Canadian Intellectual Property Office

An Agency of Industry Canada

Office de la propriété intellectuelle du Canada

Un organisme d'Industrie Canada

ISSN-1712-4034

The Patent Office Record

La Gazette du Bureau des brevets

Vol. 150 No. 6 February 8, 2022

Vol. 150 No. 6 le 8 février 2022

Canada

CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

The Canadian Patent Office Record is published on Tuesday of each week under the authority of the Commissioner of Patents, Ottawa-Gatineau, Canada, to whom all communications should be addressed.

La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Gatineau, Canada, à qui doit être adressée toute correspondance.

Table of Contents
Table des matières

Notices

1. Dates and Code Numerals Appearing in Patent Headings

Dates
All dates appearing in the patent headings of this publication follow the form recommended by the International Standards Organization. The four digits on the left represent the years followed by two digits each for the months and the days. For example, January 02, 1999 will be shown as 1999-01-02.

Code Numerals
The numerals within the brackets in the patent headings are INID codes. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". These codes are utilized to identify patent bibliography as recommended by the Permanent Committee on Industrial Property Information (PCIPI) under the administration of the World Intellectual Property Organization (WIPO) based in Geneva, Switzerland.

The INID Codes and their corresponding definitions of bibliographic data elements are as follows:

[11] - Number of Patent document
[13] - Kind-of-document code
[21] - Number assigned to the Application
[22] - Date of Filing Application or
[22] - Date of filing of related divisional application
[25] - Language in which the published application was originally filed
[30] - Data relating to priority under the Paris Convention

[41] - Open to Public Inspection Date
[45] - Date of Issue
[48] - Correction Date (Re-Issued, Re-Examined)
[51] - International Classification
[52] - Domestic Classification
[54] - Title of Invention
[60] - Related by Supplementary Disclosure
[62] - Related by Division
[64] - Related by Reissue
[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
[85] - National Entry Date
[86] - PCT International Filing Data
[87] - PCT International Publication data

Avis

1. Dates et chiffres de code figurant à l'entête des brevets

Dates
Toutes dates figurant aux entêtes des brevets de cette publication suivent la forme recommandée par l'Organisation des normes internationales. Les quatre chiffres de gauche représentent les années et sont suivis, vers la droite, de deux autres chiffres chacun, pour les mois et les jours. Le 2 janvier 1999, par exemple, sera représenté par 1999-01-02.

Chiffres de code
Les chiffres à l'intérieur des parenthèses aux entêtes des brevets sont des codes INID. Le sigle « INID » signifie « Identification numérique internationale des données bibliographiques » Ces codes sont utilisés pour l'indentification de la bibliographie de brevets, tel que recommandé par le Comité permanent chargé de l'information en matière de propriété industrielle (PCIPI), sous l'administration de l'Organisation mondiale de la propriété intellectuelle (OMPI), sise à Genève, Suisse.

Les codes INID accompagnés des définitions des données bibliographiques correspondantes sont comme suit :

[11] - Numéro du brevet
[13] - Désignation du type de document
[21] - Numéro attribué à la demande
[22] - Date du dépôt de la demande ou
[22] - Date du dépôt de la demande divisionnaire apparentée
[25] - Langue dans laquelle la demande publiée a été initialement déposée
[30] - Données relatives à la priorité selon la Convention de Paris
[41] - Date de mise à la disponibilité du public
[45] - Date de délivrance
[48] - Date de correction (Redélivrance, Réexamen)
[51] - Classification internationale
[52] - Classification nationale
[54] - Titre de l'invention
[60] - Apparenté par divulgation supplémentaire
[62] - Apparenté par division
[64] - Apparenté par redélivrance
[71] - Nom(s) du (des) demandeur(s)
[72] - Nom(s) de(s) l'inventeur(s)
[73] - Nom(s) du (des) titulaire(s)
[85] - Date d'entrée en phase nationale
[86] - Données du dépôt international selon le PCT
[87] - Données de publication internationale selon le PCT

2. Country Code

The Country Codes appearing in this publication conform to those contained in annex A of the *Handbook on Industrial Property Information and Documentation* published by the World Intellectual Property Organization (WIPO). This document is accessible from a link entitled Standards ST-3 on the List of WIPO Standards, Recommendations and Guidelines (Abbreviated Titles) located on the WIPO Web site: (**www.wipo.int/scit/en/standards/standards.htm**).

2. Code des pays

Les Codes des pays qui se trouvent dans cette publication sont conformes à ceux dans l'annexe A du *Manuel sur l'information et la documentation en matière de propriété industrielle* publié par l'Organisation Mondiale de la Propriété Intellectuelle (OMPI). Ce document est accessible à partir de l'hyperlien intitulé Normes ST-3 dans la Liste des normes, recommandations et principes directeurs de l'OMPI (Titres abrégés) qui se trouve au site Web de l'OMPI: (**www.wipo.int/scit/fr/standards/standards.htm**).

3. How to Purchase Paper Copies of Canadian Patents and Canadian Applications Open to Public Inspection

Paper copies of all other Canadian Patents and Canadian applications open to public inspection may be purchased at the cost of $1 per page by visiting (**www.strategis.ic.gc.ca/patentsorder**) or by writing to the Commissioner of Patents, Ottawa-Gatineau, K1A 0C9.

Item 25.1* On requesting copy in electronic form of a document:	N/A
a) for each request	$10
b) plus, for each patent or application to which the request relates	$10
c) plus, if the copy is requested on a physical medium, for each physical medium requested in addition to the first	$10
d) plus, for each additional 10 megabytes or part of them exceeding 7 megabytes	$10

3. Comment acheter des copies sur papier de brevets canadiens et de demandes canadiennes mises à la disponibilité du public

Les copies sur papier de tous les autres brevets canadiens et des demandes canadiennes mises à la disponibilité du public peuvent être achetées au coût de 1 $ par page en visitant notre site Web (**www.strategis.ic.gc.ca/brevetscommande**) ou en écrivant au Commissaire aux brevets, Ottawa-Gatineau, K1A 0C9.

Article 25.1* Demande d'une copie d'un document sous forme électronique :	S.O.
a) pour chaque demande	10 $
b) pour chaque demande de brevet ou brevet visé par la demande	10 $
c) dans le cas où le document doit être copié sur plus d'un support matériel, pour chaque support matériel additionnel	10 $
d) pour chaque tranche de 10 méga-octets qui excède 7 méga-octets, l'excédant étant arrondi au multiple supérieur	10 $

4. Orders for Patents by Class or Sub-Class

A listing of all patents that have issued in each class or sub-class including both patents in force and expired patents, may be ordered at a price of $1 per page from the Patent Office.

4. Commande de brevets par classe ou sous-classe

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expiré, peuvent être commandées auprès du Bureau des brevets au prix de 1 $ la page.

5. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit upon request from the Commissioner of Patents, Ottawa-Gatineau, Canada K1A 0C9. It is recommended that applicants make use of the services of a registered Patent Agent. A list of Patent Agents in any area of Canada will also be supplied upon request.

5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

6. Licensing of Patents

Voluntary Licences
Persons desiring to use, make or sell an invention patented in Canada should negotiate terms with the patent owner. The address of the patentee may be obtained by writing to the Commissioner of Patents, Ottawa-Gatineau, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

Compulsory Licences
Three years after a patent has been granted, one may request a compulsory licence to use the patent if there has been an abuse of the exclusive right. See Sections 65 to 71 of the *Patent Act.* Applications for a compulsory licence are made to the Commissioner of Patents.

6. Octroi de licences en vertu des brevets

Licences librement accordées
Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

Licences obligatoires
Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

7. Patents Available for Licence or Sale

An asterisk (*) placed beside any patent listed in this issue of the *Canadian Patent Office Record* indicates that as of the date of grant the said patent is available for licence or sale. These and other patents now made available for licensing are included in the listing in part 8 of these notices.

7. Brevets disponibles pour licence ou vente

Un astérisque (*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

8. List of Patents Available for Licence or Sale

The following Canadian patents have been made available this week for sale or licensing:

None

8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

Aucun

9. Applications Open to Public Inspection

All patent applications filed since October 1, 1989 and documents filed in connection therewith are open to public inspection at the Patent Office after the expiration of a confidentiality period of eighteen months beginning on the filing date of the application, or where a request for priority has been made in respect to the application, beginning on the priority date claimed. An application may become open to public inspection sooner at the request or with the approval of the applicant (Section 10(2) of the *Patent Act*). However, an application shall not be open for public inspection if it is withdrawn within the time set out in Section 92 of the *Patent Rules*. This time limit is two months before the expiry of the confidentiality period or where the Commissioner is able to stop technical preparations to open the application to the public at a subsequent date.

9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

10. Language of Published Documents

When ordering a published patent, please note that the language of the document can be identified by the language code (INID [25]) EN (English) or FR (French).

10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

1. Transmittal Fee (Rule 14)	**$300**
2. International Filing Fee	**$1961***
For each additional sheet over 30	**$22**
3. International Search Fee	**$1600**

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

1. Taxe de transmission (Règle 14)	**300 $**
2. Taxe de dépôt internationale	**1961 $***
Pour chaque feuille au delà de 30	**22 $**
3. Taxe de recherche internationale	**1600 $**

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

Rule 16bis.2, within one month from the date of the invitation. Failure to pay the fees will result in the withdrawal of the application by the receiving office.

4. Late payment fee

50% of the fees that are due, or,
Minimum: Transmittal fee
Maximum: 50% of the international filing fee

Preliminary Examination

5. **Handling fee** (Rule 57.2(*a*))	**$295**
6. Preliminary examination fee (Rule 58)	**$800**

* International fees will be reduced by:

- **$295** for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- **$442** for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

taxe pour le paiement tardif visée à la règle 16bis.2, dans un délai d'un mois à compter de l'invitation. Si vous omettez de payer les taxes, l'office récepteur retirera votre demande.

4. Taxe pour paiement tardif

50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

5. Taxe de traitement (Règle 57.2*a*))	**295 $**
6. Taxe d'examen préliminaire (Règle 58)	**800 $**

* Les frais seront réduits de:

- **295 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- **442 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

12. PCT Notices

Patent Cooperation Treaty (PCT)

Copies of the *Patent Cooperation Treaty Applicants Guide* and the *Patent Cooperation Treaty & Regulations* are available from WIPO - World Intellectual Property Organization at a cost of 200 Swiss Francs and 18 Swiss Francs, respectively.

Those wishing for further information including prices for both previous and current subscriptions should contact WIPO at:

Information Products Section
Post Office Box 18
1211 Geneva 20 Switzerland
Telephone (011 41 22) 338-9618
Facsimile (011 41 22) 740-1812

or by "E-mail" (**publications.mail@wipo.int**) or visit their Web site (**www.wipo.int**).

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

Des copies du *Guide du déposant du PCT* ainsi que du *Traité et des Règlements* sont disponibles auprès de l'OMPI - Organisation mondiale de la propriété intellectuelle au coût de 200 francs suisses et 18 francs suisses, respectivement.

Les personnes qui désirent obtenir de plus amples renseignements, notamment sur le prix des abonnements antérieurs et courants, sont priées de s'adresser directement à :

l'OMPI à la Section des produits d'information
Boîte postale 18
1211 Genève 20 Suisse
Téléphone (011 41 22) 338-9618
Télécopieur (011 41 22) 740-1812

ou par courriel (**publications.mail@wipo.int**) ou visiter leur site Web (**www.wipo.int**).

13. Practice Notice

LIMITED PARTNERSHIPS CAN BE ENTERED ON THE REGISTER OF AGENTS AND ON THE LIST OF TRADE-MARK AGENTS

Note: *This practice notice is intended to provide guidance on current Patent and Trade-marks Office practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.*

The Patent Office and the Trade-marks Office (hereinafter jointly referred to as "the Offices") have been receiving inquiries as to whether limited partnerships are entitled to act as patent and trade-mark agents before the Offices.

With respect to the register of patent agents, section 15 of the *Patent Act* provides that a register of patent agents shall be kept in the Patent Office on which shall be entered the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for patents or in other business before the Patent Office. Section 2 of the *Patent Rules* stipulates that the expression "patent agent" means any person or firm whose name is entered on the register of patent agents pursuant to section 15. Paragraph 15(c) of the *Patent Rules* provides that the Commissioner shall enter on the register of patent agents, on payment of the fee set out in item 33 of Schedule II, the name of **any firm, if the name of at least one member of the firm is entered on the register.**

With respect to the list of trade-mark agents, subsection 28(2) of the *Trade-marks Act* provides that the list of trade-mark agents shall include the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for the registration of a trade-mark or in other business before the Trade-marks Office. Paragraph 21(d) of the *Trade-mark Regulations* (1996) stipulates that the Registrar shall, on written request and payment of the fee set out in item 19 of the schedule, enter on a list of trade-mark agents the name of **any firm having the name of at least one of its members entered on the list as a trade-mark agent.**

Both the patent and trade-mark legislation therefore provide that firms may act as agents before the Offices, as long as one of their members is entered on the register or list of agents. It is generally recognised that the term "firm" includes partnerships, and the Offices have already allowed general partnerships and limited liability partnerships to be entered on the register or list of agents. The Offices consider that limited partnerships are also firms, and that they are entitled to act as agents before the

13. Énoncé de pratique

LES SOCIÉTÉS EN COMMANDITE PEUVENT ÊTRE INSCRITES AU REGISTRE DES AGENTS DE BREVETS ET SUR LA LISTE DES AGENTS DE MARQUES DE COMMERCE

Nota : *Le présent énoncé de pratique a pour but de préciser les pratiques actuelles du Bureau des brevets et du Bureau des marques de commerce et l'interprétation faite par ces derniers de certaines dispositions législatives. Toutefois, en cas de divergence entre le présent énoncé et la législation applicable, c'est la législation qui prévaudra.*

Le Bureau des brevets et le Bureau des marques de commerce (ci-après appelés conjointement « les Bureaux ») ont reçu des questions à savoir si les sociétés en commandite (en anglais « limited partnerships ») ont le droit d'agir en tant qu'agents de brevets et de marques de commerce auprès des Bureaux.

En ce qui concerne le registre des agents de brevets, l'article 15 de la *Loi sur les brevets* prévoit qu'un registre des agents de brevets est tenu au Bureau des brevets sur lequel sont inscrits les noms de toutes les personnes et entreprises ayant le droit de représenter les demandeurs dans la présentation et la poursuite des demandes de brevet ou dans toute autre affaire devant le Bureau des brevets. Aux termes de l'article 2 des *Règles sur les brevets*, « agent de brevets » s'entend de toute personne ou maison d'affaires dont le nom est inscrit au registre des agents de brevets aux termes de l'article 15. L'alinéa 15c) des *Règles sur les brevets* prévoit que le commissaire inscrit au registre des agents de brevets, moyennant paiement de la taxe prévue à l'article 33 de l'annexe II, le nom de **toute maison d'affaires dont le nom d'au moins un membre est inscrit au registre des agents de brevets**.

