
**(44)** 02.09.2021
**(72)** Miller, Dave A.; Keen, Justin M.; Kucera, Sandra U.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Dow AgroSciences LLC
**(11)** AU-B-2017365179
**(21)** 2017365179 **(22)** 22.11.2017
**(54)** Fungicidal compounds and mixtures for fungal control in cereals
**(51)** Int. Cl.
***A01N 43/653*** ( 2006.01 )
***A01N 43/40*** ( 2006.01 )
**(87)** WO2018/098224
**(31)** 62/425,524 **(32)** 22.11.16 **(33)** US
**(43)** 31.05.2018
**(44)** 02.09.2021
**(72)** Colombo, Romain; Biro, Akos; Gallup, Courtney; Kovalova, Iuliia
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Drill Rig Spares Pty Ltd
**(11)** AU-B-2019240550
**(21)** 2019240550 **(22)** 30.09.2019
**(54)** Rod Rotation Apparatus
**(51)** Int. Cl.
***E21B 19/08*** ( 2006.01 )
***B66D 5/00*** ( 2006.01 )
***B66F 11/04*** ( 2006.01 )
***E21B 3/04*** ( 2006.01 )
***E21B 7/02*** ( 2006.01 )
***E21B 15/00*** ( 2006.01 )
***E21B 17/00*** ( 2006.01 )
***E21B 19/24*** ( 2006.01 )
**(43)** 17.10.2019
**(44)** 02.09.2021
**(62)** 2015252751
**(72)** Pitcher, Ian
**(74)** Griffith Hack

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**Drk Blutspendedienst Baden-Wurttemberg-Hessen GgmbH see Johann Wolfgang Goethe-Universitat, Frankfurt am Main**
**(21)** 2015289218

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**Duke University see The Trustees of the University of Pennsylvania**
**(21)** 2015240883

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**(71)** Electrical Home-Aids Pty Ltd
**(11)** AU-B-2016302382
**(21)** 2016302382 **(22)** 21.07.2016
**(54)** A harness and back pack vacuum cleaner therefore
**(51)** Int. Cl.
***A45F 3/14*** ( 2006.01 )
***A47L 5/36*** ( 2006.01 )
**(87)** WO2017/020063
**(31)** 2016900893 **(32)** 10.03.16 **(33)** AU
2015903046 31.07.15 AU
**(43)** 09.02.2017
**(44)** 02.09.2021
**(72)** Duong, Hiep; Scott, David Kim; Starkey, Daniel Mark; Matthew, Shanon
**(74)** Spruson & Ferguson

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**(71)** Electrolux Thailand Co. Ltd
**(11)** AU-B-2015221453
**(21)** 2015221453 **(22)** 01.09.2015
**(54)** A Washing Machine
**(51)** Int. Cl.
***D06F 39/02*** ( 2006.01 )
***D06F 33/00*** ( 2006.01 )
**(43)** 16.03.2017
**(44)** 02.09.2021
**(72)** JADHAV, Pankaj; KHAMPRACHOM, Chatchawan
**(74)** Halfords IP

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**(71)** Eli Lilly and Company
**(11)** AU-B-2018269585
**(21)** 2018269585 **(22)** 11.05.2018
**(54)** BTLA agonist antibodies and uses thereof
**(51)** Int. Cl.

## Applications Accepted - Name Index cont'd

***C07K 16/28*** ( 2006.01 )
**(87)** WO2018/213113
**(31)** 62/508,510 **(32)** 19.05.17 **(33)** US
**(43)** 22.11.2018
**(44)** 02.09.2021
**(72)** Atwell, Shane Krummen; Obungu, Victor H.; Vendel, Andrew Charles
**(74)** WRAYS PTY LTD

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**(71)** Eli Lilly and Company
**(11)** AU-B-2018311804
**(21)** 2018311804 **(22)** 25.07.2018
**(54)** Anti-CD137 antibodies
**(51)** Int. Cl.
***C07K 16/28*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
**(87)** WO2019/027754
**(31)** 62/539,687 **(32)** 01.08.17 **(33)** US
**(43)** 07.02.2019
**(44)** 02.09.2021
**(72)** FRYE, Christopher Carl; KALOS, Michael Dewain; KOTANIDES, Helen; SANDEFUR, Stephanie Lynn
**(74)** Spruson & Ferguson

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**(71)** Eli Lilly and Company
**(11)** AU-B-2019248535
**(21)** 2019248535 **(22)** 29.03.2019
**(54)** Growth differentiation factor 15 agonist compounds and methods of using the same
**(51)** Int. Cl.
***C07K 14/495*** ( 2006.01 )
**(87)** WO2019/195091
**(31)** 62/653,759 **(32)** 06.04.18 **(33)** US
**(43)** 10.10.2019
**(44)** 02.09.2021
**(72)** GONCIARZ, Malgorzata Donata; OBUNGU, Victor H.; PICKARD, Richard Todd
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Ent. Services Development Corporation LP
**(11)** AU-B-2015404396
**(21)** 2015404396 **(22)** 31.07.2015
**(54)** Federated marketplace portal
**(51)** Int. Cl.
***G06Q 30/06*** ( 2012.01 )
***G06Q 50/10*** ( 2012.01 )
**(87)** WO2017/023268
**(43)** 09.02.2017
**(44)** 02.09.2021
**(72)** Doshi, Parag; Kamalakantha, Chandra; Marney, Steve
**(74)** Fraser Old & Sohn

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**(71)** Enzootic Holdings Ltd.
**(11)** AU-B-2016354255
**(21)** 2016354255 **(22)** 10.11.2016
**(54)** A WW homogametic male decapod crustacean and methods of using the same
**(51)** Int. Cl.
***A01K 61/59*** ( 2017.01 )
***A01K 67/033*** ( 2006.01 )
**(87)** WO2017/081690
**(31)** 62/254,264 **(32)** 12.11.15 **(33)** US
**(43)** 18.05.2017
**(44)** 02.09.2021
**(72)** Rosen, Ohad; Shechter, Assaf; Sagi, Amir
**(74)** Collison & Co

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**(71)** Essilor International
**(11)** AU-B-2016338456
**(21)** 2016338456 **(22)** 11.10.2016
**(54)** An ophthalmic progressive addition lens for a myopic and presbyopic wearer; method for providing such a lens
**(51)** Int. Cl.
***G02C 7/02*** ( 2006.01 )
***G02C 7/06*** ( 2006.01 )
**(87)** WO2017/064030
**(31)** 15306644.4 **(32)** 15.10.15 **(33)** EP
**(43)** 20.04.2017
**(44)** 02.09.2021
**(72)** Rousseau, Benjamin; Heslouis, Mélanie; Fricker, Sébastien
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Exeger Operations AB
**(11)** AU-B-2017230039
**(21)** 2017230039 **(22)** 01.03.2017
**(54)** A solar cell comprising grains of a doped semiconducting material and a method for manufacturing the solar cell
**(51)** Int. Cl.
***H01G 9/20*** ( 2006.01 )
**(87)** WO2017/155447
**(31)** 1650331-0 **(32)** 10.03.16 **(33)** SE
**(43)** 14.09.2017
**(44)** 02.09.2021
**(72)** Lindström, Henrik
**(74)** Griffith Hack

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**(71)** F. Hoffmann-La Roche AG
**(11)** AU-B-2020202707
**(21)** 2020202707 **(22)** 22.04.2020
**(54)** Heteroaryl pyridone and aza-pyridone compounds as inhibitors of Btk activity
**(51)** Int. Cl.
***C07D 471/04*** ( 2006.01 )
***A61K 31/381*** ( 2006.01 )
***A61K 31/4353*** ( 2006.01 )
***A61K 31/4985*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***A61P 37/00*** ( 2006.01 )
***C07D 471/14*** ( 2006.01 )
***C07D 487/04*** ( 2006.01 )
***C07D 487/14*** ( 2006.01 )
***C07D 495/04*** ( 2006.01 )
***C07D 519/00*** ( 2006.01 )
**(43)** 14.05.2020
**(44)** 02.09.2021
**(62)** 2019216728
**(72)** CRAWFORD, James John; ORTWINE, Daniel Fred; WEI, BinQing; YOUNG, Wendy B.
**(74)** Griffith Hack

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**(71)** Fairlife, LLC
**(11)** AU-B-2017366923
**(21)** 2017366923 **(22)** 01.12.2017
**(54)** Non-browning lactose-free milk powder and methods of making same
**(51)** Int. Cl.
***A23C 1/16*** ( 2006.01 )
***A23C 1/04*** ( 2006.01 )
***A23C 1/12*** ( 2006.01 )
***A23C 3/03*** ( 2006.01 )
***A23C 9/12*** ( 2006.01 )
***A23C 9/13*** ( 2006.01 )
***A23C 9/142*** ( 2006.01 )
***A23C 9/152*** ( 2006.01 )
**(87)** WO2018/102658
**(31)** 62/429,090 **(32)** 02.12.16 **(33)** US
**(43)** 07.06.2018
**(44)** 02.09.2021
**(72)** Ur Rehman, Shakeel; Kopesky, Brandon; White, Calvin; Backinoff, Scott; Doelman, Timothy Peter
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** FGH Biotech, Inc.
**(11)** AU-B-2017258781
**(21)** 2017258781 **(22)** 28.04.2017
**(54)** Di-substituted pyrazole compounds for the treatment of diseases
**(51)** Int. Cl.
***C07D 401/14*** ( 2006.01 )
***A61K 31/4439*** ( 2006.01 )
***A61K 31/444*** ( 2006.01 )
***A61P 3/00*** ( 2006.01 )
***A61P 9/00*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07D 231/12*** ( 2006.01 )
***C07D 305/08*** ( 2006.01 )
***C07D 307/22*** ( 2006.01 )
***C07D 401/04*** ( 2006.01 )
**(87)** WO2017/190086
**(31)** 62/330,049 **(32)** 29.04.16 **(33)** US
**(43)** 02.11.2017
**(44)** 02.09.2021
**(72)** Huff, Joel; Uesugi, Motonari; Kincaid, John
**(74)** Phillips Ormonde Fitzpatrick

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**FG Innovation Company Limited see Sharp Kabushiki Kaisha**
**(21)** 2017298225

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**(71)** FIORENZATO M.C. SRL
**(11)** AU-B-2016256783
**(21)** 2016256783 **(22)** 10.11.2016
**(54)** Process and apparatus for grinding and dosing coffee beans with automatic and continuous dose calibration
**(51)** Int. Cl.
***A47J 31/42*** ( 2006.01 )
***A47J 42/38*** ( 2006.01 )
**(31)** 102015000071452 **(32)** 11.11.15 **(33)** IT
**(43)** 25.05.2017
**(44)** 02.09.2021
**(72)** Oddera, Manuel
**(74)** Wallington-Dummer

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## Applications Accepted - Name Index cont'd

**(71)** Fisher & Paykel Healthcare Limited
**(11)** AU-B-2016320527
**(21)** 2016320527 **(22)** 09.09.2016
**(54)** Zone heating for respiratory circuits
**(51)** Int. Cl.
***A61M 16/16*** ( 2006.01 )
***F24F 6/00*** ( 2006.01 )
***H01H 35/00*** ( 2006.01 )
***H05B 3/00*** ( 2006.01 )
**(87)** WO2017/043981
**(31)** 62/380,195 **(32)** 26.08.16 **(33)** US
62/216,232 09.09.15 US
**(43)** 16.03.2017
**(44)** 02.09.2021
**(72)** Liu, Po-Yen; Seekup, Peter Alan; Newland, Anthony James; Smith, Malcolm David; Si, Ping; Oosthuysen, Helgard; Wilson, Matthew Robert; Kwan, Ian Lee Wai; Alnashi, Sinaa; Tonkin, Paul James; McCool, Kiel Anthony; Kemps, David Robert; Lin, Yayi; Ross, Callum McDonald; Sims, David John
**(74)** AJ PARK

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**(71)** Fisher & Paykel Healthcare Limited
**(11)** AU-B-2020202424
**(21)** 2020202424 **(22)** 08.04.2020
**(54)** Breathing Assistance Apparatus with Liquid Containment
**(51)** Int. Cl.
***A61M 16/16*** ( 2006.01 )
**(43)** 30.04.2020
**(44)** 02.09.2021
**(62)** 2015211502
**(72)** Sun, Yi-cheng
**(74)** AJ PARK

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**(71)** Fluidsens International Inc.
**(11)** AU-B-2016295720
**(21)** 2016295720 **(22)** 21.07.2016
**(54)** System and method for detection of particles in liquid or in air
**(51)** Int. Cl.
***G01N 21/05*** ( 2006.01 )
***G01N 1/22*** ( 2006.01 )
***G01N 15/06*** ( 2006.01 )
***G01N 21/33*** ( 2006.01 )
***G01N 21/35*** ( 2006.01 )
***G01N 21/85*** ( 2006.01 )
**(87)** WO2017/013653
**(31)** 046217 **(32)** 21.07.15 **(33)** RU
**(43)** 26.01.2017
**(44)** 02.09.2021
**(72)** Keinan, Alex
**(74)** Michael Buck IP

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**(71)** Fred Bergman Healthcare Pty Ltd
**(11)** AU-B-2017223225
**(21)** 2017223225 **(22)** 23.02.2017
**(54)** Faecal detection sensor
**(51)** Int. Cl.
***A61F 13/84*** ( 2006.01 )
***A61F 13/42*** ( 2006.01 )
***A61F 13/44*** ( 2006.01 )
***G01N 27/04*** ( 2006.01 )
***G01N 27/22*** ( 2006.01 )
***G01N 33/48*** ( 2006.01 )
**(87)** WO2017/143396
**(31)** 2016900631 **(32)** 23.02.16 **(33)** AU
**(43)** 31.08.2017
**(44)** 02.09.2021
**(72)** Curran, Peter; Azimi, Mehdi; Mashin-Chi, Hadi; Aigner, Peter; Olkkonen, Juuso; Aura, Anna-Marja; Vaari, Anu; Nyyssölä, Antti; Hakola, Lisa; Smolander, Maria
**(74)** Gestalt Law Pty Ltd

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**(71)** FUJIFILM Corporation
**(11)** AU-B-2018343065
**(21)** 2018343065 **(22)** 19.09.2018
**(54)** Method for producing purified salacia genus plant extract, and purified salacia genus plant extract
**(51)** Int. Cl.
***A61K 36/37*** ( 2006.01 )
***A61P 3/10*** ( 2006.01 )
***A61P 13/02*** ( 2006.01 )
***A61P 17/00*** ( 2006.01 )
***A61P 19/02*** ( 2006.01 )
***A61P 29/00*** ( 2006.01 )
***A61P 43/00*** ( 2006.01 )
*A23L 33/105* ( 2016.01 )
*A61K 125/00* ( 2006.01 )
**(87)** WO2019/065396
**(31)** 2017-189744 **(32)** 29.09.17 **(33)** JP
2018-012452 29.01.18 JP
**(43)** 04.04.2019
**(44)** 02.09.2021
**(72)** IIDA, Atsushi; UEDA, Fumitaka; SAITO, Hitomi
**(74)** Griffith Hack

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**(71)** Fujitsu General Limited
**(11)** AU-B-2016266071
**(21)** 2016266071 **(22)** 02.12.2016
**(54)** Rotary compressor
**(51)** Int. Cl.
***F04C 27/00*** ( 2006.01 )
***F04B 39/04*** ( 2006.01 )
***F04C 18/22*** ( 2006.01 )
***F04C 29/02*** ( 2006.01 )
***F16J 15/02*** ( 2006.01 )
***F25B 31/02*** ( 2006.01 )
**(31)** 2015-249118 **(32)** 21.12.15 **(33)** JP
**(43)** 06.07.2017
**(44)** 02.09.2021
**(72)** Morishita, Taku; Morozumi, Naoya
**(74)** Davies Collison Cave Pty Ltd

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**(71)** FWP IP APS
**(11)** AU-B-2019268052
**(21)** 2019268052 **(22)** 18.11.2019
**(54)** Pharmaceutical composition containing dimethyl fumarate for administration at a low daily dose
**(51)** Int. Cl.
***A61K 9/28*** ( 2006.01 )
***A61K 31/225*** ( 2006.01 )
**(43)** 05.12.2019
**(44)** 02.09.2021
**(62)** 2014314231
**(72)** Andersen, Peder M.; Rundfeldt, Chris; Galetzka, Christin; Rupp, Roland
**(74)** FB Rice Pty Ltd

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**(71)** Gambro Lundia AB
**(11)** AU-B-2016358190
**(21)** 2016358190 **(22)** 16.11.2016
**(54)** Blood treatment apparatus with multiple axis monitor mount
**(51)** Int. Cl.
***A61M 1/16*** ( 2006.01 )
**(87)** WO2017/087481
**(31)** 62/256,876 **(32)** 18.11.15 **(33)** US
**(43)** 26.05.2017
**(44)** 02.09.2021
**(72)** Nadolski, Timothy; O'Mahony, John; Fyten, Stephen R.; Casmey, Michael L.; Bernard, Steve
**(74)** Griffith Hack

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**(71)** General Electric Company
**(11)** AU-B-2017263229
**(21)** 2017263229 **(22)** 03.05.2017
**(54)** Method and system for monitoring health of a hydraulic fluid subsystem
**(51)** Int. Cl.
***G05B 23/02*** ( 2006.01 )
**(87)** WO2017/196600
**(31)** 201641016300 **(32)** 10.05.16 **(33)** IN
**(43)** 16.11.2017
**(44)** 02.09.2021
**(72)** Behera, Ajay Kumar; Keely, Bhasker Rao; Ellson, Nicholas Josep; Clarke, Andrew
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Gen-Probe Incorporated
**(11)** AU-B-2016233298
**(21)** 2016233298 **(22)** 16.03.2016
**(54)** Methods and compositions for detecting bacterial nucleic acid and diagnosing bacterial vaginosis
**(51)** Int. Cl.
***C12Q 1/68*** ( 2006.01 )
**(87)** WO2016/149357
**(31)** 62/133,881 **(32)** 16.03.15 **(33)** US
62/168,405 29.05.15 US
62/168,688 29.05.15 US
**(43)** 22.09.2016
**(44)** 02.09.2021
**(72)** Eaton, Barbara L.; Getman, Damon K.; Pawlowski, Traci
**(74)** FB Rice Pty Ltd

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**(71)** Gen-Probe Incorporated
**(11)** AU-B-2016276576
**(21)** 2016276576 **(22)** 08.06.2016
**(54)** Methods and devices for calibrating and/or monitoring optical measurement devices
**(51)** Int. Cl.
***G01N 21/27*** ( 2006.01 )
***G01N 21/64*** ( 2006.01 )
**(87)** WO2016/200933
**(31)** 62/173,045 **(32)** 09.06.15 **(33)** US
**(43)** 15.12.2016
**(44)** 02.09.2021
**(72)** Hagen, Norbert D.; Opalsky, David; Walker, George T.; Knight, Byron J.
**(74)** FB Rice Pty Ltd

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## Applications Accepted - Name Index cont'd

**(71)** Givaudan SA
**(11)** AU-B-2017233896
**(21)** 2017233896 **(22)** 13.03.2017
**(54)** Flavor delivery system
**(51)** Int. Cl.
***A23L 27/00*** ( 2016.01 )
***A23L 7/126*** ( 2016.01 )
***A23L 7/196*** ( 2016.01 )
***A23L 25/00*** ( 2016.01 )
**(87)** WO2017/157823
**(31)** 62/308,108 **(32)** 14.03.16 **(33)** US
**(43)** 21.09.2017
**(44)** 02.09.2021
**(72)** Chaney, Michael; Ungureanu, Ioana Maria
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Global Industry Products, Corp.
**(11)** AU-B-2018366256
**(21)** 2018366256 **(22)** 09.11.2018
**(54)** An upper body harness with elastic bands for resistance exercises
**(51)** Int. Cl.
***A63B 21/055*** ( 2006.01 )
***A63B 21/00*** ( 2006.01 )
***A63B 21/002*** ( 2006.01 )
**(87)** WO2019/094675
**(31)** 62/707,576 **(32)** 09.11.17 **(33)** US
16/184,872 08.11.18 US
**(43)** 16.05.2019
**(44)** 02.09.2021
**(72)** RANKIN, James Terrell
**(74)** LAMINAR IP PTY LTD

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**(71)** Global Tel*Link Corp.
**(11)** AU-B-2017248316
**(21)** 2017248316 **(22)** 07.04.2017
**(54)** System and method for third party monitoring of voice and video calls
**(51)** Int. Cl.
***H04M 3/00*** ( 2006.01 )
***H04L 12/16*** ( 2006.01 )
**(87)** WO2017/177117
**(31)** 15/093,300 **(32)** 07.04.16 **(33)** US
**(43)** 12.10.2017
**(44)** 02.09.2021
**(72)** Hodge, Stephen Lee
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Google LLC
**(11)** AU-B-2019297413
**(21)** 2019297413 **(22)** 03.07.2019
**(54)** Preparing superpositions of computational basis states on a quantum computer
**(51)** Int. Cl.
***G06N 10/00*** ( 2019.01 )
**(87)** WO2020/010208
**(31)** 62/694,850 **(32)** 06.07.18 **(33)** US
**(43)** 09.01.2020
**(44)** 02.09.2021
**(72)** JIANG, Zhang; BABBUSH, Ryan
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Google LLC
**(11)** AU-B-2020289744
**(21)** 2020289744 **(22)** 15.12.2020
**(54)** MESH NETWORK COMMISSIONING
**(51)** Int. Cl.
***H04W 12/06*** ( 2009.01 )
***H04L 29/06*** ( 2006.01 )
**(43)** 21.01.2021
**(44)** 02.09.2021
**(62)** 2020260392
**(72)** Logue, Jay D.; Erickson, Grant M.; Boross, Christopher A.; Turon, Martin A.
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Greeneden U.S. Holdings II, LLC
**(11)** AU-B-2020201246
**(21)** 2020201246 **(22)** 20.02.2020
**(54)** Data driven speech enabled self-help systems and methods of operating thereof
**(51)** Int. Cl.
***G10L 15/22*** ( 2006.01 )
***G10L 13/08*** ( 2006.01 )
***G10L 15/02*** ( 2006.01 )
***G10L 15/28*** ( 2006.01 )
**(43)** 12.03.2020
**(44)** 02.09.2021
**(62)** 2016291566
**(72)** LEV, Yoni; TAPUHI, Tamir; FAIZAKOF, Avraham; LEV-TOV, Amir; KONIG, Yochai
**(74)** FB Rice Pty Ltd

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**(71)** Guardian Optical Technologies Ltd.
**(11)** AU-B-2015369563
**(21)** 2015369563 **(22)** 27.12.2015
**(54)** System and method for detecting surface vibrations
**(51)** Int. Cl.
***G01B 11/25*** ( 2006.01 )
***G01H 9/00*** ( 2006.01 )
***G02B 27/48*** ( 2006.01 )
***G06K 9/00*** ( 2006.01 )
***G06T 1/00*** ( 2006.01 )
***G06T 7/00*** ( 2006.01 )
**(87)** WO2016/103271
**(31)** 62/097,061 **(32)** 27.12.14 **(33)** US
**(43)** 30.06.2016
**(44)** 02.09.2021
**(72)** Carmon, Gideon
**(74)** WRAYS PTY LTD

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**(71)** Halliburton Energy Services, Inc.
**(11)** AU-B-2015413352
**(21)** 2015413352 **(22)** 29.10.2015
**(54)** Carrier-free treatment particulates for use in subterranean formations
**(51)** Int. Cl.
***E21B 43/22*** ( 2006.01 )
***C09K 8/62*** ( 2006.01 )
***E21B 43/26*** ( 2006.01 )
**(87)** WO2017/074393
**(43)** 04.05.2017
**(44)** 02.09.2021
**(72)** Wei, Fang; Krishnamurthy, Pushkala; Jiang, Ying Cong; Acosta, Erick J.; Stephens, Walter T.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Halliburton Manufacturing and Services Limited
**(11)** AU-B-2017259201
**(21)** 2017259201 **(22)** 02.05.2017
**(54)** Downhole apparatus with a valve arrangement
**(51)** Int. Cl.
***E21B 34/10*** ( 2006.01 )
***E21B 34/14*** ( 2006.01 )
***E21B 43/10*** ( 2006.01 )
**(87)** WO2017/191442
**(31)** 1607710.9 **(32)** 03.05.16 **(33)** GB
**(43)** 09.11.2017
**(44)** 02.09.2021
**(72)** Bruce, Stephen Edmund; Grant, David; Wallace, Scott E.; Smith, Ewan
**(74)** Spruson & Ferguson

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**(71)** Henke-Sass Wolf GmbH
**(11)** AU-B-2016259340
**(21)** 2016259340 **(22)** 16.11.2016
**(54)** Injection device for administration of an injection to an animal
**(51)** Int. Cl.
***A61D 7/00*** ( 2006.01 )
***A61D 1/02*** ( 2006.01 )
***A61M 5/168*** ( 2006.01 )
***A61M 5/42*** ( 2006.01 )
**(31)** 102015122069.5 **(32)** 17.12.15 **(33)** DE
**(43)** 06.07.2017
**(44)** 02.09.2021
**(72)** Raidt, Simon; Altermann, Frank
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Hilti Aktiengesellschaft
**(11)** AU-B-2016320250
**(21)** 2016320250 **(22)** 02.09.2016
**(54)** Line leadthrough with integrated smoke stopper
**(51)** Int. Cl.
***F16L 5/04*** ( 2006.01 )
***H02G 3/04*** ( 2006.01 )
***H02G 3/22*** ( 2006.01 )
**(87)** WO2017/042091
**(31)** 15184600.3 **(32)** 10.09.15 **(33)** EP
**(43)** 16.03.2017
**(44)** 02.09.2021
**(72)** Stroike, Chad; Münzenberger, Herbert
**(74)** Shelston IP Pty Ltd.

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**(71)** Hollister Incorporated
**(11)** AU-B-2017254561
**(21)** 2017254561 **(22)** 19.04.2017
**(54)** Ostomy barrier
**(51)** Int. Cl.
***A61F 5/443*** ( 2006.01 )
***A61F 5/448*** ( 2006.01 )
***A61F 5/449*** ( 2006.01 )
**(87)** WO2017/184690
**(31)** 62/325,184 **(32)** 20.04.16 **(33)** US
**(43)** 26.10.2017
**(44)** 02.09.2021
**(72)** Augustyn, Christina; Botten, Ronald S.; Pheil, Meagan R.; Visconti, Peter L.;

## Applications Accepted - Name Index cont'd

Todd, Russell J.; Sacramento, Lynn; Budorick, Heather M.; Jockel, Mark W.
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Honeywell International Inc.
**(11)** AU-B-2018378330
**(21)** 2018378330 **(22)** 04.12.2018
**(54)** Using machine learning in an industrial control network to improve cybersecurity operations
**(51)** Int. Cl.
***H04L 29/06*** ( 2006.01 )
***G05B 19/418*** ( 2006.01 )
***G06F 21/57*** ( 2013.01 )
**(87)** WO2019/112994
**(31)** 15/830,299 **(32)** 04.12.17 **(33)** US
**(43)** 13.06.2019
**(44)** 02.09.2021
**(72)** MCMURDIE, Kevin; GADHE, Ganesh P.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Howmedica Osteonics Corp.
**(11)** AU-B-2016371425
**(21)** 2016371425 **(22)** 28.11.2016
**(54)** Patient specific instruments and methods for joint prosthesis
**(51)** Int. Cl.
***A61B 17/17*** ( 2006.01 )
***A61B 34/10*** ( 2016.01 )
**(87)** WO2017/105815
**(31)** 62/268,045 **(32)** 16.12.15 **(33)** US
**(43)** 22.06.2017
**(44)** 02.09.2021
**(72)** Mauldin, Richard Garret; Flanagan, Thomas Anthony; Lizee, Emmanuel Francois Marie
**(74)** FB Rice Pty Ltd

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**(71)** HSBC Technology & Services (USA) Inc.
**(11)** AU-B-2019232786
**(21)** 2019232786 **(22)** 17.09.2019
**(54)** Systems and methods for global transfers
**(51)** Int. Cl.
***G06Q 40/04*** ( 2012.01 )
**(43)** 10.10.2019
**(44)** 02.09.2021
**(62)** 2017225150
**(72)** HIBBARD, Mark
**(74)** FB Rice Pty Ltd

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**(71)** Huawei Technologies Co., Ltd.
**(11)** AU-B-2019209716
**(21)** 2019209716 **(22)** 18.01.2019
**(54)** COMMUNICATION METHOD, MCS RECEIVING METHOD, MCS NOTIFICATION METHOD, COMMUNICATIONS APPARATUS, COMMUNICATIONS DEVICE, AND COMPUTER-READABLE STORAGE MEDIUM
**(51)** Int. Cl.
***H04L 1/00*** ( 2006.01 )
**(87)** WO2019/141232
**(31)** 201810467480.0 **(32)** 10.05.18 **(33)** CN
201810302135.1 04.04.18 CN
201810055745.6 19.01.18 CN
**(43)** 25.07.2019
**(44)** 02.09.2021
**(72)** SHAO, Jiafeng; GUAN, Lei; LYU, Yongxia; HU, Dan; SONG, Xinghua
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Huyck Licensco Inc.
**(11)** AU-B-2018277741
**(21)** 2018277741 **(22)** 30.05.2018
**(54)** Pin seamed press felt and method of making same
**(51)** Int. Cl.
***D21F 1/10*** ( 2006.01 )
***D21F 1/00*** ( 2006.01 )
***D21F 7/08*** ( 2006.01 )
**(87)** WO2018/222633
**(31)** 62/512,874 **(32)** 31.05.17 **(33)** US
**(43)** 06.12.2018
**(44)** 02.09.2021
**(72)** Postl, Friedrich; Haiden, Klaus
**(74)** AJ PARK

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**(71)** Hydrow, Inc.
**(11)** AU-B-2019269277
**(21)** 2019269277 **(22)** 03.05.2019
**(54)** Rowing
**(51)** Int. Cl.
***A63B 22/00*** ( 2006.01 )
**(87)** WO2019/221933
**(31)** 15/981,834 **(32)** 16.05.18 **(33)** US
**(43)** 21.11.2019
**(44)** 02.09.2021
**(72)** SMITH, Bruce; PAUL, Chris; EVANS, Christopher; PAWELKA, Gerhard; BURKE, William; QUINTUS-BOSZ, Harald; RENNER, Klaus
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Hyperstem, SA
**(11)** AU-B-2015359043
**(21)** 2015359043 **(22)** 09.12.2015
**(54)** Methods and compositions for reducing growth, migration and invasiveness of brain cancer stem cells and improving survival of patients with brian tumors
**(51)** Int. Cl.
***A61K 39/00*** ( 2006.01 )
**(87)** WO2016/092378
**(31)** 62/090,029 **(32)** 10.12.14 **(33)** US
**(43)** 16.06.2016
**(44)** 02.09.2021
**(72)** Vescovi, Angelo Luigi; Binda, Elena
**(74)** Spruson & Ferguson

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**(71)** Hyprotek, Inc.
**(11)** AU-B-2019253790
**(21)** 2019253790 **(22)** 22.10.2019
**(54)** INTRAVASCULAR LINE AND PORT CLEANING METHODS, METHODS OF ADMINISTERING AN AGENT INTRAVASCULARLY, METHODS OF OBTAINING/TESTING BLOOD, AND DEVICES FOR PERFORMING SUCH METHODS
**(51)** Int. Cl.
***A61M 5/315*** ( 2006.01 )
***A61L 2/18*** ( 2006.01 )
***A61M 5/31*** ( 2006.01 )
***A61M 5/34*** ( 2006.01 )
**(43)** 14.11.2019
**(44)** 02.09.2021
**(62)** 2018200555
**(72)** TENNICAN, Patrick O.
**(74)** Pipers Intellectual Property

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**(71)** Illumina, Inc.
**(11)** AU-B-2019203198
**(21)** 2019203198 **(22)** 07.05.2019
**(54)** Methods And Compositions For Nucleic Acid Sequencing
**(51)** Int. Cl.
***C12N 15/10*** ( 2006.01 )
***C12Q 1/68*** ( 2006.01 )
**(43)** 30.05.2019
**(44)** 02.09.2021
**(62)** 2013382098
**(72)** STEEMERS, Frank; AMINI, Sasan; GUNDERSON, Kevin L.; PIGNATELLI, Natasha; GORYSHIN, Igor
**(74)** WRAYS PTY LTD