En ce qui concerne la liste des agents de marques de commerce, le paragraphe 28(2) de la *Loi sur les marques de commerce* prévoit que la liste des agents de marques de commerce comporte les noms des personnes et études habilitées à représenter les intéressés dans la présentation et la poursuite des demandes d'enregistrement des marques de commerce et de toute affaire devant le Bureau des marques de commerce. Aux termes de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996), le registraire, sur demande écrite et sur paiement du droit prévu à l'article 19 de l'annexe, inscrit sur la liste des agents de marques de commerce le nom de **toute firme dont le nom d'au moins un membre est inscrit sur la liste à titre d'agent de marques de commerce.**

La législation actuelle sur les brevets et celle sur les marques de commerce prévoient donc que des firmes peuvent agir en tant qu'agents auprès des Bureaux, à condition que l'un de leurs membres soit inscrit au registre ou à la liste des agents. Il est généralement admis que le terme « firme » inclut les sociétés (en anglais «partnerships ») et les Bureaux ont déjà autorisé des sociétés en nom collectif (en anglais « general partnerships») ainsi que des sociétés à responsabilité limitée

Offices.

Therefore, commencing immediately, the Offices will enter upon request, on the register or list of agents, limited partnerships that otherwise meet the requirements set out in the patent and trade-mark legislation.

The Offices, however, continue to consider that the current patent and trade-mark legislation do not allow corporations to be entered on the register or list of agents, since corporations do not have members and therefore cannot meet the requirements set out in paragraph 15(c) of the *Patent Rules* and paragraph 21(d) of the *Trade-mark Regulations* (1996).

(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce.*

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled *Correspondence Procedures*, available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html

Publication date: May 10, 2017
Amendment date: June 17, 2019

On this page:

14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé *Procédures de correspondance*, consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html

Date de publication : 10 mai 2017
Date de modification : 17 juin 2019

Sur cette page :

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
8. Intellectual Property Acts, Rules and Regulation

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office
8. Lois, règles et règlements sur la propriété intellectuelle

This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

Le présent énoncé de pratique a pour but de préciser la pratique de l'Office de la propriété intellectuelle du Canada relativement aux procédures de correspondance et de communications écrites et remplace tout avis antérieur.

1. Physical Delivery of Correspondence and Written Communications to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, subsection 10(1) of the Trademarks Regulations, section 2 of the Copyright Regulations, section 4 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the Registrar of Trademarks, the Copyright Office, the Industrial Design Office, and the Office of the Registrar of Topographies (hereinafter sometimes collectively referred to as "CIPO") is:

Canadian Intellectual Property Office
Place du Portage I
50 Victoria Street, Room C-114
Gatineau QC K1A 0C9

In accordance with subsections 5(2), 5(3), 54(1) and 54(2) of the Patent Rules, subsection 10(2) of the Trademarks Regulations, subsections 2(2) and (3) of the Copyright Regulations, subsection 5(1) of the Industrial Design Regulations and subsections 3(2) and (3) of the Integrated Circuit Topography Regulations, correspondence and written communications delivered to the above address between 8:30 a.m. to 4:30 p.m. (Eastern Time) Monday to Friday is deemed to have been received on the actual date of their delivery if they are delivered when CIPO is open to the public.

Correspondence delivered at a time when CIPO is closed to the public will be deemed or considered to have been received on the day on which CIPO is next open to the public.

Please be advised that once correspondence is received by CIPO it cannot be returned to the sender, even if the sender states that the correspondence was sent by mistake. Exceptionally, in cases where correspondence is related to a patent application that does not meet the requirements under subsection 27.1(1) of the Patent Act for obtaining a filing date, the documents will be returned to the sender.

The Fee Payment Form should always be submitted as a covering document and should be the only document submitted

1. Remise physique de correspondance et communications écrites à l'OPIC

Pour l'application des articles 5 et 54 des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, du Bureau des dessins industriels, et du Bureau du registraire des topographies (ci-après parfois collectivement appelés « OPIC ») est la suivante :

Office de la propriété intellectuelle du Canada
Place du Portage I
50, rue Victoria, pièce C-114
Gatineau (Québec) K1A 0C9

Conformément aux paragraphes 5(2), 5(3), 54(1) et 54(2) des Règles sur les brevets, du paragraphe 10(2) du Règlement sur les marques de commerce, des paragraphes 2(2) et (3) du Règlement sur le droit d'auteur, du paragraphe 5(1) du Règlement sur les dessins industriels et des paragraphes 3(2) et (3) du Règlement sur les topographies de circuits intégrés, la correspondance et les communications écrites ayant été remises à l'adresse ci-dessus entre 8h30 et 16h30 (Heure de l'Est) du lundi au vendredi seront réputées avoir été reçues le jour de leur remise, si elles sont remises alors que l'OPIC est ouvert au public.

La correspondance remise lorsque les bureaux de l'OPIC sont fermés au public sera réputée avoir été reçue le jour de la réouverture de l'OPIC au public.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, celle-ci ne peut pas être retournée à l'expéditeur, même si l'expéditeur indique que la correspondance a été envoyée par erreur. Exceptionnellement, dans le cas où la correspondance vise une demande de brevet qui ne rencontre pas les exigences du paragraphe 27.1(1) de la Loi sur les brevets pour l'obtention d'une date de dépôt, les documents seront retournés à l'expéditeur.

Le formulaire de paiements des frais devrait toujours être

to CIPO that contains financial information, such as credit card numbers.

Download the Fee Payment Form.

fourni comme page couverture et devrait être le seul document soumis à l'OPIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 10(1) of the Trademarks Regulations, subsection 2(4) of the Copyright Regulations, section 4 of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be delivered **in person**. Please note that documents, payments and payment instructions delivered to the addresses listed below **must be enclosed in a sealed envelope** and that **no in person payment transactions** are processed on site. The ordinary business hours for each designated establishment are listed below.

- Innovation, Science and Economic Development Canada
  C.D. Howe Building
  235 Queen Street, Room S-143
  Ottawa ON K1A 0H5
  Tel.: 343-291-3436

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Sun Life Building
  1155 Metcalfe Street, Room 950
  Montreal QC H3B 2V6
  Tel.: 514-496-1797
  Toll-free: 1-888-237-3037

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  151 Yonge Street, 4th Floor
  Toronto ON M5C 2W7
  Tel.: 416-973-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,

1.1 Établissements désignés

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise **en personne** aux établissements ou bureaux désignés suivants. Veuillez prendre note que les documents, paiements et instructions de paiements remis aux adresses énumérées ci-dessous doivent être **inclus dans une enveloppe scellée** et qu'**aucune transaction de paiement en personne** n'est traitée sur place. Les heures normales d'ouverture pour chaque établissement désigné sont indiquées ci-dessous.

- Innovation, Sciences et Développement économique Canada
  Édifice C.D. Howe
  235, rue Queen, pièce S-143
  Ottawa (Ontario) K1A 0H5
  Tél. : 343-291-3436

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Édifice Sun Life
  1155, rue Metcalfe, bureau 950
  Montréal (Québec) H3B 2V6
  Tél. : 514-496-1797
  Sans frais : 1-888-237-3037

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  151, rue Yonge, 4e étage
  Toronto (Ontario) M5C 2W7
  Tél. : 416-973-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à

except statutory holiday

- Innovation, Science and Economic Development Canada
  Canada Place
  9700 Jasper Avenue, Suite 725
  Edmonton AB T5J 4C3
  Tel.: 780-495-4782
  Toll-free: 1-800-461-2646

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Library Square
  300 West Georgia Street, Suite 2000
  Vancouver BC V6B 6E1
  Tel.: 604-666-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Canada Place
  9700, avenue Jasper, pièce 725
  Edmonton (Alberta) T5J 4C3
  Tél. : 780-495-4782
  Sans frais : 1-800-461-2646

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Library Square
  300, rue Georgia Ouest, pièce 2000
  Vancouver (C.-B.) V6B 6E1
  Tél. : 604-666-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

In accordance with subsections 5(4), 5(5), 54(3) and 54(4) of the Patent Rules, subsection 10(3) of the Trademarks Regulations, subsections 2(4) and (5) of the Copyright Regulations, subsection 5(2) of the Industrial Design Regulations and subsections 3(4) and (5) of the Integrated Circuit Topography Regulations, correspondence delivered to a designated establishment on a day when CIPO is open to the public will be deemed or considered to be received on the day on which they are delivered to that designated establishment. If CIPO is closed to the public, correspondence will be deemed or considered to be received on the day on which CIPO is next open to the public. For example, if correspondence intended for CIPO is delivered to the designated establishment in Toronto on June 24, it will not be considered to be received on June 24 as CIPO is closed on that day (St-Jean-Baptiste Holiday in Quebec). It will be deemed received on the day on which CIPO is next open to the public.

Conformément aux paragraphes 5(4), 5(5), 54(3) et 54(4) des Règles sur les brevets, au paragraphe 10(3) du Règlement sur les marques de commerce, aux paragraphes 2(4) et (5) du Règlement sur le droit d'auteur, au paragraphe 5(2) du Règlement sur les dessins industriels et aux paragraphes 3(4) et (5) du Règlement sur les topographies de circuits intégrés, la correspondance remise à l'un des établissements désignés susmentionnés lorsque les bureaux de l'OPIC sont ouverts au public sera réputée ou considérée avoir été reçue le jour de leur remise à cet établissement désigné. Si les bureaux de l'OPIC sont fermés au public, la correspondance sera réputée ou considérée avoir été reçue à le jour de la réouverture de l'OPIC au public. Par exemple, la correspondance adressée à l'OPIC remise à l'établissement désigné de Toronto le 24 juin ne sera pas considérée avoir été reçue le 24 juin puisque les bureaux de l'OPIC sont fermés ce jour-là (la Saint-Jean Baptiste est un jour férié au Québec). La correspondance sera alors réputée avoir été reçue le jour de la réouverture des bureaux de l'OPIC au public.

1.2. Registered Mail™ and Xpresspost™ services of Canada Post

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 3(4) of the Trade-marks Regulations, subsection 2(4) of the Copyright Regulations, subsection 3(4) of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the Registered Mail™ and Xpresspost™ services of Canada Post are designated establishments or designated offices to which

1.2. Services Courrier recommandé^MC et Xpresspost^MC de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont des établissements ou des

correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered.

CIPO considers that correspondence delivered through the Registered Mail™ and Xpresspost™ services of Canada Post is received by CIPO on the day indicated on the mailing receipt provided by Canada Post, or if CIPO is closed for business on that day, on the day when CIPO is next open for business.

bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise.

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

2. Electronic Correspondence

For the purposes of section 8.1 of the Patent Act, subsection 64(1) of the Trademarks Act, subsection 24.1(1) of the Industrial Design Act and in accordance with subsections 5(6), 54(5), and 68(3) of the Patent Rules, subsection 10(4) of the Trademarks Regulations, subsection 2(6) of the Copyright Regulations, subsection 10(3) of the Industrial Design Regulations, and subsection 3(6) of the Integrated Circuit Topography Regulations, correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent by facsimile, online or on an electronic medium only as provided in the current notice.

In accordance with subsection 54(5) of the Patent Rules, the request for national entry is the only correspondence addressed to the Commissioner in respect of an international application that can be submitted online or on an electronic medium with the exception of sequence listings, applications prepared using the PCT-SAFE software or prepared using WIPO's ePCT online service as specified in the current notice. Other correspondence submitted online or on an electronic medium in respect of international applications that have not entered the national phase will not be accepted.

Subsection 10(5) of the Trademarks Regulations specifies certain categories of correspondence to which the provisions of subsection 10(4) do not apply.

Correspondence sent by facsimile or online to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies constitutes the original, therefore a duplicate paper copy should not be forwarded.

Correspondence delivered to the Commissioner of Patents by electronic means of transmission, including facsimile, will be considered to be received on the day that it is transmitted if delivered and received before midnight local time at CIPO on a day when CIPO is open for business. When CIPO is closed for business, correspondence delivered on that day will be considered to be received on the next day on which CIPO is

2. Correspondance électronique

Pour l'application de l'article 8.1 de la Loi sur les brevets, du paragraphe 64(1) de la Loi sur les marques de commerce, du paragraphe 24.1(1) de la Loi sur les dessins industriels, et conformément aux paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, au paragraphe 10(4) du Règlement sur les marques de commerce, au paragraphe 2(6) du Règlement sur le droit d'auteur, au paragraphe 10(3) du Règlement sur les dessins industriels et au paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise par télécopieur, en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent énoncé.

Conformément au paragraphe 54(5) des Règles sur les brevets, la demande d'entrée en phase nationale d'une demande internationale est la seule correspondance adressée au commissaire qui peut être présentée en ligne ou sur support électronique, à l'exception des listages de séquences, des demandes préparées à l'aide du logiciel PCT-SAFE ou préparées à l'aide du service en ligne ePCT de l'OMPI, tel qu'indiqué dans le présent avis. Toute autre correspondance présentée en ligne ou sur support électronique relativement à des demandes internationales qui ne sont pas entrées dans la phase nationale ne sera pas acceptée.

Le paragraphe 10(5) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 10(4) ne s'appliquent pas.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies constitue une version originale. Par conséquent, un duplicata sur support papier ne devrait pas être expédié.

La correspondance livrée au commissaire aux brevets et reçue par voie électronique, y compris par télécopieur, est considérée comme ayant été reçue à l'OPIC le jour même de sa transmission, si elle est livrée avant minuit, heure locale,

open for business.

Correspondence delivered to the Registrar of Trademarks or the Industrial Design Office by electronic means of transmission, including facsimile, is deemed to have been received on the day on which CIPO receives it (Eastern Time).

lorsque les bureaux de l'OPIC sont ouverts au public. Si elle est transmise un jour où les bureaux de l'OPIC sont fermés au public, elle est considérée comme ayant été reçue à la date du jour d'ouverture suivant de l'OPIC.

La correspondance fournie au registraire des marques de commerce ou transmise au Bureau des dessins industriels par voie électronique, y compris par télécopieur, est réputée avoir été reçue le jour ou l'OPIC l'a reçue (Heure de l'Est).

2.1 Facsimile

Black and white facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent to the following facsimile numbers:

(819) 953-CIPO (2476) or (819) 953-OPIC (6742)

Colour facsimile correspondence addressed to the Registrar of Trademarks or the Industrial Design Office **must** be sent to the following facsimile number:

(819) 934-3833

Note that the model of facsimile is a Xerox C505/X and that this information may be needed to ensure a successful colour transmission.

Facsimile correspondence that is sent to any facsimile number other than those indicated above, including those of a designated establishment, will be considered not to have been received.

Evidence submitted by facsimile in respect of an opposition or section 45 proceeding **will not be accepted** due to issues such as the often-poor quality of transmission, the risk of incomplete transmission and the voluminous nature of the documents.

The electronic transmittal report returned to you following your facsimile transmission will constitute your acknowledgment receipt. Confidentiality of the facsimile transmission process cannot be guaranteed. Please note that CIPO strongly discourages the use of a computer facsimile interface or internet-based facsimile services due to technical issues with reception.

When submitting by facsimile a document that also has a fee requirement, notification of the preferred mode of payment to be applied must be prominently displayed on the Fee Payment Form to ensure expedient processing.

2.1 Correspondance par télécopieur

La correspondance en noir et blanc par télécopieur adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise aux numéros ci-dessous :

819-953-OPIC (6742) ou 819-953-CIPO (2476)

La correspondance en couleur par télécopieur (modèle **:** Xerox C505/X) adressée au registraire des marques de commerce ou au Bureau des dessins industriels doit être transmise au numéro ci-dessous :

(819) 934-3833

À noter que le modèle de télécopieur est un Xerox C505/X; information qui peut être nécessaire afin de compléter une transmission en couleur.

La correspondance qui est transmise par télécopieur à tout autre numéro de télécopieur que ceux qui sont indiqués ci-dessus, y compris ceux d'établissements désignés, sera considérée comme n'ayant pas été reçue.

Les éléments de preuve présentés par télécopieur dans le cadre d'une procédure d'opposition ou de radiation en vertu de l'article 45 de la Loi **ne seront pas acceptés** en raison des inconvénients reliés à la mauvaise qualité de la transmission, au risque que la transmission soit incomplète et à la nature volumineuse de ces documents.

Le rapport de transmission électronique que vous recevrez après votre transmission par télécopieur constituera votre accusé de réception. La confidentialité du processus de transmission électronique ne peut pas être garantie. Veuillez noter que l'OPIC décourage fortement l'utilisation d'une interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Lors de la transmission par télécopieur d'un document comprenant une demande d'acquittement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

Patents

The document presentation requirements set out in sections 69 and 70 of the Patent Rules apply to facsimile correspondence.

Brevets

Les exigences relatives à la présentation des documents énoncées aux articles 69 et 70 des Règles sur les brevets s'appliquent à la correspondance par télécopieur.

2.2 Online

Correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent electronically using the relevant links below.

2.2 En ligne

La correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies peut être transmise par voie électronique.

Patents

For the purpose of subsection 5(6) of the Patent Rules, correspondence addressed to the Commissioner may be sent electronically by accessing the following pages:

- filing an application (regular application);
- filing a request for national entry;
- filing an international application (PCT Safe or ePCT);
- general correspondence relating to applications and patents;
- maintaining the name of a patent agent on the register of patent agents; and
- ordering copies in paper, or electronic form of a document.

Brevets

Pour l'application du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment en accédant aux pages suivantes :

- déposer une demande (demande régulière);
- déposer une demande d'entrée dans la phase nationale;
- déposer une demande internationale (PCT Safe ou ePCT);
- correspondance générale concernant des demandes et des brevets;
- maintien du nom d'un agent de brevets dans le registre des agents de brevets;
- commande de copies papier ou d'un document sous forme électronique.

Canada as Receiving Office Under the PCT: PCT-SAFE

Pursuant to PCT Rule 89bis, CIPO, in its role as a receiving Office, accepts the electronic filing of an international application prepared using the latest version of the WIPO's PCT-Safe software and applications prepared using WIPO's ePCT online service. Filing in both cases must be done using CIPO's International Filing e-service, called PCT E-Filing.

Note: Correspondence related to PCT international applications can not be sent electronically to CIPO. Correspondence may be sent by mail, by facsimile or delivered by hand to CIPO or to a designated establishment.

Le Canada comme office récepteur au titre du PCT : PCT-SAFE et ePCT

Conformément à la Règle 89bis du PCT, l'OPIC, à titre d'office récepteur, accepte le dépôt d'une demande internationale préparée à l'aide de la plus récente version du logiciel PCT-SAFE de l'OMPI, et d'une demande préparée à l'aide du service en ligne ePCT de l'OMPI. Dans les deux cas, le dépôt doit se faire à l'aide du service électronique de dépôt de demandes internationales de l'OPIC, appelé Dépôt en ligne de demandes PCT.

Note: La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIC ou à un établissement désigné.

Trademarks

For the purpose of subsection 10(4) of the Trademarks Regulations, the following correspondence addressed to the Registrar of Trademarks may be sent electronically by

Marques de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment en accédant aux pages suivantes

accessing the following pages:

- filing a new or revised trademark application;
- renewal of a trademark registration;
- request to enter a name on the list of trademark agents;
- annual renewal of a trademark agent;
- requesting copies of trademark documents;
- registration of a trademark application;

For the purpose of subsection 10(4) of the Trademarks Regulations, correspondence addressed to the Registrar of Trademarks in the context of opposition and section 45 proceedings may be sent electronically by accessing the Trademarks Opposition Board's online web application:

Opposition proceedings before the Trademarks Opposition Board

- filing a statement of opposition;
- filing of a counter statement;
- submission of the opponent's evidence, or statement;
- submission of the applicant's evidence, or statement;
- submission of the opponent's reply evidence;
- submission of the opponent's written representations, or statement;
- submission of the applicant's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

Section 45 proceedings before the Trademarks Opposition Board

- filing a request for a section 45 notice;
- submission of the registered owner's evidence;
- submission of the requesting party's written representations, or statement;
- submission of the registered owner's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

:

- nouvelle demande ou demande modifiée d'enregistrement de marque de commerce;
- renouvellement de l'enregistrement d'une marque de commerce;
- demande d'inscription d'un nom à la liste des agents de marques de commerce;
- renouvellement annuel d'un agent de marques de commerce;
- commande de copies de documents de marques de commerce,
- l'enregistrement d'une marque de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce dans le cadre des procédures d'opposition ou de radiation en vertu de l'article 45 peut être envoyée par voie électronique en accédant à l'application web en ligne de la Commission des oppositions des marques de commerce.

Procédures d'opposition devant la Commission des oppositions des marques de commerce

- production d'une déclaration d'opposition;
- Production d'une contre-déclaration d'opposition;
- Production de la preuve de l'opposant, ou d'une déclaration;
- Production de la preuve du requérant, ou d'une déclaration;
- Production de la contre-preuve de l'opposant;
- Production des arguments écrits de l'opposant, ou déclarations;
- Soumission des arguments écrits du requérant, ou déclarations;
- Produire une demande pour une audience; et
- demande de prolongation de délai.

Procédures en vertu de l'article 45 devant la Commission des oppositions des marques de commerce

- Production d'une demande pour un avis en vertu de l'article 45;
- Production de la preuve du propriétaire inscrit;
- Production des arguments écrits de la demanderesse, ou déclaration;
- Production des arguments écrits du propriétaire inscrit, ou déclaration;
- Produire une demande pour une audience; et
- Demande de prolongation de délai.

Notices

For the purpose of subsection 2(6) of the Copyright Regulations, the following correspondence addressed to the Copyright Office may be sent electronically, by accessing the following pages:

- application for registration of a copyright in a work,
- application for registration of a copyright in a performer's performance, sound recording or a communication signal;
- filing a grant of interest;
- request for certificate of correction;
- ordering copies in paper, or electronic form of a document; and
- general correspondence relating to copyright.

Pour l'application du paragraphe 2(6) du Règlement sur le droit d'auteur, la correspondance indiquée ci-dessous qui est adressée au Bureau du droit d'auteur peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un droit d'auteur sur une œuvre,
- demande d'enregistrement d'un droit d'auteur sur une prestation, un enregistrement sonore ou un signal de communication;
- dépôt d'une concession d'intérêt;
- demande de certificat de correction;
- commande de copies des documents papier ou électroniques et
- correspondance générale relative aux droits d'auteur.

Industrial Designs

For the purpose of subsection 24.1(1) of the Industrial Design Act, the following correspondence addressed to the Industrial Design Office may be sent electronically, by accessing the following pages:

- application for registration of an industrial design;
- ordering copies in paper, or electronic form of a document;
- general correspondence relating to industrial designs; and
- payment of industrial design maintenance fees.

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au Bureau des dessins industriels peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un dessin industriel;
- commande de copies de documents papier ou électroniques;
- correspondance générale relative aux dessins industriels; et
- paiement des droits de maintien des dessins industriels.

Integrated Circuit Topographies

For the purpose of subsection 3(6) of the Integrated Circuit Topography Regulations, the following correspondence addressed to the Registrar of Topographies may be sent electronically, by accessing the following page:

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

Pour l'application du paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance indiquée ci-dessous qui est adressée au registraire des topographies peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

Note: all electronic media must be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

2.3 Supports électroniques

Note : Les supports électroniques doivent être exempts de ver informatique, de virus, ou de tout autre contenu malveillant. Les fichiers qui comprennent du contenu malveillant seront supprimés.

Brevets

Patents

The Patent Office will accept correspondence on various types of electronic medium as specified below. The electronic medium should contain a table of contents and be provided with a cover letter, which will be date stamped by CIPO and placed in the application file. Filing date requirements prescribed in the Patent Rules still remain.

When submitted on an electronic medium, the parts of the application must be logically broken down in files, which are no larger than 25 megabytes.

With regards to sequence listings under Rule 111 of the Patent Rules, the electronic medium must be separate from any electronic medium which may be filed containing parts of the application itself or amendment(s) thereof.

Le Bureau des brevets acceptera la correspondance transmise à l'aide de divers supports électroniques, tel qu'indiqué ci-dessous. Le support électronique devrait contenir une table des matières et être accompagné d'une lettre explicative, laquelle sera datée par l'OPIC et placée dans le dossier de la demande. Les exigences relatives à la date de dépôt énoncées dans les Règles sur les brevets resteront applicables.

Les parties d'une demande qui sont présentées sur support électronique doivent être logiquement réparties en fichiers de 25 mégaoctets au maximum.

En ce qui concerne les listages des séquences prévus à l'article 111 des Règles sur les brevets, le support électronique doit être distinct de tout support électronique qui peut être déposé et qui contient des parties de la demande elle-même ou des modifications relatives à la demande.

Canada as Receiving Office Under the PCT: Electronic Filing of Sequence Listings

Pursuant to PCT Rules 89bis and 89ter, and in accordance with Part 7 of the PCT Administrative Instructions, where an international application contains disclosure of one or more nucleotide and/or amino acid sequence listings, CIPO, in its role as a receiving Office, accepts that the sequence listing part of the description and/or any table related to the sequence listing(s) be filed, at the option of the applicant:

i. only on an electronic medium in electronic form in accordance with section 702 of Part 7 of the PCT Administrative Instructions; or
ii. both on an electronic medium in electronic form and on paper in accordance with section 702 of Part 7 of the PCT Administrative Instructions;

provided that the other elements of the international application are filed as otherwise provided for under the PCT.

The sequence listing part of an international application filed in electronic form and related tables filed in electronic form shall comply with the relevant provisions of Annex C and C-bis of the PCT Administrative Instructions respectively.

For this purpose the Canadian receiving Office will accept any electronic media specified in Annex F of the PCT Administrative Instructions. Where both the sequence listing and the tables are filed in electronic form, the listing and the tables shall be contained on separate electronic media, which shall contain no other programs or files.

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of

Le Canada comme office récepteur au titre du PCT : Dépôt électronique des listages de séquences

Conformément aux Règles 89bis et 89ter du PCT et à la Partie 7 des Instructions administratives du PCT, lorsqu'une demande internationale contient la divulgation d'un ou de plusieurs listages des séquences de nucléotides et/ou d'acides aminés, à titre d'office récepteur l'OPIC accepte le dépôt de la partie de la description contenant les listages des séquences et/ou de tout tableau relatif aux listages des séquences et ce, à la discrétion du requérant :

i. seulement sous forme électronique et sur support électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT, ou

ii. sur support papier et sur support électronique sous forme électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT,

à condition que les autres éléments de la demande internationale soient déposés conformément aux dispositions du PCT.

Dans une demande internationale déposée sous forme électronique, la partie qui contient le listage des séquences et les tableaux connexes seront conformes aux dispositions pertinentes de l'Annexe C et de l'Annexe C-bis des Instructions administratives du PCT, respectivement.

À cette fin, l'office récepteur canadien acceptera tout support électronique prévu à l'Annexe F des Instructions administratives du PCT. Lorsque le listage des séquences et les tableaux sont déposés sous forme électronique, ils le seront sur des supports électroniques distincts ne contenant pas d'autres programmes ni fichiers.

the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

For further details concerning the filing of sequence listings and/or tables in electronic form, including the labeling of the electronic media and the calculation of the international filing fee, refer to section 7 of the PCT Administrative Instructions.

Aux fins du traitement de la demande internationale, l'office récepteur canadien exige deux (2) copies supplémentaires du support électronique contenant le listage de séquences et/ou les tableaux sous forme électronique, accompagnées d'une déclaration indiquant que le listage des séquences et/ou les tableaux contenus dans les copies sont identiques à ceux qui ont été déposés sous forme électronique.

On trouvera à l'article 7 des Instructions administratives du PCT des détails supplémentaires sur le dépôt de listages des séquences et/ou de tableaux sous forme électronique, notamment sur l'étiquetage des supports électroniques et le calcul de la taxe de dépôt internationale.

Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

Trademarks and Industrial Design

The Office of the Registrar of Trademarks and the Industrial Design Office will accept the following types of electronic media: CD-ROM, CD-R, DVD, DVD-R, and USB stick.

Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

Marques de commerce et dessins industriels

Le Bureau du registraire des marques de commerce et le Bureau des dessins industriels acceptent les supports électroniques suivants : CD ROM, CD-R, DVD, DVD-R, et clé USB.

3. Details Concerning the Electronic Formats Accepted

Patents

In accordance with section 8.1 of the Patent Act, and for the purposes of subsections 5(6), 54(5), and 68(3) of the Patent Rules, the acceptable file formats for documents submitted electronically site using the relevant links set out in section 2.2 of these correspondence procedures or on electronic media are TIFF and PDF. In order to get a correspondence date, the office will accept documents initially filed in other formats provided they are viewable with the software "Stellent Quick View Plus 8.0.0". In these cases, the office will request the documents to be replaced by documents in PDF or TIFF and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

Sequence listings can be initially provided in TIFF, PDF or in ASCII file formats. However, as a completion requirement according to section 94 of the Patent Rules, a sequence listing in the ASCII format compliant with the "PCT sequence listing standard" has to be submitted. Therefore, CIPO encourages applicants to submit the sequence listings in the ASCII format in the first place.

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

Conformément à l'article 8.1 de la Loi sur les brevets et aux fins des paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance ou sur support électronique sont les formats TIFF et PDF. Pour qu'une date de correspondance soit attribuée, le Bureau acceptera des documents initialement déposés dans d'autres formats à condition qu'ils soient consultables à l'aide du logiciel « Stellent Quick View Plus 8.0.0 ». Dans de tels cas, le Bureau exigera le remplacement des documents par des fichiers en format PDF ou TIFF, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents initialement déposés.

Les listages des séquences peuvent être initialement déposés sous forme de fichiers TIFF, PDF ou ASCII. Toutefois, afin de compléter la demande, conformément à l'article 94 des Règles sur les brevets, un listage des séquences en format ASCII conforme à la Norme PCT de listage des séquences devra être présenté. L'OPIC encourage donc les demandeurs à déposer les listages de séquences en format ASCII dès le départ.