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**(71)** ImCyse SA
**(11)** AU-B-2018229741
**(21)** 2018229741 **(22)** 06.03.2018
**(54)** Peptides and methods for the treatment of diabetes
**(51)** Int. Cl.
***C07K 14/62*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
***C12N 9/02*** ( 2006.01 )
**(87)** WO2018/162498
**(31)** 17160085.1 **(32)** 09.03.17 **(33)** EP
**(43)** 13.09.2018
**(44)** 02.09.2021
**(72)** Vander Elst, Luc; Carlier, Vincent; Saint-Remy, Jean-Marie
**(74)** Spruson & Ferguson

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**(71)** Imper S.p.A.
**(11)** AU-B-2015417620
**(21)** 2015417620 **(22)** 16.12.2015
**(54)** Single use capsule for machines for the dispensing of infused beverages
**(51)** Int. Cl.
***B65D 85/804*** ( 2006.01 )
**(87)** WO2017/103952
**(43)** 22.06.2017
**(44)** 02.09.2021
**(72)** Stefanoni, Roberto
**(74)** FB Rice Pty Ltd

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**(71)** InfraBuild Wire Pty Limited
**(11)** AU-B-2016216721
**(21)** 2016216721 **(22)** 19.08.2016
**(54)** STRAND SECURING DEVICE
**(51)** Int. Cl.
***E04H 17/12*** ( 2006.01 )
**(31)** 2015903684 **(32)** 10.09.15 **(33)** AU
**(43)** 30.03.2017
**(44)** 02.09.2021
**(72)** TAYLOR, BRADLEY
**(74)** Griffith Hack

## Applications Accepted - Name Index cont'd

**(71)** InfraBuild Wire Pty Limited
**(11)** AU-B-2016222415
**(21)** 2016222415 **(22)** 31.08.2016
**(54)** Post
**(51)** Int. Cl.
***E04H 17/20*** ( 2006.01 )
***E04H 17/00*** ( 2006.01 )
**(31)** 2015903570 **(32)** 01.09.15 **(33)** AU
**(43)** 16.03.2017
**(44)** 02.09.2021
**(72)** Taylor, Bradley; White, Mark
**(74)** Griffith Hack

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**(71)** Instituto Tecnologico de Canarias, S.A. (ITC)
**(11)** AU-B-2017360017
**(21)** 2017360017 **(22)** 17.11.2017
**(54)** Method for producing a culinary condiment with Dunaliella salina and sea salt
**(51)** Int. Cl.
***A23L 27/10*** ( 2016.01 )
***A23L 27/40*** ( 2016.01 )
***A23L 33/105*** ( 2016.01 )
***A23L 33/155*** ( 2016.01 )
***C12N 1/12*** ( 2006.01 )
**(87)** WO2018/091628
**(31)** P 201631488 **(32)** 18.11.16 **(33)** ES
**(43)** 24.05.2018
**(44)** 02.09.2021
**(72)** Portillo Hahnafeld, Eduardo; Suárez Vega, Antonio; Mendoza Guzmán, Héctor; De La Jara Valido, Adelina; Freijanes Presmanes, Karen; Clemente Janeiro Assunção, Patricia Alexandra; Rodriguez Estupiñan, David
**(74)** Spruson & Ferguson

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**(71)** InterDigital CE Patent Holdings
**(11)** AU-B-2016210615
**(21)** 2016210615 **(22)** 02.08.2016
**(54)** Plenoptic camera and method of controlling the same
**(51)** Int. Cl.
***G03B 35/00*** ( 2006.01 )
***G02B 6/32*** ( 2006.01 )
***G02B 13/06*** ( 2006.01 )
***H04N 5/225*** ( 2006.01 )
**(31)** 15306265.8 **(32)** 04.08.15 **(33)** EP
**(43)** 23.02.2017
**(44)** 02.09.2021
**(72)** DRAZIC, Valter; GALPIN, Franck; SEIFI, Mozhdeh
**(74)** FB Rice Pty Ltd

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**(71)** Intuit Inc.
**(11)** AU-B-2019388601
**(21)** 2019388601 **(22)** 29.07.2019
**(54)** Systems and methods for storing object state on hash chains
**(51)** Int. Cl.
***G06F 16/22*** ( 2019.01 )
***G06F 16/2455*** ( 2019.01 )
***G06F 16/901*** ( 2019.01 )
**(87)** WO2020/112179
**(31)** 16/204,900 **(32)** 29.11.18 **(33)** US
**(43)** 04.06.2020
**(44)** 02.09.2021
**(72)** SCOTT, Glenn Carter; MEIKE, Roger; GABRIEL, Michael Richard
**(74)** Davies Collison Cave Pty Ltd

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**(71)** ISR Immune System Regulation Holding AB (publ)
**(11)** AU-B-2018225389
**(21)** 2018225389 **(22)** 22.02.2018
**(54)** Novel immune stimulating compound
**(51)** Int. Cl.
***C07H 17/08*** ( 2006.01 )
***A61K 31/7052*** ( 2006.01 )
***A61P 31/04*** ( 2006.01 )
***A61P 33/00*** ( 2006.01 )
***A61P 37/04*** ( 2006.01 )
**(87)** WO2018/153957
**(31)** 17157387.6 **(32)** 22.02.17 **(33)** EP
**(43)** 30.08.2018
**(44)** 02.09.2021
**(72)** Winqvist, Ola; Lindh, Emma; Wallin, Robert; Gregory, Matt; Moss, Steven
**(74)** Griffith Hack

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**(71)** Johann Wolfgang Goethe-Universitat, Frankfurt am Main; Drk Blutspendedienst Baden-Wurttemberg-Hessen GgmbH
**(11)** AU-B-2015289218
**(21)** 2015289218 **(22)** 14.07.2015
**(54)** Generation of a mesenchymal stromal cell bank from the pooled mononuclear cells of multiple bone marrow donors
**(51)** Int. Cl.
***C12N 5/0775*** ( 2010.01 )
**(87)** WO2016/008895
**(31)** 14177312.7 **(32)** 16.07.14 **(33)** EP
**(43)** 21.01.2016
**(44)** 02.09.2021
**(72)** Bader, Peter; Kuci, Selim; Kuci, Zyrafete; Bonig, Halvard
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Johnstone, G.
**(11)** AU-B-2021203732
**(21)** 2021203732 **(22)** 19.03.2021
**(54)** A tidal power generation system
**(51)** Int. Cl.
***F03B 13/12*** ( 2006.01 )
***E02B 9/08*** ( 2006.01 )
***F03B 13/26*** ( 2006.01 )
**(31)** 2020900942 **(32)** 27.03.20 **(33)** AU
**(43)** 02.09.2021
**(44)** 02.09.2021
**(72)** JOHNSTONE, Garrie
**(74)** Patentec Patent Attorneys

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**(71)** Kahr Medical Ltd.
**(11)** AU-B-2018205888
**(21)** 2018205888 **(22)** 04.01.2018
**(54)** A PD1-41BBL fusion protein and methods of use thereof
**(51)** Int. Cl.
***C07K 14/705*** ( 2006.01 )
***A61K 38/17*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07K 19/00*** ( 2006.01 )
**(87)** WO2018/127917
**(31)** 62/442,471 **(32)** 05.01.17 **(33)** US
**(43)** 12.07.2018
**(44)** 02.09.2021
**(72)** Tykocinski, Mark L.; Shani, Noam; Gozlan, Yosi; Dranitzki Elhalel, Michal; Bremer, Edwin; Kaminsky, Ido
**(74)** Golja Haines & Friend

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**(71)** Kahr Medical Ltd.
**(11)** AU-B-2018205890
**(21)** 2018205890 **(22)** 04.01.2018
**(54)** A sirpalpha-41BBL fusion protein and methods of use thereof
**(51)** Int. Cl.
***C07K 14/705*** ( 2006.01 )
***A61K 38/17*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07K 19/00*** ( 2006.01 )
**(87)** WO2018/127919
**(31)** 62/442,469 **(32)** 05.01.17 **(33)** US
**(43)** 12.07.2018
**(44)** 02.09.2021
**(72)** Shani, Noam; Gozlan, Yosi; Dranitzki Elhalel, Michal; Bremer, Edwin; Kaminsky, Ido
**(74)** Golja Haines & Friend

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**(71)** KDB INTELLECTUAL PTY LTD
**(11)** AU-B-2020204466
**(21)** 2020204466 **(22)** 03.07.2020
**(54)** SLIDING DOOR
**(51)** Int. Cl.
***E06B 1/12*** ( 2006.01 )
***E05D 15/06*** ( 2006.01 )
***E06B 1/16*** ( 2006.01 )
***E06B 1/18*** ( 2006.01 )
***E06B 1/52*** ( 2006.01 )
***E06B 1/60*** ( 2006.01 )
***E06B 3/46*** ( 2006.01 )
***E06B 3/70*** ( 2006.01 )
***E06B 5/11*** ( 2006.01 )
***E06B 5/16*** ( 2006.01 )
***E06B 5/20*** ( 2006.01 )
***E06B 7/16*** ( 2006.01 )
**(43)** 02.09.2021
**(44)** 02.09.2021
**(72)** EVERETT, TIMOTHY RIVA
**(74)** Houlihan² Pty Ltd

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**(71)** KeepCup Pty Ltd
**(11)** AU-B-2020280116
**(21)** 2020280116 **(22)** 18.05.2020
**(54)** A beverage cup and closure therefor
**(51)** Int. Cl.
***A47G 19/22*** ( 2006.01 )
***B65D 17/34*** ( 2006.01 )
***B65D 43/14*** ( 2006.01 )
***B65D 43/26*** ( 2006.01 )
***B65D 47/20*** ( 2006.01 )
***B65D 47/26*** ( 2006.01 )
***B65D 51/18*** ( 2006.01 )
**(87)** WO2020/232498
**(31)** 2019901749 **(32)** 22.05.19 **(33)** AU
**(43)** 26.11.2020

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**(72)** FORSYTH, Abigail; BEDNARZ, Kate; KRIGSMAN, Marcus; MARSHALL, Graeme; WINDAHL, Lorrin
**(74)** Cotters Patent & Trade Mark Attorneys

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**(71)** Knauf Gips KG
**(11)** AU-B-2017417514
**(21)** 2017417514 **(22)** 08.06.2017
**(54)** Device for closing off an opening, in particular an inspection opening, in a dry building structure
**(51)** Int. Cl.
***E04F 19/08*** ( 2006.01 )
***E04B 9/00*** ( 2006.01 )
**(87)** WO2018/224114
**(43)** 13.12.2018
**(44)** 02.09.2021
**(72)** Günther, Michael; Pfannes, Bernd; Beyer, Claus; Schäfer, Matthias
**(74)** Pipers Intellectual Property

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**(71)** Komatsu Ltd.
**(11)** AU-B-2018394582
**(21)** 2018394582 **(22)** 19.11.2018
**(54)** Management system of work site and management method of work site
**(51)** Int. Cl.
***G01C 21/34*** ( 2006.01 )
***F02D 29/02*** ( 2006.01 )
***F02N 11/08*** ( 2006.01 )
***G06Q 50/02*** ( 2012.01 )
***G07C 3/00*** ( 2006.01 )
**(87)** WO2019/130911
**(31)** 2017-252644 **(32)** 27.12.17 **(33)** JP
**(43)** 04.07.2019
**(44)** 02.09.2021
**(72)** Sudou, Tsugio
**(74)** Shelston IP Pty Ltd.

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**(71)** LacriSciences, LLC
**(11)** AU-B-2016274855
**(21)** 2016274855 **(22)** 10.06.2016
**(54)** Handheld, field portable, surface plasmon resonance apparatus and its applications in the detection of chemical and biological agents
**(51)** Int. Cl.
***G01N 21/552*** ( 2014.01 )
***G01N 23/225*** ( 2006.01 )
***G01N 29/24*** ( 2006.01 )
**(87)** WO2016/201189
**(31)** 62/175,034 **(32)** 12.06.15 **(33)** US
**(43)** 15.12.2016
**(44)** 02.09.2021
**(72)** Cappo, Anthony P.; Sarkar, Diptabhas; Gavaris, Paul T.; Geddes, Chris D.; Ghovanlou, Ali H.
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Lawson, R.
**(11)** AU-B-2016203317
**(21)** 2016203317 **(22)** 20.05.2016
**(54)** Ground Engaging Construction Support
**(51)** Int. Cl.
***E02D 27/01*** ( 2006.01 )
***E02D 5/38*** ( 2006.01 )
***E02D 5/54*** ( 2006.01 )
**(31)** 2015901891 **(32)** 22.05.15 **(33)** AU
**(43)** 08.12.2016
**(44)** 02.09.2021
**(72)** Lawson, Robert
**(74)** Griffith Hack

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**(71)** Ledatron Company Limited
**(11)** AU-B-2016204758
**(21)** 2016204758 **(22)** 08.07.2016
**(54)** Personal evaporative cooling apparatus
**(51)** Int. Cl.
***F24F 6/14*** ( 2006.01 )
**(31)** 14/808,424 **(32)** 24.07.15 **(33)** US
**(43)** 09.02.2017
**(44)** 02.09.2021
**(72)** Chan, Ka Yun
**(74)** FB Rice Pty Ltd

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**(71)** Levo Therapeutics, Inc.
**(11)** AU-B-2019345166
**(21)** 2019345166 **(22)** 20.09.2019
**(54)** Stable intranasal formulations of carbetocin
**(51)** Int. Cl.
***A61K 9/08*** ( 2006.01 )
***A61K 38/095*** ( 2019.01 )
**(87)** WO2020/061414
**(31)** 62/734,152 **(32)** 20.09.18 **(33)** US
62/876,857 22.07.19 US
**(43)** 26.03.2020
**(44)** 02.09.2021
**(72)** MANNING, Mark C.; HOLCOMB, Ryan E.; KATAYAMA, Derrick S.; BRYANT, Christopher
**(74)** RnB IP Pty Ltd

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**(71)** LG Electronics Inc.
**(11)** AU-B-2020200539
**(21)** 2020200539 **(22)** 24.01.2020
**(54)** Laundry treating apparatus
**(51)** Int. Cl.
***D06F 37/10*** ( 2006.01 )
**(31)** 10-2019-0014095 **(32)** 01.02.19 **(33)** KR
10-2019-0060211 22.05.19 KR
**(43)** 20.08.2020
**(44)** 02.09.2021
**(72)** KWON, Yongwoo; CHOI, Yeongkyeong; KIM, Gyuri
**(74)** Dentons Patent Attorneys Australasia Limited

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**(71)** LG ELECTRONICS INC.
**(11)** AU-B-2019204552
**(21)** 2019204552 **(22)** 27.06.2019
**(54)** Apparatus for cultivating plants
**(51)** Int. Cl.
***A01G 9/16*** ( 2006.01 )
**(31)** 10-2019-0018866 **(32)** 18.02.19 **(33)** KR
**(43)** 01.10.2020
**(44)** 02.09.2021
**(72)** OH, Jongmin; LEE, Taeyang
**(74)** Dentons Patent Attorneys Australasia Limited

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**(71)** Li, B.
**(11)** AU-B-2018220066
**(21)** 2018220066 **(22)** 22.08.2018
**(54)** Improvements in or in relation to food preparation
**(51)** Int. Cl.
***A47J 37/07*** ( 2006.01 )
**(31)** CN2017304502919 **(32)** 21.09.17 **(33)** CN
**(43)** 04.04.2019
**(44)** 02.09.2021
**(72)** Li, Buyun
**(74)** Intellepro

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**see The Trustees of the University of Pennsylvania**
**(21)** 2015240883

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**(71)** Lumendi Ltd.
**(11)** AU-B-2016341269
**(21)** 2016341269 **(22)** 20.10.2016
**(54)** Medical instruments for performing minimally-invasive procedures
**(51)** Int. Cl.
***A61B 17/29*** ( 2006.01 )
**(87)** WO2017/068074
**(31)** 62/400,759 **(32)** 28.09.16 **(33)** US
62/244,026 20.10.15 US
**(43)** 27.04.2017
**(44)** 02.09.2021
**(72)** O'Keefe, Jonathan; Cerier, Jeffrey; Cruz, Amos; Rezac, David
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** LUMI-PLUGIN LTD
**(11)** AU-B-2018336745
**(21)** 2018336745 **(22)** 07.09.2018
**(54)** A modular lighting fixture
**(51)** Int. Cl.
***F21S 8/02*** ( 2006.01 )
***F21V 17/00*** ( 2006.01 )
***F21V 23/02*** ( 2006.01 )
***F21V 25/12*** ( 2006.01 )
***F21V 33/00*** ( 2006.01 )
*F21V 17/10* ( 2006.01 )
*F21V 21/04* ( 2006.01 )
*F21Y 103/33* ( 2016.01 )
*F21Y 115/10* ( 2016.01 )
**(87)** WO2019/057526
**(31)** 1715056.6 **(32)** 19.09.17 **(33)** GB
**(43)** 28.03.2019
**(44)** 02.09.2021
**(72)** WARD, Bob
**(74)** Baxter Patent Attorneys Pty Ltd

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**(71)** Magenta Medical Ltd.
**(11)** AU-B-2020201055
**(21)** 2020201055 **(22)** 13.02.2020
**(54)** Renal pump
**(51)** Int. Cl.
***A61B 5/02*** ( 2006.01 )
***A61B 5/021*** ( 2006.01 )
***A61B 17/22*** ( 2006.01 )
**(43)** 05.03.2020

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**(62)** 2019202647
**(72)** SCHWAMMENTHAL, Ehud; TUVAL, Yosi; GLOZMAN, Daniel
**(74)** Spruson & Ferguson

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**(71)** Magic Leap, Inc.
**(11)** AU-B-2016278006
**(21)** 2016278006 **(22)** 14.06.2016
**(54)** Virtual and augmented reality systems and methods
**(51)** Int. Cl.
***G02F 1/1335*** ( 2006.01 )
***C09K 19/52*** ( 2006.01 )
***G02B 5/18*** ( 2006.01 )
**(87)** WO2016/205249
**(31)** 62/180,551 **(32)** 16.06.15 **(33)** US
62/175,994 15.06.15 US
**(43)** 22.12.2016
**(44)** 02.09.2021
**(72)** Klug, Michael Anthony; Schowengerdt, Brian T.; Miller, Michael Nevin; Singh, Vikramjit; Peroz, Christophe; St. Hilaire, Pierre; Sun, Jie
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Mahfouz, M.
**(11)** AU-B-2019257418
**(21)** 2019257418 **(22)** 30.10.2019
**(54)** Bone reconstruction and orthopedic implants
**(51)** Int. Cl.
***A61F 2/30*** ( 2006.01 )
**(43)** 21.11.2019
**(44)** 02.09.2021
**(62)** 2018253490
**(72)** Mahfouz, Mohamed Rashwan
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Mayo Foundation for Medical Education and Research
**(11)** AU-B-2015259094
**(21)** 2015259094 **(22)** 14.05.2015
**(54)** Cell culture media compositions for primary cells
**(51)** Int. Cl.
***C12N 5/071*** ( 2010.01 )
***C12N 5/00*** ( 2006.01 )
***C12N 5/0775*** ( 2010.01 )
**(87)** WO2015/175807
**(31)** 61/994,637 **(32)** 16.05.14 **(33)** US
**(43)** 19.11.2015
**(44)** 02.09.2021
**(72)** Dietz, Allan B.; Knutson, Gaylord
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** McDonald, P.M.
**(11)** AU-B-2016340033
**(21)** 2016340033 **(22)** 13.10.2016
**(54)** Holding apparatus
**(51)** Int. Cl.
***B60R 7/14*** ( 2006.01 )
***F41A 23/26*** ( 2006.01 )
**(87)** WO2017/063039
**(31)** 2015904199 **(32)** 14.10.15 **(33)** AU
**(43)** 20.04.2017
**(44)** 02.09.2021
**(72)** McDonald, Peter Michael
**(74)** Spruson & Ferguson

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**(71)** Medigene Immunotherapies GmbH
**(11)** AU-B-2017431122
**(21)** 2017431122 **(22)** 05.09.2017
**(54)** Dendritic cell potency assay
**(51)** Int. Cl.
***G01N 33/68*** ( 2006.01 )
***A61K 35/15*** ( 2015.01 )
***C12N 5/0784*** ( 2010.01 )
**(87)** WO2019/048026
**(43)** 14.03.2019
**(44)** 02.09.2021
**(72)** SCHENDEL, Dolores; ECKL, Judith; GEIGER, Christiane; RÖMER, Isabel
**(74)** Allens Patent & Trade Mark Attorneys

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**(71)** MedImmune Limited
**(11)** AU-B-2019204419
**(21)** 2019204419 **(22)** 24.06.2019
**(54)** COMPOSITIONS FEATURING AN ATTENUATED NEWCASTLE DISEASE VIRUS AND METHODS OF USE FOR TREATING NEOPLASIA
**(51)** Int. Cl.
***C12N 15/86*** ( 2006.01 )
***A61K 35/76*** ( 2006.01 )
***C07K 14/535*** ( 2006.01 )
**(43)** 11.07.2019
**(44)** 02.09.2021
**(62)** 2014317215
**(72)** Cheng, Xing; Carroll, Danielle; McCourt, Matthew; Galinski, Mark; Jin, Hong
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** MELCHOR CONTRACTING PTY LTD
**(11)** AU-B-2018202577
**(21)** 2018202577 **(22)** 12.04.2018
**(54)** A device and method for supporting a post
**(51)** Int. Cl.
***E04H 12/00*** ( 2006.01 )
**(43)** 31.10.2019
**(44)** 02.09.2021
**(72)** Headd, Martin
**(74)** Northern Lights IP

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**(71)** Millet Innovation
**(11)** AU-B-2016347778
**(21)** 2016347778 **(22)** 12.10.2016
**(54)** Bandage for immobilising or holding a joint
**(51)** Int. Cl.
***A61F 13/06*** ( 2006.01 )
***A61F 5/01*** ( 2006.01 )
**(87)** WO2017/077206
**(31)** 1560643 **(32)** 06.11.15 **(33)** FR
**(43)** 11.05.2017
**(44)** 02.09.2021
**(72)** Millet, Damien
**(74)** Griffith Hack

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**(71)** Mirati Therapeutics, Inc.; Array BioPharma, Inc.
**(11)** AU-B-2017266911
**(21)** 2017266911 **(22)** 17.05.2017
**(54)** KRas G12C inhibitors
**(51)** Int. Cl.
***C07D 231/56*** ( 2006.01 )
***A61K 31/445*** ( 2006.01 )
***C07D 295/185*** ( 2006.01 )
**(87)** WO2017/201161
**(31)** 62/444,614 **(32)** 10.01.17 **(33)** US
62/338,116 18.05.16 US
**(43)** 23.11.2017
**(44)** 02.09.2021
**(72)** Fischer, John P.; Fell, Jay Bradford; Blake, James F.; Hinklin, Ronald Jay; Mejia, Macedonio J.; Hicken, Erik James; Chicarelli, Mark Joseph; Gaudino, John J.; Vigers, Guy P.A.; Burgess, Laurence E.; Marx, Matthew Arnold; Christensen, James Gail; Lee, Matthew Randolf; Savechenkov, Pavel; Zecca, Henry J.; Tang, Tony P.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Mitsubishi Electric Corporation
**(11)** AU-B-2017436875
**(21)** 2017436875 **(22)** 26.10.2017
**(54)** External connection unit and device control system
**(51)** Int. Cl.
***H04W 48/16*** ( 2009.01 )
***H04W 84/12*** ( 2009.01 )
***H04W 88/02*** ( 2009.01 )
**(87)** WO2019/082336
**(43)** 02.05.2019
**(44)** 02.09.2021
**(72)** SHIGEYOSHI, Yuya; HASHIMOTO, Kentaro; HIRANO, Makoto
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Mobileye Vision Technologies Ltd.
**(11)** AU-B-2016219343
**(21)** 2016219343 **(22)** 10.02.2016
**(54)** Sparse map for autonomous vehicle navigation
**(51)** Int. Cl.
***G01C 21/32*** ( 2006.01 )
**(87)** WO2016/130719
**(31)** 62/114,091 **(32)** 10.02.15 **(33)** US
62/164,055 20.05.15 US
62/192,576 15.07.15 US
62/215,764 09.09.15 US
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62/275,046 05.01.16 US
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62/261,598 01.12.15 US
62/261,578 01.12.15 US
62/219,733 17.09.15 US
62/270,431 21.12.15 US
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62/269,818 18.12.15 US
**(43)** 18.08.2016

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**(72)** Shashua, Amnon; Gdalyahu, Yoram; Springer, Ofer; Reisman, Aran; Braunstein, Daniel; Buberman, Ori; Shalev-Shwartz, Shai; Taieb, Yoav; Tubis, Igor; Huberman, David; Bellaiche, Levi; Stein, Gideon; Ferencz, Andras; Hayon, Gaby; Rubinsky, Sergey; Aviel, Yuval
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Molecular Templates, Inc.
**(11)** AU-B-2020201807
**(21)** 2020201807 **(22)** 12.03.2020
**(54)** De-immunized, Shiga toxin A Subunit scaffolds and cell-targeting molecules comprising the same
**(51)** Int. Cl.
***C07K 14/25*** ( 2006.01 )
**(43)** 02.04.2020
**(44)** 02.09.2021
**(62)** 2016271124
**(72)** Poma, Eric; Willert, Erin; Robinson, Garrett Lee; Rajagopalan, Sangeetha; Brieschke, Brigitte
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Moovit App Global Ltd.
**(11)** AU-B-2018287014
**(21)** 2018287014 **(22)** 18.06.2018
**(54)** System and method for determining transit stop location
**(51)** Int. Cl.
***G01C 21/34*** ( 2006.01 )
***G01C 21/36*** ( 2006.01 )
***G08G 1/123*** ( 2006.01 )
**(87)** WO2018/235075
**(31)** 62/521,451 **(32)** 18.06.17 **(33)** US
**(43)** 27.12.2018
**(44)** 02.09.2021
**(72)** GALON, Binyamin; BEZALEL, Nir; BICK, Roy
**(74)** James & Wells Intellectual Property

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**(71)** Motorola Solutions, Inc.
**(11)** AU-B-2019388834
**(21)** 2019388834 **(22)** 20.11.2019
**(54)** Device, system and method for providing audio summarization data from video
**(51)** Int. Cl.
***G06K 9/00*** ( 2006.01 )
***G08B 13/194*** ( 2006.01 )
***H04L 29/06*** ( 2006.01 )
***H04N 7/18*** ( 2006.01 )
**(87)** WO2020/112452
**(31)** 16/205,786 **(32)** 30.11.18 **(33)** US
**(43)** 04.06.2020
**(44)** 02.09.2021
**(72)** ONG, Yan Pin; KHEW, Fan Sin; CHIN, Wei Sheng; ONG, ZhenYang; NG, Chiew Yeong; KHOR, Choon Chiat
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** MRCB Innovations SDN. BHD.
**(11)** AU-B-2017367555
**(21)** 2017367555 **(22)** 04.12.2017
**(54)** Connection system and method for prefabricated volumetric construction modules
**(51)** Int. Cl.
***E04B 1/38*** ( 2006.01 )
***E04B 1/348*** ( 2006.01 )
***E04B 1/61*** ( 2006.01 )
*E04B 1/19* ( 2006.01 )
**(87)** WO2018/101891
**(31)** 10201707728X **(32)** 19.09.17 **(33)** SG
10201610152Q 02.12.16 SG
**(43)** 07.06.2018
**(44)** 02.09.2021
**(72)** Poh, Qi Pin; Kang, Choon Boon; Seow, Seng Wei
**(74)** Griffith Hack

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**(71)** Myriota Pty Ltd
**(11)** AU-B-2017223223
**(21)** 2017223223 **(22)** 24.02.2017
**(54)** Terminal scheduling method in satellite communication system
**(51)** Int. Cl.
***G01S 19/27*** ( 2010.01 )
***G01S 19/13*** ( 2010.01 )
***G01S 19/34*** ( 2010.01 )
***H01Q 3/00*** ( 2006.01 )
**(87)** WO2017/143388
**(31)** 2016900685 **(32)** 25.02.16 **(33)** AU
**(43)** 31.08.2017
**(44)** 02.09.2021
**(72)** Haley, David Victor Lawrie; Grant, Alexander James
**(74)** Madderns Pty Ltd

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**(71)** Nemaska Lithium Inc.
**(11)** AU-B-2019210218
**(21)** 2019210218 **(22)** 29.07.2019
**(54)** Processes for preparing lithium hydroxide
**(51)** Int. Cl.
***C25B 1/16*** ( 2006.01 )
***B01D 61/46*** ( 2006.01 )
***C25B 9/00*** ( 2006.01 )
**(43)** 15.08.2019
**(44)** 02.09.2021
**(62)** 2017258936
**(72)** Magnan, Jean-Francois; Bourassa, Guy; Pearse, Gary; Symons, Peter; Genders, J. David; Bar, Daniel; Langevin, Marie-Eve
**(74)** Shelston IP Pty Ltd.

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**(71)** Neurosense Therapeutics Ltd.
**(11)** AU-B-2018287021
**(21)** 2018287021 **(22)** 20.06.2018
**(54)** Compositions comprising an anti-inflammatory drug and a dicer activator for use in the treatment of neuronal diseases
**(51)** Int. Cl.
***A61K 45/06*** ( 2006.01 )
***A61K 31/415*** ( 2006.01 )
***A61K 31/47*** ( 2006.01 )
***A61K 31/496*** ( 2006.01 )
***A61P 25/00*** ( 2006.01 )
***A61P 25/14*** ( 2006.01 )
***A61P 25/16*** ( 2006.01 )
***A61P 25/28*** ( 2006.01 )
***A61P 27/02*** ( 2006.01 )
**(87)** WO2018/235082
**(31)** 62/522,157 **(32)** 20.06.17 **(33)** US
**(43)** 27.12.2018
**(44)** 02.09.2021
**(72)** BEN-NOON, Alon
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Nexwriter Limited
**(11)** AU-B-2020203094
**(21)** 2020203094 **(22)** 11.05.2020
**(54)** Color Coding of Phrases within a Document to Indicate Change History
**(51)** Int. Cl.
***G06F 40/169*** ( 2020.01 )
***G06F 3/048*** ( 2013.01 )
***G06F 9/44*** ( 2018.01 )
***G06F 16/93*** ( 2019.01 )
***G06Q 10/10*** ( 2012.01 )
***G06Q 50/18*** ( 2012.01 )
**(43)** 28.05.2020
**(44)** 02.09.2021
**(62)** 2016354092
**(72)** PORTIL, Rob; THEODORE, James Chance
**(74)** FPA Patent Attorneys Pty Ltd

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**(71)** Nicoventures Trading Limited
**(11)** AU-B-2019244383
**(21)** 2019244383 **(22)** 27.03.2019
**(54)** A control device for an electronic aerosol provision system
**(51)** Int. Cl.
***A24F 47/00*** ( 2006.01 )
***A61M 11/04*** ( 2006.01 )
***A61M 15/06*** ( 2006.01 )
**(87)** WO2019/186147
**(31)** 1805169.8 **(32)** 29.03.18 **(33)** GB
**(43)** 03.10.2019
**(44)** 02.09.2021
**(72)** MOLONEY, Patrick; KORUS, Anton; CHAN, Justin Han Yang
**(74)** Shelston IP Pty Ltd.

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**(71)** Ningbo Careline Electric Appliance Co., Ltd.
**(11)** AU-B-2020277208
**(21)** 2020277208 **(22)** 26.11.2020
**(54)** Steam-type Air Fryer
**(51)** Int. Cl.
***A47J 27/04*** ( 2006.01 )
**(31)** 202010219197.3 **(32)** 25.03.20 **(33)** CN
202020902332.X 26.05.20 CN
202020395385.7 25.03.20 CN
202020395405.0 25.03.20 CN
202020396395.2 25.03.20 CN
202020395410.1 25.03.20 CN
**(43)** 02.09.2021
**(44)** 02.09.2021
**(72)** Zhang, Yichi
**(74)** James & Wells Intellectual Property

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**(71)** Ningbo Senscure Biotechnology Co., Ltd.
**(11)** AU-B-2019284321
**(21)** 2019284321 **(22)** 13.06.2019

## Applications Accepted - Name Index cont'd

**(54)** Detachable endoscopic anastomosis clamp
**(51)** Int. Cl.
***A61B 17/122*** ( 2006.01 )
**(87)** WO2019/238094
**(31)** 201810614849.6 **(32)** 14.06.18 **(33)** CN
**(43)** 19.12.2019
**(44)** 02.09.2021
**(72)** ZHONG, Hao; CHEN, Zhimin; LV, Shiwen
**(74)** Madderns Pty Ltd

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**(71)** Nitto Kohki Co., Ltd.
**(11)** AU-B-2019230285
**(21)** 2019230285 **(22)** 20.02.2019
**(54)** Handle device and punching machine
**(51)** Int. Cl.
***G05G 1/04*** ( 2006.01 )
***B23B 45/00*** ( 2006.01 )
***B25F 5/02*** ( 2006.01 )
**(87)** WO2019/171950
**(31)** 2018-042375 **(32)** 08.03.18 **(33)** JP
**(43)** 12.09.2019
**(44)** 02.09.2021
**(72)** YOKOYAMA, Toshiki
**(74)** Madderns Pty Ltd

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**(71)** NMC, Inc.
**(11)** AU-B-2015292616
**(21)** 2015292616 **(22)** 22.07.2015
**(54)** Improved carbon fixation systems in plants and algae
**(51)** Int. Cl.
***C12N 1/12*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
**(87)** WO2016/014720
**(31)** 62/027,354 **(32)** 22.07.14 **(33)** US
**(43)** 28.01.2016
**(44)** 02.09.2021
**(72)** Sayre, Richard Thomas; Subramanian, Somya S.; Friedland, Natalia
**(74)** Spruson & Ferguson

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**(71)** Novartis AG; The Trustees of the University of Pennsylvania
**(11)** AU-B-2015374296
**(21)** 2015374296 **(22)** 28.12.2015
**(54)** Methods of making chimeric antigen receptor-expressing cells
**(51)** Int. Cl.
***C12N 5/00*** ( 2006.01 )
***C07K 14/725*** ( 2006.01 )
***C12N 5/0783*** ( 2010.01 )
*A61K 39/00* ( 2006.01 )
**(87)** WO2016/109410
**(31)** 62/097,375 **(32)** 29.12.14 **(33)** US
62/133,137 13.03.15 US
**(43)** 07.07.2016
**(44)** 02.09.2021
**(72)** Bedoya, Felipe; Ghassemi, Saba; June, Carl H.; Levine, Bruce L.; Melenhorst, Jan J; Milone, Michael C.; Powell Jr., Daniel J.; Zheng, Zoe
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Novartis AG
**(11)** AU-B-2017254523
**(21)** 2017254523 **(22)** 18.04.2017
**(54)** Compounds and compositions for treating conditions associated with NLRP activity
**(51)** Int. Cl.
***C07D 333/34*** ( 2006.01 )
***A61K 31/341*** ( 2006.01 )
***A61P 35/00*** ( 2006.01 )
***C07D 263/46*** ( 2006.01 )
***C07D 277/36*** ( 2006.01 )
***C07D 307/64*** ( 2006.01 )
***C07D 405/12*** ( 2006.01 )
***C07D 417/12*** ( 2006.01 )
**(87)** WO2017/184624
**(31)** 62/324,081 **(32)** 18.04.16 **(33)** US
62/324,071 18.04.16 US
**(43)** 26.10.2017
**(44)** 02.09.2021
**(72)** Glick, Gary; Ghosh, Shomir; Roush, William R.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Novartis AG
**(11)** AU-B-2019280026
**(21)** 2019280026 **(22)** 12.12.2019
**(54)** Galenic formulations of organic compounds
**(51)** Int. Cl.
***A61K 9/20*** ( 2006.01 )
***A61K 9/28*** ( 2006.01 )
***A61K 9/48*** ( 2006.01 )
***A61K 31/216*** ( 2006.01 )
***A61K 31/41*** ( 2006.01 )
**(43)** 16.01.2020
**(44)** 02.09.2021
**(62)** 2017215530
**(72)** Winzenburg, Gesine; Trueby, Bernd; Chen, Fabian; Ayalasomayajula, Surya Prakash; Bush, Christopher; Berkhin, Masha
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Novatel Inc.
**(11)** AU-B-2017263727
**(21)** 2017263727 **(22)** 10.01.2017
**(54)** Stacked patch antennas using dielectric substrates with patterned cavities
**(51)** Int. Cl.
***H01Q 1/38*** ( 2006.01 )
***G01S 19/36*** ( 2010.01 )
***H01Q 9/04*** ( 2006.01 )
***H05K 1/03*** ( 2006.01 )
***H05K 3/42*** ( 2006.01 )
**(87)** WO2017/193206
**(31)** 15/151,122 **(32)** 10.05.16 **(33)** US
**(43)** 16.11.2017
**(44)** 02.09.2021
**(72)** Yang, Ning
**(74)** Spruson & Ferguson

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**(71)** Olipass Corporation
**(11)** AU-B-2017385962
**(21)** 2017385962 **(22)** 29.12.2017
**(54)** Exon skipping by peptide nucleic acid derivatives
**(51)** Int. Cl.
***C07K 14/00*** ( 2006.01 )
***A61K 38/00*** ( 2006.01 )
***C12N 15/113*** ( 2010.01 )
**(87)** WO2018/122610
**(31)** 62/440,929 **(32)** 30.12.16 **(33)** US
**(43)** 05.07.2018
**(44)** 02.09.2021
**(72)** Chung, Shin; Jung, Daram; Cho, Bongjun; Jang, Kangwon; Yoon, Heungsik
**(74)** Pearce IP Pty Ltd

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**(71)** OMS Investments, Inc.
**(11)** AU-B-2017252461
**(21)** 2017252461 **(22)** 21.04.2017
**(54)** Compositions of a quaternary ammonium compound with a monocarboxylic fatty acid
**(51)** Int. Cl.
***A01N 25/30*** ( 2006.01 )
***A01P 3/00*** ( 2006.01 )
**(87)** WO2017/185000
**(31)** 62/325,550 **(32)** 21.04.16 **(33)** US
**(43)** 26.10.2017
**(44)** 02.09.2021
**(72)** Chia, James Liang-Hiong; Dammann, Laurence G.; Hurak, Doug; Koenig, John; Faust, Mike
**(74)** AJ PARK

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**(71)** OptiPulse Inc.
**(11)** AU-B-2016298390
**(21)** 2016298390 **(22)** 29.07.2016
**(54)** Rigid high power and high speed lasing grid structures
**(51)** Int. Cl.
***H01S 5/022*** ( 2006.01 )
***H01L 21/3213*** ( 2006.01 )
***H01S 5/183*** ( 2006.01 )
***H01S 5/42*** ( 2006.01 )
**(87)** WO2017/019990
**(31)** 62/272,242 **(32)** 29.12.15 **(33)** US
62/199,117 30.07.15 US
**(43)** 02.02.2017
**(44)** 02.09.2021
**(72)** Joseph, John Richard
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Ovokaitys, T.
**(11)** AU-B-2016353347
**(21)** 2016353347 **(22)** 11.11.2016
**(54)** Methods and systems for generation, use, and delivery of activated stem cells
**(51)** Int. Cl.
***A61L 31/18*** ( 2006.01 )
**(87)** WO2017/083755
**(31)** 62/321,781 **(32)** 13.04.16 **(33)** US
62/254,220 12.11.15 US
**(43)** 18.05.2017
**(44)** 02.09.2021
**(72)** Ovokaitys, Todd Frank; Strachan, John Scott
**(74)** WRAYS PTY LTD

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**(71)** Parachur, V.
**(11)** AU-B-2016263309
**(21)** 2016263309 **(22)** 14.05.2016

## Applications Accepted - Name Index cont'd

**(54)** A highly concentrated powdered oleoresin composition and process for preparation thereof
**(51)** Int. Cl.
***A61K 36/00*** ( 2006.01 )
***A61K 9/14*** ( 2006.01 )
**(87)** WO2016/185488
**(31)** 2463/CHE/2015 **(32)** 15.05.15 **(33)** IN
**(43)** 24.11.2016
**(44)** 02.09.2021
**(72)** Parachur, Vivek Anand; Ravichandran, Sripathy; Panda, Sanjib Kumar
**(74)** Acumen Intellectual Property

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**(71)** PepsiCo, Inc.
**(11)** AU-B-2016358127
**(21)** 2016358127 **(22)** 18.11.2016
**(54)** Beverage dispenser systems and methods
**(51)** Int. Cl.
***A47J 31/40*** ( 2006.01 )
***A47J 31/44*** ( 2006.01 )
***B65D 85/804*** ( 2006.01 )
***B67D 1/14*** ( 2006.01 )
**(87)** WO2017/087874
**(31)** 14/947,636 **(32)** 20.11.15 **(33)** US
**(43)** 26.05.2017
**(44)** 02.09.2021
**(72)** Nachawati, Maher
**(74)** Spruson & Ferguson

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**(71)** Pfizer Inc.
**(11)** AU-B-2017208834
**(21)** 2017208834 **(22)** 10.01.2017
**(54)** Chimeric Antigen Receptors targeting Epidermal Growth Factor Receptor Variant III
**(51)** Int. Cl.
***C07K 14/47*** ( 2006.01 )
***A61K 38/00*** ( 2006.01 )
***A61K 48/00*** ( 2006.01 )
***C07K 16/28*** ( 2006.01 )
***C07K 16/30*** ( 2006.01 )
**(87)** WO2017/125830
**(31)** 62/431,758 **(32)** 08.12.16 **(33)** US
62/281,533 21.01.16 US
**(43)** 27.07.2017
**(44)** 02.09.2021
**(72)** Wong, Oi Kwan; Chou, Joyce Ching; Dusseaux, Mathilde Brunnhilde; Smith, Julianne; Sasu, Barbra Johnson
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Pfizer Inc.
**(11)** AU-B-2017374860
**(21)** 2017374860 **(22)** 01.12.2017
**(54)** GLP-1 receptor agonists and uses thereof
**(51)** Int. Cl.
***C07D 401/14*** ( 2006.01 )
***A61K 31/4427*** ( 2006.01 )
***A61K 31/497*** ( 2006.01 )
***A61P 3/00*** ( 2006.01 )
***C07D 405/14*** ( 2006.01 )
***C07D 413/14*** ( 2006.01 )
***C07D 471/04*** ( 2006.01 )
***C07D 487/04*** ( 2006.01 )
**(87)** WO2018/109607
**(31)** 62/435,533 **(32)** 16.12.16 **(33)** US
**(43)** 21.06.2018
**(44)** 02.09.2021
**(72)** Aspnes, Gary Erik; Bagley, Scott W.; Curto, John M.; Dowling, Matthew S.; Edmonds, David James; Flanagan, Mark E.; Futatsugi, Kentaro; Griffith, David A.; Huard, Kim; Ingle, Gajendra; Jiao, Wenhua; Limberakis, Chris; Mathiowetz, Alan M.; Piotrowski, David W.; Ruggeri, Roger B.
**(74)** Shelston IP Pty Ltd.

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**(71)** Pharis Biotec GmbH
**(11)** AU-B-2017358552
**(21)** 2017358552 **(22)** 08.11.2017
**(54)** Protransducine-C: gene transfer activator
**(51)** Int. Cl.
***C07K 14/16*** ( 2006.01 )
***A61K 38/00*** ( 2006.01 )
***A61K 38/16*** ( 2006.01 )
**(87)** WO2018/087146
**(31)** 16197999.2 **(32)** 09.11.16 **(33)** EP
16198256.6 10.11.16 EP
**(43)** 17.05.2018
**(44)** 02.09.2021
**(72)** Forssmann, Wolf-Georg; Richter, Rudolf
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Pond, R.
**(11)** AU-B-2019272015
**(21)** 2019272015 **(22)** 28.11.2019
**(54)** ELECTRONICALLY CUSTOMIZABLE ARTICLES
**(51)** Int. Cl.
***A41D 1/00*** ( 2018.01 )
***H04R 1/02*** ( 2006.01 )
**(43)** 19.12.2019
**(44)** 02.09.2021
**(62)** 2017268506
**(72)** Pond, Renee
**(74)** Acacia Law

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**President and Fellows of Harvard College see Brigham and Women's Hospital, Inc.**
**(21)** 2020201355

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**(71)** Pringle Beleski and Associates Limited
**(11)** AU-B-2016280302
**(21)** 2016280302 **(22)** 17.05.2016
**(54)** System and method for gas management
**(51)** Int. Cl.
***G01M 3/26*** ( 2006.01 )
***F16C 13/02*** ( 2006.01 )
***F17D 5/02*** ( 2006.01 )
***G01N 11/02*** ( 2006.01 )
***H01H 33/56*** ( 2006.01 )
**(87)** WO2016/204630
**(31)** 709254 **(32)** 18.06.15 **(33)** NZ
**(43)** 22.12.2016
**(44)** 02.09.2021
**(72)** Pringle, John Stafford; Silcock, Robert William
**(74)** James & Wells Intellectual Property

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**(71)** Qualcomm Incorporated
**(11)** AU-B-2017286142
**(21)** 2017286142 **(22)** 02.06.2017
**(54)** Beam reporting and scheduling in multi-carrier beamformed communications
**(51)** Int. Cl.
***H04B 7/06*** ( 2006.01 )
*H04L 5/00* ( 2006.01 )
**(87)** WO2017/218210
**(31)** 15/457,873 **(32)** 13.03.17 **(33)** US
62/350,630 15.06.16 US
**(43)** 21.12.2017
**(44)** 02.09.2021
**(72)** Akkarakaran, Sony; Luo, Tao; Nagaraja, Sumeeth
**(74)** Madderns Pty Ltd

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**(71)** Qualcomm Incorporated
**(11)** AU-B-2017298112
**(21)** 2017298112 **(22)** 16.06.2017
**(54)** Dual stage channel interleaving for data transmission
**(51)** Int. Cl.
***H04L 1/00*** ( 2006.01 )
**(87)** WO2018/017225
**(31)** 62/363,559 **(32)** 18.07.16 **(33)** US
15/485,800 12.04.17 US
**(43)** 25.01.2018
**(44)** 02.09.2021
**(72)** Sun, Jing; Chen, Wanshi; Malladi, Durga Prasad; Hosseini, Seyedkianoush; Montojo, Juan; Gaal, Peter; Yoo, Taesang; Wei, Yongbin
**(74)** Madderns Pty Ltd

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**(71)** Qualcomm Incorporated
**(11)** AU-B-2017316384
**(21)** 2017316384 **(22)** 15.08.2017
**(54)** Demodulation reference signal sequence selection in device-to-device communication
**(51)** Int. Cl.
***H04L 1/00*** ( 2006.01 )
***H04L 5/00*** ( 2006.01 )
**(87)** WO2018/038978
**(31)** 62/379,218 **(32)** 24.08.16 **(33)** US
15/676,762 14.08.17 US
**(43)** 01.03.2018
**(44)** 02.09.2021
**(72)** Baghel, Sudhir Kumar; Patil, Shailesh; Gulati, Kapil; Wu, Zhibin
**(74)** Madderns Pty Ltd

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**(71)** Qualcomm Incorporated
**(11)** AU-B-2017394680
**(21)** 2017394680 **(22)** 11.12.2017
**(54)** Coding of multiple audio signals
**(51)** Int. Cl.
***G10L 19/008*** ( 2013.01 )
**(87)** WO2018/136166
**(31)** 62/448,287 **(32)** 19.01.17 **(33)** US
15/836,604 08.12.17 US
**(43)** 26.07.2018
**(44)** 02.09.2021
**(72)** Atti, Venkatraman; Chebiyyam, Venkata Subrahmanyam Chandra Sekhar
**(74)** Madderns Pty Ltd

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## Applications Accepted - Name Index cont'd

**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-B-2015255977
**(21)** 2015255977 **(22)** 07.05.2015
**(54)** Humanized IL-4 and IL-4R alpha animals
**(51)** Int. Cl.
***A01K 67/027*** ( 2006.01 )
***C07K 14/54*** ( 2006.01 )
***C07K 14/715*** ( 2006.01 )
**(87)** WO2015/171861
**(31)** 61/989,757 **(32)** 07.05.14 **(33)** US
**(43)** 12.11.2015
**(44)** 02.09.2021
**(72)** Wang, Li-Hsien; Xue, Yingzi; Murphy, Andrew J.; Stevens, Sean
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Regeneron Pharmaceuticals, Inc.
**(11)** AU-B-2015364415
**(21)** 2015364415 **(22)** 18.12.2015
**(54)** Human antibodies to influenza hemagglutinin
**(51)** Int. Cl.
***C07K 16/10*** ( 2006.01 )
***A61K 31/215*** ( 2006.01 )
***A61K 39/42*** ( 2006.01 )
**(87)** WO2016/100807
**(31)** 62/152,122 **(32)** 24.04.15 **(33)** US
62/094,752 19.12.14 US
**(43)** 23.06.2016
**(44)** 02.09.2021
**(72)** Purcell Ngambo, Lisa A.; Viau, Jonathan; Olson, William
**(74)** AJ PARK

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**(71)** Rinnai Corporation
**(11)** AU-B-2017200898
**(21)** 2017200898 **(22)** 09.02.2017
**(54)** Combustion Type Water Heater
**(51)** Int. Cl.
***F24H 1/12*** ( 2006.01 )
**(31)** 2016-024965 **(32)** 12.02.16 **(33)** JP
**(43)** 31.08.2017
**(44)** 02.09.2021
**(72)** Sato, Eri; Kito, Makoto
**(74)** Spruson & Ferguson

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**(71)** Saint-Gobain Placo
**(11)** AU-B-2016350070
**(21)** 2016350070 **(22)** 27.10.2016
**(54)** Earthquake resistant construction element
**(51)** Int. Cl.
***E04H 9/02*** ( 2006.01 )
**(87)** WO2017/077548
**(31)** 5928/CHE/2015 **(32)** 02.11.15 **(33)** IN
**(43)** 11.05.2017
**(44)** 02.09.2021
**(72)** Gollapudi, Srikant; Kalanad, Aysha; Bulusu, Suryateja; Sharma, Manish Kumar
**(74)** Spruson & Ferguson

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**(71)** Samson Clinical Pty Ltd
**(11)** AU-B-2020203695
**(21)** 2020203695 **(22)** 04.06.2020
**(54)** DETECTION AND TREATMENT OF EXCESSIVE HAIR SHEDDING
**(51)** Int. Cl.
***A61K 31/506*** ( 2006.01 )
***A61K 31/56*** ( 2006.01 )
***A61Q 7/00*** ( 2006.01 )
**(43)** 25.06.2020
**(44)** 02.09.2021
**(62)** 2018279055
**(72)** SINCLAIR, Rodney
**(74)** FB Rice Pty Ltd

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**(71)** Schneider Electric (Australia) Pty Limited
**(11)** AU-B-2016203931
**(21)** 2016203931 **(22)** 10.06.2016
**(54)** ELECTRICAL DEVICE MOUNTING SYSTEM
**(51)** Int. Cl.
***H01R 13/73*** ( 2006.01 )
***H01R 13/74*** ( 2006.01 )
***H02G 3/12*** ( 2006.01 )
***H05K 7/14*** ( 2006.01 )
**(31)** 2015902227 **(32)** 12.06.15 **(33)** AU
**(43)** 05.01.2017
**(44)** 02.09.2021
**(72)** Gransbury, Kenneth Basil
**(74)** Madderns Pty Ltd

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**(71)** Schneider Electric Industries SAS
**(11)** AU-B-2016200357
**(21)** 2016200357 **(22)** 21.01.2016
**(54)** Device and method for monitoring a voltage or a current, system for monitoring an electrical panelboard, electrical cabinet and transformer substation associated therewith
**(51)** Int. Cl.
***G01R 22/00*** ( 2006.01 )
**(31)** 1550524 **(32)** 22.01.15 **(33)** FR
**(43)** 11.08.2016
**(44)** 02.09.2021
**(72)** MOLLIER, Christophe; COUTELOU, Olivier; GAILLARD, Maxime; SILLANS, Damien
**(74)** Griffith Hack

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**(71)** Seattle Children's Hospital (dba Seattle Children's Research Institute)
**(11)** AU-B-2015243927
**(21)** 2015243927 **(22)** 08.04.2015
**(54)** Method and compositions for cellular immunotherapy
**(51)** Int. Cl.
***C12N 5/0789*** ( 2010.01 )
***C07K 16/28*** ( 2006.01 )
***C12N 15/62*** ( 2006.01 )
**(87)** WO2015/157391
**(31)** 61/986,479 **(32)** 30.04.14 **(33)** US
62/089,730 09.12.14 US
61/977,751 10.04.14 US
62/088,363 05.12.14 US
62/058,973 02.10.14 US
62/090,845 11.12.14 US
**(43)** 15.10.2015
**(44)** 02.09.2021
**(72)** Jensen, Michael C.
**(74)** Griffith Hack

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**(71)** Seed Terminator Holdings Pty Ltd
**(11)** AU-B-2017329248
**(21)** 2017329248 **(22)** 25.09.2017
**(54)** A multistage hammer mill and a residue processing system incorporating same
**(51)** Int. Cl.
***A01F 12/44*** ( 2006.01 )
***A01D 41/12*** ( 2006.01 )
***B02C 13/00*** ( 2006.01 )
**(87)** WO2018/053600
**(31)** 2016903873 **(32)** 23.09.16 **(33)** AU
**(43)** 29.03.2018
**(44)** 02.09.2021
**(72)** Berry, Nicholas Kane
**(74)** Griffith Hack

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**(71)** Seminis Vegetable Seeds, Inc.
**(11)** AU-B-2015333748
**(21)** 2015333748 **(22)** 13.10.2015
**(54)** Tomato plants with improved disease resistance
**(51)** Int. Cl.
***A01H 1/04*** ( 2006.01 )
**(87)** WO2016/061107
**(31)** 62/064,375 **(32)** 15.10.14 **(33)** US
**(43)** 21.04.2016
**(44)** 02.09.2021
**(72)** Brugmans, Bart; Drost, Derek; Grit, Albert; Hoogstraten, Jacobus; Rodriguez, Maria Fernanda
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Seminis Vegetable Seeds, Inc.
**(11)** AU-B-2021200021
**(21)** 2021200021 **(22)** 04.01.2021
**(54)** TOMATO HYBRID SV2756TM AND PARENTS THEREOF
**(51)** Int. Cl.
***A01H 6/82*** ( 2018.01 )
***A01H 1/00*** ( 2006.01 )
***A01H 5/08*** ( 2018.01 )
**(43)** 11.02.2021
**(44)** 02.09.2021
**(62)** 2016235022
**(72)** Bunn, Teresa Beck
**(74)** Griffith Hack

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**(71)** Sense Labs, Inc.
**(11)** AU-B-2019351894
**(21)** 2019351894 **(22)** 01.10.2019
**(54)** System and methods of operation of a smart plug
**(51)** Int. Cl.
***G01R 21/00*** ( 2006.01 )
***G05B 15/02*** ( 2006.01 )
***H02J 3/00*** ( 2006.01 )
***H04L 12/00*** ( 2006.01 )
**(87)** WO2020/072490
**(31)** 62/740,201 **(32)** 02.10.18 **(33)** US
16/179,567 02.11.18 US
16/179,598 02.11.18 US
16/179,619 02.11.18 US
**(43)** 09.04.2020
**(44)** 02.09.2021
**(72)** CHOUEITER, Ghinwa Fakhri; PETRI, Jonah Wyman; ZAVALIAGKOS, George
**(74)** AJ PARK

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## Applications Accepted - Name Index cont'd

**(71)** Shanghai Yile Biotechnology Co., Ltd
**(11)** AU-B-2015366363
**(21)** 2015366363 **(22)** 18.12.2015
**(54)** Application of binding molecule for specific binding of precursor for brain-derived neurotrophic factor
**(51)** Int. Cl.
***A61K 39/395*** ( 2006.01 )
***A61P 37/00*** ( 2006.01 )
**(87)** WO2016/095839
**(31)** 201410811678.8 **(32)** 19.12.14 **(33)** CN
**(43)** 23.06.2016
**(44)** 02.09.2021
**(72)** Li, Changqi; Wang, Huamao; Dai, Ruping; Cai, Xiumei; Zhou, Xinfu
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** Sharp Kabushiki Kaisha; FG Innovation Company Limited
**(11)** AU-B-2017298225
**(21)** 2017298225 **(22)** 17.07.2017
**(54)** User equipments, base stations and methods
**(51)** Int. Cl.
***H04L 1/18*** ( 2006.01 )
***H04L 5/00*** ( 2006.01 )
**(87)** WO2018/017489
**(31)** 15/649,894 **(32)** 14.07.17 **(33)** US
62/363,728 18.07.16 US
**(43)** 25.01.2018
**(44)** 02.09.2021
**(72)** Nogami, Toshizo; Yin, Zhanping
**(74)** Davies Collison Cave Pty Ltd

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**(71)** Siemens Aktiengesellschaft
**(11)** AU-B-2016356818
**(21)** 2016356818 **(22)** 02.11.2016
**(54)** Electrochemical cell and process
**(51)** Int. Cl.
***C25B 1/00*** ( 2021.01 )
***C25B 9/19*** ( 2021.01 )
**(87)** WO2017/084877
**(31)** 1520210.4 **(32)** 16.11.15 **(33)** GB
**(43)** 26.05.2017
**(44)** 02.09.2021
**(72)** Hughes, Timothy
**(74)** Spruson & Ferguson

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**(71)** Signature Orthopaedics Europe Ltd
**(11)** AU-B-2019375490
**(21)** 2019375490 **(22)** 08.11.2019
**(54)** A revision knee system
**(51)** Int. Cl.
***A61F 2/38*** ( 2006.01 )
**(87)** WO2020/093100
**(31)** 2018904290 **(32)** 09.11.18 **(33)** AU
**(43)** 14.05.2020
**(44)** 02.09.2021
**(72)** BRAZIL, Declan
**(74)** Patentec Patent Attorneys

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**(71)** Snap-on Incorporated
**(11)** AU-B-2019240696
**(21)** 2019240696 **(22)** 04.10.2019
**(54)** Wireless torque wrench with torque specifications
**(51)** Int. Cl.
***G01L 5/24*** ( 2006.01 )
***B25B 21/00*** ( 2006.01 )
***B25B 23/147*** ( 2006.01 )
**(43)** 24.10.2019
**(44)** 02.09.2021
**(62)** 2018201434
**(72)** LEE, Nathan J.; LAWTON, Christopher
**(74)** Griffith Hack

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**(71)** STAT-Diagnostica & Innovation, S.L.
**(11)** AU-B-2016295622
**(21)** 2016295622 **(22)** 15.07.2016
**(54)** Fluidic system for performing assays
**(51)** Int. Cl.
***B01L 3/00*** ( 2006.01 )
**(87)** WO2017/013561
**(31)** 62/193,884 **(32)** 17.07.15 **(33)** US
15/210,734 14.07.16 US
**(43)** 26.01.2017
**(44)** 02.09.2021
**(72)** Carrera Fabra, Jordi; Kuphal, Mathias; Bru Gibert, Rafael; Comengés Casas, Anna
**(74)** Spruson & Ferguson

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**(71)** Sulzer Management AG
**(11)** AU-B-2017221881
**(21)** 2017221881 **(22)** 01.09.2017
**(54)** Method for manufacturing or for repairing a component of a rotary machine as well as a component manufactured or repaired using such a method
**(51)** Int. Cl.
***B23C 3/18*** ( 2006.01 )
***B23P 15/00*** ( 2006.01 )
**(31)** 16190145.9 **(32)** 22.09.16 **(33)** EP
17163325.8 28.03.17 EP
**(43)** 05.04.2018
**(44)** 02.09.2021
**(72)** Rettberg, Robin; Maroccia, Bruno
**(74)** Griffith Hack

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**(71)** Suntory Holdings Limited
**(11)** AU-B-2017317408
**(21)** 2017317408 **(22)** 21.08.2017
**(54)** Coffee beans with high fatty acid methyl ester content
**(51)** Int. Cl.
***A23F 5/02*** ( 2006.01 )
***A23F 5/24*** ( 2006.01 )
***G01N 33/02*** ( 2006.01 )
**(87)** WO2018/038047
**(31)** 2016-162151 **(32)** 22.08.16 **(33)** JP
**(43)** 01.03.2018
**(44)** 02.09.2021
**(72)** Iwasa, Keiko; Nakahara, Koichi; Seta, Harumichi
**(74)** Griffith Hack

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**(71)** Swedish Orphan Biovitrum AB (publ)
**(11)** AU-B-2018242224
**(21)** 2018242224 **(22)** 03.04.2018
**(54)** IL-1R-I binding polypeptide
**(51)** Int. Cl.
***C07K 14/00*** ( 2006.01 )
***C07K 14/31*** ( 2006.01 )
**(87)** WO2018/178392
**(31)** 17164226.7 **(32)** 31.03.17 **(33)** EP
**(43)** 04.10.2018
**(44)** 02.09.2021
**(72)** Feldwisch, Joachim; Lindborg, Malin; Nilsson, Joakim; Nordling, Erik; Svensson, Robert
**(74)** WRAYS PTY LTD

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**(71)** TAM International, Inc.
**(11)** AU-B-2017219609
**(21)** 2017219609 **(22)** 13.02.2017
**(54)** Low fluid level valve
**(51)** Int. Cl.
***E21B 34/00*** ( 2006.01 )
***E21B 33/12*** ( 2006.01 )
***E21B 33/127*** ( 2006.01 )
***E21B 33/14*** ( 2006.01 )
***E21B 34/06*** ( 2006.01 )
***E21B 34/14*** ( 2006.01 )
**(87)** WO2017/142839
**(31)** 62/302,602 **(32)** 02.03.16 **(33)** US
62/295,383 15.02.16 US
**(43)** 24.08.2017
**(44)** 02.09.2021
**(72)** Kelley, Caleb; Resweber, Eugene; Harris, Nathaniel; Poynor, Reid
**(74)** Spruson & Ferguson

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**(71)** TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
**(11)** AU-B-2019253828
**(21)** 2019253828 **(22)** 23.10.2019
**(54)** UPLINK AND/OR DOWNLINK SIGNALING RELATED TO DIFFERENT RADIO ACCESS TECHNOLOGIES
**(51)** Int. Cl.
***H04W 88/06*** ( 2009.01 )
***H04W 16/14*** ( 2009.01 )
***H04W 28/20*** ( 2009.01 )
***H04W 72/04*** ( 2009.01 )
***H04W 72/12*** ( 2009.01 )
**(43)** 14.11.2019
**(44)** 02.09.2021
**(62)** 2015414285
**(72)** BALDEMAIR, Robert; PARKVALL, Stefan; MILDH, Gunnar
**(74)** AJ PARK

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**(71)** Tel HaShomer Medical Research Infrastructure and Services Ltd.
**(11)** AU-B-2019250140
**(21)** 2019250140 **(22)** 16.10.2019
**(54)** Prosthetic mitral valve
**(51)** Int. Cl.
***A61F 2/24*** ( 2006.01 )
**(43)** 31.10.2019
**(44)** 02.09.2021
**(62)** 2018202951
**(72)** RAANANI, Ehud; ORLOV, Boris; HARARI, Boaz; MEIRI, Oded; ROZITSKY, Lichen
**(74)** AJ PARK

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**(71)** The a2 Milk Company Limited
**(11)** AU-B-2019204101

## Applications Accepted - Name Index cont'd

**(21)** 2019204101 **(22)** 12.06.2019
**(54)** BETA-CASEIN A2 AND BLOOD GLUCOSE LEVELS
**(51)** Int. Cl.
***A61K 38/17*** ( 2006.01 )
***A23J 1/20*** ( 2006.01 )
***A61P 3/10*** ( 2006.01 )
**(43)** 04.07.2019
**(44)** 02.09.2021
**(62)** 2014309522
**(72)** CLARKE, Andrew John; TRIVEDI, Malav Suchin
**(74)** Catalyst Intellectual Property