TIFF, PDF and ASCII format when they comply with the following specifications:

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 ½" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;
- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

- Shall be encoded using IBM Code Page 437, IBM Code Page 932 or a compatible code page.

Le cas échéant, le Bureau des brevets acceptera des fichiers en format TIFF, PDF et ASCII s'ils sont conformes aux spécifications suivantes :

Format TIFF

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- Résolution : 300 ou 400 ppp
- Les dimensions des images balayées par scanner ou mémorisées doivent être compatibles avec celles qui sont requises pour les papiers, soit 8 1/2 po par 11 po ou A4.

Format PDF

- Compatible avec Adobe Portable Document Format Version 1.4
- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

- Le texte sera encodé à l'aide des pages de codes IBM 437 ou IBM 932 ou d'une page de codes compatible.

Trademarks

For the purposes of subsection 64(1) of the Trademarks Act, the acceptable file formats for documents submitted electronically using the relevant links set out in section 2.2 of these correspondence procedures are: PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP and Doc.

Industrial Design

For the purposes of subsection 24.1(1) of the Industrial Design Act, the acceptable file formats for documents, other than a representation of a design, submitted electronically are WPD, DOC, DOCX and PDF. The acceptable file formats for the representation of a design are PDF, JPEG, TIFF and GIF. The file size limit is of 60MB for PDF, 10MB for the other file formats. The scanned/stored images should be of a resolution of at least 300 dpi and the dimensions must be of 21.59 cm by 27.94 cm (8.5 in by 11 in).

Note that the conversion of files to an acceptable format may result in a change to the quality of the drawings.

Marques de commerce

Pour l'application du paragraphe 64(1) de la Loi sur les marques de commerce, les formats de fichiers acceptables pour les documents fournis par un moyen électronique énoncé à la section 2.2 des présentes procédures de correspondance sont : PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP et Doc.

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, les formats de fichiers acceptables pour les documents autres que la représentation d'un dessin, transmis par voie électronique sont : WPD, DOC, DOCX, PDF. Les formats de fichiers acceptables pour la représentation d'un dessin sont PDF, JPEG, TIFF, et GIF. La taille maximale est de 60MB pour le format PDF et de 10MB pour tout autre format. L'image numérisée/stockée devrait être dans une résolution d'au moins 300 dpi et les dimensions doivent être de 21,59 cm par 27,94 cm (8,5 po par 11po)

Veuillez noter que la conversion de fichiers vers un format acceptable pourrait résulter en un changement à la qualité des dessins.

4. General Information

General information may be obtained by communicating with CIPO's Client Service Centre.

4. Renseignements généraux

Des renseignements généraux peuvent être obtenus en communiquant avec le Centre de services à la clientèle de l'OPIC.

5. Time Period Extensions

- Time period extensions under the Patent, Trademarks and Industrial Design Acts
- Time period extensions under the Copyright and Integrated Circuit Topography Acts
- Time period extensions under the Patent Cooperation Treaty
- Time period extensions under the Madrid Protocol and the Hague Agreement

5. Prorogation des délais

- Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins industriels
- Prorogation des délais en vertu des les Lois sur le droit d'auteur et les topographies de circuits intégrés
- Prorogation des délais en vertu du le Traité de coopération en matière de brevets
- Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Time period extensions under the Patent, Trademarks and Industrial Design Acts

For the purposes of subsection 78(1) of the Patent Act, subsection 66(1) of the Trademarks Act, and subsection 21(1) of the Industrial Design Act, any time period fixed under those Acts and ending on 1) a **prescribed day** set out in the list below or 2) a **designated day** on account of unforeseen circumstances, will be extended to the next day that is not a prescribed day or a designated day and where CIPO is open to the public.

Designated days are those days that are designated by the Commissioner, the Registrar, or the Minister, on account of unforeseen circumstances and if they are satisfied that it is in the public interest to do so. If a day is designated, the public will be informed of that fact on CIPO's website.

Prescribed days under the Patent Act, Trademarks Act and Industrial Design Act are as follows:

- Every Saturday and Sunday;
- New Year's Day (January 1)*;
- Good Friday;
- Easter Monday;
- Victoria Day: First Monday immediately preceding May 25;
- St. Jean Baptiste Day (June 24)*;
- Canada Day (July 1)*;
- The first Monday in August;***
- Labour Day: First Monday in September;
- Thanksgiving Day: Second Monday in October;

Prorogation des délais prévus par les Lois sur les brevets, les marques de commerce, et les dessins industriels

Pour l'application du paragraphe 78(1) de la Loi sur les brevets, du paragraphe 66(1) de la Loi sur les marques de commerce, et du paragraphe 21(1) de la Loi sur les dessins industriels, tout délai fixé sous le régime de ces lois et qui expire 1) un **jour prescrit ou règlementaire** tel qu'indiqué dans la liste ci-dessous, ou 2) un **jour désigné** en raison de circonstances imprévues, sera prorogé jusqu'au jour suivant qui n'est ni un jour prescrit ni un jour désigné et où l'OPIC est ouvert au public.

Les **jours désignés** sont les jours désignés par le commissaire, le registraire, ou le ministre, où, en raison de circonstances imprévues, s'il est dans l'intérêt public de le faire. Si un jour est désigné, le public en sera informé sur le site web de l'OPIC.

Les **jours prescrits ou règlementaires** en vertu de la Loi sur les brevets, de la Loi sur les marques de commerce et de la Loi sur les dessins industriels sont les suivants :

- Tous les samedis et dimanches;
- Nouvel An (1er janvier)*;
- Vendredi Saint;
- Lundi de Pâques;
- Fête de la Reine ou Journée nationale des patriotes : Premier lundi immédiatement avant le 25 mai;
- Saint-Jean-Baptiste (24 juin)*;
- Fête du Canada (1er juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

- Remembrance Day (November 11)*;
- Christmas Day (December 25)**;
- Boxing Day (December 26)** ;
- Any day on which CIPO is closed to the public for all or part of that day during ordinary business hours.

*In the case of New Year's Day, St. Jean Baptiste Day, Canada Day and Remembrance Day, if the day falls on a Saturday or Sunday, deadlines will be extended to the following Tuesday.

**If December 25 falls on a Friday, deadlines will be extended to the following Tuesday. If December 25 falls on a Saturday or Sunday, any time periods ending on December 25 or December 26 will be extended to the following Wednesday.

***Please note that the Office is open to the public on the first Monday in August. Any time period which expires on that day will be extended to the next day the Office is open to the public (first Tuesday in August). However, any correspondence or fees submitted to the Office on that day will be deemed or considered received on that day.

Extensions for prescribed days occur regardless of place of residence or of the establishment to which documents are delivered.

Please be aware that not all provincial and territorial holidays are days where deadlines are extended. It is recommended that clients be mindful and ensure that all deadlines are respected.

- Action de Grâce : Deuxième lundi du mois d'octobre;
- Jour du Souvenir (11 novembre)*;
- Jour de Noël (25 décembre)**;
- Lendemain de Noël** ;
- Tout jour où l'OPIC est fermé au public pendant tout ou une partie des heures normales d'ouverture de l'OPIC au public.

*Si le Nouvel An, la Saint-Jean-Baptiste, la Fête du Canada, ou le Jour du Souvenir est un samedi ou un dimanche, les délais seront prorogés au mardi suivant.

**Si le 25 décembre est un vendredi, les délais seront prorogés au mardi suivant. Si le 25 décembre est un samedi ou un dimanche, les délais seront prorogés au mercredi suivant.

***Veuillez noter que les Bureaux sont ouverts au public le premier lundi du mois d'août. Tout délai qui expire ce jour-là sera prorogé au prochain jour ouvrable (premier mardi du mois d'août). Cependant, toute correspondance, droits ou taxes fournis au Bureau ce jour-là seront réputés ou considéré avoir été reçus à cette date.

La prorogation de délai concernant les jours prescrits ou règlementaires s'appliquent nonobstant du lieu de résidence ou du lieu de l'établissement auquel les documents ont été remis.

Veuillez noter que ce ne sont pas tous les jours fériés provinciaux ou territoriaux qui sont des jours prescrits ou règlementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

Time period extensions under the Copyright and Integrated Circuit Topography Acts

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to CIPO or a designated establishment (including the Registered Mail™ and Xpresspost™ services of Canada Post) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly,

Prorogation des délais prévus par les Lois sur le droit d'auteur et sur les topographies de circuits

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé^MC^, ou par Xpresspost^MC^ de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that he or she is properly entitled to any needed extension of the time limit.

livrés. Par conséquent, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:

i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;

ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;

iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or

iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

the period shall expire on the next subsequent day on which none of the said four circumstances exists.

Prolongations de délais prévus au Traité de coopération en matière de brevets

La règle 80.5 du Règlement d'exécution du PCT prévoit ce qui suit :

Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour :

i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;

ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;

iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou

iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

Le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus.

Time period extensions under the Madrid Protocol and the Hague Agreement

If a period within which a communication must be received by the International Bureau of the World Intellectual Property Office would expire on a day on which the International

Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Si un délai à l'intérieur duquel une communication doit être reçue par le Bureau international de l'Organisation mondiale de propriété intellectuelle expire un jour où le Bureau international n'est pas ouvert au public, le délai expirera lors du

Bureau is not open to the public, it will expire on the next subsequent day on which the International Bureau is open. Likewise, if the period within which a communication (such as a notification of refusal of protection) must be sent by CIPO to the International Bureau would expire on a day on which CIPO is not open to the public, it will expire on the next subsequent day on which CIPO is open.

A list of the days on which the International Bureau is closed to the public during the current and the following calendar year is available on the WIPO website.

6. Procedures in Case of an Unexpected Office Closure at CIPO

In case of unforeseen circumstances, CIPO will attempt to remain open to the public and ensure that essential service to our clients continues with the least possible disruption or delay.

In accordance with paragraph 27.01(n) of the Patent Rules, paragraph 15(n) of the Trademarks Regulations and paragraph 36(n) of the Industrial Design Regulations, whenever CIPO is closed to the public, for all or part of a day during ordinary business hours, including closures due to extraordinary circumstances, time periods will be extended to the next day that is not a prescribed or a designated day and where CIPO is open to the public.

For Copyright and Integrated Circuit Topography, if CIPO is closed to the public due to extraordinary circumstances, CIPO considers all time limits to be extended until the next day that it is open to the public. In such situations, mail delivered to CIPO or to designated establishments will be considered to be received on the date that CIPO re-opens to the public, with the exception of correspondence addressed to the Registrar of Topographies.

In view of the date-sensitive nature of intellectual property (IP), clients are advised to address important deadlines ahead of time to minimize the risk of affecting their IP rights. For the purposes of such deadlines, unless otherwise notified, clients should assume that all due dates remain in effect.

When possible during an emergency, information and search systems will continue to be available on our website; however, services provided through the Client Service Centre and other support areas within CIPO may be temporarily unavailable. Should an emergency occur, CIPO will post information with respect to service interruptions on our website as it becomes available and as circumstances permit.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or to use electronic means using the relevant links set out in section 2.2 of these correspondence procedures. Documents may continue to be faxed to CIPO at 819-953-CIPO (953-2476). Date-sensitive material requiring fee

premier jour suivant où le Bureau international est ouvert au public. Similairement, si un délai à l'intérieur duquel une communication (tel qu'une notification de refus de la protection) doit être envoyée par l'OPIC au Bureau international expire un jour où les bureaux de l'OPIC sont fermés au public, ce délai expirera lors du premier jour suivant la réouverture de l'OPIC.

Une liste des jours pendant lesquels le Bureau international est fermé au public pendant l'année civile en cours et à venir est disponible sur le site web de l'OMPI.

6. Procédures en cas de fermeture des bureaux

Lors de circonstances imprévues, l'OPIC s'efforcera de demeurer ouvert au public et d'assurer un service essentiel à ses clients, et ce, avec le moins d'interruption ou de retard possible.

Conformément à l'alinéa 27.01n) des Règles sur les Brevets, l'alinéa 15n) du Règlement sur les marques de commerce et de l'alinéa 36n) du Règlement sur les dessins industriels, lorsque les bureaux de l'OPIC sont fermés au public pendant toute ou une partie des heures normales d'ouverture, y compris une fermeture en raison de circonstances extraordinaires, les délais seront prorogés au jour suivant qui ne sera pas un jour prescrit ou un jour désigné et où l'OPIC est ouvert au public .

Pour les droits d'auteur et les topographies de circuits intégrés, si les bureaux de l'OPIC sont fermés au public en raison de circonstances extraordinaires, l'OPIC considère que tous les délais sont prorogés au prochain jour d'ouverture au public. Dans de telles circonstances, le courrier livré à l'OPIC ou à des établissements désignés sera considéré avoir été reçu à la date du jour de la réouverture de l'OPIC au public, à l'exception de la correspondance adressée au registraire des topographies.

Étant donné **l'importance que revêtent les délais** en matière de propriété intellectuelle (PI), il est recommandé aux clients de minimiser les risques pouvant nuire à leurs droits en matière de PI en tenant compte à l'avance des dates limites importantes. En ce qui a trait aux délais prescrits, les clients doivent respecter toutes les dates d'échéance, à moins d'avis contraire.

En situation d'urgence, les systèmes d'information et de recherche resteront, dans la mesure du possible, accessibles à partir de notre site Web. Toutefois, les services fournis par le Centre de services à la clientèle et les autres services de soutien de l'OPIC pourraient temporairement ne pas être offerts. En situation d'urgence, l'OPIC va publier les renseignements nécessaires sur notre page d'interruptions des services, lorsque ceux-ci seront disponibles et les circonstances le permettront.

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé^MC^, par Xpresspost^MC^ ou par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance. Il est toujours

payment that is sent by fax must be accompanied by a VISA™, MasterCard™, or American Express™ credit card number, or CIPO deposit account number.

Please note that there may also be instances in which the designated offices may be temporarily closed, yet CIPO remains open to the public. In such situations, it remains **the responsibility of CIPO's clients** to ensure that all deadlines are respected.

possible de transmettre par télécopieur des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des droits ou taxes sont exigés, qui sont envoyés par télécopieur, doivent être accompagnés d'un numéro de carte VISA[MC], Mastercard[MC] ou American Express[MC] ou d'un numéro de compte de dépôt à l'OPIC.

Veuillez noter qu'il pourrait y avoir des cas où les bureaux régionaux seraient fermés temporairement, mais où l'OPIC resterait ouvert au public. Le cas échéant, **les clients de l'OPIC demeurent responsables** du respect de tous les échéanciers.

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office

Patents, Industrial Design, Copyright and Integrated Circuit Topography

The legislative framework in relation with the abovementioned types of intellectual property does not provide CIPO with the flexibility to extend deadlines when it is open to the public but clients are unable to communicate with the Office.

In these situations it remains the responsibility of clients to ensure that all deadlines are respected.

Trademarks

The Trademarks Act and Regulations allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. In order for a retroactive extension of time to be granted, the Registrar of Trademarks must be satisfied that the failure to do the act or apply for an extension of time before the original due date was not reasonably avoidable. A prescribed fee is required in certain cases.

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office

Brevets, dessins industriels, droit d'auteur et topographies de circuits intégrés

Le cadre législatif en rapport aux types de propriété intellectuelle mentionnés ci-haut ne donne pas à l'OPIC la flexibilité de proroger les délais lorsque l'Office est ouvert au public, mais les clients sont dans l'impossibilité de communiquer avec le l'Office.

Dans une telle situation, les clients demeurent tenus de veiller à ce que les échéances soient respectées.

Marques de commerce

La Loi sur les marques de commerce et le Règlement sur les marques de commerce permettent aux clients de demander une prolongation rétroactive lorsqu'un délai n'a pas été respecté en raison d'un cas de force majeure. Pour qu'une prolongation de délai rétroactive soit accordée, le registraire des marques de commerce doit être convaincu que l'omission d'accomplir l'acte ou de demander la prorogation avant la date initiale d'échéance n'était pas raisonnablement évitable. Un droit prescrit est exigé dans certains cas.

8. Intellectual property acts, rules and regulations

- Copyright Act
- Copyright Regulations
- Industrial Design Act
- Industrial Design Regulations
- Integrated Circuit Topography Act
- Integrated Circuit Topography Regulations
- Interpretation Act
- Patent Act

8. Lois, règles et règlements sur la propriété intellectuelle

- Loi sur le droit d'auteur
- Règlement sur le droit d'auteur
- Loi sur les dessins industriels
- Règlement sur les dessins industriels
- Loi sur les topographies de circuits intégrés
- Règlement sur les topographies de circuits intégrés
- Loi d'interprétation
- Loi sur les brevets
- Règles sur les brevets

- Patent Rules
- Regulations under the PCT
- Trademarks Act
- Trademarks Regulations

- Règlement d'exécution du PCT
- Loi sur les marques de commerce
- Règlement sur les marques de commerce

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of February 8, 2022 contains applications open to public inspection from January 23, 2022 to January 29, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 8 février 2022 contient les demandes disponibles au public pour consultation pour la période du 23 janvier 2022 au 29 janvier 2022.

16. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2675968**
Issued: 2019-05-21
Present Owner: GENZYME CORPORATION

Title: **OLIGOSACCHARIDES COMPRISING AN AMINOOXY GROUP AND CONJUGATES THEREOF**

Subject to the terms of this document, GENZYME CORPORATION, as the owner of Canadian Patent No. 2,675,968, entitled " OLIGOSACCHARIDES COMPRISING AN AMINOOXY GROUP AND CONJUGATES THEREOF " (inventors ZHU, YUNXIANG; CHENG, SENG H.; JIANG, CANWEN: AVILA, LUIS Z.;) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,675,968 for the entirety of the term of the Patent.
The present dedication of the Canadian Patent No. 2,675,968 is made without any prejudice to the rights of GENZYME CORPORATION in and to any other patent or pending patent applications.
The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,675,968and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,675,968.
The patentee, GENZYME CORPORATION, also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Toronto, Ontario, Canada this 6th day of August, 2021.
[signature]
Name: Torys LLP
Title: Agent for the Patentee

16. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2675968**
Délivré: 2019-05-21
Titulaire actuel : GENZYME CORPORATION

Titre : **OLIGOSACCHARIDES COMPRENANT UN GROUPE AMINOOXY ET DES CONJUGUES DE CELUI-CI**

Par la présente et sous réserve des dispositions du présent document, GENZYME CORPORATION, à titre de propriétaire du brevet canadien no 2,675,968, intitulé «OLIGOSACCHARIDES COMPRENANT UN GROUPE AMINOOXY ET DES CONJUGUES DE CELUI-CI» (inventeur ZHU, YUNXIANG; CHENG, SENG H.; JIANG, CANWEN: AVILA, LUIS Z.;) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,675,968 pour toute la durée du brevet.
La présente cession du brevet canadien no 2,675,968 se fait sans préjudice des droits GENZYME CORPORATION sur l'ensemble des brevets et des demandes de brevet en instance.
La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,675,968 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,675,968.
Le breveté, GENZYME CORPORATION demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Toronto, en Ontario, au Canada, ce 6e jour du mois de août 2021.
[signature]
Nom; : Torys LLP
Titre: Agent du breveté

17. Erratum

All information respecting patent application number 3,129,334 referred to under the section *PCT Applications Entering the National Phase* contained in the January 4th, 2022 issue of the *Canadian Patent Office Record* was erroneously published and should be disregarded.

17. Erratum

Toutes les informations relatives à la demande de brevet 3,129,334 dans la liste *des Demandes PCT entrant en phase nationale* contenues dans le numéro 4 janvier 2022 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

18. Erratum

All information respecting patent application number 3,077,863 referred to under the section *Canadian Applications Open to Public Inspection* contained in the 11-24-2022 issue of the *Canadian Patent Office Record* was erroneously published, and should be disregarded.

18. Erratum

Toutes les informations relatives à la demande de brevet 3,077,863 sous la rubrique *Demandes canadiennes mises à la disponibilité* du publique dans le numéro 11-24-2022 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

Canadian Patents Issued

February 8, 2022

Brevets canadiens délivrés

8 février 2022

---

[11] **2,754,963**
[13] C
[51] **Int.Cl. A61K 31/201 (2006.01) C07C 57/03 (2006.01) C07C 59/42 (2006.01)**
[25] EN
[54] **USE OF 2-HYDROXYDERIVATES OF POLYUNSATURATED FATTY ACIDS AS MEDICAMENTS**
[54] **UTILISATION DE 2-HYDROXYDERIVES D'ACIDES GRAS POLYINSATURES COMME MEDICAMENTS**
[72] ESCRIBA RUIZ, PABLO VICENTE, ES
[72] BUSQUETS XAUBET, XAVIER, ES
[72] TERES JIMENEZ, SILVIA, ES
[72] BARCELO COBLIJN, GWENDOLYN, ES
[72] LLADO CANELLAS, VICTORIA, ES
[72] MARCILLA ETXENIKE, AMAIA, ES
[72] MARTIN, MARIA LAURA, ES
[72] HIGUERA URBANO, MONICA, ES
[72] ALVAREZ MARTINEZ, RAFAEL, ES
[72] LOPEZ, DANIEL HORACIO, ES
[73] LIPOPHARMA THERAPEUTICS, S.L., ES
[85] 2011-09-08
[86] 2010-03-15 (PCT/ES2010/070153)
[87] (WO2010/106211)
[30] ES (P 200900725) 2009-03-16

---

[11] **2,822,953**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/686 (2018.01) C12Q 1/689 (2018.01) C07H 21/04 (2006.01) C12N 15/31 (2006.01) C40B 30/04 (2006.01) C40B 40/06 (2006.01)**
[25] EN
[54] **SELECTIVE DETECTION OF HAEMOPHILUS INFLUENZAE**
[54] **DETECTION SELECTIVE DE HAEMOPHILUS INFLUENZAE**
[72] THOMAS, JENNIFER DOLAN, US
[72] WANG, XIN, US
[72] HATCHER, CYNTHIA, US
[72] ANDERSON, RAYDEL, US
[72] THEODORE, MARY JORDAN, US
[72] MAYER, LEONARD W., US
[73] THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2013-06-25
[86] 2012-01-26 (PCT/US2012/022753)
[87] (WO2012/103353)
[30] US (61/436,535) 2011-01-26

---

[11] **2,826,274**
[13] C
[51] **Int.Cl. F16K 1/32 (2006.01) F16K 31/126 (2006.01)**
[25] EN
[54] **MEDIA CONTROL VALVE**
[54] **SOUPAPE DE REGULATION DE MILIEU**
[72] NGUYEN, PHUONG TAYLOR, US
[73] NGUYEN, PHUONG TAYLOR, US
[85] 2013-07-31
[86] 2012-10-27 (PCT/US2012/000525)
[87] (WO2013/066370)
[30] US (13/286,206) 2011-10-31

---

[11] **2,827,358**
[13] C
[51] **Int.Cl. H04W 4/029 (2018.01) H04L 45/30 (2022.01) H04L 67/101 (2022.01) H04L 67/1021 (2022.01) H04L 67/1023 (2022.01) H04L 67/12 (2022.01) H04L 67/52 (2022.01) H04L 67/568 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GEO-STAGING OF SENSOR DATA THROUGH DISTRIBUTED GLOBAL (CLOUD) ARCHITECTURE**
[54] **SYSTEMES ET PROCEDES POUR GEO-TRANSFERER DES DONNEES DE DETECTION VIA UNE ARCHITECTURE GLOBALE DISTRIBUEE (CLOUD)**
[72] SKAAKSRUD, OLE-PETTER, US
[72] AINSWORTH, MILEY, US
[73] FEDEX CORPORATE SERVICES, INC., US
[85] 2013-08-12
[86] 2012-02-21 (PCT/US2012/025947)
[87] (WO2012/115970)
[30] US (61/445,274) 2011-02-22

---

[11] **2,833,986**
[13] C
[51] **Int.Cl. F01D 5/02 (2006.01) B23P 15/02 (2006.01) F01D 5/14 (2006.01) F01D 5/30 (2006.01) F01D 5/34 (2006.01) F04D 29/32 (2006.01)**
[25] EN
[54] **LOW HUB-TO-TIP RATIO FAN FOR A TURBOFAN GAS TURBINE ENGINE**
[54] **VENTILATEUR A FAIBLE RAPPORT MOYEU-POINTE POUR UNE TURBINE A GAZ**
[72] TOWNSEND, PETER, CA
[72] HEIKURINEN, KARI, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2833986)
[87] (2833986)
[22] 2013-11-18
[30] US (13/687,540) 2012-11-28

[11] **2,836,868**
[13] C
[51] **Int.Cl. C12Q 1/04 (2006.01) C12Q 1/22 (2006.01) G01N 33/52 (2006.01) A61L 2/16 (2006.01)**
[25] EN
[54] **KIT FOR DETECTING BIOFILMS**
[54] **TROUSSE DE DETECTION DE BIOFILMS**
[72] BOELS, GAUTHIER, BE
[72] BLACKMAN, GORDON, BE
[72] CALABOZO, ALMUDENA, BE
[73] REALCO, BE
[85] 2013-11-20
[86] 2012-06-22 (PCT/EP2012/062086)
[87] (WO2012/175671)
[30] EP (11171360.8) 2011-06-24

---

[11] **2,882,044**
[13] C
[51] **Int.Cl. A23F 5/46 (2006.01) A23F 5/24 (2006.01)**
[25] EN
[54] **A METHOD OF PREPARING FLAVORED COFFEES USING REDUCED AMOUNT OF FLAVORANT**
[54] **UNE METHODE DE PREPARATION DE CAFES AROMATISES COMPORTANT UNE QUANTITE REDUITE DE SUBSTANCE AROMATISANTE**
[72] BREHA, PAUL JEFFREY, III, US
[73] THE FOLGER COFFEE COMPANY, US
[86] (2882044)
[87] (2882044)
[22] 2015-02-13
[30] US (14/326,581) 2014-07-09

---

[11] **2,892,566**
[13] C
[51] **Int.Cl. G09C 5/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MARKING MANUFACTURED ITEMS USING PHYSICAL CHARACTERISTIC**
[54] **PROCEDE ET APPAREIL PERMETTANT DE MARQUER DES ARTICLES MANUFACTURES AU MOYEN D'UNE CARACTERISTIQUE PHYSIQUE**
[72] CHANEZ, PATRICK, CH
[72] FRADET, ERWAN, CH
[73] INEXTO SA, CH
[85] 2015-05-26
[86] 2013-12-16 (PCT/EP2013/076725)
[87] (WO2014/095737)
[30] EP (12197525.4) 2012-12-17

---

[11] **2,904,766**
[13] C
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/30 (2016.01) A61B 90/90 (2016.01) A61B 17/56 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM AND APPARATUS FOR CONTROLLING A SURGICAL NAVIGATION SYSTEM**
[54] **PROCEDE, SYSTEME ET APPAREIL PERMETTANT DE COMMANDER UN SYSTEME DE NAVIGATION CHIRURGICALE**
[72] PIRON, CAMERON, CA
[72] WOOD, MICHAEL, CA
[72] SELA, GAL, CA
[72] RICHMOND, JOSH, CA
[72] YUWARAJ, MURUGATHAS, CA
[72] MCFADYEN, STEPHEN, CA
[72] DYER, KELLY, CA
[72] THOMAS, MONROE M., CA
[72] HODGES, WES, CA
[72] ALEXANDER, SIMON, CA
[72] GALLOP, DAVID, CA
[73] SYNAPTIVE MEDICAL INC., CA
[85] 2015-09-09
[86] 2014-03-14 (PCT/CA2014/000247)
[87] (WO2014/138916)
[30] US (61/801,530) 2013-03-15
[30] US (61/800,155) 2013-03-15
[30] US (61/818,280) 2013-05-01
[30] US (61/924,993) 2014-01-08

---

[11] **2,905,890**
[13] C
[51] **Int.Cl. C09K 11/02 (2006.01)**
[25] EN
[54] **METHOD FOR SOLVENTLESS QUANTUM DOT EXCHANGE**
[54] **PROCEDE POUR L'ECHANGE DE POINTS QUANTIQUES SANS SOLVANT**
[72] FURUTA, PAUL T., US
[72] DUBROW, ROBERT, US
[73] NANOSYS, INC., US
[85] 2015-09-11
[86] 2014-03-13 (PCT/US2014/025463)
[87] (WO2014/159927)
[30] US (61/781,285) 2013-03-14

---

[11] **2,911,880**
[13] C
[51] **Int.Cl. A61F 2/28 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **TRAUMATIC BONE FRACTURE REPAIR SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE REPARATION D'UNE FRACTURE OSSEUSE TRAUMATIQUE**
[72] HUNT, JESSEE, US
[73] 4-WEB, INC., US
[85] 2015-11-06
[86] 2014-03-17 (PCT/US2014/030319)
[87] (WO2014/145529)
[30] US (61/801,524) 2013-03-15

---

[11] **2,913,368**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/30 (2006.01) A61K 47/36 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **ABUSE DETERRENT IMMEDIATE RELEASE FORMULATION**
[54] **FORMULATION A LIBERATION IMMEDIATE EMPECHANT LES UTILISATIONS ABUSIVES**
[72] BHANDARI, KRISHNA HARI, CA
[72] TALWAR, NARESH, CA
[73] PMSCI RESEARCH AND DEVELOPMENT INC., CA
[85] 2015-11-24
[86] 2014-05-30 (PCT/CA2014/050506)
[87] (WO2014/190440)
[30] CA (2817728) 2013-05-31