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**(71)** The Board of Trustees of the Leland Stanford Junior University
**(11)** AU-B-2015231231
**(21)** 2015231231 **(22)** 19.03.2015
**(54)** Genome editing without nucleases
**(51)** Int. Cl.
***C12N 15/85*** ( 2006.01 )
**(87)** WO2015/143177
**(31)** 61/969,709 **(32)** 24.03.14 **(33)** US
61/969,013 21.03.14 US
62/045,451 03.09.14 US
62/044,145 29.08.14 US
**(43)** 24.09.2015
**(44)** 02.09.2021
**(72)** Barzel, Adi; Kay, Mark A.
**(74)** FB Rice Pty Ltd

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**(71)** The Board of Trustees of the Leland Stanford Junior University
**(11)** AU-B-2017339786
**(21)** 2017339786 **(22)** 28.09.2017
**(54)** Bryostatin compounds and methods of preparing the same
**(51)** Int. Cl.
***C07D 407/14*** ( 2006.01 )
***A61K 31/335*** ( 2006.01 )
***A61K 31/351*** ( 2006.01 )
***A61K 31/365*** ( 2006.01 )
**(87)** WO2018/067382
**(31)** 62/404,687 **(32)** 05.10.16 **(33)** US
**(43)** 12.04.2018
**(44)** 02.09.2021
**(72)** Wender, Paul; Quiroz, Ryan; Ho, Stephen; Shimizu, Akira; Ryckbosch, Steven; Stevens, Matthew C.; Jeffreys, Matthew S.; Hardman, Clayton; Sloane, Jack
**(74)** FB Rice Pty Ltd

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**(71)** The Board of Trustees of The University of Illinois
**(11)** AU-B-2016271527
**(21)** 2016271527 **(22)** 06.06.2016
**(54)** PAC-1 combination therapy
**(51)** Int. Cl.
***A61K 31/495*** ( 2006.01 )
**(87)** WO2016/197129
**(31)** 62/171,882 **(32)** 05.06.15 **(33)** US
62/345,629 03.06.16 US
**(43)** 08.12.2016
**(44)** 02.09.2021
**(72)** Hergenrother, Paul J.; Peh, Jessie
**(74)** James & Wells Intellectual Property

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**(71)** THE CHAMBERLAIN GROUP, INC.
**(11)** AU-B-2019240615
**(21)** 2019240615 **(22)** 02.10.2019
**(54)** METHOD AND APPARATUS TO FACILITATE TRANSMISSION OF AN ENCRYPTED ROLLING CODE
**(51)** Int. Cl.
***H04L 9/00*** ( 2006.01 )
***G06F 21/00*** ( 2006.01 )
**(43)** 17.10.2019
**(44)** 02.09.2021
**(62)** 2017265017
**(72)** FITZGIBBON, James J.; LAIRD, Edward T.; GREGORI, Eric
**(74)** AJ PARK

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**(71)** Theravance Biopharma R&D IP, LLC
**(11)** AU-B-2018261591
**(21)** 2018261591 **(22)** 30.04.2018
**(54)** Crystalline forms of a JAK inhibitor compound
**(51)** Int. Cl.
***C07D 471/04*** ( 2006.01 )
***A61K 31/4523*** ( 2006.01 )
***A61P 11/00*** ( 2006.01 )
***A61P 27/00*** ( 2006.01 )
**(87)** WO2018/204236
**(31)** 62/492,571 **(32)** 01.05.17 **(33)** US
**(43)** 08.11.2018
**(44)** 02.09.2021
**(72)** Dabros, Marta; Thalladi, Venkat R.; Nzerem, Jerry; Kleinschek, Melanie A.; Crater, Glenn D.
**(74)** Davies Collison Cave Pty Ltd

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**(71)** The Trustees of the University of Pennsylvania; Los Alamos National Security, LLC; Duke University
**(11)** AU-B-2015240883
**(21)** 2015240883 **(22)** 31.03.2015
**(54)** Compositions comprising CH848 envelopes and uses thereof
**(51)** Int. Cl.
***C12N 15/49*** ( 2006.01 )
***A61K 31/7088*** ( 2006.01 )
***A61K 39/21*** ( 2006.01 )
***C07K 14/155*** ( 2006.01 )
**(87)** WO2015/153638
**(31)** 61/972,649 **(32)** 31.03.14 **(33)** US
**(43)** 08.10.2015
**(44)** 02.09.2021
**(72)** Haynes, Barton F.; Hahn, Beatrice H.; Shaw, George M.; Korber, Bette T.; Hraber, Peter T.
**(74)** Spruson & Ferguson

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**The Trustees of the University of Pennsylvania see Novartis AG**
**(21)** 2015374296

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**(71)** The University of Queensland
**(11)** AU-B-2015362080
**(21)** 2015362080 **(22)** 07.12.2015
**(54)** Nanocomposite elastomers
**(51)** Int. Cl.
***B82Y 30/00*** ( 2011.01 )
***A61F 6/00*** ( 2006.01 )
***A61F 6/04*** ( 2006.01 )
***B82Y 40/00*** ( 2011.01 )
***C08L 1/00*** ( 2006.01 )
***C08L 5/14*** ( 2006.01 )
***D21B 1/00*** ( 2006.01 )
**(87)** WO2016/090425
**(31)** 2014904956 **(32)** 08.12.14 **(33)** AU
**(43)** 16.06.2016
**(44)** 02.09.2021
**(72)** Amiralian, Nasim; Martin, Darren James
**(74)** Spruson & Ferguson

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**(71)** The Yokohama Rubber Co., Ltd.
**(11)** AU-B-2019412870
**(21)** 2019412870 **(22)** 25.09.2019
**(54)** Conveyor belt
**(51)** Int. Cl.
***B65G 15/42*** ( 2006.01 )
***B29D 29/06*** ( 2006.01 )
**(87)** WO2020/137048
**(31)** 2018-245635 **(32)** 27.12.18 **(33)** JP
**(43)** 02.07.2020
**(44)** 02.09.2021
**(72)** ISHIBASHI, Yusuke
**(74)** FB Rice Pty Ltd

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**(71)** T-Mobile USA, Inc.
**(11)** AU-B-2019418503
**(21)** 2019418503 **(22)** 23.12.2019
**(54)** Providing network access via mobile device peer to peer sharing
**(51)** Int. Cl.
***H04W 4/50*** ( 2018.01 )
***G06Q 10/10*** ( 2012.01 )
***H04W 4/24*** ( 2018.01 )
***H04W 12/06*** ( 2009.01 )
***H04W 76/14*** ( 2018.01 )
**(87)** WO2020/142327
**(31)** 16/237,603 **(32)** 31.12.18 **(33)** US
**(43)** 09.07.2020
**(44)** 02.09.2021
**(72)** SPANTON, Christopher
**(74)** Spruson & Ferguson

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**(71)** Total Marketing Services
**(11)** AU-B-2016265463
**(21)** 2016265463 **(22)** 20.05.2016
**(54)** Process for the production of biodegradable hydrocarbon fluids by hydrogenation
**(51)** Int. Cl.
***C10G 3/00*** ( 2006.01 )
**(87)** WO2016/185047
**(31)** 15168547.6 **(32)** 20.05.15 **(33)** EP
**(43)** 24.11.2016
**(44)** 02.09.2021
**(72)** Germanaud, Laurent; Doucet, Clarisse
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** Truma Geraetetechnik GmbH & Co. KG
**(11)** AU-B-2017200763
**(21)** 2017200763 **(22)** 03.02.2017
**(54)** Gas Valve And Method For Actuation Thereof
**(51)** Int. Cl.
***F16K 31/02*** ( 2006.01 )
***F16K 5/10*** ( 2006.01 )

## Applications Accepted - Name Index cont'd

***F23K 5/14*** ( 2006.01 )
**(31)** 10 2016 103 249.2 **(32)** 24.02.16 **(33)** DE
**(43)** 07.09.2017
**(44)** 02.09.2021
**(72)** Hoeflinger, Ulrich
**(74)** Spruson & Ferguson

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**(71)** Universität Zürich
**(11)** AU-B-2016318929
**(21)** 2016318929 **(22)** 07.09.2016
**(54)** Treatment of insect bite hypersensitivity
**(51)** Int. Cl.
***A61K 39/00*** ( 2006.01 )
***A61K 39/35*** ( 2006.01 )
***A61P 17/02*** ( 2006.01 )
***A61P 37/08*** ( 2006.01 )
***C07K 14/54*** ( 2006.01 )
**(87)** WO2017/042212
**(31)** 15184195.4 **(32)** 08.09.15 **(33)** EP
16166342.2 21.04.16 EP
16175211.8 20.06.16 EP
**(43)** 16.03.2017
**(44)** 02.09.2021
**(72)** Fettelschoss, Antonia; Bachmann, Martin
**(74)** Griffith Hack

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**(71)** Vaxart, Inc.
**(11)** AU-B-2016274599
**(21)** 2016274599 **(22)** 08.06.2016
**(54)** Formulations for small intestinal delivery of RSV and norovirus antigens
**(51)** Int. Cl.
***A61K 9/00*** ( 2006.01 )
***A61K 9/20*** ( 2006.01 )
***A61K 39/00*** ( 2006.01 )
**(87)** WO2016/200951
**(31)** 62/175,081 **(32)** 12.06.15 **(33)** US
**(43)** 15.12.2016
**(44)** 02.09.2021
**(72)** Trager, George; Tucker, Sean; Kim, Leesun; Scallan, Ciaran
**(74)** Spruson & Ferguson

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**(71)** Venter, J.
**(11)** AU-B-2020296356
**(21)** 2020296356 **(22)** 10.06.2020
**(54)** Payload delivery mechanism suitable for use with a drone
**(51)** Int. Cl.
***B64D 1/12*** ( 2006.01 )
***B64C 39/02*** ( 2006.01 )
***B64D 1/08*** ( 2006.01 )
***B64D 1/22*** ( 2006.01 )
***B64D 9/00*** ( 2006.01 )
***F16M 13/00*** ( 2006.01 )
**(87)** WO2020/254921
**(31)** 2019/03959 **(32)** 19.06.19 **(33)** ZA
**(43)** 24.12.2020
**(44)** 02.09.2021
**(72)** VENTER, Jacques
**(74)** Griffith Hack

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**Vilnius University see Brigham and Women's Hospital, Inc.**
**(21)** 2020201355

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**(71)** Visa International Service Association
**(11)** AU-B-2016243733
**(21)** 2016243733 **(22)** 31.03.2016
**(54)** Multi-protocol data transfer
**(51)** Int. Cl.
***G06Q 20/36*** ( 2012.01 )
***G06Q 20/20*** ( 2012.01 )
***G06Q 30/06*** ( 2012.01 )
**(87)** WO2016/161172
**(31)** 62/140,921 **(32)** 31.03.15 **(33)** US
**(43)** 06.10.2016
**(44)** 02.09.2021
**(72)** Jones, Christopher; Sharma, Sanjeev; Flurscheim, Christian; Srivastava, Chandra; Shastry, Vishwanath; Pirzadeh, Kiushan; Aabye, Christian
**(74)** Pizzeys Patent and Trade Mark Attorneys Pty Ltd

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**(71)** VisCardia, Inc.
**(11)** AU-B-2017258306
**(21)** 2017258306 **(22)** 27.04.2017
**(54)** Implantable medical devices and methods for real-time or near real-time adjustment of diaphragmatic stimulation parameters to affect pressures within the intrathoracic cavity
**(51)** Int. Cl.
***A61N 1/36*** ( 2006.01 )
***A61N 1/362*** ( 2006.01 )
*A61B 5/00* ( 2006.01 )
*A61B 5/0205* ( 2006.01 )
*A61B 5/0215* ( 2006.01 )
*A61B 5/03* ( 2006.01 )
*A61N 1/365* ( 2006.01 )
**(87)** WO2017/189895
**(31)** 62/329,918 **(32)** 29.04.16 **(33)** US
15/498,352 26.04.17 US
**(43)** 02.11.2017
**(44)** 02.09.2021
**(72)** Bauer, Peter T.; Chinchoy, Edward; Snell, Jay
**(74)** BOSH IP Pty Ltd

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**(71)** WANG, Z.
**(11)** AU-B-2018279677
**(21)** 2018279677 **(22)** 08.06.2018
**(54)** Intravenous infusion needle with manual needle retraction
**(51)** Int. Cl.
***A61M 5/158*** ( 2006.01 )
**(87)** WO2018/224045
**(31)** 201710432400.3 **(32)** 09.06.17 **(33)** CN
**(43)** 13.12.2018
**(44)** 02.09.2021
**(72)** WANG, Zuyang
**(74)** Griffith Hack

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**(71)** Warsaw Orthopedic, Inc.
**(11)** AU-B-2017264573
**(21)** 2017264573 **(22)** 03.05.2017
**(54)** Osteoinductive fibrous bone chips
**(51)** Int. Cl.
***A61L 27/36*** ( 2006.01 )
***A61F 2/28*** ( 2006.01 )
***A61L 27/12*** ( 2006.01 )
***A61L 27/38*** ( 2006.01 )
***A61L 27/54*** ( 2006.01 )
**(87)** WO2017/196595
**(31)** 15/149,894 **(32)** 09.05.16 **(33)** US
**(43)** 16.11.2017
**(44)** 02.09.2021
**(72)** Wei, Guobao
**(74)** FB Rice Pty Ltd

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**(71)** Waterio Ltd.
**(11)** AU-B-2017266593
**(21)** 2017266593 **(22)** 17.05.2017
**(54)** Smart caps for medication containers
**(51)** Int. Cl.
***A61J 1/00*** ( 2006.01 )
***A61J 7/04*** ( 2006.01 )
***G08B 21/18*** ( 2006.01 )
**(87)** WO2017/199255
**(31)** 62/337,620 **(32)** 17.05.16 **(33)** US
**(43)** 23.11.2017
**(44)** 02.09.2021
**(72)** Kaplan, Nimrod; Bentkovski, Yakov
**(74)** Yakov BENTKOVSKI

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**(71)** Water Pik, Inc.
**(11)** AU-B-2019283849
**(21)** 2019283849 **(22)** 18.12.2019
**(54)** ORAL IRRIGATOR BASE UNIT
**(51)** Int. Cl.
***A46B 9/04*** ( 2006.01 )
***A46B 13/02*** ( 2006.01 )
***A46B 13/04*** ( 2006.01 )
**(43)** 23.01.2020
**(44)** 02.09.2021
**(62)** 2018204488
**(72)** Sokol, Gary L.; Luettgen, Harold A.
**(74)** IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

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**(71)** Willow Biosciences Inc.
**(11)** AU-B-2017228939
**(21)** 2017228939 **(22)** 02.03.2017
**(54)** Compositions and methods for making terpenoid indole alkaloids
**(51)** Int. Cl.
***C12P 17/18*** ( 2006.01 )
***C07D 471/14*** ( 2006.01 )
***C07D 471/16*** ( 2006.01 )
***C07D 487/04*** ( 2006.01 )
***C07D 491/147*** ( 2006.01 )
***C07H 17/00*** ( 2006.01 )
***C12N 1/15*** ( 2006.01 )
***C12N 1/19*** ( 2006.01 )
***C12N 1/21*** ( 2006.01 )
***C12N 5/10*** ( 2006.01 )
***C12N 15/52*** ( 2006.01 )
***C12N 15/53*** ( 2006.01 )
***C12N 15/55*** ( 2006.01 )
***C12N 15/56*** ( 2006.01 )
***C12N 15/63*** ( 2006.01 )
***C12N 15/82*** ( 2006.01 )
***C12P 17/00*** ( 2006.01 )
***C12P 19/60*** ( 2006.01 )
**(87)** WO2017/152273
**(31)** 62/302,342 **(32)** 02.03.16 **(33)** US
**(43)** 14.09.2017
**(44)** 02.09.2021
**(72)** De Luca, Vincenzo; Qu, Yang
**(74)** Davies Collison Cave Pty Ltd

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## Applications Accepted - Name Index cont'd

**(71)** Wing Aviation LLC
**(11)** AU-B-2020210151
**(21)** 2020210151 **(22)** 27.07.2020
**(54)** Rotor units having asymmetric rotor blades
**(51)** Int. Cl.
***B64C 39/02*** ( 2006.01 )
***B64C 11/18*** ( 2006.01 )
***B64C 11/46*** ( 2006.01 )
**(43)** 13.08.2020
**(44)** 02.09.2021
**(62)** 2017386252
**(72)** Pantalone, Giulia; Woodworth, Adam
**(74)** Spruson & Ferguson

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**(71)** Wright Medical Technology, Inc.
**(11)** AU-B-2020260453
**(21)** 2020260453 **(22)** 28.10.2020
**(54)** Anterior resurfacing talar plate
**(51)** Int. Cl.
***A61F 2/46*** ( 2006.01 )
***A61B 17/15*** ( 2006.01 )
**(43)** 26.11.2020
**(44)** 02.09.2021
**(62)** 2020200203
**(72)** LUNA, Ramon
**(74)** Spruson & Ferguson

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**(71)** Xinjiang Goldwind Science & Technology Co., Ltd.
**(11)** AU-B-2018424215
**(21)** 2018424215 **(22)** 30.10.2018
**(54)** Heat dissipation system, wind generator set and heat dissipation supporting platform
**(51)** Int. Cl.
***F03D 80/60*** ( 2016.01 )
***F03D 13/20*** ( 2016.01 )
***F03D 80/00*** ( 2016.01 )
**(87)** WO2019/223240
**(31)** 201810496240.3 **(32)** 22.05.18 **(33)** CN
**(43)** 28.11.2019
**(44)** 02.09.2021
**(72)** YAO, Zhigang; SHI, Hongkui; SHEN, Ruiqing
**(74)** Madderns Pty Ltd

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**(71)** Yoshikawa Corporation
**(11)** AU-B-2019268654
**(21)** 2019268654 **(22)** 18.04.2019
**(54)** Batch-weighing feeding device and method for operating same
**(51)** Int. Cl.
***B65G 65/48*** ( 2006.01 )
***B65D 88/68*** ( 2006.01 )
***G01G 13/24*** ( 2006.01 )
**(87)** WO2019/220854
**(31)** 2018-096162 **(32)** 18.05.18 **(33)** JP
**(43)** 21.11.2019
**(44)** 02.09.2021
**(72)** YOSHIKAWA, Osamu
**(74)** Shelston IP Pty Ltd.

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**(71)** ZTE Corporation
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**H04B 7 /-**

2017286142

**H04L 1 /-**

2017298112
2017298225
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**H04L 12 /-**

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**H04L 29 /-**

2018330053
2018378330
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**H04L 5 /-**

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**H04N 7 /-**

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**H04R 1 /-**

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**H04S 7 /-**

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**H04W 12 /-**

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**H04W 16 /-**

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**H04W 28 /-**

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**H04W 4 /-**

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**H04W 48 /-**

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**H04W 60 /-**

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**H04W 72 /-**

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**H04W 76 /-**

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**H04W 8 /-**

2018240192

**H04W 84 /-**

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**H04W 88 /-**

2017436875
2019253828

**H05B 3 /-**

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**H05K 1 /-**

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**H05K 3 /-**

2017263727
2018399638

**H05K 7 /-**

2016203931

## Certified Innovation Patents

**Name Index**

(This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

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**(71)** Indian Ocean Engineering Pty Ltd
**(11)** AU-B-2021102100
**(21)** 2021102100 **(22)** 21.04.2021
**(54)** SYSTEM FOR POWERING AND CONTROLLING AN ELECTRIC MOTOR
**(51)** Int. Cl.
***G05B 13/02*** ( 2006.01 )
***H02P 27/04*** ( 2016.01 )
*F04D 13/08* ( 2006.01 )
*F04D 15/00* ( 2006.01 )
*G05B 19/042* ( 2006.01 )
*G05B 19/05* ( 2006.01 )
*G05B 23/02* ( 2006.01 )
*H02P 29/60* ( 2016.01 )
**(45)** 02.09.2021
**(62)** 2021201628
**(72)** Vose, Stephen Lance; Jain, Ravi
**(74)** Mann IP

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**(71)** K & L Ea Pty Ltd
**(11)** AU-B-2020100318
**(21)** 2020100318 **(22)** 04.03.2020
**(54)** Foldable Target Board
**(51)** Int. Cl.
***G08G 1/0955*** ( 2006.01 )
***E01F 9/688*** ( 2016.01 )
***E01F 9/692*** ( 2016.01 )
*G09F 13/04* ( 2006.01 )
**(45)** 02.09.2021
**(72)** Zhang, Chunbin; Tafali, Otele; Ea, Keang Kok
**(74)** Michael Buck IP

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**(71)** Kunming University of Science and Technology
**(11)** AU-B-2020103730
**(21)** 2020103730 **(22)** 27.11.2020
**(54)** HIGH-THROUGHPUT PLANETARY BALL MILL
**(51)** Int. Cl.
***B02C 17/08*** ( 2006.01 )
***B02C 17/10*** ( 2006.01 )
**(45)** 02.09.2021
**(62)** PCT/CN2019/070278
**(72)** Feng, Jing; Zheng, Chun; Chong, Xiaoyu; Song, Peng
**(74)** Phillips Ormonde Fitzpatrick

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**(71)** World Wide Window Cleaning Supplies IP Pty Ltd
**(11)** AU-B-2021100579
**(21)** 2021100579 **(22)** 29.01.2021
**(54)** COMPOSITE SUPPORT POLE
**(51)** Int. Cl.
***F16B 7/14*** ( 2006.01 )
***A47L 1/06*** ( 2006.01 )
***B25G 1/04*** ( 2006.01 )
***E04H 12/18*** ( 2006.01 )
***F16B 7/04*** ( 2006.01 )
***F16B 7/10*** ( 2006.01 )
***F16B 9/02*** ( 2006.01 )
***F16C 3/03*** ( 2006.01 )
***F16L 3/26*** ( 2006.01 )
***F16L 7/00*** ( 2006.01 )
**(45)** 02.09.2021
**(62)** 2018228275
**(72)** Russo, Mark Anthony
**(74)** Phillips Ormonde Fitzpatrick

**Numerical Index**

**IPC Index**

**A47L 1 /-**

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**B02C 17 /-**

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**B25G 1 /-**

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**E04H 12 /-**

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**F04D 13 /-**

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**F04D 15 /-**

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**F16B 7 /-**

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**F16B 9 /-**

2021100579

**F16C 3 /-**

2021100579

**F16L 3 /-**

2021100579

**F16L 7 /-**

2021100579

**G05B 13 /-**

2021102100

**G05B 19 /-**

2021102100

**G05B 23 /-**

2021102100

**G08G 1 /-**

2020100318

**G09F 13 /-**

2020100318

**H02P 27 /-**

2021102100

**H02P 29 /-**

2021102100

## Revocation

It is hereby notified that the offer by the Patentee **Dawood, M.** to surrender Patent 2020104143 which was advertised in the Official Journal of 22.07.2021 has been accepted and the Patent has been revoked in accordance with Section 137 of the Patents Act.

It is hereby notified that the offer by the Patentee **Lipopharma Therapeutics, S.L** to surrender Patent 2010224749 which was advertised in the Official Journal of 08.07.2021 has been accepted and the Patent has been revoked in accordance with Section 137 of the Patents Act.

It is hereby notified that the offer by the Patentee **Lipopharma Therapeutics, S.L** to surrender Patent 2016238970 which was advertised in the Official Journal of 08.07.2021 has been accepted and the Patent has been revoked in accordance with Section 137 of the Patents Act.

It is hereby notified that the offer by the Patentee **Universitat de les Illes Balears** to surrender Patent 2009326993 which was advertised in the Official Journal of 08.07.2021 has been accepted and the Patent has been revoked in accordance with Section 137 of the Patents Act.

## Assignments Registered

2002301000 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2003271554 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2003274102 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2003274229 Universite Paris-Sud 11; Universite Paris Diderot - Paris 7; Centre National de la Recherche Scientifique (CNRS); Assistance Publique - Hospitaux de Paris; Da Volterra The patent has been assigned to **UNIVERSITE DE PARIS; Centre National de la Recherche Scientifique (CNRS); Da Volterra; Assistance Publique - Hospitaux de Paris; Universite Paris-Sud 11**

2004201914 Skyfold Investments Ltd. The patent has been assigned to **Skyfold Inc.**

2004212512 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2005201394 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2005202820 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2005220247 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2005237170 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2005237171 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2005244504 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2005263381 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

## Assignments Registered

2005263382 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2005268746 Assistance Publique - Hopitaux De Paris; Universite Paris Descartes The patent has been assigned to **Assistance Publique - Hopitaux De Paris; UNIVERSITE DE PARIS**

2006204010 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2006220365 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2006249100 Da Volterra; Centre National de la Recherche Scientifique (CNRS); Universite Paris Diderot - Paris 7; Assistance Publique - Hospitaux de Paris; Universite Paris-Sud 11 The patent has been assigned to **UNIVERSITE DE PARIS; Centre National de la Recherche Scientifique (CNRS); Da Volterra; Assistance Publique - Hospitaux de Paris; Universite Paris-Sud 11**

2006269089 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2006326719 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2007200164 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007200166 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007200480 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007201930 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007203545 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2007209818 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2007213923 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007219346 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2007224888 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007242731 Université Paris Descartes; DBV Technologies; Assistance Publique - Hopitaux de Paris The patent has been assigned to **DBV Technologies; Assistance Publique - Hopitaux de Paris; UNIVERSITE DE PARIS**

2007251565 Universite Paris-Sud 11; Centre National De La Recherche Scientifique; Universite Paris Diderot - Paris 7; Da Volterra; Assistance Publique - Hospitaux de Paris The patent has been assigned to **UNIVERSITE DE PARIS; Universite Paris-Sud 11; Centre National De La Recherche Scientifique; Assistance Publique - Hospitaux de Paris; Da Volterra**

## Assignments Registered

2007280476 Universite Paris Descartes; Assistance Publique - Hopitaux De Paris The patent has been assigned to **UNIVERSITE DE PARIS; Assistance Publique - Hopitaux De Paris**

2007283050 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2007286798 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2008201328 Paris Descartes University; L'Assistance Publique-Hopitaux de Paris; Institut National de la Sante et de la Recherche Medicale The patent has been assigned to **Institut National de la Sante et de la Recherche Medicale; L'Assistance Publique-Hopitaux de Paris; UNIVERSITE DE PARIS**

2008227062 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2008240484 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2008255136 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2008333192 DBV Technologies; Assistance Publique - Hopitaux De Paris; Universite Paris Descartes The patent has been assigned to **UNIVERSITE DE PARIS; DBV Technologies; Assistance Publique - Hopitaux De Paris**

2008339833 Assistance Publique – Hopitaux de Paris; DBV Technologies; Université Paris Descartes The patent has been assigned to **DBV Technologies; Assistance Publique – Hopitaux de Paris; UNIVERSITE DE PARIS**

2009201772 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2009290724 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2009299627 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2009299628 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2009318026 ExxonMobil Upstream Research Company The patent has been assigned to **The University of Houston**

2009324042 Assistance Publique Hopitaux de Paris; INSERM (Institut National de la Sante et de la Recherche Medicale); Universite de Versailles Saint-Quentin-En-Yvelines; Universite Paris Descartes The patent has been assigned to **Assistance Publique Hopitaux de Paris; Universite de Versailles Saint-Quentin-En-Yvelines; INSERM (Institut National de la Sante et de la Recherche Medicale); UNIVERSITE DE PARIS**

2009335313 BuergoFol GmbH The patent has been assigned to **BuergoFol GmbH**

## Assignments Registered

2009344053 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010201872 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010203309 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010214716 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010225207 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010257351 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2010288871 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010294246 Centre National de la Recherche Scientifique; Universite Paris-Sud 11; Assistance Publique - Hopitaux de Paris; Universite Paris Diderot Paris 7; Occlugel The patent has been assigned to **UNIVERSITE DE PARIS; Universite Paris-Sud 11; Centre National de la Recherche Scientifique; Assistance Publique - Hopitaux de Paris; Occlugel**

2010357460 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2010366076 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011200312 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011200764 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011200981 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011201359 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011202372 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011206532 INSERM (Institut National de la Sante et de la Recherche Medicale); Universite Paris Diderot - Paris 7; Institut Pasteur; Institut national de recherche pour l'agriculture, l'alimentation et l'environnement The patent has been assigned to **Institut national de recherche pour l'agriculture, l'alimentation et l'environnement; Institut Pasteur; INSERM (Institut National de la Sante et de la Recherche Medicale); UNIVERSITE DE PARIS**

## Assignments Registered

2011226864 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011226979 Skyfold Investments Ltd. The patent has been assigned to **Skyfold Inc.**

2011253541 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011253603 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011253648 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011253708 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011308888 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011351669 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2011358373 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011367015 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011376744 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2011383092 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2012216160 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2012224524 Occlugel; Assistance Publique - Hopitaux de Paris; Universite Paris Diderot - Paris 7; Centre National de la Recherche Scientifique The patent has been assigned to **Assistance Publique - Hopitaux de Paris; Occlugel; Centre National de la Recherche Scientifique; UNIVERSITE DE PARIS**

2012224525 Occlugel; Assistance Publique - Hopitaux de Paris; Centre National de la Recherche Scientifique; Universite Paris Diderot - Paris 7 The patent has been assigned to **Assistance Publique - Hopitaux de Paris; Occlugel; Centre National de la Recherche Scientifique; UNIVERSITE DE PARIS**

2012228270 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2012238351 Institut de Recherche pour le Developpement (IRD); Biovaxim Limited; Universite Paris Descartes The patent has been assigned to **Institut de Recherche pour le Developpement (IRD); Biovaxim Limited; UNIVERSITE DE PARIS**

2012254102 ExxonMobil Upstream Research Company The patent has been assigned to **The University of Houston**

## Assignments Registered

2012272103 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2012307381 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2013207610 JOMET OY The patent has been assigned to **Ranpak, B.V.**

2013242114 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2013248170 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2013248171 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2013248403 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2013250709 Fluidfile Ltd. The patent has been assigned to **Sonendo, Inc.**

2013265267 Universite Paris Descartes; Université Nice Sophia Antipolis; Rarecells; Centre hospitalier universitaire de Nice; Assistance Publique - Hopitaux de Paris; Institut National de la Sante et de la Recherche Medicale The patent has been assigned to **UNIVERSITE DE PARIS; Université Nice Sophia Antipolis; Centre hospitalier universitaire de Nice; Rarecells; Institut National de la Sante et de la Recherche Medicale; Assistance Publique - Hopitaux de Paris**

2013276470 INSERM (Institut National de la Sante et de la Recherche Medicale); Assistance Publique Hopitaux de Paris; Universite Paris Descartes The patent has been assigned to **UNIVERSITE DE PARIS; Assistance Publique Hopitaux de Paris; INSERM (Institut National de la Sante et de la Recherche Medicale)**

2013301609 Assistance Publique Hopitaux de Paris; Universite Paris Descartes; INSERM (Institut National de la Sante et de la Recherche Medicale) The patent has been assigned to **Assistance Publique Hopitaux de Paris; INSERM (Institut National de la Sante et de la Recherche Medicale); UNIVERSITE DE PARIS**

2013323063 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2013327364 Skyfold Investments Ltd. The patent has been assigned to **Skyfold Inc.**

2013340396 Ferreira Santos, Raquel; Magar Invest, S.L. The patent has been assigned to **Coatresa S.L.U.**

2013349706 Universite Paris Descartes; Assistance Publique - Hopitaux de Paris; Centre National De La Recherche Scientifique (CNRS); INSERM (Institut National de la Sante et de la Recherche Medicale); Imagine Institut des Maladies Genetiques Necker Enfants Malades The patent has been assigned to **Centre National De La Recherche Scientifique (CNRS); Assistance Publique - Hopitaux de Paris; Imagine Institut des Maladies Genetiques Necker Enfants Malades; INSERM (Institut National de la Sante et de la Recherche Medicale); UNIVERSITE DE PARIS**

2013361900 Unilever PLC The patent has been assigned to **Unilever IP Holdings B.V.**

2014200217 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

## Assignments Registered

2014201569 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2014201601 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2014202752 Bruker Daltonik GmbH The patent has been assigned to **Bruker Daltonics GmbH & Co. KG**