[11] **2,921,557**
[13] C
[51] **Int.Cl. C07H 21/04 (2006.01) C40B 30/04 (2006.01) G01N 33/50 (2006.01) C07K 14/705 (2006.01) C12N 15/12 (2006.01) C40B 40/06 (2006.01)**
[25] EN
[54] **METHODS AND NUCLEIC ACIDS FOR ANALYSES OF CELL PROLIFERATIVE DISORDERS**
[54] **PROCEDES ET ACIDES NUCLEIQUES POUR ANALYSES DES TROUBLES PROLIFERATIFS CELLULAIRES**
[72] LIEBENBERG, VOLKER, DE
[72] DISTLER, JUERGEN, DE
[72] LEWIN, JOERN, DE
[72] MODEL, FABIAN, DE
[72] TETZNER, REIMO, DE
[72] CORTESE, RENE, DE
[73] EPIGENOMICS AG, DE
[86] (2921557)
[87] (2921557)
[22] 2008-01-18
[62] 2,675,895
[30] EP (07100829.6) 2007-01-19
[30] EP (07110019.2) 2007-06-11
[30] EP (07113449.8) 2007-07-30

[11] **2,930,849**
[13] C
[51] **Int.Cl. A01C 11/02 (2006.01) A01C 11/00 (2006.01)**
[25] EN
[54] **ROBOTIC PLATFORM AND METHOD FOR PERFORMING MULTIPLE FUNCTIONS IN AGRICULTURAL SYSTEMS**
[54] **PLATEFORME ROBOTIQUE ET PROCEDE DE REALISATION DE MULTIPLES FONCTIONS DANS DES SYSTEMES AGRICOLES**
[72] CAVENDER-BARES, KENT, US
[72] LOFGREN, JOSEPH B., US
[73] ROWBOT SYSTEMS LLC, US
[85] 2016-05-16
[86] 2014-11-20 (PCT/US2014/066610)
[87] (WO2015/077452)
[30] US (61/906,643) 2013-11-20

[11] **2,931,985**
[13] C
[51] **Int.Cl. B63B 27/16 (2006.01) E02F 7/00 (2006.01) E02F 9/00 (2006.01) E21C 50/00 (2006.01)**
[25] EN
[54] **DEVICE FOR LAUNCHING A SUBSURFACE MINING VEHICLE INTO A WATER MASS AND RECOVERING THE SAME FROM THE WATER MASS**
[54] **DISPOSITIF DE LANCEMENT D'UN VEHICULE MINIER SOUTERRAIN DANS UNE MASSE D'EAU ET DE RECUPERATION DE CELUI-CI DE LA MASSE D'EAU**
[72] HEILER, JOHAN, BE
[72] LUCIEER, PIETER ABRAHAM, NL
[72] DE BRUYNE, KRIS, BE
[72] STOFFERS, HARMEN DERK, NL
[73] IHC HOLLAND IE B.V., NL
[85] 2016-05-27
[86] 2014-12-02 (PCT/EP2014/076205)
[87] (WO2015/082448)
[30] NL (2011882) 2013-12-02
[30] NL (2012695) 2014-04-25

[11] **2,933,105**
[13] C
[51] **Int.Cl. B29C 45/14 (2006.01) B29C 45/16 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR APPLYING AN INJECTION MOULDED PART TO A FINISHED PRODUCTION PART**
[54] **METHODE ET APPAREIL SERVANT A APPLIQUER UNE PIECE MOULEE PAR INJECTION A UNE PIECE DE PRODUCTION FINIE**
[72] BUCHANAN, VANCE PHILIP, CA
[72] TARRANT, CHRISTOPHER FRANCIS, CA
[73] EXCO TECHNOLOGIES LIMITED DBA NEOCON, CA
[86] (2933105)
[87] (2933105)
[22] 2016-06-15
[30] US (62/175,515) 2015-06-15

[11] **2,934,287**
[13] C
[51] **Int.Cl. B65B 39/14 (2006.01) B65B 43/62 (2006.01) B67C 3/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FORMING FLUID MIXTURES**
[54] **SYSTEME ET PROCEDE DESTINES A LA FORMATION DE MELANGES DE FLUIDE**
[72] HOLMES, KIRK, US
[72] CASCIA, ALBERT B., US
[72] TRAN, DAMON, US
[73] CNJFW & SON, LLC, US
[85] 2016-06-16
[86] 2015-01-06 (PCT/US2015/010320)
[87] (WO2015/103609)
[30] US (61/924,107) 2014-01-06
[30] US (14/589,214) 2015-01-05

[11] **2,935,449**
[13] C
[51] **Int.Cl. E21B 19/22 (2006.01)**
[25] EN
[54] **CONVEYOR APPARATUS**
[54] **APPAREIL TRANSPORTEUR**
[72] BJORNENAK, MADS, NO
[73] STIMLINE AS, NO
[85] 2016-06-29
[86] 2015-01-23 (PCT/EP2015/051317)
[87] (WO2015/113899)
[30] NO (20140093) 2014-01-28

[11] **2,935,914**
[13] C
[51] **Int.Cl. C07D 205/04 (2006.01) C07D 207/16 (2006.01) C07D 211/62 (2006.01) A61K 47/22 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **CATIONIC LIPID**
[54] **LIPIDE CATIONIQUE**
[72] SUZUKI, YUTA, JP
[72] HYODO, KENJI, JP
[72] TANAKA, YOHEI, JP
[73] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2016-07-05
[86] 2015-01-07 (PCT/JP2015/050295)
[87] (WO2015/105131)
[30] US (61/925,267) 2014-01-09

[11] **2,936,549**
[13] C
[51] **Int.Cl. C22C 38/46 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/52 (2006.01) C22C 38/54 (2006.01) C22C 38/60 (2006.01)**
[25] EN
[54] **STAINLESS STEEL AND A CUTTING TOOL BODY MADE OF THE STAINLESS STEEL**
[54] **ACIER INOXYDABLE ET CORPS D'OUTIL DE COUPE CONSTITUE DE CET ACIER INOXYDABLE**
[72] GUNNARSSON, STAFFAN, SE
[72] TIDESTEN, MAGNUS, SE
[73] UDDEHOLMS AB, SE
[85] 2016-07-11
[86] 2014-12-30 (PCT/SE2014/051578)
[87] (WO2015/108466)
[30] SE (1450040-9) 2014-01-16
[30] EP (14151408.3) 2014-01-16

---

[11] **2,947,148**
[13] C
[51] **Int.Cl. C07K 16/40 (2006.01) C07K 16/26 (2006.01)**
[25] EN
[54] **ANTI-PTK7 ANTIBODY-DRUG CONJUGATES**
[54] **CONJUGUES MEDICAMENT-ANTICORPS ANTI-PTK7**
[72] DAMELIN, MARC ISAAC, US
[72] SAPRA, PUJA, US
[72] BANKOVICH, ALEXANDER JOHN, US
[72] DYLLA, SCOTT J., US
[73] PFIZER INC., US
[73] ABBVIE STEMCENTRX LLC, US
[85] 2016-10-26
[86] 2015-04-27 (PCT/US2015/027791)
[87] (WO2015/168019)
[30] US (61/986,520) 2014-04-30

---

[11] **2,947,190**
[13] C
[51] **Int.Cl. C01B 25/234 (2006.01) C05B 1/04 (2006.01)**
[25] EN
[54] **A METHOD FOR PURIFYING RAW PHOSPHORIC ACID (E.G., MGA ACID) BY ADDING ASH ORIGINATING FROM WASTE INCINERATION PLANTS**
[54] **PROCEDE DE PURIFICATION D'ACIDE PHOSPHORIQUE BRUT (PAR EXEMPLE D'ACIDE DE QUALITE MGA) PAR AJOUT DE CENDRES PROVENANT D'INSTALLATIONS D'INCINERATION DE DECHETS**
[72] LEHMKUHL, JOSEF, DE
[72] LEBEK, MARTIN, DE
[73] REMONDIS AQUA GMBH & CO. KG, DE
[85] 2016-10-27
[86] 2014-05-20 (PCT/EP2014/001360)
[87] (WO2015/165481)
[30] DE (10 2014 006 278.3) 2014-05-02

---

[11] **2,947,191**
[13] C
[51] **Int.Cl. B64D 35/00 (2006.01) B64D 27/24 (2006.01) B64D 33/00 (2006.01) F02C 6/20 (2006.01) F02C 7/00 (2006.01)**
[25] EN
[54] **AIRCRAFT ENGINE AND ASSOCIATED METHOD FOR DRIVING THE FAN WITH THE LOW PRESSURE SHAFT DURING TAXI OPERATIONS**
[54] **MOTEUR D'AERONEF ET PROCEDE ASSOCIE POUR ENTRAINER LE VENTILATEUR AVEC L'ARBRE BASSE PRESSION DURANT LA CIRCULATION AU SOL**
[72] MACKIN, STEVE G., US
[73] THE BOEING COMPANY, US
[86] (2947191)
[87] (2947191)
[22] 2016-11-01
[30] US (14/988267) 2016-01-05

---

[11] **2,947,516**
[13] C
[51] **Int.Cl. E21B 47/10 (2012.01) E21B 47/103 (2012.01) E21B 47/113 (2012.01)**
[25] EN
[54] **FLUID INFLOW**
[54] **DEBIT ENTRANT DE FLUIDE**
[72] CRICKMORE, ROGER, GB
[72] RIDGE, ANDREW, GB
[73] OPTASENSE HOLDINGS LIMITED, GB
[85] 2016-10-31
[86] 2015-05-08 (PCT/GB2015/051357)
[87] (WO2015/170113)
[30] GB (1408131.9) 2014-05-08

---

[11] **2,952,097**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01) H04B 7/0413 (2017.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRANSMISSION PATTERN CONFIGURATION AND SIGNAL DETECTION**
[54] **PROCEDE ET APPAREIL DE CONFIGURATION D'UN MOTIF DE TRANSMISSION ET DE DETECTION DE SIGNAUX**
[72] GAO, YUKAI, CN
[72] JIANG, CHUANGXIN, CN
[72] WANG, GANG, CN
[73] NEC CORPORATION, JP
[85] 2016-12-13
[86] 2015-05-12 (PCT/CN2015/078751)
[87] (WO2016/179791)

---

[11] **2,961,288**
[13] C
[51] **Int.Cl. G06Q 50/02 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PROVIDING SOIL ANALYSIS**
[54] **PROCEDE ET SYSTEME PERMETTANT L'ANALYSE DU SOL**
[72] CARTWRIGHT, TIMOTHY B., US
[73] FLORATINE PRODUCTS GROUP, INC., US
[85] 2017-03-13
[86] 2015-09-29 (PCT/US2015/052947)
[87] (WO2016/054044)
[30] US (62/056,757) 2014-09-29

[11] **2,967,459**
[13] C
[51] **Int.Cl. E04F 13/076 (2006.01) E04C 2/40 (2006.01) E04F 13/08 (2006.01)**
[25] EN
[54] **WALL PANEL WITH ASYMMETRICALLY RABBETED EDGES**
[54] **PANNEAU MURAL A REBORDS RAINURES ASSYMETRIQUEMENT**
[72] HURTUBISE, MARC, CA
[72] TITLEY, LUC, CA
[72] CHABOT, JERRY, CA
[72] CAMPEAU, MARC, CA
[72] LIU, FUZHONG, CA
[72] CADNEY, SEAN, CA
[73] MOULURE ALEXANDRIA MOULDING INC., CA
[86] (2967459)
[87] (2967459)
[22] 2017-05-16

[11] **2,968,492**
[13] C
[51] **Int.Cl. B02C 17/16 (2006.01)**
[25] EN
[54] **AGITATOR MEANS FOR VERTICAL GRINDING MILLS**
[54] **MOYENS FORMANT AGITATEUR POUR BROYEUSES VERTICALES**
[72] HAAS, ALLEN EVERETT, US
[72] MCNAUGHTON, BRADY WAYNE, US
[73] METSO MINERALS INDUSTRIES, INC., US
[85] 2017-05-19
[86] 2014-11-25 (PCT/IB2014/066309)
[87] (WO2016/079574)
[30] US (14/548,436) 2014-11-20

[11] **2,968,793**
[13] C
[51] **Int.Cl. A61K 31/137 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR USE IN THE PREVENTION OR TREATMENT OF CANCER**
[54] **COMPOSES A UTILISER DANS LA PREVENTION OU LE TRAITEMENT DU CANCER**
[72] KNOLL, JOZSEF, HU
[72] MIKLYA, ILDIKO, HU
[72] FERDINANDY, PETER, HU
[72] SCHULER, DEZSO, HU
[72] SCHAFF, ZSUZSANNA, HU
[72] ECKHARDT, SANDOR, HU
[73] SEMMELWEIS UNIVERSITY, HU
[73] FUJIMOTO CO. LTD., JP
[85] 2017-05-24
[86] 2015-12-07 (PCT/IB2015/059405)
[87] (WO2016/088111)
[30] EP (14196623.4) 2014-12-05

[11] **2,969,545**
[13] C
[51] **Int.Cl. A01N 47/14 (2006.01) A01N 43/653 (2006.01)**
[25] EN
[54] **METHOD FOR REDUCING PHYTOTOXICITY OF TEBUCONAZOLE OR PROTHIOCONAZOLE USING MANCOZEB**
[54] **PROCEDE DE REDUCTION DE LA PHYTOTOXICITE DU TEBUCONAZOLE OU DU PROTHIOCONAZOLE A L'AIDE DU MANCOZEBE**
[72] OLIVEIRA, GILSON APARECIDO HERMENEGILDO DE, BR
[73] UPL LIMTED, IN
[85] 2017-06-02
[86] 2015-12-10 (PCT/BR2015/050241)
[87] (WO2016/090446)
[30] BR (BR1020140312528) 2014-12-12

[11] **2,970,088**
[13] C
[51] **Int.Cl. G08B 21/24 (2006.01) H04W 4/30 (2018.01) G08B 23/00 (2006.01)**
[25] EN
[54] **DEVICE LOCK BYPASS ON SELECTABLE ALERT**
[54] **DEVIATION DE VERROU DE DISPOSITIF SELON L'ALERTE**
[72] TSERETOPOULOS, DEAN C. N., CA
[72] HARPER, GREGORY RICHARD, CA
[72] WALIA, SARABJIT SINGH, CA
[72] NASIM, SARIR, CA
[72] LEE, DIANE, CA
[72] LEE, JOHN JONG SUK, CA
[72] THOMAS, JOHN WILLIAM, CA
[72] THOMAS, RICHARD, CA
[72] HEATH, SIMONA, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2970088)
[87] (2970088)
[22] 2017-06-09
[30] US (62/402,529) 2016-09-30

[11] **2,973,010**
[13] C
[51] **Int.Cl. G02B 1/10 (2015.01) G02B 1/116 (2015.01) C08J 7/06 (2006.01)**
[25] EN
[54] **ANTI-STATIC, ANTI-REFLECTIVE COATING**
[54] **REVETEMENT ANTISTATIQUE ET ANTIREFLET**
[72] MARSHALL, MICHAEL, US
[72] BROWN, JEFF, US
[73] VISION EASE, LP, US
[85] 2017-07-04
[86] 2016-03-09 (PCT/US2016/021614)
[87] (WO2016/145118)
[30] US (62/130,502) 2015-03-09

[11] **2,976,620**
[13] C
[51] **Int.Cl. G05B 23/02 (2006.01)**
[25] EN
[54] **DETERMINATION DEVICE, DETERMINATION METHOD, AND DETERMINATION PROGRAM**
[54] **DISPOSITIF, PROCEDE ET PROGRAMME DE DETERMINATION**
[72] UNO, KAZUSHI, JP
[72] ARIOKA, TAKAHIRO, JP
[72] KASAJIMA, TAKEO, JP
[72] FUKUDA, HIROYUKI, JP
[73] FUJITSU LIMITED, JP
[85] 2017-08-14
[86] 2016-02-15 (PCT/JP2016/054311)
[87] (WO2016/133049)
[30] JP (2015-029057) 2015-02-17

[11] **2,984,147**
[13] C
[51] **Int.Cl. G02B 27/01 (2006.01) G06T 19/00 (2011.01) A63F 13/52 (2014.01) A63F 13/825 (2014.01) A63G 31/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **PRIVACY-SENSITIVE CONSUMER CAMERAS COUPLED TO AUGMENTED REALITY SYSTEMS**
[54] **CAMERAS DE CONSOMMATEUR SENSIBLES A LA CONFIDENTIALITE ACCOUPLEES A DES SYSTEMES DE REALITE AUGMENTEE**
[72] BRADSKI, GARY R., US
[73] MAGIC LEAP, INC., US
[85] 2017-10-26
[86] 2016-05-14 (PCT/US2016/032580)
[87] (WO2016/183538)
[30] US (62/161,665) 2015-05-14

[11] **2,984,455**
[13] C
[51] **Int.Cl. G06F 21/00 (2013.01) G06F 21/30 (2013.01) G06F 21/32 (2013.01)**
[25] EN
[54] **AUGMENTED REALITY SYSTEMS AND METHODS FOR TRACKING BIOMETRIC DATA**
[54] **SYSTEMES ET PROCEDES DE REALITE AUGMENTEE DESTINES A SUIVRE DES DONNEES BIOMETRIQUES**
[72] BRADSKI, GARY R., US
[73] MAGIC LEAP, INC., US
[85] 2017-10-30
[86] 2016-05-14 (PCT/US2016/032583)
[87] (WO2016/183541)
[30] US (62/161,588) 2015-05-14

[11] **2,987,549**
[13] C
[51] **Int.Cl. F26B 1/00 (2006.01) B01D 21/26 (2006.01) C10L 9/08 (2006.01) F23G 5/04 (2006.01) F26B 3/10 (2006.01) F26B 3/36 (2006.01) F26B 5/08 (2006.01) F26B 7/00 (2006.01)**
[25] FR
[54] **METHOD AND FACILITY FOR PREPARING BIOMASS**
[54] **PROCEDE ET INSTALLATION DE PREPARATION DE BIOMASSE**
[72] VIESLET, JEAN-PAUL, BE
[73] BIOCARBON INDUSTRIES SARL, LU
[85] 2017-11-28
[86] 2016-06-10 (PCT/EP2016/063375)
[87] (WO2016/198653)
[30] LU (92738) 2015-06-11

[11] **2,987,721**
[13] C
[51] **Int.Cl. G01V 1/40 (2006.01) G01V 1/46 (2006.01) G01V 1/50 (2006.01) G01V 8/10 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS EMPLOYING A FLOW PREDICTION MODEL THAT IS A FUNCTION OF PERFORATION CLUSTER GEOMETRY, FLUID CHARACTERISTICS, AND ACOUSTIC ACTIVITY**
[54] **PROCEDES ET SYSTEMES UTILISANT UN MODELE DE PREDICTION DE DEBIT QUI EST FONCTION DE LA GEOMETRIE EN GRAPPES DES PERFORATIONS, DES CARACTERISTIQUES DE FLUIDE, ET DE L'ACTIVITE ACOU STIQUE**
[72] STOKELY, CHRISTOPHER LEE, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-11-29
[86] 2015-08-31 (PCT/US2015/047707)
[87] (WO2017/039605)

[11] **2,988,495**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 31/565 (2006.01)**
[25] EN
[54] **ORODISPERSIBLE DOSAGE UNIT CONTAINING AN ESTETROL COMPONENT**
[54] **UNITE GALENIQUE ORODISPERSIBLE CONTENANT UN COMPOSANT ESTETROL**
[72] JASPART, SEVERINE FRANCINE ISABELLE, BE
[72] PLATTEEUW, JOHANNES JAN, NL
[72] VAN DEN HEUVEL, DENNY JOHAN MARIJN, NL
[73] ESTETRA SRL, BE
[85] 2017-12-06
[86] 2016-06-17 (PCT/EP2016/064065)
[87] (WO2016/203006)
[30] EP (15172767.4) 2015-06-18

[11] **2,988,498**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 31/565 (2006.01)**
[25] EN
[54] **ORODISPERSIBLE DOSAGE UNIT CONTAINING AN ESTETROL COMPONENT**
[54] **UNITE POSOLOGIQUE ORODISPERSIBLE CONTENANT UN COMPOSANT ESTETROL**
[72] JASPART, SEVERINE FRANCINE ISABELLE, BE
[72] PLATTEEUW, JOHANNES JAN, NL
[72] VAN DEN HEUVEL, DENNY JOHAN MARIJN, NL
[73] ESTETRA SRL, BE
[85] 2017-12-06
[86] 2016-06-17 (PCT/EP2016/064074)
[87] (WO2016/203011)
[30] EP (15172747.6) 2015-06-18

[11] **2,988,683**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 30/40 (2018.01) A61B 5/103 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR INSPECTING SKIN LESIONS**
[54] **APPAREIL ET METHODE D'INSPECTION DES LESIONS CUTANEES**
[72] TEICHER, MORDECHAI, IL
[72] GILAD-GILOR, DAVID, IL
[72] BYCHKOV, EYAL, IL
[73] TYTO CARE LTD., IL
[85] 2017-12-07
[86] 2016-06-07 (PCT/IL2016/050591)
[87] (WO2016/199134)
[30] US (62/173,476) 2015-06-10

[11] **2,991,072**
[13] C
[51] **Int.Cl. B62D 55/24 (2006.01) B62D 55/08 (2006.01) G01M 17/03 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MONITORING A TRACK SYSTEM FOR TRACTION OF A VEHICLE**
[54] **SYSTEMES ET PROCEDES POUR SURVEILLER UN SYSTEME DE CHENILLES POUR LA TRACTION D'UN VEHICULE**
[72] RICHARD, SIMON, CA
[72] BERGERON, MATTHIEU, CA
[72] LAPERLE, GHISLAIN, CA
[72] BOILY, PATRICE, CA
[73] CAMSO INC., CA
[85] 2017-12-29
[86] 2016-06-28 (PCT/CA2016/050760)
[87] (WO2017/000068)
[30] US (62/185,995) 2015-06-29

[11] **2,995,072**
[13] C
[51] **Int.Cl. B29C 70/30 (2006.01)**
[25] EN
[54] **COMPOSITE PART AND METHOD FOR MAKING COMPOSITE PART**
[54] **PIECE COMPOSITE ET PROCEDE DE FABRICATION DE PIECE COMPOSITE**
[72] SUNDQUIST, DAVID J., US
[72] LONGINETTE, JOHN P., US
[73] THE BOEING COMPANY, US
[86] (2995072)
[87] (2995072)
[22] 2018-02-13
[30] US (15/478611) 2017-04-04

[11] **2,995,368**
[13] C
[51] **Int.Cl. B32B 3/30 (2006.01) C01B 33/12 (2006.01)**
[25] EN
[54] **METHODS AND COATINGS FOR ADVANCED AUDIO RECORDING AND PLAYBACK**
[54] **PROCEDES ET REVETEMENTS POUR L'ENREGISTREMENT ET LA REPRODUCTION AUDIO AVANCES**
[72] BURNETT, JOSEPH HENRY, US
[72] MOFFITT, BARAK, US
[72] READY, WILLIAM JUD, US
[72] WAGNER, BRENT KARL, US
[73] GEORGIA TECH RESEARCH CORPORATION, US
[73] IONIC RECORDING COMPANY, LLC, US
[85] 2018-02-09
[86] 2016-08-12 (PCT/US2016/046869)
[87] (WO2017/027832)
[30] US (62/203,995) 2015-08-12
[30] US (62/204,044) 2015-08-12
[30] US (62/210,712) 2015-08-27
[30] US (62/210,675) 2015-08-27

[11] **2,995,370**
[13] C
[51] **Int.Cl. G01S 7/38 (2006.01) G01S 7/02 (2006.01) G01S 7/282 (2006.01) G01S 13/26 (2006.01) H04K 3/00 (2006.01)**
[25] EN
[54] **PROGRAMMABLE APPARATUS FOR SYNTHESIZED FILTER NOTCH**
[54] **APPAREIL PROGRAMMABLE POUR ENCOCHE DE FILTRE DE SYNTHESE**
[72] MCLEAN, CHRIS S., US
[72] MARR, HARRY B., JR., US
[72] HSU, RAY T., US
[73] RAYTHEON COMPANY, US
[85] 2018-02-09
[86] 2016-08-10 (PCT/US2016/046284)
[87] (WO2017/027556)
[30] US (14/823,462) 2015-08-11

[11] **2,996,686**
[13] C
[51] **Int.Cl. H02K 5/22 (2006.01)**
[25] EN
[54] **SUBMERSIBLE PUMP MOTOR HOUSING FOR IMPROVING THE SERVICEABILITY OF SUBMERSIBLE PUMPS**
[54] **LOGEMENT DE MOTEUR DE POMPE SUBMERSIBLE POUR L'AMELIORATION DE LA RESISTANCE A L'USURE DE POMPES SUBMERSIBLES**
[72] RUZICA, PAUL J., US
[73] FLUID HANDLING LLC, US
[85] 2018-02-26
[86] 2016-09-06 (PCT/US2016/050422)
[87] (WO2017/041104)
[30] US (62/213,736) 2015-09-03

---

[11] **2,998,888**
[13] C
[51] **Int.Cl. F25C 1/22 (2018.01)**
[25] EN
[54] **MODULAR MOLD FOR MAKING HOLLOW ICE BRICK**
[54] **MOULE MODULAIRE POUR LA FABRICATION DE BRIQUE DE CREME GLACEE CREUSE**
[72] ZHEN, SHIHUA, CA
[73] ZHEN, SHIHUA, CA
[85] 2018-03-16
[86] 2015-10-10 (PCT/CN2015/091593)
[87] (WO2017/045231)
[30] CN (201520728889.5) 2015-09-18

---

[11] **3,000,050**
[13] C
[51] **Int.Cl. G06T 7/33 (2017.01) G06T 11/00 (2006.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED COMPOSITE TISSUE IMAGE WITH REAL-TIME ADJUSTABLE INTERFACE**
[54] **IMAGE DE TISSU COMPOSITE MISE EN □UVRE PAR ORDINATEUR AVEC UNE INTERFACE REGLABLE EN TEMPS REEL**
[72] BREDNO, JOERG, US
[72] CHUKKA, SRINIVAS, US
[73] VENTANA MEDICAL SYSTEMS, INC., US
[85] 2018-03-27
[86] 2016-11-02 (PCT/EP2016/076351)
[87] (WO2017/076865)
[30] US (62/250,413) 2015-11-03

---

[11] **3,001,520**
[13] C
[51] **Int.Cl. H01M 10/6567 (2014.01) H01M 10/613 (2014.01) H01M 10/625 (2014.01) H01M 10/643 (2014.01) H01M 50/213 (2021.01) H01M 50/249 (2021.01)**
[25] EN
[54] **TEMPERATURE-CONTROL DEVICE FOR A BATTERY SYSTEM**
[54] **DISPOSITIF DE REGULATION DE TEMPERATURE POUR SYSTEME DE BATTERIE**
[72] KREISEL, PHILLIP, AT
[72] KREISEL JUN., JOHANN, AT
[72] KREISEL, MARKUS, AT
[73] RAIFFEISENLANDESBANK OBEROSTERREICH AKTIENGESELLSCHAFT, AT
[85] 2018-04-10
[86] 2016-10-18 (PCT/EP2016/074969)
[87] (WO2017/067923)
[30] DE (10 2015 013 377.2) 2015-10-18

---

[11] **3,014,289**
[13] C
[51] **Int.Cl. A01K 61/00 (2017.01) A01K 63/04 (2006.01)**
[25] EN
[54] **BUOYANCY SYSTEM FOR A FISH PEN**
[54] **SYSTEME DE FLOTTABILITE POUR COMPARTIMENT A POISSONS**
[72] NÆSS, ANDERS, NO
[72] JOHNSEN, TROND OTTO, NO
[73] AKVAFUTURE AS, NO
[85] 2018-08-10
[86] 2017-03-01 (PCT/NO2017/050056)
[87] (WO2017/150986)
[30] NO (20160358) 2016-03-02

---

[11] **3,014,712**
[13] C
[51] **Int.Cl. A63G 7/00 (2006.01)**
[25] EN
[54] **ROLLER COASTER VEHICLE**
[54] **VEHICULE DE MONTAGNES RUSSES**
[72] WALSER, WILLY, CH
[72] ROTHE, ROMAN, CH
[73] WALSER, WILLY, CH
[73] ROTHE, ROMAN, CH
[85] 2018-08-15
[86] 2017-03-06 (PCT/EP2017/055227)
[87] (WO2017/153358)
[30] EP (16159842.0) 2016-03-11

---

[11] **3,015,312**
[13] C
[51] **Int.Cl. C40B 20/04 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6816 (2018.01) C12Q 1/6853 (2018.01) C40B 30/04 (2006.01) C40B 40/06 (2006.01) C40B 70/00 (2006.01)**
[25] EN
[54] **METHODS OF CREATING AND SCREENING DNA-ENCODED LIBRARIES**
[54] **METHODES DE CREATION ET DE CRIBLAGE DE BIBLIOTHEQUES DE CODAGE ADN**
[72] WAGNER, RICHARD W., US
[73] X-CHEM, INC., US
[86] (3015312)
[87] (3015312)
[22] 2010-02-16
[62] 2,752,543
[30] US (61/152,508) 2009-02-13

---

[11] **3,017,458**
[13] C
[51] **Int.Cl. C12N 1/19 (2006.01) C07K 14/425 (2006.01) C07K 14/78 (2006.01) C12N 15/12 (2006.01) C12N 15/31 (2006.01) C12N 15/53 (2006.01) C12N 15/81 (2006.01) C12P 1/02 (2006.01) C12P 21/00 (2006.01) D06N 3/00 (2006.01)**
[25] EN
[54] **RECOMBINANT YEAST STRAINS**
[54] **SOUCHES DE LEVURE RECOMBINANTES**
[72] DAI, LIXIN, US
[72] RUEBLING-JASS, KRISTEN, US
[72] WILLIAMSON, DAVID THOMAS, US
[73] MODERN MEADOW, INC., US
[86] (3017458)
[87] (3017458)
[22] 2018-09-14
[30] US (62/562,109) 2017-09-22