2014203007 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2014227517 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2014253920 Silva, Fancisco; BioRestorative Therapies, Inc. The patent has been assigned to **BioRestorative Therapies, Inc.**

2014259378 Sanofi The patent has been assigned to **Beijing Lianxin Pharmaceutical Co., Ltd.**

2014292722 Beijing Fswelcome Technology Development Co., Ltd The patent has been assigned to **Beijing Showby Pharmaceutical Co., LTD.**

2014300709 Stryker Ireland Ltd. The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2014304931 Assistance Publique - Hopitaux de Paris; Institut National De La Sante Et De La Recherche Medicale (INSERM); Cytune Pharma; Universite Paris Descartes The patent has been assigned to **Institut National De La Sante Et De La Recherche Medicale (INSERM); Assistance Publique - Hopitaux de Paris; Cytune Pharma; UNIVERSITE DE PARIS**

2014323643 Universite Paris Diderot - Paris 7; Centre National de la Recherche Scientifique - CNRS - The patent has been assigned to **UNIVERSITE DE PARIS; Centre National de la Recherche Scientifique - CNRS -**

2014338513 Fluidfile Ltd. The patent has been assigned to **Sonendo, Inc.**

2015203656 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2015204727 Ingios Geotechnics, Inc. The patent has been assigned to **Geoqore, LLC**

2015216917 Assistance Publique-Hopitaux De Paris (APHP); Universite Paris Diderot - Paris 7; INSERM (Institut National de la Sante et de la Recherche Medicale) The patent has been assigned to **Assistance Publique-Hopitaux De Paris (APHP); INSERM (Institut National de la Sante et de la Recherche Medicale); UNIVERSITE DE PARIS**

2015252994 Mallinckrodt Hospital Products IP Limited The patent has been assigned to **Mallinckrodt Pharmaceuticals Ireland Limited**

2015255688 Mallinckrodt Hospital Products IP Limited The patent has been assigned to **Mallinckrodt Pharmaceuticals Ireland Limited**

2015293891 Novasep Process The patent has been assigned to **Novasep Process Solutions**

2016236297 Centre national de la recherche scientifique (CNRS); Institut national de la sante et de la recherche medicale (Inserm); Institut Gustave-Roussy; Assistance Publique - Hopitaux de Paris; Universite Paris Descartes; Universite Pierre et Marie Curie (Paris 6); Universite Paris-Sud The patent has been assigned to **Assistance Publique - Hopitaux de Paris; Universite Paris-Sud; Universite Pierre et Marie Curie (Paris 6); Institut national de la sante et de la recherche medicale (Inserm); Centre national de la recherche scientifique (CNRS); Institut Gustave-Roussy; UNIVERSITE DE PARIS**

2016265904 John, Michael; The Governing Council of The University of Toronto The patent has been assigned to **EBT Medical, Inc.**

2016328303 Merck Sharp & Dohme Corp.; Merck Sharp & Dohme Limited The patent has been assigned to **Merck Sharp & Dohme Corp.; Merck Sharp & Dohme (UK) Limited**

2017101363 Wu, Haoyang The patent has been assigned to **QINGDAO RVBACK SPECIAL PURPOSE VEHICLES CO., LTD**

2018247219 Université Nice Sophia Antipolis; Rarecells; Centre hospitalier universitaire de Nice; Assistance Publique - Hopitaux de Paris; Institut National de la Sante et de la Recherche Medicale; Universite Paris Descartes The patent has been assigned to **Université Nice Sophia Antipolis; Centre hospitalier universitaire de Nice; Rarecells; Institut National de la Sante et de la Recherche Medicale; Assistance Publique - Hopitaux de Paris; UNIVERSITE DE PARIS**

2018264098 Multi-Chem Group, LLC The patent has been assigned to **Halliburton Energy Services, Inc.**

2019200740 STRYKER EUROPEAN HOLDINGS I, LLC The patent has been assigned to **STRYKER EUROPEAN OPERATIONS HOLDINGS LLC**

2019201766 Neurozone Dynamics Inc. The patent has been assigned to **Signalitica Inc.**

2019232815 Mallinckrodt Hospital Products IP Limited The patent has been assigned to **Mallinckrodt Pharmaceuticals Ireland Limited**

2019246815 Neurozone Dynamics Inc. The patent has been assigned to **Signalitica Inc.**

2020100173 RAW TALENT AGENCY PTY LTD The patent has been assigned to **Smiley Boom Pty Ltd**

2020100278 University of Science and Technology Beijing The patent has been assigned to **Beike Yunhong Environmental Technology (Beijing) Co., Ltd.**

2020101933 Macau University of Science and Technology The patent has been assigned to **Ruina (Zhuhai Hengqin) Biotechnology Co., Ltd**

2020103404 Macau University of Science and Technology The patent has been assigned to **Ruina (Zhuhai Hengqin) Biotechnology Co., Ltd**

2020103946 Macau University of Science and Technology The patent has been assigned to **Ruina (Zhuhai Hengqin) Biotechnology Co., Ltd**

2020207809 Mallinckrodt Hospital Products IP Limited The patent has been assigned to **Mallinckrodt Pharmaceuticals Ireland Limited**

## Licences Registered - Section 187, Reg. 19

(The name in the parentheses is that of the licensee)

2015358390 Maly, R. ( OrthoPediatrics Corp. )

## Mortgages Registered - Section 187, Reg. 19

(The name in the parentheses is that of the mortgagee)

2015255622 Sirtex Medical Limited ( Bank of China Limited Macau Branch )

2015327748 Sirtex Medical Limited ( Bank of China Limited Macau Branch )

## Extensions of Term of Standard Patents

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

**Extensions granted**

The following application(s) for Extension of Term have been granted under Section 76.

2004261490 **Richter Gedeon Nyrt.**

The earliest first regulatory approval date provided by the patentee 18 Nov 2020

For the goods REAGILA cariprazine hydrochloride

Extension of Term of patent pursuant to Section 77 expires on 21 May 2029

2017204337 **Novartis AG**

The earliest first regulatory approval date provided by the patentee 16 Jan 2020

For the goods BEOVU brolucizumab

Extension of Term of patent pursuant to Section 77 expires on 25 Jun 2034

## Corrigenda

In Vol 35 , No 17 , Page(s) 3800 under the heading **Applications Accepted - Name Index** Under the name Qualcomm Incorporated, Application No. 2017263236, under INID (72) correct the co-inventor to Mukkavilli, Krishna Kiran

In Vol 35 , No 29 , Page(s) 5971 under the heading **PCT applications that have entered the National Phase - Name Index** Under the names Inserm (Institut National de la Santé et de la Recherche Médicale); Assistance Publique-Hôpitaux de Paris (APHP); Fondation Imagine; Université Paris Descartes; Centre National de la Recherche Scientifique (CNRS); Université Paris-Sud 11, Application No. 2020205150, under INID (71) correct the applicant names to Université de Paris; Université Paris-Sud

In Vol 35 , No 32 , Page(s) 6405 under the heading **Complete Applications Filed - Name Index** Under the names BioNTech RNA Pharmaceuticals GmbH; TRON - Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg Universität Mainz Gemeinnützige GmbH, Application No. 2021206886, under INID (71) correct the applicant name to TRON - Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg-Universität Mainz GmbH

In Vol 35 , No 32 , Page(s) 6553 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Institut National de la Sante et de la Recherche Medicale (INSERM), Application No. 2020225354 , under INID (71) correct the applicant name to Institut National De La Sante Et De La Recherche Medicale

In Vol 35 , No 33 , Page(s) 6692 under the heading **Assignments Before Grant, Section 113 - 2019** Under the name Hovione Scientia Limited; Hovione Scientia, Application No. 2019358200, under INID (71) remove co-applicant Hovione Scientia

## Corrigenda

In Vol 35 , No 33 , Page(s) 6739 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Adverum Biotechnologies, Inc., Application No. 2020231505, Under INID (72) add co-inventor KERAVALA, Annahita

In Vol 35 , No 33 , Page(s) 6761 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Nanjingjinsirui Science & Technology Biology Corp., Application No. 2019415848, under INID (71) correct the applicant name to Nanjing GenScript Biotech Co., Ltd.

In Vol 35 , No 33 , Page(s) 6797 under the heading **Applications Accepted - Name Index** Application No. 2016285853, under INID (54) correct the format of the title to Antibody-SN-38 immunoconjugates with a CL2A linker

In Vol 35 , No 34 , Page(s) 6870 under the heading **Assignments Before Grant, Section 113 - 2017** Under the name PANARA s.r.o. , Application No. 2017431602, under INID (71) correct the applicant name to PANARA a.s.

In Vol 35 , No 34 , Page(s) 6922 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name AMRA Medical AB, Application No. 2020217876, under INID (72) correct the co-inventor to WIDHOLM, Per

In Vol 35 , No 34 , Page(s) 6935 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Hengtong Marine Power Cable Co., Ltd, Application No. 2019475115, under INID (71) correct the applicant name to Hengtong Submarine Power Cable Co., Ltd

## Specifications Republished

The following specifications contained errors when advertised OPI, Accepted or Certified. They have been reissued on the date of this Journal.

2017263236 **Qualcomm Incorporated**
2019414297 **Chevron Phillips Chemical Company LP**
2020200538 **Lummus Technology Inc.**
2021203850 **Aristocrat Technologies Australia Pty Limited**

**Section 105 *Patents Act 1990* (Cth)**
**Advertisement pursuant to Part 34, Rule 34.41 of the *Federal Court Rules 2011***

**Identity of the proceedings in which the application will be made:**

Federal Court of Australia
District Registry: Western Australia
Division: General
NO. WAD 10 of 2021

**Parties to the proceedings:**

**Seed Terminator Holdings Pty Ltd** (Appellant / Cross-respondent)

**Mr Dean Mayerle** (Respondent / Cross-appellant)

**Particulars of the amendment sought:**

Mr Dean Mayerle, the Respondent / Cross-appellant in the preceding and Applicant of Australian Patent Application No. 2018208625 (the 625 Application), will seek an Order under Section 105(1A) of the *Patents Act 1990* (Cth) directing the amendment of the 625 Application as follows:

- Deleting all pages of the description and all pages of the claims of the complete specification for the 625 Application and substituting therefor the replacement pages of the description and the replacement pages of the claims submitted herewith (marked-up copies of the description pages and claim pages showing the nature and location of the proposed amendments are also submitted herewith).

**The address for service of the party seeking amendment is:**

C/- Clifford Gouldson Lawyers
Level 18, 239 George Street, Brisbane, Queensland, 4001

Phone: 07 4688 2127; 0417 715 649
Email: Ken.Philp@cglaw.com.au

Ref: KPP:20210289

Attention: Kenneth Philp

**Any person intending to oppose the application for amendment who is not a party to the proceeding must, not later than 28 days after publication of this advertisement, give written notice of that intention to the Commissioner and to each of the parties to the proceedings.**

AUSTRALIA
*Patents Act 1990*

Section 105

IN THE MATTER of Patent Application No. 2018208625 by Dean Mayerle

- and -

IN THE MATTER of Amendments thereto sought under Section 105

# Third Statement of Proposed Amendments

The following amendments are respectfully submitted:

DESCRIPTION

4. Delete all pages of the description and substitute therefor the replacement pages of the description submitted herewith.

CLAIMS

5. Delete all pages of the claims and substitute therefor the replacement pages of the claims submitted herewith.

DATED 18 August 2021

IP GATEWAY PATENT AND TRADE MARK ATTORNEYS

.....

Matthew Lord
Registered Patent Attorney

TO: The Commissioner of Patents
IP Australia
PO Box 200
Woden ACT 2606

18 Aug 2021
2018208625

# WEED SEED DESTRUCTION

## TECHNICAL FIELD

This disclosure relates to a weed seed destructor which can be attached to a combine harvester so that weed seeds in the discharged chaff can be devitalized before being spread onto the ground.

## DEFINITION

In the specification, the term "comprising" shall be understood to have a broad meaning similar to the term "including" and will be understood to imply the inclusion of a stated integer or step or group of integers or steps but not the exclusion of any other integer or step or group of integers or steps. This definition also applies to variations on the term "comprising" such as "comprise" and "comprises".

## BACKGROUND OF THE DISCLOSURE

The reference to prior art in this specification is not and should not be taken as an acknowledgment or any form of suggestion that the referenced prior art forms part of the common general knowledge in Australia or in any other country.

Combine harvesters harvest cereal grain crops, such as wheat, oats, rye, barley, corn, soybeans and flax. Grain and straw are separated in a combine harvester. Following the separation process, waste straw and chaff is supplied to a chopper for shredding and distributing back over the field in an even spread pattern.

During the harvesting process weed seeds and grain seed are discharged with the residue into the chopper and spread back onto the field. The combine is then effectively acting as a seeder to evenly spread the seed back onto the field. In a number of areas of the world herbicides are used heavily to control the weed seeds however this has led to weed seed that has become resistant to the herbicide. Grain seed has been developed to be resistant to specific herbicides, which depending on crop rotations can be a problem for subsequent crop.

It is known that if the seed can be removed or destroyed before the combine spreads it back onto the field the cycle can be stopped. Research has shown that, with three consecutive cycles of weed and grain removal, significant reductions in herbicide can be obtained providing huge saving for farmers.

One recent approach is shown in WO 2014/127408 published August 28th 2014 and assigned to Grains Research Development Corporation Australia which shows that a plurality of impacts at relatively high speed to the seeds with a stationary object causes a breakdown of the seeds sufficient to prevent germination. Thus they have developed a cage mill which is integrally mounted inside the combine harvester so as to receive waste material (discarded seeds and chaff) from the sieve. The cage mill assembly includes at least one rotating ring carrying a plurality of blades and a series of outer stationary rings or fixed blades. Thus the seeds are accelerated outwardly by escaping centrifugally from the rotating blades into the surrounding stationary blades of the outer rings where a series of impacts occur as the seeds move outwardly into and through the fixed blades. The seeds are released outwardly under the centrifugal force from the stationary blades and escape outwardly into a peripheral channel for discharge.

The document shows evidence that four impacts at relatively high speed are sufficient to cause the required breakdown of the seeds, for example to obtain a 95% kill rate.

However the cage mill shown is large and complex with numerous rings running in opposite directions. Should a rock, or other hard material enter the mill, the entire cage mill would need to be replaced. Thus the system may function to destroy the seeds but has practical difficulties as it is without consideration of other obstacles passing through the assembly. The assembly runs at a very high rotational speed, so the precision in manufacturing is critical. Although it is believed that this arrangement is closer to commercialization a number of problems remain with the design.

US Patent 3,448,933 (Roy) issued June 10 1969 describes a cone style grinding shear mill used to process weed seed. All excess chaff and weed seed is processed by the unit. However it is a permanently fixed grinder without a means to bypass material other than residue. It would also allow passage of small fine seeds as it would need to be set to the average seed size to allow adequate throughput.

US Patent 5,059,154 (Reyenga) issued October 22 1991 discloses a pair of rollers to mill seeds smaller than grain that are in the clean grain auger. This does not address seeds thrown over the back of the sieve and would not work if placed behind the sieve as today's combines the chaff stream and is often 6 inches thick which would cushion the seeds and allow the spread of live seed back onto the field.

In AU Published Application 2001/038781 an additional sieve is added to remove more of the chaff before milling, and separate the weed seed from the grain.

However this is not practical with today's combines. All combines throw out some grain and farmers want the herbicide tolerant grain removed as well.

US Patent 8,152,610 (Harrington) issued April 10 2012 discloses an arrangement which processes all the chaff coming off of the sieves and blows it to a trailing cart to pulverize all of the residue. The cart requires a second engine running in the dust of the combine and the mill requires a significant amount of power to pulverize and discharge the residue back onto the field. The cage mill disclosed is large and complex with numerous rings running in opposite directions. Again, the rings have no removable parts so should a rock, or other hard material enter it the entire cage mill would need to be replaced. The cost of this system will limit its commercial viability.

The term weed seed destruction used herein is used somewhat colloquially in that the seeds are not annihilated but are devitalized or rendered so that they cannot germinate. It will of course also be appreciated that not necessarily each and every seed is destroyed but that the intention is that a significant number will be incapable of germination so as to reduce the number of emerging seeds in the growing season.

## SUMMARY OF THE DISCLOSURE

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

said stator and said one or more stator surfaces of the stator being arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on said one or more stator surfaces.

Preferably the stator surfaces are movable in an adjustment movement relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed.

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Preferably the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

Preferably the stator surfaces can be set up or adjusted for different weed seed sizes.

Preferably the stator surfaces are replaceable.

Preferably the stator surfaces are hard surface coated.

Preferably the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

Preferably said stator and said one or more stator surfaces of the stator are arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor and such that the weed seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds.

Preferably at least one of the rotor surfaces and/or at least one of the stator surfaces is arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

Preferably the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are movable in an adjustment movement so as to change the number of impacts caused to each weed seed.

Preferably the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are replaceable.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material; and

said stator and said one or more stator surfaces of the stator being arranged such that the weed seeds impact on said one or more stator surfaces,

wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

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a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

said at least one discharge mouth being located so as to direct the second material underneath the bottom wall onto the spreading device.

Preferably said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the combine harvester and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across combine harvester and each arranged to direct the second material underneath the chopper housing onto the spreading device.

Preferably the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

Preferably the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge

location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

a guide wall component movable between a first position and a second position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the chopper housing with the straw.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

a guide wall component movable between a first position and a second position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw enters the spreading device; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the straw spreading device.

This arrangement can be used in conjunction with a conventional arrangement manufactured by CASEIH in which the chopper section is mounted internally within the combine housing instead of at the rear. Therefore at the rear is provided a rotary type spreader including typically two horizontal disks similar to the conventional chaff spreading system. Thus in this arrangement the chaff and weed seeds form the weed seed destruction section are directed by a guide onto the rotary straw spreader system for common spreading of all material. Again the combined spreading action and the additional air flow can enhance the spreading action to meet the objective of spreading at header width.

Preferably the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

Preferably the guide wall component comprises a front wall portion of the chopper housing which is pivotal about an axis across a front of the chopper housing and parallel to the axis of the chopper rotor.

Preferably the guide wall component includes a front position which extends from the chopper housing upward and forwardly so as to butt against or adjacent guide wall surfaces for the chaff and for the straw respectively.

Preferably there is provided a clutch for halting drive to the rotor of the weed seed destructor when the wall portion is in in the second position.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

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at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

at least the weed seed destructor being movable rearwardly of the combine harvester to allow access to a position between the weed seed destructor and the components of the combine harvester at the second discharge location.

Preferably the weed seed destructor section is slidable on a guide in a rearward direction.

Preferably both the straw chopper section and the weed seed destructor section are movable rearwardly of the combine harvester.

Preferably the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

According to another feature the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material;

said stator and said one or more stator surfaces of the stator being arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor; and

the rotor and stator being arranged such that the weed seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds,

wherein the housing includes a discharge opening for discharge of the feed material after the plurality of impacts, where the discharge opening is at a location different from the stator so that said weed seeds discharged from the rotor through said discharge opening do not pass through the stator.

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Preferably therefore the discharge opening for discharge of the feed material after the plurality of impacts the discarded seeds discharge from the rotor and do not pass through the stator but instead are rebounded away from the stator to discharge at a different location. In this way, any foreign bodies are not trapped in the stator to cause damage but instead can escape to the discharge.

In the preferred arrangement described in detail hereinafter, the rotor rotates around an axis so as to direct the discarded seeds centrifugally outwardly, and the stator surrounds the axis so as to rebound the discarded seeds back toward the axis and the discharge opening is arranged such that the discarded seeds discharge axially from within the stator.

In one arrangement the rotor is mounted directly under the first discharge location of the combine harvester with the rotor axis generally upright so that the feed material fold directly into the top of the housing on to the rotor along the axial direction of the rotor.

As an alternate embodiment the apparatus comprises a horizontally rotating tube, with auger flighting in the middle, moving the feed material or chaff to an impact zone at each end of the horizontal rotor. The discharge zone is then at the end and is arranged to expel into the straw chopper of the combine harvester.

Preferably as a feature of independent importance the feed material enters the housing axially of the rotor at one end and discharges axially from the opposite end of the rotor.

Preferably as a feature of independent importance there is provided a fan component for driving the discarded seeds from the opposite end radially outwardly.

Preferably as a feature of independent importance the stator includes a plurality of stator surface elements spaced angularly around the axis.

Preferably as a feature of independent importance individual seed engaging surface portions of each ~~the~~ stator surface elements ~~s~~ are arranged at an angle to a tangent of an imaginary cylindrical surface surrounding the axis.

Preferably as a feature of independent importance the angle of the seed engaging surface portions of the stator surface elements to the tangent is adjustable.

Preferably as a feature of independent importance the stator surface elements and/or the rotor surfaces are arranged to pivot so as to increase the spacing therebetween to allow the passage of foreign objects between the rotor and stator.

Preferably as a feature of independent importance the stator surface

elements are readily removable for replacement when damaged or worn.

Preferably as a feature of independent importance the stator surface elements include one or more fins extending generally around the axis.

Preferably as a feature of independent importance, the housing, when viewed in plan longitudinal of the axis of the rotor, is of polygonal shape to define a plurality of apexes at angularly spaced positions around the axis, and the stator surface elements in plan view includes a plurality of pairs of ~~stator~~ individual seed engaging surface portions which each form a V shape converging to a respective one of the apexes.

Preferably as a feature of independent importance the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

Preferably as a feature of independent importance the velocity of air along the rotor is adjustable to change the number of impacts a seed encounters during its passage.

Preferably as a feature of independent importance the rotor and the stator are arranged so that the impacts act to move the discarded seeds along the rotor so as to change the position along the rotor at which the impacts of the discarded seeds occurs.

Preferably as a feature of independent importance there is provided two housings each including a rotor and stator arranged side by side across the width of the discharge location.

Preferably as a feature of independent importance each of the housings is rotatable about the axis of the respective rotor to change an angle of the discharge around the axis.

According to ~~a~~ another feature of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location feed material including chaff and said weed seeds and at a second discharge location straw, the apparatus comprising:

a straw chopper section comprising:

a chopper housing for mounting at the second location on the combine harvester for receiving from the first discharge location a feed material containing separated straw separated by the combine harvester from harvested crop;

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a chopper rotor mounted in the housing for chopping the straw for discharge from the housing; and

a spreading device onto which the discharged straw is directed; and

a weed seed destruction section comprising:

a housing arranged to be mounted at the first location for receiving from the first discharge location the feed material containing separated chaff and said weed seeds;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material to cause impacts with the weed seeds,

wherein the housing includes a discharge opening for discharge of the feed material after the plurality of impacts,

wherein the straw chopper section and the weed seed destruction section comprise a common unit.

Preferably the common unit includes is a common drive from the combine harvester to the common unit.

That is preferably the weed seed destruction section is driven from the straw chopper section.

Optionally, the weed seed destruction section is driven from an intermediate chopper drive shaft or jackshaft in parallel with the drive to the chopper. That is a main drive belt from the chopper drive output pulley of the combine harvester communicates drive to a lay shaft or jack shaft and then two belts communicates in parallel to the horizontal transverse shaft of the chopper rotor and the horizontal transverse drive shaft underneath the two rotors of the weed seed destruction section

In the common unit preferably the weed seed destruction section is arranged such that material from the discharge opening can be fed into the straw chopper section.

In this arrangement there are preferably provided two housings each including a rotor and stator arranged side by side across the width of the second discharge location.

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In this arrangement preferably each of the housings is rotatable about the axis of the respective rotor to change an angle of the discharge around the axis such that the discharge opening can be directed to the side of the combine away from the straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.

In addition to the above defined features, the seed destruction section can include any of the features previously defined.

The arrangement as described hereinafter may provide one or more of the following features and advantages:

To provide a seed destroyer in which the residue does not pass through rotating or stationary rings of objects so that there is less potential for damage on passage of a solid object.

To provide a seed destroyer in which the impacting members of the destructor can be hard surface coated and easily removable for annual replacement and preparation for the next harvest.

To provide a seed destroyer in which the number of hits a seed impacts can be adjusted or tuned for optimum destruction.

To provide a seed destroyer which can allow passage of debris such as rocks and other hard objects without damage or destruction, and has replaceable parts should the object cause damage.

To provide an integrally mounted seed destroyer in which the trajectory of the discharge can be changed from the side of the combine, to the back of the combine tailboard, or into the chopper so that the residue can be spread with the straw.

Definitions of specific embodiments of the disclosure as herein claimed follow.

According to a first embodiment there is provided a combine harvester comprising:

a separation system for separating from harvested crop a first material comprising straw and a second material comprising chaff and weed seeds;

a straw spreading device for receiving the first material and spreading the first material at least to sides of the combine harvester;

a destructor rotor housing arranged to receive the second material;

a destructor rotor arrangement mounted in the destructor rotor housing for rotation about a rotor axis and including rotor surfaces thereon for engaging the

second material and for accelerating the second material in a direction generally outwardly of the rotor axis; and

at least one stator arrangement mounted at a location outwardly of the rotor axis for engaging the weed seeds in an accelerated said second material to cause a plurality of impacts with the weed seeds,

wherein:

the stator arrangement comprises a stator support structure surrounding the rotor axis and a plurality of stator surface elements mounted on the stator support structure at positions on the stator support structure angularly separated around the rotor axis;

each of the stator surface elements carry (i.e. each of the stator surface elements has, as at least part of the stator surface element) a plurality of individual seed engaging surface portions;

each individual seed engaging surface portion of each stator surface element extends generally parallel to the rotor axis and, in a plane radial to the rotor axis, forms an angle which is different from an angle of other seed engaging surface portions of the stator surface element;

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is separate from other said stator surface elements; and

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is removable from the stator support structure and is replaceable.

~~According to a second embodiment there is provided a combine harvester comprising:~~

~~a separation system for separating from harvested crop a first material comprising straw and a second material comprising chaff and weed seeds;~~

~~a straw spreading device for receiving the first material and spreading the first material at least to sides of the combine harvester;~~

~~a destructor rotor housing arranged to receive the second material;~~

~~a destructor rotor arrangement mounted in the destructor rotor housing for rotation about a rotor axis and including rotor surfaces thereon for engaging the second material and for accelerating the second material in a direction generally outwardly of the rotor axis;~~

~~at least one stator arrangement mounted at a location outwardly of the rotor axis for engaging the weed seeds in an accelerated said second material to cause a plurality of impacts with the weed seeds,~~

~~wherein:~~

~~the stator arrangement comprises a stator support structure surrounding the rotor axis and a plurality of stator surface elements mounted on the stator support structure at positions on the stator support structure angularly separated around the rotor axis;~~

~~each of the stator surface elements carry a plurality of individual seed engaging surface portions;~~

~~each individual seed engaging surface portion of each stator surface element extends generally parallel to the rotor axis and, in a plane radial to the rotor axis, forms an angle which is different from an angle of others of said surface portions of the stator surface element;~~

~~each stator surface element comprises a sheet metal plate which is bent to define at least two individual surface portions thereof at different angles;~~

~~each stator surface element carrying the plurality of individual seed engaging surface portions thereon is separate from other said stator surface elements; and~~

~~each stator surface element carrying the plurality of individual seed engaging surface portions thereon is removable from the stator support structure and is replaceable.~~

Other embodiments of the disclosure ~~are~~ described herein are defined in the following paragraphs:

1. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a first housing component arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the first housing component having a plurality of chopping blades for chopping the straw for discharge from the first housing

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component; and

a spreading device for receiving the straw discharged from the first housing component and spreading the discharged straw to rear and sides of the first housing component; and

a weed seed destruction section comprising:

a second housing component arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the rotor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts,

wherein the first and second housing components comprise a common assembly arranged for common mounting on the combine harvester.

2. The apparatus according to paragraph 1 wherein there is a common drive from the combine harvester to the common assembly.

3. The apparatus according to paragraph 2 wherein the common drive comprises a drive transfer member connecting the rotor arrangement of the weed seed destruction section and the straw chopper rotor.

4. The apparatus according to paragraph 2 wherein the common drive comprises a drive transfer members connecting the rotor arrangement of the weed seed destruction section in parallel with the straw chopper rotor.

5. The apparatus according to any one of paragraphs 1 to 4, wherein the chopper rotor has a horizontal drive shaft extending transversely across the first housing component with a first drive coupling at one end at a first side of the common housing unit and wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component with an input shaft extending transversely of the second housing

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component across the bottom of two rotors with a second drive coupling at one end at said first side of the common housing unit and wherein the common drive drives both of said first and second drive couplings.

6. The apparatus according to any one of paragraphs 1 to 5, wherein the discharge mouth is oriented to direct the second material onto the spreading device while bypassing the chopper rotor.

7. The apparatus according to any one of paragraphs 1 to 6, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

8. The apparatus according to any one of paragraphs 1 to 7, wherein said at least one discharge mouth is arranged so as to direct the second material underneath a bottom wall of the chopper housing onto the spreading device.

9. The apparatus according to any one of paragraphs 1 to 8, wherein the discharge mouth is adjustable for directing the second material from the discharge mouth to a selected one of a plurality of positions including a first position in which the second material is directed away from the straw chopper and a second position in which the second material is directed onto the chopping blades and a third bypass position arranged to direct the second material onto the spreading device while bypassing the chopping rotor.

10. The apparatus according to any one of paragraphs 1 to 9, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across the common assembly and each arranged to direct the second material onto the spreading device while bypassing the chopping blades.

11. The apparatus according to any one of paragraphs 1 to 10, wherein the second housing component has a base fixed relative to the first housing components and wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side on said base.

12. The apparatus according to paragraph 11, wherein the base is attached to

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the first housing component at sides thereof.

13. The apparatus according to any one of paragraphs 1 to 12, wherein said stator and said one or more stator surfaces of the stator are arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on said one or more stator surfaces.

14. The apparatus according to any one of paragraphs 1 to 13, wherein the stator surfaces are adjustable relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed, either at set up or during operation.

15. The apparatus according to any one of paragraphs 1 to 14, wherein the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

16. The apparatus according to any one of paragraphs 1 to 15, wherein the stator surfaces are replaceable.

17. The apparatus according to any one of paragraphs 1 to 16, wherein the stator surfaces are hard surface coated.

18. The apparatus according to any one of paragraphs 1 to 17, wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

19. The apparatus according to any one of paragraphs 1 to 18, said stator and said one or more stator surfaces of the stator are arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor and such that the weed seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds.

20. The apparatus according to any one of paragraphs 1 to 19, wherein at least one of the rotor surfaces and/or at least one of the stator surfaces is arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

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21. The apparatus according to any one of paragraphs 1 to 20, wherein the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

22. The apparatus according to any one of paragraphs 1 to 21, wherein there is provided a guide wall component movable between a first position and a second position where in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing and in the second position the chaff and said weed seeds from the second discharge location are directed into the chopper housing with the straw.

23. The apparatus according to paragraph 22, wherein the guide wall component comprises a front wall portion of the chopper housing which is pivotal about an axis across a front of the chopper housing and parallel to the axis of the chopper rotor.

24. The apparatus according to paragraph 22 or paragraph 23, wherein the guide wall component includes a front position which extends from the chopper housing upward and forwardly so as to butt against or adjacent guide wall surfaces for the chaff and for the straw respectively.

25. The apparatus according to any one of paragraphs 22 to 24, including a clutch for halting drive to the rotor of the weed seed destructor when the wall portion is in in the second position.

26. The apparatus according to any one of paragraphs 22 to 25, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

27. The apparatus according to any one of paragraphs 1 to 26, wherein at least the weed seed destructor is movable rearwardly of the combine harvester to allow access to a position between the weed seed destructor and the components of the combine harvester at the second discharge location.

28. The apparatus according to paragraph 27, wherein the weed seed destructor section is slidable on a guide in a rearward direction.

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29. The apparatus according to paragraph 27 or paragraph 28, wherein both the straw chopper section and the weed seed destructor section are movable rearwardly of the combine harvester.

30. The apparatus according to any one of paragraphs 27 to 29, wherein the spreading device is moveable rearward with the weed seed destructor section.

31. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a first housing component arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the first housing component having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the first housing component and spreading the discharged straw to rear and sides of the first housing component; and

a weed seed destruction section comprising:

a second housing component arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the rotor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts,

wherein there is a common drive from the combine harvester comprising a drive transfer member connecting the rotor arrangement of the weed seed destruction section and the straw chopper rotor.

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32. The apparatus according to paragraph 31, wherein the drive transfer member connects the rotor arrangement of the weed seed destruction section in parallel with the straw chopper rotor from a common drive input.

33. The apparatus according to paragraph 31 or paragraph 32, wherein the chopper rotor has a horizontal drive shaft extending transversely across the first housing component with a first drive coupling at one end at a first side of the common housing unit and wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component with an input shaft extending transversely of the second housing component across the bottom of two rotors with a second drive coupling at one end at said first side of the common housing unit and wherein the common drive drives both of said first and second drive couplings.

34. The apparatus according to any one of paragraphs 31 to 33, wherein the discharge mouth is oriented to direct the second material onto the spreading device while bypassing the chopper rotor.

35. The apparatus according to any one of paragraphs 31 to 34, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

36. The apparatus according to any one of paragraphs 31 to 35, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across the common assembly and each arranged to direct the second material onto the spreading device while bypassing the chopping blades.

37. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge

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location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

said at least one discharge mouth being oriented so as to direct the second material onto the spreading device while bypassing the chopping rotor.

38. The apparatus according to paragraph 37, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

39. The apparatus according to paragraph 37 or paragraph 38, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the combine harvester and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across combine harvester and each arranged to direct the second material onto the spreading device while bypassing the chopping rotor.

40. The apparatus according to paragraph 39, wherein each of the discharge mouths is rotatable about an axis of the respective rotor to change an angle of the discharge around the axis.

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41. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material; and

said stator and said one or more stator surfaces of the stator being arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on said one or more stator surfaces.

42. The apparatus according to paragraph 41, wherein the stator surfaces are adjustable relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed, either at set up or during operation.

43. The apparatus according to paragraph 41 or paragraph 42, wherein the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

44. The apparatus according to any one of paragraphs 41 to 43, wherein the stator surfaces are replaceable.

45. The apparatus according to any one of paragraphs 41 to 44, wherein the stator surfaces are hard surface coated.

46. The apparatus according to any one of paragraphs 41 to 45, wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

47. The apparatus according to any one of paragraphs 41 to 46, said stator and said one or more stator surfaces of the stator are arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor and such that the weed seeds rebound back and forth between the rotor and the stator to provide a

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plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds.

48. The apparatus according to any one of paragraphs 41 to 47, wherein at least one of the rotor surfaces and/or at least one of the stator surfaces is arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

49. The apparatus according to any one of paragraphs 41 to 48, wherein the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

50. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are adjustable relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed, either at set up or during operation.

51. The apparatus according to paragraph 50, wherein the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

52. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or

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more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are replaceable.

53. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material; and

said stator and said one or more stator surfaces of the stator being arranged such that the weed seeds impact on said one or more stator surfaces,

wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

54. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

said at least one discharge mouth being arranged so as to direct the second material underneath a bottom wall of the chopper housing onto the spreading device.

55. The apparatus according to paragraph 54, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the combine harvester and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across combine harvester and each arranged to direct the second material underneath the bottom wall of the chopper housing onto the spreading device.

56. The apparatus according to paragraph 54 or paragraph 55, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

57. The apparatus according to any one of paragraphs 54 to 56, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

58. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

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a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

a guide wall component movable between a first position and a second position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the chopper housing with the straw.

59. The apparatus according to paragraph 58, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

60. The apparatus according to paragraph 58 or paragraph 59, wherein the guide wall component comprises a front wall portion of the chopper housing which is pivotal about an axis across a front of the chopper housing and parallel to the axis of the chopper rotor.

61. The apparatus according to any one of paragraphs 58 to 60, wherein the guide wall component includes a front position which extends from the chopper housing upward and forwardly so as to butt against or adjacent guide wall surfaces for the chaff

and for the straw respectively.

62. The apparatus according to any one of paragraphs 58 to 61 including a clutch for halting drive to the rotor of the weed seed destructor when the wall portion is in in the second position.

63. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least the weed seed destructor being movable rearwardly of the combine harvester to allow access to a position between the weed seed destructor and the components of the combine harvester at the second discharge location.

64. The apparatus according to paragraph 63, wherein the weed seed destructor section is slidable on a guide in a rearward direction.

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65. The apparatus according to paragraph 63 or paragraph 64, wherein both the straw chopper section and the weed seed destructor section are movable rearwardly of the combine harvester.

66. The apparatus according to any one of paragraphs 63 to 65, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

67. The apparatus according to any one of paragraphs 63 to 66, wherein the spreading device is moveable rearward with the weed seed destructor section.

68. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester; and

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

a guide wall component movable between a first position and a second

position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw enters the spreading device; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the straw spreading device.

## BRIEF DESCRIPTION OF THE DRAWINGS

One embodiment of the disclosure will now be described in conjunction with the accompanying drawings in which:

Figure 1 is an isometric view of an apparatus for destruction of weed seeds according to the present disclosure which is arranged in a first embodiment where the weed seed destruction section is mounted at a position on a combine harvester at the rear of the sieve so as to discharge the chaff and destroyed seeds away from the straw chopper to both sides of the combine harvester.

Figure 2 is an isometric view from the front and one side of the combined apparatus including the straw chopper section and the weed seed destruction section of Figure 1.

Figure 2A is an isometric view from the rear and the other side of the combined apparatus including the straw chopper section and the weed seed destruction section of Figure 1.

Figure 3 is an isometric view of the weed seed destruction section of Figure 1 separate from the combine harvester with the discharge housing arranged for discharge to the sides.

Figure 4 is a top plan view of the weed seed destruction section of Figure 3 separate from the combine harvester with the discharge housing arranged for discharge to the rear.

Figure 5 is an isometric view of the weed seed destruction section of Figure 3 with a part of the housing removed.

Figure 6 is an isometric view of the weed seed destruction section according to the present disclosure which is arranged to feed the discharged material into the chopper rotor of the straw chopper section at the center thereof.

Figure 7 is an isometric view of the apparatus of Figure 6 adjusted to feed

the discharged material into the straw chopper section at the sides so as to by-pass the rotor and feed directly onto the tailboard.

Figure 8 is a side elevational view of the apparatus of Figure 2 showing the drive system to the combined apparatus including the straw chopper section and the seed destructor section.

Figure 9 is a plan view of an alternative arrangement of the weed seed destruction section where the rotors are arranged to rotate about a horizontal axis and thus rotate in a vertical plane to discharge rearwardly.

Figures 10A and 10B are isometric views of another embodiment of an apparatus for destruction of weed seeds according to the present disclosure where Figure 10~~A~~B shows the structure of one rotor assembly with the cover in place and the other omitted and Figure 10~~B~~A shows the structure of one rotor assembly with the cover removed.

Figure 11 is an isometric view from one side and the rear of the combined apparatus including the straw chopper section and the weed seed destruction section of the above Figures.

Figure 12 is an isometric view from one side and the front of the combined apparatus including the straw chopper section and the weed seed destruction section of Figure 11.

Figure 13 is a cross-sectional view of the apparatus of Figures 11 and 12 mounted on a combine harvester and showing the apparatus in a rearwardly displaced position providing access to the sieve of the combine harvester

Figure 14 is a cross-sectional view of the apparatus of Figures 11 and 12 mounted on a combine harvester and showing the apparatus in a first operating position in which the straw passes through the chopper housing and the chaff and weed seeds pass through the seed destructor section.

Figure 15 is a cross-sectional view of the apparatus of Figures 11 and 12 mounted on a combine harvester and showing the apparatus in a second operating position in which both the chaff and weed seeds and the straw pass through the chopper housing.

In the drawings like characters of reference indicate corresponding parts in the different figures.

DETAILED DESCRIPTION

The apparatus herein is shown in Figure 1 mounted on a combine harvester 1 carried on ground wheels 3 and including harvesting components of a conventional nature the rearmost one of which is the sieve 2 which discharges chaff and discarded seeds including weed seeds to the rear edge 4 of the sieve.

The combine harvester includes a chopper and discharge arrangement 9 shown in Figures 1 and 6 is basically as shown in US Patent 6840854 issued January 11 2005 to Redekop, the disclosure of which is incorporated herein by reference. The chopper thus comprises a housing 10 defined by a top wall 11, a bottom wall 12 and two end walls 13. The end walls 13 include attachment means 13A for attachment of the housing to the outlet of a combine harvester for discharge of straw and optionally chaff from the combine harvester into an inlet opening 15 of the housing 10. The bottom wall 12 defines a semi-cylindrical portion extending from the inlet 15 to an outlet 16 through which chopped straw and air is discharged at relatively high velocity for spreading across the field or for transportation into a container.

Within the housing is mounted a hub 17 which is carried on suitable bearings 31 for rotation about a hub axis 18 at a center of the housing so that blade members 19 carried by the hub sweep around within the housing to entrap straw fed through the inlet 15 and to carry the straw and air past stationary blades 20 for chopping and for discharge through the outlet 16. The stationary blades 20 are mounted on the housing at a position approximately midway between the inlet 15 and the outlet 16 so that the blade members 19 sweep between the stationary blades in a cutting action.

The hub 17 carries a plurality of lugs 21 at angularly and axially spaced positions therealong with each lug mounting a pair of blades 19 for pivotal movement of the blade members 19 about a pin 22 parallel to the axis 18. Each of the lugs 21 carries a pair of the blades 19. Each lug 21 is aligned with a respective one of the stationary blades 20 so that each stationary blade has associated with it a respective one of the lugs and thus has associated with it the pair of blades carried by that lug.

In this arrangement of the chopper, there is provided three axially spaced sections of the chopper assembly including a first fan section 30 at one end of the hub 17 and the second fan section at the other end of the hub 17. In-between the two narrow fan sections 30 is defined a center section 30A which provides the whole of the cutting action.

Within the center section 30A all of the blades 19 are formed with a cutting edge lying in a radial plane of the axis. The blades are preferably of the conventional flat blade type with a leading and trailing chamfered edge. Thus each of the two cutting blades 19 in the center section can pass closely on either side of a respective one of the stationary blades 20. Thus the stationary blades can be spaced by a distance which is just sufficient to allow the passage there between of the preferably flat cutting blade. In the preferred arrangement, the spacing between the stationary blades is thus small in that the stationary blades are not sufficiently spaced to allow the passage there between of a fan type blade.

In the fan sections 30, there is provided a ring 33 which is mounted on the hub 17 at a respective end of the hub. The ring thus surrounds the cylindrical wall of the hub and stands outwardly therefrom just beyond the end of the center section defined by the stationary blades and the blades 19 carried on the hub.

The rings 33 each carry a plurality of fan blades 34 at spaced positions around the ring. The fan blades 34 are arranged thus so that each follow directly behind the next at the same axial location.

Each of the fan blades 34 is bent with a fan blade portion so that each of the fan blades is of the shape shown in Figure 3 of US patent 5,482,508 of Redekop, the disclosure of which is incorporated herein by reference. However the fan blades 34 do not necessarily have a sharpened leading edge since there is intended to be no cutting action in the fan section. Thus the fan blades are spaced from the end most stationary blade 19 so that in effect no cutting action occurs in this section.

The bent fan blade portion stands outwardly to one side of the flat plate portion of the fan blade 34. The fan blade portion which is bent at right angles to the main body of the fan blade is maximised in dimension so that it may be rectangular. This large blade area together with the presence of the six blades provides a large fan blade area which generates a significant air flow.

The fan blade portion is inclined forwardly and outwardly so that at a regularly outer position toward the outer end of each fan blade the fan blade portion is angularly advanced relative to its position closer to the axis of the hub. This incline outwardly and forwardly significantly increases the air flow effect driving the air in the greater volume and at higher speed radially from the fan section and outwardly of the exit 16.

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Preferably the fan section comprises only a single row of the six fan blades but in some cases an additional row or rows may be provided although this is not preferred. The fan blades are arranged immediately adjacent the end walls 13 so that they take up minimum space at the end of the chopper assembly. It will be appreciated that the intention is to provide maximum air flow in the fan sections while taking up minimum dimensions so that the maximised chopping effect to provide shortest material is achieved within the center section using the flat blades.

The above arrangement of straw chopper section is one example only of arrangements which can be used herein.

The chopper and spreading assembly 9 is arranged to be mounted at a rear straw discharge 101 of the combine harvester 1 and includes the housing 10, the rotor 17 mounted in the housing 10 for rotation around a generally horizontal axis and carrying the plurality of chopper blades 19 for chopping the discharge material.

At the exit 16 is provided the material spreading assembly which can be the form of a tailboard 16A with guide fins 16B for receiving the chopped material and spreading the material to the rear and sides of the combine harvester.

An apparatus 35 for destroying seeds comprises a body 36 carried on a frame 37 mounted at a suitable location on the combine harvester by mounting arrangements of a conventional arrangement. The body provides two side by side housings 38, 39 each located adjacent a respected half of the discharge location the feed material containing separated chaff and discarded seeds separated by the combine harvester from harvested crop. In the embodiment shown in Figure 1, the housings are located at the rear edge 4 of the sieve 2.

Each of the housings, as best shown in Figures 3, 4 and 5 includes an upper impact section 40 and a lower fan section 41. The upper section 40 includes a housing 42 which is polygonal (in this example octagonal) in plan view with apexes 43A, 43B, 43C etc. The housing 42 incudes a top wall 44 connected to the polygonal side wall and defining a circular opening 45 arranged to be mounted at the discharge location of a combine harvester for receiving from the sieve the chaff and discarded seeds including the weed seeds.

A rotor 46 is mounted in the housing for rotation about an upstanding axis 47 at right angles to a bottom base of the housing axis. The rotor includes a cylindrical hub 46A carrying upper and lower sets of blades 46B and 46C. The sets are spaced axially. The individual blades of the set are spaced angularly. The sets are carried above

and below respectively a series of angularly spaced lugs 46D on pins 46E so as to act as flails.

Each blade includes as best shown in Figure 5 a base plate 46F lying in a radial plane and a blade portion 46G turned out of the radial plane so as to act as a fan blade to drive entrained air and the material centrifugally outwardly from the axis of the rotor.

Thus the rotor includes components thereon defined by the two sets of blades for engaging the feed material and for accelerating the feed material in a centrifugal direction away from the rotor.

In the housing 42 around the rotor 46 is provided a stator 48, at least part of which is defined by the inside surface of the polygonal housing ~~40~~ 42, and the stator 48 is arranged at a location centrifugally outside the rotor 46 so that the material and discarded seeds thrown outwardly impact on the stator 48. The stator 48 also includes, as parts thereof, a series of stator surface elements 48A for engaging the discarded seeds in the accelerated material. ~~and~~ The stator surface elements 48A are arranged such that the discarded seeds impact thereon and rebound therefrom back toward the rotor 46.

Thus the rotor 46 and stator 48 are arranged such that the discarded seeds rebound back and forth between the rotor 46 and the various parts of the stator 48 to provide a plurality of impacts on the feed material to destroy the seeds.

The housing 42 includes a discharge opening defined by a circular inner edge 50A of a plate 50 lying in a radial plane of the housing between the impact section 40 and the fan section 41. Thus the bottom of the impact section 40 is defined by the bottom plate 50 so that air and the entrained material is directed downwardly into the fan section 41 for discharge of the feed material after the plurality of impacts. As the air and entrained material passes downwardly, the discarded seeds discharge from the rotor and do not pass or escape outwardly through the stator 48. That is, in the impact section 40, the various parts of the stator 48 wholly or substantially wholly surrounds the rotor ~~section~~ 46 to prevent the seeds from escaping radially. That is all of the seeds are rebounded back inwardly to the rotor and move downwardly while rebounding back and forth until they pass out of the impact section 40 at the bottom through the hole 50A in the plate 50 into the fan section 41.

Thus the rotor 46 rotates around the axis 47 so as to direct the discarded seeds centrifugally outwardly. The various parts of the stator 48 surrounds the axis 47

so as to rebound the discarded seeds back toward the axis and the discharge opening is arranged such that the discarded seeds discharge axially from within the stator 48. In this way, the feed material containing the discarded seeds enters the housing axially of the rotor at the top end and discharges axially from the bottom end of the rotor into the fan section, where the material is accelerated radially outwardly into a channel defined by a peripheral wall 41A which spirals gradually outwardly from a leading edge to a trailing edge 41B so as to define an outlet location 41C.

Thus the fan section 41 shown in plan in Figure 4 at the top includes a series of blades 41F carried on the rotor 46A underneath the plate 50 so that the fan components act for driving the discarded seeds from the opposite or bottom end of the rotor 46 radially outwardly to the discharge opening 41C at the trailing edge 41B.

As best shown in Figure 5, each of the stator surface elements 48A comprises a generally V-shaped body, and more specifically, ~~with~~ each stator surface element 48A carries (i.e. has as at least part of the stator surface element 48A) two individual seed engaging surface portions in the form of respective walls 48B and 48C which converge~~ing~~ to an apex 48D, ~~which~~ and each stator surface element 48A is located at one of the apexes of the polygonally shaped housing 42. In Figure 5 is shown one of the stator surface elements 48A and it will be noted that the individual seed engaging surface portion (wall) 48C against which the seeds are primarily directed as the rotor 46 turns clockwise is arranged at an angle to a tangent T of an imaginary cylindrical surface surrounding the axis. Thus the seed engaging surface portion (wall) 48C is inclined forwardly and inwardly so that the seeds moving with the rotor and outwardly of the rotor impact against the seed engaging surface portion 48C and are rebounded inwardly. The stator surface ~~portion~~ element 48A is mounted at the apex 48D by a hinge pin 48H which allows the angle of the ~~stator surface~~ seed engaging surface portion 48C to the tangent T to be adjustable to change the level of aggression in the rebound action.

Also the hinged mounting of the stator surface ~~portion~~ elements 48A allows them ~~stator surfaces~~ to pivot to allow the passage of foreign objects between the rotor 46 at the outer tips of the blades 46B, 46C and the parts of the stator 48 ~~as~~ defined by the stator surface ~~portions~~ elements 48A. Also the stator surface ~~portions~~ elements 48A are readily removable for replacement by pulling the support pin 48H when damaged or worn.

Also the stator surface ~~portions~~ elements 48A include one or more fins 48G

lying in a plane at right angles to the walls 48B, 48C and thus extending in a radial plane around the rotor. The stator 48 has an overall octagonal shape and there are four of the stator surface ~~portions~~ elements 48A at four of the apexes of the polygon leaving the remainder of the inner surface of the octagon exposed to act as ~~the~~ a further stator surface. This further stator surface surrounds the whole of the rotor and hence prevents outward escape of any material, thus confining the material to move downwardly into the fan section for ejection.

The rotor 46 which carries both the blades of the impact section and fan blades 41F of the discharge fan section 41 as best shown in Figure 8, is driven by a hydraulic drive motor 46H, the rotational speed of which is adjustable to change the speed of the impact blades and thus the number of impacts a seed encounters during its passage.

Also the velocity of air along the rotor through the impact section from the opening at the top plate 44 to the discharge plate 50 is adjustable to change the number of impacts a seed encounters during its passage.

The rotor and particularly the stator are shaped and arranged so that the impacts and rebounding action act to move the discarded seeds along the rotor from the feed opening at the top plate 44 to the discharge opening at the plate 50 so as to change the position along the rotor at which the impacts of the discarded seeds occur~~s~~. Thus the seeds as they rebound back and forth move through the impact section at a rate depending on the shape and position of the stator and its various impact surfaces and depending on the rotation rate of the rotor and the air speed through the impact section.

In a typical walker style combine there is a large space between chopper 9 and the end of the sieve 2. In this case the seed destructor 36 is mounted at the end of the sieve 2. In this position, the discharge openings 41C of the fan section 41 are located by rotating the housings 38, 39 so that the seed destructor discharge is set to the side because the discharges are not close enough to the chopper 9 to allow feeding into the chopper.

The seed destructor is made up of two rotating drums or rotors 46 within the housings 38 and 39 rotating in opposite directions. The housings are rotatably mounted on the frame 37 so that the discharge 41C can be pointed in the direction required. Although this is shown as a fixed mounting it could be easily designed as a movable mounting so the operator could change it quickly as desired. In one

arrangement the adjustment can be obtained conveniently by rotation of the housing around the axis of the rotor.

The impact section 40 contains in the stator 48, replaceable, adjustable impact plates or stator surface ~~portions~~ elements 48A, ~~in~~ which the residue that is dropped into the seed destructor housing is flung against by the rotors 46 with blades 46B and 46C. The residue is deflected back by the stator 48 into the rotating blades for another hit.

The fan section 41 at the bottom of the housing acts to accelerate the residue for spreading back onto the field or into the chopper or into the chopper fins as desired.

The rotors can be driven by hydraulic motors which power and mount the rotating hubs 46 in which case the motors are mounted to the frame 37.

The ~~impact plates~~stator surface elements 48A are rotatably adjustable at the apex 48D and designed to deflect the residue back into the high speed blades. The guide fins 48G on the ~~impact plates~~stator surface elements serve to control the angle that the residue is deflected and therefore the number of times the residue rotates in the housing and thus the number of hits a seed encounters in its passage through the destructor. The ~~impact plates~~ stator surface elements 48A are replaceable and are hard surface coated for a longer life.

At the bottom of the housing assembly below the fan section 41 is provided a bottom plate 60 closing the bottom of the fan section 41 below the plate 50. In the plate 60 is defined an air inlet schematically indicated at 62 which regulates the flow of exterior air into the fan section through the plate 60. The opening size of the air inlet 62 can also be varied by an adjustment 62A. As the adjustment 62A controls the amount of air entering into the fan section, this adjustment increases or reduces the amount of air drawn through the opening 50A in the plate 50 and thus also serves to change the speed of the residue flowing through the assembly. The air inlet 62 can be regulated so that, as it is closed off, the speed of the residue flow increases, to the point when closed, all air is sucked in from the top of the assembly at the plate 44, to be discharged with the fan in the discharge zone 41. When entirely opened the majority of the air is drawn from the bottom plate 60 of the assembly and the speed of the residue flowing through the assembly is reduced allowing for more impacts.

A third method to adjust the number of impacts a seed encounters through the assembly is of course with the speed of the rotor 46. The drive system to the rotor

can be controlled by the combine or by a separate driver operated control and the speed of the assembly can be increased or decreased depending on factors such as seed size, residue toughness, or residue size including factors such as corn cob size and moisture content or sunflower head size.

In a preferred arrangement, the seed destructor section 36 is integrated into the chopper 9 as a common unit with the chopper 9. In this arrangement the seed destruction section 36 acts ~~two~~to receive all residue from the sieves. The weed seeds are destroyed in the seed destructor and can be ejected into the chopper for spread with the straw residue on the tailboard 16A.

In this arrangement the combination of all of the residue from both the sieves and the straw exit into the chopper allows the destroyed seeds and chaff residue to mix with the straw residue and be spread in a much wider spread pattern. That is in Figure 6, the discharge openings 41C from the fan section 41 of the seed destruction section 36 are turned on the frame 37 so that they are directed to the center of the inlet 12 of the chopper 9.

Alternatively the chaff residue and destroyed seeds expelled from the seed destructor at the discharge openings 41C is expelled at the sides of the chopper at the fan sections 30 so as to bypass the center chopper section of the chopper so as to be directed by the chopper into the fins of the chopper for mixing on the tailboard 16A and spreading with the straw residue from the chopper.

As a third option, the discharge openings 41C can be positioned to the side to spread to the side of the combine as shown in Figure 1. Thus the seed destruction section 36 is a part of or closely associated with the chopper 9. However the position of the outlet in the embodiment of Figure 14 can be adjusted to the side in the same manner by rotation of the housings on the frame 37.

Thus the destruction section 36 and the chopper 9 form a common unit which can be supplied as a common assembly for attachment to the combine harvester. The common unit may include a common frame. The common unit can include a common drive arrangement by which a single output drive from the combine harvester is directed to the common unit and then directed by the drive mechanism to the chopper rotor and to the seed destruction section. The common unit can be arranged so that in one or more adjustment positions of the seed of destruction section the output from the fan section is directed into the chopper for common distribution into the field. It is also possible in this arrangement that the seed destruction section be adjusted so that the

output therefrom is directed into the field bypassing the chopper.

In an arrangement where the space between the sieve 2 and the straw outlet is greater than can be accommodated by direct feed from the sieve into the inlet of the seed destruction section, a feed duct or other transfer arrangement can be provided.

Thus the combined apparatus comprises the straw chopper 9 as described above together with the apparatus for destroying weed seeds as described above where the discharge opening of the housing is arranged such that the discharge opening can be directed to the side of the combine away from the straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.

As an alternate embodiment shown in Figure ~~8~~ 9 the apparatus can be designed as a horizontal tube 70 into which the material is fed from the sieve 2 by a feed duct 2A. This can be readily located at this position by a combine manufacturer as a horizontal duct in their combine at a position ahead of the rear discharge for chaff.

The tube 70 has a transverse shaft 71 driven at one end 72 and carried on end walls of the tube 70 at bearings 73. The shaft carries auger flighting 74A, 74B in the middle moving chaff outwardly to an impact zone 75 at each end of the horizontal rotor. The arrangement thus provides a seed destructor symmetrical to and operating in the same manner as that previously described but arranged in an orientation ~~at~~ of 90 degrees to that shown previously and rotating in a vertical plane about a horizontal axis defined by the shaft 71. Thus the destructor 75 includes a rotor 77 and stator 78 as previously described and a fan section 79 so that the discharge zone 76 is located at the end to expel into a secondary spreading device, or into a straw chopper or into the tail board fins of the straw chopper.

As shown in Figures 2A and 8 the housing of the chopper section 9 and the seed destructor section 35 are formed as a common or integral construction coupled together as single or common unit which can be mounted on the combine harvester at the rear of the combine so as to be associated with the rear straw discharge and the rear chaff discharge.

The chopper 9 has an input drive pulley 9A connected to the rotor 17 driven by a belt 9C or other drive component or pulley assembly 9B from the combine. In addition the pulley 9A of the chopper drives an output pulley 9D which communicates drive to the seed of destruction section 35 through a pulley 9E driven by a belt 9F. In the arrangement shown the pulleys 9A and 9D are mounted at the same end of the rotor

17 but this is not essential. The drive 9B to the chopper can be as shown where the output shaft 9G of the combine drives a belt 9H connected to a pulley system 9K to drive the belt 9C; but of course other drive arrangements can be used such as a shaft from an output gearbox.

A shroud or hood 35A is over the seed destructor section to allow for the chaff to be directed underneath the hood into the seed destructor. A roller 35B is required at the leading edge of the hood 35A to eliminate material buildup on the leading edge which could cause possible plugging. The roller rotates in a clockwise direction at 200-500 rpm to roll any long straw over to the chopper section 9 while the chaff and weed seeds flow under the hood the destructor section 35.

While the arrangement shown herein is shown as an externally mounted chopper carried on the combine harvester at the rear straw discharge, some combines include an internal chopper mounted in the housing at a position in advance of the rear discharge. In this arrangement the seed destructor section can be located at the chaff discharge and arranged to direct material into the internal chopper or away from the internal chopper to the ground. In this case the internal chopper does not cooperate directly with a spreading system such as a tail board.

Turning now to Figure 10, there is shown a modified embodiment of the seed destructor which includes a housing 80 with base 81 and a spiral outer surface 82 upstanding from the base and extending to an outlet or discharge mouth 96. Inside a center part of the spiral is provided a central inlet 83 for feeding the material from the sieve containing the chaff and weed seeds onto a rotor 84 mounted on a hub 85. Around the hub 85 is provided a plurality of pivot pins or bolts 86 each carrying a flail blade 87.

Around the rotor is provided two stationary annular coaxial perforated plates 89 and 90 with one inside the other. Each plate has holes through the surface so that the rotor flails 87 acts to accelerate, impact and wipe the material across the inside surface of the inner annular plate 89 to impact, shear and force some of the material through the holes. The edges of the screen holes also create contact surface to create impacts. That material which does not escape through the holes is carried around the filter plate to one of a plurality of (in this embodiment three) discharge slots 91 at 120 degree spacing around the annular plate where the material can escape to the next outer annular filter plate. Between the two plates is a ring of posts 92 which are attached to a base plate of the rotor so as to rotate with the center hub and flail blades. These posts act to impact, accelerate and shear the material round the inside surface of the

annular plate 90 where again there is a plurality of slots 93 to impact, shear and allow any remaining material to escape outwardly. The material escaping the slots is accelerated angularly by a final series of posts 94 attached to the rotating base of the rotor so that the material is flung outwardly and angularly against the outer surface 82. On this surface is provided a series of removable and optionally angularly adjustable ~~surface~~ inclined portions 95 at angularly spaced positons around the wall 82. These inclined portions 95 are inclined inwardly from the outer wall 82 so as to form a flat inclined surface at an angle of around 45 degrees to the direction of counter-clockwise flow of the material passing to the discharge mouth 96 of the seed destroying section.

The arrangement shown in Figures 5 and 10 provides an apparatus for destroying weed seeds comprising a housing 80 mounted at a location on the combine harvester for receiving from sieve the chaff and weed seeds separated by the combine harvester from harvested crop. A rotor ~~85~~ 84 is mounted in the housing for rotation about an axis and includesing rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor. A stator is arranged at a location along the direction and includesing one or more stator surfaces for engaging the weed seeds in the accelerated feed material. The stator in Figure 10 includes the angled ~~surface~~ inclined portions ~~96~~ 95 each of which is arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on the one or more ~~stator surface~~ inclined portions 95.

The ~~stator surface~~ inclined portions ~~96~~ 95 can be movable in an adjustment movement about an axis A parallel to the rotor axis so that the angled surface of the inclined portion pivots relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed. The ~~stator surface~~ inclined portions 95 are replaceable for example by unbolting a support bolt from the housing roof. The ~~stator surface~~ inclined portions 95 may be hard surface coated with a suitable material such as carbide which reduces impact damage. The stator surfaces defined by the annular grids can be adjusted by rotation around the axis of the rotor so as to move the position of the slots. This acts to change the distance that the material must traverse before it reaches the escape slot.

As set forth above the rotor surfaces and optionally the ~~stator~~ surfaces of the stator are arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

The rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

In at least one stage, therefore, the weed seeds do not pass through the stator but are rebounded between the rotor and the stator. The rotor also propels the weed seed from the housing without needing to pass through an outside stator surface so that a higher exit velocity is obtained and probably reduced in residue having more moisture.

Turning now to figures 11 to 15 there is shown a further embodiment of apparatus for destroying weed seeds which is similar to that shown in Figure 8 in that it includes a straw chopper section 9 and a weed seed destructor section 35. The section 35 is of the construction shown in Figure 10 so that it has an inlet 351 in the center of the housing 80 which is fed by a pair of inlet chutes 352 taking the feed from across the sieve 354 which drops into a channel 353. Thus the intake of the destructor 35 is located in front of the chopper housing and with the rotor and stator underneath the chopper housing.

As best shown in Figure 14, the destructor 35 is mounted on the housing of the chopper at a position lower than in Figure 8 so that the top wall of the destructor 35 is underneath the bottom wall 355 of the chopper housing. Thus the discharge mouths 96 release the chaff and weed seeds from a position below the chopper that is underneath the bottom wall of the chopper housing so as to direct the second material along the direction F underneath the bottom wall directly onto the tailboard 16 forming the spreading device. Thus the tailboard is inclined downwardly and the chaff is fed onto the tailboard to join with the straw and airflow from the chopper so that both materials are spread in a common action by the fins 16B. This acts to provide an improved spreading action on the chaff which tends to be very light and fluffy due to its passage through the destructor. Thus the added momentum from the heavier and more dense straw is communicated to the fluffier chaff to provide a full spreading action which can match the cutting width of the header.

As shown by comparing Figures 14 and 15 the guide channel 353 includes a guide wall component 356 movable between a first position shown in Figure 14 and a second position shown in Figure 15.

In Figure 14 the chaff and weed seeds from the sieve are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing. This is achieved by moving the component 356 ~~from~~ to the ~~a~~ position

in Figure 14 which is raised so that the chaff passes underneath the component. Thus the component includes a portion 360 defining a front wall of the chopper and an upper tip portion 357 which contacts a guide surface 361 of the straw channel from the combine. In figure 15 the component 356 Is moved so that the tip portion 357 engages a guide surface 359 of the chaff transfer channel from the sieve 354. Thus in the second position shown in Figure 15 the component 356 shuts off the flow to the destructor 35 and instead directs the chaff and weed seeds from the second discharge location into the chopper housing with the straw.

The guide wall component 356 comprises the front wall portion 360 of the chopper housing which is pivotal about an axis 364 across a front of the chopper housing and parallel to the axis of the chopper rotor.

When the system is arranged to bypass the destructor as shown in Figure 15, a clutch 362 is operated to halt drive to the rotors of the weed seed destructor 35 from the input drive shaft 363.

As best shown by comparing Figures 13 and 14, the destructor 35 and the chopper 9 are formed as a common unit which is movable rearwardly of the combine harvester along a track 401. The common unit can thus take up the operating position shown in Figure 15 where the chopper inlet is aligned with the straw supply duct and the destructor inlet 351 is aligned with the chaff inlet from the sieve 354. Also the combined unit can move to the rearward position shown in Figure 13 where the destructor is moved rearwardly of the combine harvester away from the sieve 354 to allow access to a position between the destructor 35 and the sieve of the combine harvester. This allows the operator to access the sieve by entering an opening 402 in front of the destructor 35 and behind the axle of the combine to visibly inspect the sieve.

Thus the weed seed destructor section 35 and optionally also the chopper section is slidable on the guide 401 in a rearward direction. The guide 401 includes a pair of tracks each on a respective side wall of the combine harvester and a suitable slide component on the common unit.

The drive for the weed seed destruction section is driven from the slow-speed drive of the chopper. A selector on the chopper allows the chopper to operate in either high speed or low speed. Therefore the chopper can be selected to operate in low speed with the weed seed destruction section still operating. Therefore either chopper speed can be selected without effecting the operation of the weed seed destruction section.

Since various modifications can be made in my disclosure as herein above described, and many apparently widely different embodiments of same made within the spirit and scope of the claims without department from such spirit and scope, it is intended that all matter contained in the accompanying specification shall be interpreted as illustrative only and not in a limiting sense.

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CLAIMS

1. A combine harvester comprising:

a separation system for separating from harvested crop a first material comprising straw and a second material comprising chaff and weed seeds;

a straw spreading device for receiving the first material and spreading the first material at least to sides of the combine harvester;

a destructor rotor housing arranged to receive the second material;

a destructor rotor arrangement mounted in the destructor rotor housing for rotation about a rotor axis and including rotor surfaces thereon for engaging the second material and for accelerating the second material in a direction generally outwardly of the rotor axis; and

at least one stator arrangement mounted at a location outwardly of the rotor axis for engaging the weed seeds in an accelerated said second material to cause a plurality of impacts with the weed seeds,

wherein:

the stator arrangement comprises a stator support structure surrounding the rotor axis and a plurality of stator surface elements mounted on the stator support structure at positions on the stator support structure angularly separated around the rotor axis;

each of the stator surface elements carry a plurality of individual seed engaging surface portions;

each individual seed engaging surface portion of each stator surface element extends generally parallel to the rotor axis and, in a plane radial to the rotor axis, forms an angle which is different from an angle of other seed engaging surface portions of the stator surface element;

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is separate from other said stator surface elements; and

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is removable from the stator support structure and is replaceable.

~~2. A combine harvester comprising:~~

~~a separation system for separating from harvested crop a first material comprising straw and a second material comprising chaff and weed seeds;~~

~~a straw spreading device for receiving the first material and spreading the first~~

material at least to sides of the combine harvester;

a destructor rotor housing arranged to receive the second material;

a destructor rotor arrangement mounted in the destructor rotor housing for rotation about a rotor axis and including rotor surfaces thereon for engaging the second material and for accelerating the second material in a direction generally outwardly of the rotor axis;

at least one stator arrangement mounted at a location outwardly of the rotor axis for engaging the weed seeds in an accelerated said second material to cause a plurality of impacts with the weed seeds,

wherein:

the stator arrangement comprises a stator support structure surrounding the rotor axis and a plurality of stator surface elements mounted on the stator support structure at positions on the stator support structure angularly separated around the rotor axis;

each of the stator surface elements carry a plurality of individual seed engaging surface portions;

each individual seed engaging surface portion of each stator surface element extends generally parallel to the rotor axis and, in a plane radial to the rotor axis, forms an angle which is different from an angle of others of said surface portions of the stator surface element;

each stator surface element comprises a sheet metal plate which is bent to define at least two individual surface portions thereof at different angles;

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is separate from other said stator surface elements; and

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is removable from the stator support structure and is replaceable.

3. The combine harvester according to claim 2, wherein said at least two individual surface portions thereof at said different angles are planar and meet at an apex.

42. The combine harvester according to any one of claims 1 to 3, wherein the stator surface elements are hard surface coated as a separate components from the stator support structure.

~~53~~. The combine harvester according to ~~any one of~~ claim~~s~~ 1 ~~to~~ or 24, wherein each of the stator surface elements has a length along the axis at least equal to a height of the destructor rotor arrangement along the axis.

~~64~~. The combine harvester according to any one of claims 1 to ~~35~~, wherein the destructor rotor arrangement comprises a hub carrying rotor blades defining said rotor surfaces where the rotor blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

~~75~~. The combine harvester according to claim ~~64~~, wherein each of the rotor blades comprises a base plate lying in a radial plane of the rotor axis and a bent blade portion at an angle to the radial plane of the base plate for generating an air flow.

~~86~~. The apparatus according to any one of claims 1 to ~~57~~, wherein the stator surface elements carrying the individual seed engaging surface portions thereon are angularly adjustable relative to the rotor axis.

ABSTRACT

Weed seeds are destroyed in the chaff from a combine harvester by repeated high speed impacts caused by a rotor mounted in one of a pair of side by side housings which accelerate the discarded seeds in a direction centrifugally away from the rotor onto a stator including angularly adjustable stator surfaces around the axis. Thus the discarded seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts. The seeds are carried axially of the rotor by a controlled airstream so that they move to an axial discharge location where a discharge fan is mounted. The angle of the discharge around the rotor axis can be changed to direct the seeds to the side of the combine away from a straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.

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# WEED SEED DESTRUCTION

## TECHNICAL FIELD

This disclosure relates to a weed seed destructor which can be attached to a combine harvester so that weed seeds in the discharged chaff can be devitalized before being spread onto the ground.

## DEFINITION

In the specification, the term "comprising" shall be understood to have a broad meaning similar to the term "including" and will be understood to imply the inclusion of a stated integer or step or group of integers or steps but not the exclusion of any other integer or step or group of integers or steps. This definition also applies to variations on the term "comprising" such as "comprise" and "comprises".

## BACKGROUND OF THE DISCLOSURE

The reference to prior art in this specification is not and should not be taken as an acknowledgment or any form of suggestion that the referenced prior art forms part of the common general knowledge in Australia or in any other country.

Combine harvesters harvest cereal grain crops, such as wheat, oats, rye, barley, corn, soybeans and flax. Grain and straw are separated in a combine harvester. Following the separation process, waste straw and chaff is supplied to a chopper for shredding and distributing back over the field in an even spread pattern.

During the harvesting process weed seeds and grain seed are discharged with the residue into the chopper and spread back onto the field. The combine is then effectively acting as a seeder to evenly spread the seed back onto the field. In a number of areas of the world herbicides are used heavily to control the weed seeds however this has led to weed seed that has become resistant to the herbicide. Grain seed has been developed to be resistant to specific herbicides, which depending on crop rotations can be a problem for subsequent crop.

It is known that if the seed can be removed or destroyed before the combine spreads it back onto the field the cycle can be stopped. Research has shown that, with three consecutive cycles of weed and grain removal, significant reductions in herbicide can be obtained providing huge saving for farmers.

One recent approach is shown in WO 2014/127408 published August 28th 2014 and assigned to Grains Research Development Corporation Australia which shows that a plurality of impacts at relatively high speed to the seeds with a stationary object causes a breakdown of the seeds sufficient to prevent germination. Thus they have developed a cage mill which is integrally mounted inside the combine harvester so as to receive waste material (discarded seeds and chaff) from the sieve. The cage mill assembly includes at least one rotating ring carrying a plurality of blades and a series of outer stationary rings or fixed blades. Thus the seeds are accelerated outwardly by escaping centrifugally from the rotating blades into the surrounding stationary blades of the outer rings where a series of impacts occur as the seeds move outwardly into and through the fixed blades. The seeds are released outwardly under the centrifugal force from the stationary blades and escape outwardly into a peripheral channel for discharge.

The document shows evidence that four impacts at relatively high speed are sufficient to cause the required breakdown of the seeds, for example to obtain a 95% kill rate.

However the cage mill shown is large and complex with numerous rings running in opposite directions. Should a rock, or other hard material enter the mill, the entire cage mill would need to be replaced. Thus the system may function to destroy the seeds but has practical difficulties as it is without consideration of other obstacles passing through the assembly. The assembly runs at a very high rotational speed, so the precision in manufacturing is critical. Although it is believed that this arrangement is closer to commercialization a number of problems remain with the design.

US Patent 3,448,933 (Roy) issued June 10 1969 describes a cone style grinding shear mill used to process weed seed. All excess chaff and weed seed is processed by the unit. However it is a permanently fixed grinder without a means to bypass material other than residue. It would also allow passage of small fine seeds as it would need to be set to the average seed size to allow adequate throughput.

US Patent 5,059,154 (Reyenga) issued October 22 1991 discloses a pair of rollers to mill seeds smaller than grain that are in the clean grain auger. This does not address seeds thrown over the back of the sieve and would not work if placed behind the sieve as today's combines the chaff stream and is often 6 inches thick which would cushion the seeds and allow the spread of live seed back onto the field.

In AU Published Application 2001/038781 an additional sieve is added to remove more of the chaff before milling, and separate the weed seed from the grain.

However this is not practical with today's combines. All combines throw out some grain and farmers want the herbicide tolerant grain removed as well.

US Patent 8,152,610 (Harrington) issued April 10 2012 discloses an arrangement which processes all the chaff coming off of the sieves and blows it to a trailing cart to pulverize all of the residue. The cart requires a second engine running in the dust of the combine and the mill requires a significant amount of power to pulverize and discharge the residue back onto the field. The cage mill disclosed is large and complex with numerous rings running in opposite directions. Again, the rings have no removable parts so should a rock, or other hard material enter it the entire cage mill would need to be replaced. The cost of this system will limit its commercial viability.

The term weed seed destruction used herein is used somewhat colloquially in that the seeds are not annihilated but are devitalized or rendered so that they cannot germinate. It will of course also be appreciated that not necessarily each and every seed is destroyed but that the intention is that a significant number will be incapable of germination so as to reduce the number of emerging seeds in the growing season.

## SUMMARY OF THE DISCLOSURE

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

said stator and said one or more stator surfaces of the stator being arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on said one or more stator surfaces.

Preferably the stator surfaces are movable in an adjustment movement relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed.

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Preferably the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

Preferably the stator surfaces can be set up or adjusted for different weed seed sizes.

Preferably the stator surfaces are replaceable.

Preferably the stator surfaces are hard surface coated.

Preferably the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

Preferably said stator and said one or more stator surfaces of the stator are arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor and such that the weed seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds.

Preferably at least one of the rotor surfaces and/or at least one of the stator surfaces is arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

Preferably the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are movable in an adjustment movement so as to change the number of impacts caused to each weed seed.

Preferably the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are replaceable.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material; and

said stator and said one or more stator surfaces of the stator being arranged such that the weed seeds impact on said one or more stator surfaces,

wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

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a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

said at least one discharge mouth being located so as to direct the second material underneath the bottom wall onto the spreading device.

Preferably said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the combine harvester and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across combine harvester and each arranged to direct the second material underneath the chopper housing onto the spreading device.

Preferably the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

Preferably the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge

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location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

a guide wall component movable between a first position and a second position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the chopper housing with the straw.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

a guide wall component movable between a first position and a second position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw enters the spreading device; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the straw spreading device.

This arrangement can be used in conjunction with a conventional arrangement manufactured by CASEIH in which the chopper section is mounted internally within the combine housing instead of at the rear. Therefore at the rear is provided a rotary type spreader including typically two horizontal disks similar to the conventional chaff spreading system. Thus in this arrangement the chaff and weed seeds form the weed seed destruction section are directed by a guide onto the rotary straw spreader system for common spreading of all material. Again the combined spreading action and the additional air flow can enhance the spreading action to meet the objective of spreading at header width.

Preferably the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

Preferably the guide wall component comprises a front wall portion of the chopper housing which is pivotal about an axis across a front of the chopper housing and parallel to the axis of the chopper rotor.

Preferably the guide wall component includes a front position which extends from the chopper housing upward and forwardly so as to butt against or adjacent guide wall surfaces for the chaff and for the straw respectively.

Preferably there is provided a clutch for halting drive to the rotor of the weed seed destructor when the wall portion is in in the second position.

According to one aspect of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

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at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

at least the weed seed destructor being movable rearwardly of the combine harvester to allow access to a position between the weed seed destructor and the components of the combine harvester at the second discharge location.

Preferably the weed seed destructor section is slidable on a guide in a rearward direction.

Preferably both the straw chopper section and the weed seed destructor section are movable rearwardly of the combine harvester.

Preferably the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

According to another feature the disclosure there is provided an apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material;

said stator and said one or more stator surfaces of the stator being arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor; and

the rotor and stator being arranged such that the weed seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds,

wherein the housing includes a discharge opening for discharge of the feed material after the plurality of impacts, where the discharge opening is at a location different from the stator so that said weed seeds discharged from the rotor through said discharge opening do not pass through the stator.

Preferably therefore the discharge opening for discharge of the feed material after the plurality of impacts the discarded seeds discharge from the rotor and do not pass through the stator but instead are rebounded away from the stator to discharge at a different location. In this way, any foreign bodies are not trapped in the stator to cause damage but instead can escape to the discharge.

In the preferred arrangement described in detail hereinafter, the rotor rotates around an axis so as to direct the discarded seeds centrifugally outwardly, and the stator surrounds the axis so as to rebound the discarded seeds back toward the axis and the discharge opening is arranged such that the discarded seeds discharge axially from within the stator.

In one arrangement the rotor is mounted directly under the first discharge location of the combine harvester with the rotor axis generally upright so that the feed material fold directly into the top of the housing on to the rotor along the axial direction of the rotor.

As an alternate embodiment the apparatus comprises a horizontally rotating tube, with auger flighting in the middle, moving the feed material or chaff to an impact zone at each end of the horizontal rotor. The discharge zone is then at the end and is arranged to expel into the straw chopper of the combine harvester.

Preferably as a feature of independent importance the feed material enters the housing axially of the rotor at one end and discharges axially from the opposite end of the rotor.

Preferably as a feature of independent importance there is provided a fan component for driving the discarded seeds from the opposite end radially outwardly.

Preferably as a feature of independent importance the stator includes a plurality of stator surface elements spaced angularly around the axis.

Preferably as a feature of independent importance individual seed engaging surface portions of each stator surface element are arranged at an angle to a tangent of an imaginary cylindrical surface surrounding the axis.

Preferably as a feature of independent importance the angle of the seed engaging surface portions of the stator surface elements to the tangent is adjustable.

Preferably as a feature of independent importance the stator surface elements and/or the rotor surfaces are arranged to pivot so as to increase the spacing therebetween to allow the passage of foreign objects between the rotor and stator.

Preferably as a feature of independent importance the stator surface

elements are readily removable for replacement when damaged or worn.

Preferably as a feature of independent importance the stator surface elements include one or more fins extending generally around the axis.

Preferably as a feature of independent importance, the housing, when viewed in plan longitudinal of the axis of the rotor, is of polygonal shape to define a plurality of apexes at angularly spaced positions around the axis, and the stator surface elements in plan view include a plurality of pairs of individual seed engaging surface portions which each form a V shape converging to a respective one of the apexes.

Preferably as a feature of independent importance the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

Preferably as a feature of independent importance the velocity of air along the rotor is adjustable to change the number of impacts a seed encounters during its passage.

Preferably as a feature of independent importance the rotor and the stator are arranged so that the impacts act to move the discarded seeds along the rotor so as to change the position along the rotor at which the impacts of the discarded seeds occurs.

Preferably as a feature of independent importance there is provided two housings each including a rotor and stator arranged side by side across the width of the discharge location.

Preferably as a feature of independent importance each of the housings is rotatable about the axis of the respective rotor to change an angle of the discharge around the axis.

According to another feature of the disclosure there is provided an apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location feed material including chaff and said weed seeds and at a second discharge location straw, the apparatus comprising:

a straw chopper section comprising:

a chopper housing for mounting at the second location on the combine harvester for receiving from the first discharge location a feed material containing separated straw separated by the combine harvester from harvested crop;

a chopper rotor mounted in the housing for chopping the straw for

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discharge from the housing; and

a spreading device onto which the discharged straw is directed; and

a weed seed destruction section comprising:

a housing arranged to be mounted at the first location for receiving from the first discharge location the feed material containing separated chaff and said weed seeds;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material to cause impacts with the weed seeds,

wherein the housing includes a discharge opening for discharge of the feed material after the plurality of impacts,

wherein the straw chopper section and the weed seed destruction section comprise a common unit.

Preferably the common unit includes is a common drive from the combine harvester to the common unit.

That is preferably the weed seed destruction section is driven from the straw chopper section.

Optionally, the weed seed destruction section is driven from an intermediate chopper drive shaft or jackshaft in parallel with the drive to the chopper. That is a main drive belt from the chopper drive output pulley of the combine harvester communicates drive to a lay shaft or jack shaft and then two belts communicates in parallel to the horizontal transverse shaft of the chopper rotor and the horizontal transverse drive shaft underneath the two rotors of the weed seed destruction section

In the common unit preferably the weed seed destruction section is arranged such that material from the discharge opening can be fed into the straw chopper section.

In this arrangement there are preferably provided two housings each including a rotor and stator arranged side by side across the width of the second discharge location.

In this arrangement preferably each of the housings is rotatable about the

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axis of the respective rotor to change an angle of the discharge around the axis such that the discharge opening can be directed to the side of the combine away from the straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.

In addition to the above defined features, the seed destruction section can include any of the features previously defined.

The arrangement as described hereinafter may provide one or more of the following features and advantages:

To provide a seed destroyer in which the residue does not pass through rotating or stationary rings of objects so that there is less potential for damage on passage of a solid object.

To provide a seed destroyer in which the impacting members of the destructor can be hard surface coated and easily removable for annual replacement and preparation for the next harvest.

To provide a seed destroyer in which the number of hits a seed impacts can be adjusted or tuned for optimum destruction.

To provide a seed destroyer which can allow passage of debris such as rocks and other hard objects without damage or destruction, and has replaceable parts should the object cause damage.

To provide an integrally mounted seed destroyer in which the trajectory of the discharge can be changed from the side of the combine, to the back of the combine tailboard, or into the chopper so that the residue can be spread with the straw.

Definitions of specific embodiments of the disclosure as herein claimed follow.

According to a first embodiment there is provided a combine harvester comprising:

a separation system for separating from harvested crop a first material comprising straw and a second material comprising chaff and weed seeds;

a straw spreading device for receiving the first material and spreading the first material at least to sides of the combine harvester;

a destructor rotor housing arranged to receive the second material;

a destructor rotor arrangement mounted in the destructor rotor housing for rotation about a rotor axis and including rotor surfaces thereon for engaging the

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second material and for accelerating the second material in a direction generally outwardly of the rotor axis; and

at least one stator arrangement mounted at a location outwardly of the rotor axis for engaging the weed seeds in an accelerated said second material to cause a plurality of impacts with the weed seeds,

wherein:

the stator arrangement comprises a stator support structure surrounding the rotor axis and a plurality of stator surface elements mounted on the stator support structure at positions on the stator support structure angularly separated around the rotor axis;

each of the stator surface elements carry (i.e. each of the stator surface elements has, as at least part of the stator surface element) a plurality of individual seed engaging surface portions;

each individual seed engaging surface portion of each stator surface element extends generally parallel to the rotor axis and, in a plane radial to the rotor axis, forms an angle which is different from an angle of other seed engaging surface portions of the stator surface element;

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is separate from other said stator surface elements; and

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is removable from the stator support structure and is replaceable.

Other embodiments of the disclosure described herein are defined in the following paragraphs:

1. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a first housing component arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the first housing component having a plurality of chopping blades for chopping the straw for discharge from the first housing

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component; and

a spreading device for receiving the straw discharged from the first housing component and spreading the discharged straw to rear and sides of the first housing component; and

a weed seed destruction section comprising:

a second housing component arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the rotor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts,

wherein the first and second housing components comprise a common assembly arranged for common mounting on the combine harvester.

2. The apparatus according to paragraph 1 wherein there is a common drive from the combine harvester to the common assembly.

3. The apparatus according to paragraph 2 wherein the common drive comprises a drive transfer member connecting the rotor arrangement of the weed seed destruction section and the straw chopper rotor.

4. The apparatus according to paragraph 2 wherein the common drive comprises a drive transfer members connecting the rotor arrangement of the weed seed destruction section in parallel with the straw chopper rotor.

5. The apparatus according to any one of paragraphs 1 to 4, wherein the chopper rotor has a horizontal drive shaft extending transversely across the first housing component with a first drive coupling at one end at a first side of the common housing unit and wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component with an input shaft extending transversely of the second housing

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component across the bottom of two rotors with a second drive coupling at one end at said first side of the common housing unit and wherein the common drive drives both of said first and second drive couplings.

6. The apparatus according to any one of paragraphs 1 to 5, wherein the discharge mouth is oriented to direct the second material onto the spreading device while bypassing the chopper rotor.

7. The apparatus according to any one of paragraphs 1 to 6, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

8. The apparatus according to any one of paragraphs 1 to 7, wherein said at least one discharge mouth is arranged so as to direct the second material underneath a bottom wall of the chopper housing onto the spreading device.

9. The apparatus according to any one of paragraphs 1 to 8, wherein the discharge mouth is adjustable for directing the second material from the discharge mouth to a selected one of a plurality of positions including a first position in which the second material is directed away from the straw chopper and a second position in which the second material is directed onto the chopping blades and a third bypass position arranged to direct the second material onto the spreading device while bypassing the chopping rotor.

10. The apparatus according to any one of paragraphs 1 to 9, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across the common assembly and each arranged to direct the second material onto the spreading device while bypassing the chopping blades.

11. The apparatus according to any one of paragraphs 1 to 10, wherein the second housing component has a base fixed relative to the first housing components and wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side on said base.

12. The apparatus according to paragraph 11, wherein the base is attached to

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the first housing component at sides thereof.

13. The apparatus according to any one of paragraphs 1 to 12, wherein said stator and said one or more stator surfaces of the stator are arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on said one or more stator surfaces.

14. The apparatus according to any one of paragraphs 1 to 13, wherein the stator surfaces are adjustable relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed, either at set up or during operation.

15. The apparatus according to any one of paragraphs 1 to 14, wherein the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

16. The apparatus according to any one of paragraphs 1 to 15, wherein the stator surfaces are replaceable.

17. The apparatus according to any one of paragraphs 1 to 16, wherein the stator surfaces are hard surface coated.

18. The apparatus according to any one of paragraphs 1 to 17, wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

19. The apparatus according to any one of paragraphs 1 to 18, said stator and said one or more stator surfaces of the stator are arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor and such that the weed seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds.

20. The apparatus according to any one of paragraphs 1 to 19, wherein at least one of the rotor surfaces and/or at least one of the stator surfaces is arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

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21. The apparatus according to any one of paragraphs 1 to 20, wherein the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

22. The apparatus according to any one of paragraphs 1 to 21, wherein there is provided a guide wall component movable between a first position and a second position where in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing and in the second position the chaff and said weed seeds from the second discharge location are directed into the chopper housing with the straw.

23. The apparatus according to paragraph 22, wherein the guide wall component comprises a front wall portion of the chopper housing which is pivotal about an axis across a front of the chopper housing and parallel to the axis of the chopper rotor.

24. The apparatus according to paragraph 22 or paragraph 23, wherein the guide wall component includes a front position which extends from the chopper housing upward and forwardly so as to butt against or adjacent guide wall surfaces for the chaff and for the straw respectively.

25. The apparatus according to any one of paragraphs 22 to 24, including a clutch for halting drive to the rotor of the weed seed destructor when the wall portion is in in the second position.

26. The apparatus according to any one of paragraphs 22 to 25, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

27. The apparatus according to any one of paragraphs 1 to 26, wherein at least the weed seed destructor is movable rearwardly of the combine harvester to allow access to a position between the weed seed destructor and the components of the combine harvester at the second discharge location.

28. The apparatus according to paragraph 27, wherein the weed seed destructor section is slidable on a guide in a rearward direction.

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29. The apparatus according to paragraph 27 or paragraph 28, wherein both the straw chopper section and the weed seed destructor section are movable rearwardly of the combine harvester.

30. The apparatus according to any one of paragraphs 27 to 29, wherein the spreading device is moveable rearward with the weed seed destructor section.

31. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a first housing component arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the first housing component having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the first housing component and spreading the discharged straw to rear and sides of the first housing component; and

a weed seed destruction section comprising:

a second housing component arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the rotor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts,

wherein there is a common drive from the combine harvester comprising a drive transfer member connecting the rotor arrangement of the weed seed destruction section and the straw chopper rotor.

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32. The apparatus according to paragraph 31, wherein the drive transfer member connects the rotor arrangement of the weed seed destruction section in parallel with the straw chopper rotor from a common drive input.

33. The apparatus according to paragraph 31 or paragraph 32, wherein the chopper rotor has a horizontal drive shaft extending transversely across the first housing component with a first drive coupling at one end at a first side of the common housing unit and wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component with an input shaft extending transversely of the second housing component across the bottom of two rotors with a second drive coupling at one end at said first side of the common housing unit and wherein the common drive drives both of said first and second drive couplings.

34. The apparatus according to any one of paragraphs 31 to 33, wherein the discharge mouth is oriented to direct the second material onto the spreading device while bypassing the chopper rotor.

35. The apparatus according to any one of paragraphs 31 to 34, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

36. The apparatus according to any one of paragraphs 31 to 35, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the second housing component and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across the common assembly and each arranged to direct the second material onto the spreading device while bypassing the chopping blades.

37. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge

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location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

said at least one discharge mouth being oriented so as to direct the second material onto the spreading device while bypassing the chopping rotor.

38. The apparatus according to paragraph 37, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

39. The apparatus according to paragraph 37 or paragraph 38, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the combine harvester and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across combine harvester and each arranged to direct the second material onto the spreading device while bypassing the chopping rotor.

40. The apparatus according to paragraph 39, wherein each of the discharge mouths is rotatable about an axis of the respective rotor to change an angle of the discharge around the axis.

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41. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material; and

said stator and said one or more stator surfaces of the stator being arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on said one or more stator surfaces.

42. The apparatus according to paragraph 41, wherein the stator surfaces are adjustable relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed, either at set up or during operation.

43. The apparatus according to paragraph 41 or paragraph 42, wherein the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

44. The apparatus according to any one of paragraphs 41 to 43, wherein the stator surfaces are replaceable.

45. The apparatus according to any one of paragraphs 41 to 44, wherein the stator surfaces are hard surface coated.

46. The apparatus according to any one of paragraphs 41 to 45, wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

47. The apparatus according to any one of paragraphs 41 to 46, said stator and said one or more stator surfaces of the stator are arranged such that the weed seeds impact on said one or more stator surfaces and do not pass through the stator along said direction but instead are rebounded therefrom back toward the rotor and such that the weed seeds rebound back and forth between the rotor and the stator to provide a

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plurality of impacts on the accelerated feed material to destroy at least some of the weed seeds.

48. The apparatus according to any one of paragraphs 41 to 47, wherein at least one of the rotor surfaces and/or at least one of the stator surfaces is arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

49. The apparatus according to any one of paragraphs 41 to 48, wherein the rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

50. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are adjustable relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed, either at set up or during operation.

51. The apparatus according to paragraph 50, wherein the stator surfaces are movable in the adjustment movement about an axis parallel to the rotor axis.

52. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arranged at a location along the direction and including one or

more stator surfaces for engaging the weed seeds in the accelerated feed material,

wherein the stator surfaces are replaceable.

53. An apparatus for destroying weed seeds comprising:

a housing arranged to be mounted at a location on a combine harvester for receiving from the location a feed material containing separated chaff and weed seeds separated by the combine harvester from harvested crop;

a rotor mounted in the housing for rotation about an axis and including rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arranged at a location along the direction and including one or more stator surfaces for engaging the weed seeds in the accelerated feed material; and

said stator and said one or more stator surfaces of the stator being arranged such that the weed seeds impact on said one or more stator surfaces,

wherein the rotor comprises a hub carrying rotor blades defining said rotor surfaces where the blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

54. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

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a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least one a discharge mouth for discharge of the second material after the plurality of impacts; and

said at least one discharge mouth being arranged so as to direct the second material underneath a bottom wall of the chopper housing onto the spreading device.

55. The apparatus according to paragraph 54, wherein said rotor arrangement comprises two rotors each having an upstanding axis of rotation with the two rotors arranged side by side across the combine harvester and wherein said at least one discharge mouth comprises two discharge mouths at spaced positions across combine harvester and each arranged to direct the second material underneath the bottom wall of the chopper housing onto the spreading device.

56. The apparatus according to paragraph 54 or paragraph 55, wherein the spreading device comprises a tailboard with a plurality of fins and the discharge mouth is oriented to direct the second material onto the fins.

57. The apparatus according to any one of paragraphs 54 to 56, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

58. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

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a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

a guide wall component movable between a first position and a second position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the chopper housing with the straw.

59. The apparatus according to paragraph 58, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

60. The apparatus according to paragraph 58 or paragraph 59, wherein the guide wall component comprises a front wall portion of the chopper housing which is pivotal about an axis across a front of the chopper housing and parallel to the axis of the chopper rotor.

61. The apparatus according to any one of paragraphs 58 to 60, wherein the guide wall component includes a front position which extends from the chopper housing upward and forwardly so as to butt against or adjacent guide wall surfaces for the chaff

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and for the straw respectively.

62. The apparatus according to any one of paragraphs 58 to 61 including a clutch for halting drive to the rotor of the weed seed destructor when the wall portion is in in the second position.

63. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester;

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor; and

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

at least the weed seed destructor being movable rearwardly of the combine harvester to allow access to a position between the weed seed destructor and the components of the combine harvester at the second discharge location.

64. The apparatus according to paragraph 63, wherein the weed seed destructor section is slidable on a guide in a rearward direction.

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65. The apparatus according to paragraph 63 or paragraph 64, wherein both the straw chopper section and the weed seed destructor section are movable rearwardly of the combine harvester.

66. The apparatus according to any one of paragraphs 63 to 65, wherein the weed seed destructor section is mounted with an intake in front of the chopper housing and with the rotor and stator underneath the chopper housing.

67. The apparatus according to any one of paragraphs 63 to 66, wherein the spreading device is moveable rearward with the weed seed destructor section.

68. An apparatus for destroying weed seeds for use in a combine harvester where the combine harvester comprises a separation system for separating from harvested crop at a first discharge location a first material comprising straw and at a second discharge location a second material comprising chaff and said weed seeds, the apparatus comprising:

a straw chopper section comprising:

a chopper housing arranged to receive from the first discharge location the first material containing straw;

a chopper rotor mounted in the chopper housing having a plurality of chopping blades for chopping the straw for discharge from the first housing component; and

a spreading device for receiving the straw discharged from the chopper housing and spreading the discharged straw to rear and sides of the combine harvester; and

a weed seed destructor section comprising:

a destructor housing arranged to receive from the second discharge location the second material;

a rotor arrangement mounted in the destructor housing for rotation about an axis and including rotor surfaces thereon for engaging the second material and for accelerating the feed material in a direction outwardly from the axis of the rotor;

a stator arrangement mounted at a location along the direction and including a plurality of stator surfaces for engaging the weed seeds in the accelerated second material to cause a plurality of impacts with the weed seeds; and

a guide wall component movable between a first position and a second

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position where:

in the first position the chaff and said weed seeds from the second discharge location are directed into the weed seed destructor, while the straw enters the spreading device; and

in the second position the chaff and said weed seeds from the second discharge location are directed into the straw spreading device.

## BRIEF DESCRIPTION OF THE DRAWINGS

One embodiment of the disclosure will now be described in conjunction with the accompanying drawings in which:

Figure 1 is an isometric view of an apparatus for destruction of weed seeds according to the present disclosure which is arranged in a first embodiment where the weed seed destruction section is mounted at a position on a combine harvester at the rear of the sieve so as to discharge the chaff and destroyed seeds away from the straw chopper to both sides of the combine harvester.

Figure 2 is an isometric view from the front and one side of the combined apparatus including the straw chopper section and the weed seed destruction section of Figure 1.

Figure 2A is an isometric view from the rear and the other side of the combined apparatus including the straw chopper section and the weed seed destruction section of Figure 1.

Figure 3 is an isometric view of the weed seed destruction section of Figure 1 separate from the combine harvester with the discharge housing arranged for discharge to the sides.

Figure 4 is a top plan view of the weed seed destruction section of Figure 3 separate from the combine harvester with the discharge housing arranged for discharge to the rear.

Figure 5 is an isometric view of the weed seed destruction section of Figure 3 with a part of the housing removed.

Figure 6 is an isometric view of the weed seed destruction section according to the present disclosure which is arranged to feed the discharged material into the chopper rotor of the straw chopper section at the center thereof.

Figure 7 is an isometric view of the apparatus of Figure 6 adjusted to feed

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the discharged material into the straw chopper section at the sides so as to by-pass the rotor and feed directly onto the tailboard.

Figure 8 is a side elevational view of the apparatus of Figure 2 showing the drive system to the combined apparatus including the straw chopper section and the seed destructor section.

Figure 9 is a plan view of an alternative arrangement of the weed seed destruction section where the rotors are arranged to rotate about a horizontal axis and thus rotate in a vertical plane to discharge rearwardly.

Figures 10A and 10B are isometric views of another embodiment of an apparatus for destruction of weed seeds according to the present disclosure where Figure 10B shows the structure of one rotor assembly with the cover in place and the other omitted and Figure 10A shows the structure of one rotor assembly with the cover removed.

Figure 11 is an isometric view from one side and the rear of the combined apparatus including the straw chopper section and the weed seed destruction section of the above Figures.

Figure 12 is an isometric view from one side and the front of the combined apparatus including the straw chopper section and the weed seed destruction section of Figure 11.

Figure 13 is a cross-sectional view of the apparatus of Figures 11 and 12 mounted on a combine harvester and showing the apparatus in a rearwardly displaced position providing access to the sieve of the combine harvester

Figure 14 is a cross-sectional view of the apparatus of Figures 11 and 12 mounted on a combine harvester and showing the apparatus in a first operating position in which the straw passes through the chopper housing and the chaff and weed seeds pass through the seed destructor section.

Figure 15 is a cross-sectional view of the apparatus of Figures 11 and 12 mounted on a combine harvester and showing the apparatus in a second operating position in which both the chaff and weed seeds and the straw pass through the chopper housing.

In the drawings like characters of reference indicate corresponding parts in the different figures.

DETAILED DESCRIPTION

The apparatus herein is shown in Figure 1 mounted on a combine harvester 1 carried on ground wheels 3 and including harvesting components of a conventional nature the rearmost one of which is the sieve 2 which discharges chaff and discarded seeds including weed seeds to the rear edge 4 of the sieve.

The combine harvester includes a chopper and discharge arrangement 9 shown in Figures 1 and 6 is basically as shown in US Patent 6840854 issued January 11 2005 to Redekop, the disclosure of which is incorporated herein by reference. The chopper thus comprises a housing 10 defined by a top wall 11, a bottom wall 12 and two end walls 13. The end walls 13 include attachment means 13A for attachment of the housing to the outlet of a combine harvester for discharge of straw and optionally chaff from the combine harvester into an inlet opening 15 of the housing 10. The bottom wall 12 defines a semi-cylindrical portion extending from the inlet 15 to an outlet 16 through which chopped straw and air is discharged at relatively high velocity for spreading across the field or for transportation into a container.

Within the housing is mounted a hub 17 which is carried on suitable bearings 31 for rotation about a hub axis 18 at a center of the housing so that blade members 19 carried by the hub sweep around within the housing to entrap straw fed through the inlet 15 and to carry the straw and air past stationary blades 20 for chopping and for discharge through the outlet 16. The stationary blades 20 are mounted on the housing at a position approximately midway between the inlet 15 and the outlet 16 so that the blade members 19 sweep between the stationary blades in a cutting action.

The hub 17 carries a plurality of lugs 21 at angularly and axially spaced positions therealong with each lug mounting a pair of blades 19 for pivotal movement of the blade members 19 about a pin 22 parallel to the axis 18. Each of the lugs 21 carries a pair of the blades 19. Each lug 21 is aligned with a respective one of the stationary blades 20 so that each stationary blade has associated with it a respective one of the lugs and thus has associated with it the pair of blades carried by that lug.

In this arrangement of the chopper, there is provided three axially spaced sections of the chopper assembly including a first fan section 30 at one end of the hub 17 and the second fan section at the other end of the hub 17. In-between the two narrow fan sections 30 is defined a center section 30A which provides the whole of the cutting action.

Within the center section 30A all of the blades 19 are formed with a cutting edge lying in a radial plane of the axis. The blades are preferably of the conventional flat blade type with a leading and trailing chamfered edge. Thus each of the two cutting blades 19 in the center section can pass closely on either side of a respective one of the stationary blades 20. Thus the stationary blades can be spaced by a distance which is just sufficient to allow the passage there between of the preferably flat cutting blade. In the preferred arrangement, the spacing between the stationary blades is thus small in that the stationary blades are not sufficiently spaced to allow the passage there between of a fan type blade.

In the fan sections 30, there is provided a ring 33 which is mounted on the hub 17 at a respective end of the hub. The ring thus surrounds the cylindrical wall of the hub and stands outwardly therefrom just beyond the end of the center section defined by the stationary blades and the blades 19 carried on the hub.

The rings 33 each carry a plurality of fan blades 34 at spaced positions around the ring. The fan blades 34 are arranged thus so that each follow directly behind the next at the same axial location.

Each of the fan blades 34 is bent with a fan blade portion so that each of the fan blades is of the shape shown in Figure 3 of US patent 5,482,508 of Redekop, the disclosure of which is incorporated herein by reference. However the fan blades 34 do not necessarily have a sharpened leading edge since there is intended to be no cutting action in the fan section. Thus the fan blades are spaced from the end most stationary blade 19 so that in effect no cutting action occurs in this section.

The bent fan blade portion stands outwardly to one side of the flat plate portion of the fan blade 34. The fan blade portion which is bent at right angles to the main body of the fan blade is maximised in dimension so that it may be rectangular. This large blade area together with the presence of the six blades provides a large fan blade area which generates a significant air flow.

The fan blade portion is inclined forwardly and outwardly so that at a regularly outer position toward the outer end of each fan blade the fan blade portion is angularly advanced relative to its position closer to the axis of the hub. This incline outwardly and forwardly significantly increases the air flow effect driving the air in the greater volume and at higher speed radially from the fan section and outwardly of the exit 16.

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Preferably the fan section comprises only a single row of the six fan blades but in some cases an additional row or rows may be provided although this is not preferred. The fan blades are arranged immediately adjacent the end walls 13 so that they take up minimum space at the end of the chopper assembly. It will be appreciated that the intention is to provide maximum air flow in the fan sections while taking up minimum dimensions so that the maximised chopping effect to provide shortest material is achieved within the center section using the flat blades.

The above arrangement of straw chopper section is one example only of arrangements which can be used herein.

The chopper and spreading assembly 9 is arranged to be mounted at a rear straw discharge 101 of the combine harvester 1 and includes the housing 10, the rotor 17 mounted in the housing 10 for rotation around a generally horizontal axis and carrying the plurality of chopper blades 19 for chopping the discharge material.

At the exit 16 is provided the material spreading assembly which can be the form of a tailboard 16A with guide fins 16B for receiving the chopped material and spreading the material to the rear and sides of the combine harvester.

An apparatus 35 for destroying seeds comprises a body 36 carried on a frame 37 mounted at a suitable location on the combine harvester by mounting arrangements of a conventional arrangement. The body provides two side by side housings 38, 39 each located adjacent a respected half of the discharge location the feed material containing separated chaff and discarded seeds separated by the combine harvester from harvested crop. In the embodiment shown in Figure 1, the housings are located at the rear edge 4 of the sieve 2.

Each of the housings, as best shown in Figures 3, 4 and 5 includes an upper impact section 40 and a lower fan section 41. The upper section 40 includes a housing 42 which is polygonal (in this example octagonal) in plan view with apexes 43A, 43B, 43C etc. The housing 42 incudes a top wall 44 connected to the polygonal side wall and defining a circular opening 45 arranged to be mounted at the discharge location of a combine harvester for receiving from the sieve the chaff and discarded seeds including the weed seeds.

A rotor 46 is mounted in the housing for rotation about an upstanding axis 47 at right angles to a bottom base of the housing axis. The rotor includes a cylindrical hub 46A carrying upper and lower sets of blades 46B and 46C. The sets are spaced axially. The individual blades of the set are spaced angularly. The sets are carried above

and below respectively a series of angularly spaced lugs 46D on pins 46E so as to act as flails.

Each blade includes as best shown in Figure 5 a base plate 46F lying in a radial plane and a blade portion 46G turned out of the radial plane so as to act as a fan blade to drive entrained air and the material centrifugally outwardly from the axis of the rotor.

Thus the rotor includes components thereon defined by the two sets of blades for engaging the feed material and for accelerating the feed material in a centrifugal direction away from the rotor.

In the housing 42 around the rotor 46 is provided a stator 48, at least part of which is defined by the inside surface of the polygonal housing 42, and the stator 48 is arranged at a location centrifugally outside the rotor 46 so that the material and discarded seeds thrown outwardly impact on the stator 48. The stator 48 also includes, as parts thereof, a series of stator surface elements 48A for engaging the discarded seeds in the accelerated material. The stator surface elements 48A are arranged such that the discarded seeds impact thereon and rebound therefrom back toward the rotor 46.

Thus the rotor 46 and stator 48 are arranged such that the discarded seeds rebound back and forth between the rotor 46 and the various parts of the stator 48 to provide a plurality of impacts on the feed material to destroy the seeds.

The housing 42 includes a discharge opening defined by a circular inner edge 50A of a plate 50 lying in a radial plane of the housing between the impact section 40 and the fan section 41. Thus the bottom of the impact section 40 is defined by the bottom plate 50 so that air and the entrained material is directed downwardly into the fan section 41 for discharge of the feed material after the plurality of impacts. As the air and entrained material passes downwardly, the discarded seeds discharge from the rotor and do not pass or escape outwardly through the stator 48. That is, in the impact section 40, the various parts of the stator 48 wholly or substantially wholly surround the rotor 46 to prevent the seeds from escaping radially. That is all of the seeds are rebounded back inwardly to the rotor and move downwardly while rebounding back and forth until they pass out of the impact section 40 at the bottom through the hole 50A in the plate 50 into the fan section 41.

Thus the rotor 46 rotates around the axis 47 so as to direct the discarded seeds centrifugally outwardly. The various parts of the stator 48 surround the axis 47 so

as to rebound the discarded seeds back toward the axis and the discharge opening is arranged such that the discarded seeds discharge axially from within the stator 48. In this way, the feed material containing the discarded seeds enters the housing axially of the rotor at the top end and discharges axially from the bottom end of the rotor into the fan section, where the material is accelerated radially outwardly into a channel defined by a peripheral wall 41A which spirals gradually outwardly from a leading edge to a trailing edge 41B so as to define an outlet location 41C.

Thus the fan section 41 shown in plan in Figure 4 at the top includes a series of blades 41F carried on the rotor 46A underneath the plate 50 so that the fan components act for driving the discarded seeds from the opposite or bottom end of the rotor 46 radially outwardly to the discharge opening 41C at the trailing edge 41B.

As best shown in Figure 5, each of the stator surface elements 48A comprises a generally V-shaped body, and more specifically, each stator surface element 48A carries (i.e. has as at least part of the stator surface element 48A) two individual seed engaging surface portions in the form of respective walls 48B and 48C which converge to an apex 48D, and each stator surface element 48A is located at one of the apexes of the polygonally shaped housing 42. In Figure 5 is shown one of the stator surface elements 48A and it will be noted that the individual seed engaging surface portion (wall) 48C against which the seeds are primarily directed as the rotor 46 turns clockwise is arranged at an angle to a tangent T of an imaginary cylindrical surface surrounding the axis. Thus the seed engaging surface portion (wall) 48C is inclined forwardly and inwardly so that the seeds moving with the rotor and outwardly of the rotor impact against the seed engaging surface portion 48C and are rebounded inwardly. The stator surface element 48A is mounted at the apex 48D by a hinge pin 48H which allows the angle of the seed engaging surface portion 48C to the tangent T to be adjustable to change the level of aggression in the rebound action.

Also the hinged mounting of the stator surface elements 48A allows them to pivot to allow the passage of foreign objects between the rotor 46 at the outer tips of the blades 46B, 46C and the parts of the stator 48 defined by the stator surface elements 48A. Also the stator surface elements 48A are readily removable for replacement by pulling the support pin 48H when damaged or worn.

Also the stator surface elements 48A include one or more fins 48G lying in a plane at right angles to the walls 48B, 48C and thus extending in a radial plane around the rotor. The stator 48 has an overall octagonal shape and there are four of the stator

surface elements 48A at four of the apexes of the polygon leaving the remainder of the inner surface of the octagon exposed to act as a further stator surface. This further stator surface surrounds the whole of the rotor and hence prevents outward escape of any material, thus confining the material to move downwardly into the fan section for ejection.

The rotor 46 which carries both the blades of the impact section and fan blades 41F of the discharge fan section 41 as best shown in Figure 8, is driven by a hydraulic drive motor 46H, the rotational speed of which is adjustable to change the speed of the impact blades and thus the number of impacts a seed encounters during its passage.

Also the velocity of air along the rotor through the impact section from the opening at the top plate 44 to the discharge plate 50 is adjustable to change the number of impacts a seed encounters during its passage.

The rotor and particularly the stator are shaped and arranged so that the impacts and rebounding action act to move the discarded seeds along the rotor from the feed opening at the top plate 44 to the discharge opening at the plate 50 so as to change the position along the rotor at which the impacts of the discarded seeds occur. Thus the seeds as they rebound back and forth move through the impact section at a rate depending on the shape and position of the stator and its various impact surfaces and depending on the rotation rate of the rotor and the air speed through the impact section.

In a typical walker style combine there is a large space between chopper 9 and the end of the sieve 2. In this case the seed destructor 36 is mounted at the end of the sieve 2. In this position, the discharge openings 41C of the fan section 41 are located by rotating the housings 38, 39 so that the seed destructor discharge is set to the side because the discharges are not close enough to the chopper 9 to allow feeding into the chopper.

The seed destructor is made up of two rotating drums or rotors 46 within the housings 38 and 39 rotating in opposite directions. The housings are rotatably mounted on the frame 37 so that the discharge 41C can be pointed in the direction required. Although this is shown as a fixed mounting it could be easily designed as a movable mounting so the operator could change it quickly as desired. In one arrangement the adjustment can be obtained conveniently by rotation of the housing around the axis of the rotor.

The impact section 40 contains in the stator 48, replaceable, adjustable impact plates or stator surface elements 48A, which the residue that is dropped into the

seed destructor housing is flung against by the rotors 46 with blades 46B and 46C. The residue is deflected back by the stator 48 into the rotating blades for another hit.

The fan section 41 at the bottom of the housing acts to accelerate the residue for spreading back onto the field or into the chopper or into the chopper fins as desired.

The rotors can be driven by hydraulic motors which power and mount the rotating hubs 46 in which case the motors are mounted to the frame 37.

The stator surface elements 48A are rotatably adjustable at the apex 48D and designed to deflect the residue back into the high speed blades. The guide fins 48G on the stator surface elements serve to control the angle that the residue is deflected and therefore the number of times the residue rotates in the housing and thus the number of hits a seed encounters in its passage through the destructor. The stator surface elements 48A are replaceable and are hard surface coated for a longer life.

At the bottom of the housing assembly below the fan section 41 is provided a bottom plate 60 closing the bottom of the fan section 41 below the plate 50. In the plate 60 is defined an air inlet schematically indicated at 62 which regulates the flow of exterior air into the fan section through the plate 60. The opening size of the air inlet 62 can also be varied by an adjustment 62A. As the adjustment 62A controls the amount of air entering into the fan section, this adjustment increases or reduces the amount of air drawn through the opening 50A in the plate 50 and thus also serves to change the speed of the residue flowing through the assembly. The air inlet 62 can be regulated so that, as it is closed off, the speed of the residue flow increases, to the point when closed, all air is sucked in from the top of the assembly at the plate 44, to be discharged with the fan in the discharge zone 41. When entirely opened the majority of the air is drawn from the bottom plate 60 of the assembly and the speed of the residue flowing through the assembly is reduced allowing for more impacts.

A third method to adjust the number of impacts a seed encounters through the assembly is of course with the speed of the rotor 46. The drive system to the rotor can be controlled by the combine or by a separate driver operated control and the speed of the assembly can be increased or decreased depending on factors such as seed size, residue toughness, or residue size including factors such as corn cob size and moisture content or sunflower head size.

In a preferred arrangement, the seed destructor section 36 is integrated into the chopper 9 as a common unit with the chopper 9. In this arrangement the seed

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destruction section 36 acts to receive all residue from the sieves. The weed seeds are destroyed in the seed destructor and can be ejected into the chopper for spread with the straw residue on the tailboard 16A.

In this arrangement the combination of all of the residue from both the sieves and the straw exit into the chopper allows the destroyed seeds and chaff residue to mix with the straw residue and be spread in a much wider spread pattern. That is in Figure 6, the discharge openings 41C from the fan section 41 of the seed destruction section 36 are turned on the frame 37 so that they are directed to the center of the inlet 12 of the chopper 9.

Alternatively the chaff residue and destroyed seeds expelled from the seed destructor at the discharge openings 41C is expelled at the sides of the chopper at the fan sections 30 so as to bypass the center chopper section of the chopper so as to be directed by the chopper into the fins of the chopper for mixing on the tailboard 16A and spreading with the straw residue from the chopper.

As a third option, the discharge openings 41C can be positioned to the side to spread to the side of the combine as shown in Figure 1. Thus the seed destruction section 36 is a part of or closely associated with the chopper 9. However the position of the outlet in the embodiment of Figure 14 can be adjusted to the side in the same manner by rotation of the housings on the frame 37.

Thus the destruction section 36 and the chopper 9 form a common unit which can be supplied as a common assembly for attachment to the combine harvester. The common unit may include a common frame. The common unit can include a common drive arrangement by which a single output drive from the combine harvester is directed to the common unit and then directed by the drive mechanism to the chopper rotor and to the seed destruction section. The common unit can be arranged so that in one or more adjustment positions of the seed of destruction section the output from the fan section is directed into the chopper for common distribution into the field. It is also possible in this arrangement that the seed destruction section be adjusted so that the output therefrom is directed into the field bypassing the chopper.

In an arrangement where the space between the sieve 2 and the straw outlet is greater than can be accommodated by direct feed from the sieve into the inlet of the seed destruction section, a feed duct or other transfer arrangement can be provided.

Thus the combined apparatus comprises the straw chopper 9 as described

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above together with the apparatus for destroying weed seeds as described above where the discharge opening of the housing is arranged such that the discharge opening can be directed to the side of the combine away from the straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.

As an alternate embodiment shown in Figure 9 the apparatus can be designed as a horizontal tube 70 into which the material is fed from the sieve 2 by a feed duct 2A. This can be readily located at this position by a combine manufacturer as a horizontal duct in their combine at a position ahead of the rear discharge for chaff.

The tube 70 has a transverse shaft 71 driven at one end 72 and carried on end walls of the tube 70 at bearings 73. The shaft carries auger flighting 74A, 74B in the middle moving chaff outwardly to an impact zone 75 at each end of the horizontal rotor. The arrangement thus provides a seed destructor symmetrical to and operating in the same manner as that previously described but arranged in an orientation of 90 degrees to that shown previously and rotating in a vertical plane about a horizontal axis defined by the shaft 71. Thus the destructor 75 includes a rotor 77 and stator 78 as previously described and a fan section 79 so that the discharge zone 76 is located at the end to expel into a secondary spreading device, or into a straw chopper or into the tail board fins of the straw chopper.

As shown in Figures 2A and 8 the housing of the chopper section 9 and the seed destructor section 35 are formed as a common or integral construction coupled together as single or common unit which can be mounted on the combine harvester at the rear of the combine so as to be associated with the rear straw discharge and the rear chaff discharge.

The chopper 9 has an input drive pulley 9A connected to the rotor 17 driven by a belt 9C or other drive component or pulley assembly 9B from the combine. In addition the pulley 9A of the chopper drives an output pulley 9D which communicates drive to the seed of destruction section 35 through a pulley 9E driven by a belt 9F. In the arrangement shown the pulleys 9A and 9D are mounted at the same end of the rotor 17 but this is not essential. The drive 9B to the chopper can be as shown where the output shaft 9G of the combine drives a belt 9H connected to a pulley system 9K to drive the belt 9C; but of course other drive arrangements can be used such as a shaft from an output gearbox.

A shroud or hood 35A is over the seed destructor section to allow for the chaff to be directed underneath the hood into the seed destructor. A roller 35B is

required at the leading edge of the hood 35A to eliminate material buildup on the leading edge which could cause possible plugging. The roller rotates in a clockwise direction at 200-500 rpm to roll any long straw over to the chopper section 9 while the chaff and weed seeds flow under the hood the destructor section 35.

While the arrangement shown herein is shown as an externally mounted chopper carried on the combine harvester at the rear straw discharge, some combines include an internal chopper mounted in the housing at a position in advance of the rear discharge. In this arrangement the seed destructor section can be located at the chaff discharge and arranged to direct material into the internal chopper or away from the internal chopper to the ground. In this case the internal chopper does not cooperate directly with a spreading system such as a tail board.

Turning now to Figure 10, there is shown a modified embodiment of the seed destructor which includes a housing 80 with base 81 and a spiral outer surface 82 upstanding from the base and extending to an outlet or discharge mouth 96. Inside a center part of the spiral is provided a central inlet 83 for feeding the material from the sieve containing the chaff and weed seeds onto a rotor 84 mounted on a hub 85. Around the hub 85 is provided a plurality of pivot pins or bolts 86 each carrying a flail blade 87.

Around the rotor is provided two stationary annular coaxial perforated plates 89 and 90 with one inside the other. Each plate has holes through the surface so that the rotor flails 87 acts to accelerate, impact and wipe the material across the inside surface of the inner annular plate 89 to impact, shear and force some of the material through the holes. The edges of the screen holes also create contact surface to create impacts. That material which does not escape through the holes is carried around the filter plate to one of a plurality of (in this embodiment three) discharge slots 91 at 120 degree spacing around the annular plate where the material can escape to the next outer annular filter plate. Between the two plates is a ring of posts 92 which are attached to a base plate of the rotor so as to rotate with the center hub and flail blades. These posts act to impact, accelerate and shear the material round the inside surface of the annular plate 90 where again there is a plurality of slots 93 to impact, shear and allow any remaining material to escape outwardly. The material escaping the slots is accelerated angularly by a final series of posts 94 attached to the rotating base of the rotor so that the material is flung outwardly and angularly against the outer surface 82. On this surface is provided a series of removable and optionally angularly adjustable inclined portions 95 at angularly spaced positons around the wall 82. These inclined

portions 95 are inclined inwardly from the outer wall 82 so as to form a flat inclined surface at an angle of around 45 degrees to the direction of counter-clockwise flow of the material passing to the discharge mouth 96 of the seed destroying section.

The arrangement shown in Figures 5 and 10 provides an apparatus for destroying weed seeds comprising a housing 80 mounted at a location on the combine harvester for receiving from sieve the chaff and weed seeds separated by the combine harvester from harvested crop. A rotor 84 is mounted in the housing for rotation about an axis and includes rotor surfaces thereon for engaging the feed material and for accelerating the feed material in a direction outwardly from the axis of the rotor. A stator is arranged at a location along the direction and includes one or more stator surfaces for engaging the weed seeds in the accelerated feed material. The stator in Figure 10 includes the angled inclined portions 95 each of which is arranged at an angle to a tangent of the rotor axis such that the weed seeds impact on the one or more inclined portions 95.

The inclined portions 95 can be movable in an adjustment movement about an axis A parallel to the rotor axis so that the angled surface of the inclined portion pivots relative to a tangent to the axis of the rotor so as to change the number of impacts caused to each weed seed. The inclined portions 95 are replaceable for example by unbolting a support bolt from the housing roof. The inclined portions 95 may be hard surface coated with a suitable material such as carbide which reduces impact damage. The stator surfaces defined by the annular grids can be adjusted by rotation around the axis of the rotor so as to move the position of the slots. This acts to change the distance that the material must traverse before it reaches the escape slot.

As set forth above the rotor surfaces and optionally the surfaces of the stator are arranged to pivot to a position to increase a spacing between the stator and rotor surfaces to allow the passage of foreign objects between the rotor and stator surfaces.

The rotational speed of the rotor is adjustable to change the number of impacts a seed encounters during its passage.

In at least one stage, therefore, the weed seeds do not pass through the stator but are rebounded between the rotor and the stator. The rotor also propels the weed seed from the housing without needing to pass through an outside stator surface so that a higher exit velocity is obtained and probably reduced in residue having more moisture.

Turning now to figures 11 to 15 there is shown a further embodiment of apparatus for destroying weed seeds which is similar to that shown in Figure 8 in that it includes a straw chopper section 9 and a weed seed destructor section 35. The section 35 is of the construction shown in Figure 10 so that it has an inlet 351 in the center of the housing 80 which is fed by a pair of inlet chutes 352 taking the feed from across the sieve 354 which drops into a channel 353. Thus the intake of the destructor 35 is located in front of the chopper housing and with the rotor and stator underneath the chopper housing.

As best shown in Figure 14, the destructor 35 is mounted on the housing of the chopper at a position lower than in Figure 8 so that the top wall of the destructor 35 is underneath the bottom wall 355 of the chopper housing. Thus the discharge mouths 96 release the chaff and weed seeds from a position below the chopper that is underneath the bottom wall of the chopper housing so as to direct the second material along the direction F underneath the bottom wall directly onto the tailboard 16 forming the spreading device. Thus the tailboard is inclined downwardly and the chaff is fed onto the tailboard to join with the straw and airflow from the chopper so that both materials are spread in a common action by the fins 16B. This acts to provide an improved spreading action on the chaff which tends to be very light and fluffy due to its passage through the destructor. Thus the added momentum from the heavier and more dense straw is communicated to the fluffier chaff to provide a full spreading action which can match the cutting width of the header.

As shown by comparing Figures 14 and 15 the guide channel 353 includes a guide wall component 356 movable between a first position shown in Figure 14 and a second position shown in Figure 15.

In Figure 14 the chaff and weed seeds from the sieve are directed into the weed seed destructor, while the straw from the first discharge location enters the chopper housing. This is achieved by moving the component 356 to the position in Figure 14 which is raised so that the chaff passes underneath the component. Thus the component includes a portion 360 defining a front wall of the chopper and an upper tip portion 357 which contacts a guide surface 361 of the straw channel from the combine. In figure 15 the component 356 Is moved so that the tip portion 357 engages a guide surface 359 of the chaff transfer channel from the sieve 354. Thus in the second position shown in Figure 15 the component 356 shuts off the flow to the destructor 35 and instead directs the chaff and weed seeds from the second discharge location into

the chopper housing with the straw.

The guide wall component 356 comprises the front wall portion 360 of the chopper housing which is pivotal about an axis 364 across a front of the chopper housing and parallel to the axis of the chopper rotor.

When the system is arranged to bypass the destructor as shown in Figure 15, a clutch 362 is operated to halt drive to the rotors of the weed seed destructor 35 from the input drive shaft 363.

As best shown by comparing Figures 13 and 14, the destructor 35 and the chopper 9 are formed as a common unit which is movable rearwardly of the combine harvester along a track 401. The common unit can thus take up the operating position shown in Figure 15 where the chopper inlet is aligned with the straw supply duct and the destructor inlet 351 is aligned with the chaff inlet from the sieve 354. Also the combined unit can move to the rearward position shown in Figure 13 where the destructor is moved rearwardly of the combine harvester away from the sieve 354 to allow access to a position between the destructor 35 and the sieve of the combine harvester. This allows the operator to access the sieve by entering an opening 402 in front of the destructor 35 and behind the axle of the combine to visibly inspect the sieve.

Thus the weed seed destructor section 35 and optionally also the chopper section is slidable on the guide 401 in a rearward direction. The guide 401 includes a pair of tracks each on a respective side wall of the combine harvester and a suitable slide component on the common unit.

The drive for the weed seed destruction section is driven from the slow-speed drive of the chopper. A selector on the chopper allows the chopper to operate in either high speed or low speed. Therefore the chopper can be selected to operate in low speed with the weed seed destruction section still operating. Therefore either chopper speed can be selected without effecting the operation of the weed seed destruction section.

Since various modifications can be made in my disclosure as herein above described, and many apparently widely different embodiments of same made within the spirit and scope of the claims without department from such spirit and scope, it is intended that all matter contained in the accompanying specification shall be interpreted as illustrative only and not in a limiting sense.

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CLAIMS

1. A combine harvester comprising:

a separation system for separating from harvested crop a first material comprising straw and a second material comprising chaff and weed seeds;

a straw spreading device for receiving the first material and spreading the first material at least to sides of the combine harvester;

a destructor rotor housing arranged to receive the second material;

a destructor rotor arrangement mounted in the destructor rotor housing for rotation about a rotor axis and including rotor surfaces thereon for engaging the second material and for accelerating the second material in a direction generally outwardly of the rotor axis; and

at least one stator arrangement mounted at a location outwardly of the rotor axis for engaging the weed seeds in an accelerated said second material to cause a plurality of impacts with the weed seeds,

wherein:

the stator arrangement comprises a stator support structure surrounding the rotor axis and a plurality of stator surface elements mounted on the stator support structure at positions on the stator support structure angularly separated around the rotor axis;

each of the stator surface elements carry a plurality of individual seed engaging surface portions;

each individual seed engaging surface portion of each stator surface element extends generally parallel to the rotor axis and, in a plane radial to the rotor axis, forms an angle which is different from an angle of other seed engaging surface portions of the stator surface element;

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is separate from other said stator surface elements; and

each stator surface element carrying the plurality of individual seed engaging surface portions thereon is removable from the stator support structure and is replaceable.

2. The combine harvester according to claim 1, wherein the stator surface elements are hard surface coated as separate components from the stator support structure.

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3. The combine harvester according to claim 1 or 2, wherein each of the stator surface elements has a length along the axis at least equal to a height of the destructor rotor arrangement along the axis.

4. The combine harvester according to any one of claims 1 to 3, wherein the destructor rotor arrangement comprises a hub carrying rotor blades defining said rotor surfaces where the rotor blades are pivotally mounted about an axis parallel to the rotor axis so as to act as flails.

5. The combine harvester according to claim 4, wherein each of the rotor blades comprises a base plate lying in a radial plane of the rotor axis and a bent blade portion at an angle to the radial plane of the base plate for generating an air flow.

6. The apparatus according to any one of claims 1 to 5, wherein the stator surface elements carrying the individual seed engaging surface portions thereon are angularly adjustable relative to the rotor axis.

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ABSTRACT

Weed seeds are destroyed in the chaff from a combine harvester by repeated high speed impacts caused by a rotor mounted in one of a pair of side by side housings which accelerate the discarded seeds in a direction centrifugally away from the rotor onto a stator including angularly adjustable stator surfaces around the axis. Thus the discarded seeds rebound back and forth between the rotor and the stator to provide a plurality of impacts. The seeds are carried axially of the rotor by a controlled airstream so that they move to an axial discharge location where a discharge fan is mounted. The angle of the discharge around the rotor axis can be changed to direct the seeds to the side of the combine away from a straw chopper, towards the guide fins of the tailboard of the chopper, or into the housing of the straw chopper.