[11] **3,017,659**
[13] C
[51] **Int.Cl. G07C 13/00 (2006.01)**
[25] EN
[54] **BALLOT ADJUDICATION SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE D'ADJUDICATION DE VOTE**
[72] DVORAK, MICHAEL, US
[73] ELECTION SYSTEMS & SOFTWARE, LLC, US
[86] (3017659)
[87] (3017659)
[22] 2018-09-18
[30] US (15/709095) 2017-09-19

---

[11] **3,037,312**
[13] C
[51] **Int.Cl. B65D 50/04 (2006.01) A61J 1/03 (2006.01)**
[25] EN
[54] **CHILD RESISTANT STORAGE CONTAINER**
[54] **CONTENANT PROTEGE-ENFANT**
[72] SANG, GEORGE, US
[72] ESTEY, BRIAN, US
[73] COMPLIANT PACKAGING LLC, US
[86] (3037312)
[87] (3037312)
[22] 2019-03-20

---

[11] **3,040,150**
[13] C
[51] **Int.Cl. A61B 17/56 (2006.01) A61F 2/30 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **COORDINATED SIZER-PUNCH TOOL FOR ARTICULAR CARTILAGE REPAIR**
[54] **OUTIL DE DIMENSIONNEUR-POINCONNAGE COORDONNE DESTINE A LA REPARATION DE CARTILAGE ARTICULAIRE**
[72] WILLIAMS, RILEY, US
[73] WILLIAMS, RILEY, US
[85] 2019-04-10
[86] 2017-10-16 (PCT/US2017/056721)
[87] (WO2018/071888)
[30] US (62/408,092) 2016-10-14

---

[11] **3,043,170**
[13] C
[51] **Int.Cl. G01N 37/00 (2006.01) A01B 49/04 (2006.01) A01B 76/00 (2006.01) A01C 7/08 (2006.01) A01C 7/10 (2006.01) A01C 7/20 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) G01N 1/04 (2006.01) G01N 1/08 (2006.01) G01N 1/38 (2006.01) G01N 21/78 (2006.01)**
[25] EN
[54] **AGRICULTURAL IMPLEMENTS FOR SOIL AND VEGETATION ANALYSIS**
[54] **INSTRUMENTS AGRICOLES POUR ANALYSE DE SOL ET DE VEGETATION**
[72] KOCH, DALE, US
[72] SWANSON, TODD, US
[72] LEVY, KENT, US
[72] VACCARI, ADAM, US
[72] STOLLER, JASON, US
[73] THE CLIMATE CORPORATION, US
[85] 2019-05-07
[86] 2017-11-07 (PCT/US2017/060460)
[87] (WO2018/085858)
[30] US (62/418,650) 2016-11-07

---

[11] **3,056,463**
[13] C
[51] **Int.Cl. F04B 53/02 (2006.01) F16J 15/3204 (2016.01)**
[25] EN
[54] **SEAL ASSEMBLY FOR RECIPROCATING COMPRESSOR**
[54] **ENSEMBLE D`ETANCHEITE POUR UN COMPRESSEUR ALTERNATIF**
[72] CHALK, DAVID JONATHAN, US
[73] AIR PRODUCTS AND CHEMICALS, INC., US
[86] (3056463)
[87] (3056463)
[22] 2019-09-23
[30] US (16/145,437) 2018-09-28

---

[11] **3,057,639**
[13] C
[51] **Int.Cl. F16J 15/22 (2006.01) D04C 1/06 (2006.01) D04C 1/12 (2006.01) D04C 3/04 (2006.01) D04C 3/12 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR PRODUCING A BRAIDED DUAL-SIDED COMPRESSION PACKING SEAL AND METHODS OF USING THE SAME**
[54] **PROCEDES ET APPAREILS POUR PRODUIRE UN JOINT D'ETANCHEITE DE GARNITURE DE COMPRESSION DOUBLE FACE TRESSE ET LEURS PROCEDES D'UTILISATION**
[72] AZIBERT, HENRI V., US
[72] STARBILE, PAUL VINCENT, US
[72] MAHONEY, PHILIP MICHAEL, JR., US
[73] A.W. CHESTERTON COMPANY, US
[86] (3057639)
[87] (3057639)
[22] 2012-09-26
[62] 2,849,462
[30] US (61/539,173) 2011-09-26

---

[11] **3,057,640**
[13] C
[51] **Int.Cl. F16J 15/22 (2006.01) D04C 1/06 (2006.01) D04C 3/00 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR PRODUCING A BRAIDED DUAL-SIDED COMPRESSION PACKING SEAL AND METHODS OF USING THE SAME**
[54] **PROCEDES ET APPAREILS POUR PRODUIRE UN JOINT D'ETANCHEITE DE GARNITURE DE COMPRESSION DOUBLE FACE TRESSE ET LEURS PROCEDES D'UTILISATION**
[72] AZIBERT, HENRI V., US
[72] STARBILE, PAUL VINCENT, US
[72] MAHONEY, PHILIP MICHAEL, JR., US
[73] A.W. CHESTERTON COMPANY, US
[86] (3057640)
[87] (3057640)
[22] 2012-09-26
[62] 2,849,462
[30] US (61/539,173) 2011-09-26

[11] **3,057,786**
[13] C
[51] **Int.Cl. A61M 1/00 (2006.01) A61F 9/007 (2006.01) A61M 3/02 (2006.01)**
[25] EN
[54] **SELECTIVELY MOVEABLE VALVE ELEMENTS FOR ASPIRATION AND IRRIGATION CIRCUITS**
[54] **ELEMENTS DE SOUPAPE A DEPLACEMENT SELECTIF DESTINES A DES CIRCUITS D'ASPIRATION ET D'IRRIGATION**
[72] OLIVEIRA, MEL MATTHEW, US
[72] SORENSEN, GARY P., US
[72] MORGAN, MICHAEL D., US
[73] ALCON INC., CH
[86] (3057786)
[87] (3057786)
[22] 2012-11-27
[62] 2,855,744
[30] US (61/568,220) 2011-12-08

[11] **3,059,043**
[13] C
[51] **Int.Cl. E03C 1/122 (2006.01)**
[25] EN
[54] **CARTRIDGE FOR AIR ADMITTANCE VALVE**
[54] **CARTOUCHE POUR SOUPAPE D'ADMISSION D'AIR**
[72] COLE, STEVEN R., US
[73] IPS CORPORATION, US
[86] (3059043)
[87] (3059043)
[22] 2015-04-27
[62] 2,947,123
[30] US (14/263326) 2014-04-28

[11] **3,063,336**
[13] C
[51] **Int.Cl. C23C 28/00 (2006.01) B32B 15/00 (2006.01) C22C 38/00 (2006.01) C23C 14/02 (2006.01) C23C 14/16 (2006.01) C23C 14/35 (2006.01) C25D 5/36 (2006.01)**
[25] EN
[54] **A COATED METALLIC SUBSTRATE AND FABRICATION METHOD**
[54] **SUBSTRAT METALLIQUE REVETU ET PROCEDE DE FABRICATION**
[72] GONIAKOWSKI, JACEK, FR
[72] LE, THI HA LINH, FR
[72] NOGUERA, CLAUDINE, FR
[72] JUPILLE, JACQUES, FR
[72] LAZZARI, REMI, FR
[72] MATAIGNE, JEAN-MICHEL, FR
[72] KOLTSOV, ALEXEY, FR
[72] CAVALLOTTI, REMI, FR
[72] CHALEIX, DANIEL, FR
[72] GAOUYAT, LUCIE, BE
[73] ARCELORMITTAL, LU
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] SORBONNE UNIVERSITE, FR
[85] 2019-11-12
[86] 2018-05-31 (PCT/IB2018/053872)
[87] (WO2018/220567)
[30] IB (PCT/IB2017/000668) 2017-05-31

[11] **3,063,495**
[13] C
[51] **Int.Cl. A61N 2/04 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **BLOOD MAGNETIC STIMULATION DEVICE**
[54] **DISPOSITIF DE STIMULATION MAGNETIQUE DU SANG**
[72] FU, KUN-MEI, TW
[72] HO, CON-WAY, US
[73] VENITAS RESEARCH CENTER INC., SC
[86] (3063495)
[87] (3063495)
[22] 2018-01-24
[62] 2,992,878

[11] **3,065,292**
[13] C
[51] **Int.Cl. A61K 47/02 (2006.01) A23L 29/00 (2016.01) A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/14 (2006.01) A61K 33/00 (2006.01)**
[25] EN
[54] **AN OXYGEN-ENABLED COMPOSITION**
[54] **COMPOSITION ACTIVEE PAR OXYGENE**
[72] WOODMANSEE, JOHN W., JR., US
[72] WOODMANSEE, ROBERT W., US
[72] BRUCE, ERICA D., US
[73] BAYLOR UNIVERSITY, US
[85] 2019-11-27
[86] 2018-04-20 (PCT/US2018/028530)
[87] (WO2018/195396)
[30] US (15/493,688) 2017-04-21
[30] US (15/648,312) 2017-07-12

[11] **3,068,208**
[13] C
[51] **Int.Cl. A61M 60/422 (2021.01) A61M 60/148 (2021.01) A61M 60/205 (2021.01)**
[25] FR
[54] **CARDIAC PUMP WITH MAGNETIC COUPLING AND INVERSE FLOW**
[54] **POMPE CARDIAQUE A COUPLAGE MAGNETIQUE ET A FLUX INVERSE**
[72] HADDADI, MOHAMMAD, FR
[72] GARRIGUE, STEPHANE, FR
[72] HADDADI, MARYAM, FR
[72] BREDENBREUKER, LARS, FR
[72] MASCARELL, ARNAUD, FR
[73] FINEHEART, FR
[86] (3068208)
[87] (3068208)
[22] 2020-01-16
[30] FR (1903836) 2019-04-10

[11] **3,069,632**
[13] C
[51] **Int.Cl. B07B 15/00 (2006.01) B02C 21/00 (2006.01)**
[25] EN
[54] **IRON FINE REMOVAL AND SORTING SYSTEM FOR MAGNETIC HARD ROCKS**
[54] **SYSTEME D'ELIMINATION ET DE TRI FIN DE FER POUR ROCHES DURES MAGNETIQUES**
[72] ZHANG, CHENGCHEN, CN
[72] LI, HENGSHENG, CN
[72] ZHAO, WEI, CN
[72] CAO, YE, CN
[72] LIU, BO, CN
[72] LIN, JUNHAI, CN
[73] LONGI MAGNET CO., LTD., CN
[85] 2020-01-09
[86] 2017-08-03 (PCT/CN2017/095855)
[87] (WO2019/010738)
[30] CN (201710572271.8) 2017-07-13

[11] **3,069,796**
[13] C
[51] **Int.Cl. C12N 1/12 (2006.01) C12N 1/00 (2006.01)**
[25] EN
[54] **NOVEL CROP FORTIFICATION, NUTRITION AND CROP PROTECTION COMPOSITION**
[54] **NOUVELLE FORTIFICATION, NUTRITION DES CULTURES ET COMPOSITION DE PROTECTION DES CULTURES**
[72] SAWANT, ARUN VITTHAL, IN
[73] SAWANT, ARUN VITTHAL, IN
[85] 2020-01-13
[86] 2018-07-14 (PCT/IB2018/055225)
[87] (WO2019/016661)
[30] IN (201721025178) 2017-07-15

[11] **3,072,945**
[13] C
[51] **Int.Cl. F16C 21/00 (2006.01) B64C 25/36 (2006.01) F16C 33/46 (2006.01)**
[25] EN
[54] **BEARING ARRANGEMENT**
[54] **DISPOSITION D`UN COUSSINET**
[72] BENNETT, IAN ROBERT, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (3072945)
[87] (3072945)
[22] 2020-02-18
[30] EP (19158646.0) 2019-02-21

[11] **3,073,768**
[13] C
[51] **Int.Cl. B60R 11/06 (2006.01) A45C 13/02 (2006.01) B25H 3/02 (2006.01)**
[25] EN
[54] **A CRASH-READY, PORTABLE, COMPARTMENTALIZATION DEVICE**
[54] **DISPOSITIF DE CLOISONNEMENT PORTABLE PREPARE POUR UNE COLLISION**
[72] SCHROEDER, TIMOTHY PAUL, US
[72] WEST, JAMES C., US
[73] FERNO-WASHINGTON, INC., US
[86] (3073768)
[87] (3073768)
[22] 2014-08-08
[62] 2,954,612
[30] US (62/026,520) 2014-07-18

[11] **3,075,796**
[13] C
[51] **Int.Cl. G01N 37/00 (2006.01)**
[25] EN
[54] **AUTONOMOUS REMAINING USEFUL LIFE ESTIMATION**
[54] **ESTIMATION DE LA DUREE DE VIE UTILE D'AUTONOMIE**
[72] PAPADIMITRIOU, WANDA G., US
[72] PAPADIMITRIOU, STYLIANOS, US
[73] PAPADIMITRIOU, WANDA G., US
[73] PAPADIMITRIOU, STYLIANOS, US
[86] (3075796)
[87] (3075796)
[22] 2008-05-22
[62] 2,910,771
[30] US (11/772,357) 2007-07-02

[11] **3,077,902**
[13] C
[51] **Int.Cl. A01B 73/02 (2006.01) A01B 63/00 (2006.01) A01B 76/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL TRENCH DEPTH SENSING SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE DETECTION DE PROFONDEUR DE TRANCHEE AGRICOLE**
[72] SAUDER, DEREK(DECEASED), US
[72] STOLLER, JASON, US
[72] RADTKE, IAN, US
[72] LEVY, KENT, US
[73] PRECISION PLANTING LLC, US
[86] (3077902)
[87] (3077902)
[22] 2013-10-24
[62] 2,888,970
[30] US (61/718,073) 2012-10-24

[11] **3,078,075**
[13] C
[51] **Int.Cl. G06N 3/02 (2006.01) G06N 3/04 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ARTIFICIAL COGNITION**
[54] **METHODES ET SYSTEMES DE CONNAISSANCES ARTIFICIELLES**
[72] ELIASMITH, CHRISTOPHER DAVID, CA
[72] STEWART, TERRENCE CHARLES, CA
[72] CHOO, FENG-XUAN, CA
[72] BEKOLAY, TREVOR WILLIAM, CA
[72] CRNCICH-DEWOLF, TRAVIS, CA
[72] TANG, YICHUAN, CA
[72] RASMUSSEN, DANIEL HALDEN, CA
[73] APPLIED BRAIN RESEARCH INC., CA
[86] (3078075)
[87] (3078075)
[22] 2012-12-05
[62] 2,798,529

[11] **3,085,554**
[13] C
[51] **Int.Cl. G01N 13/00 (2006.01) G01N 24/08 (2006.01)**
[25] EN
[54] **MEASURING THE WETTABILITY OF POROUS MEDIA BASED ON THE TEMPERATURE SENSITIVITY OF NUCLEAR MAGNETIC RESONANCE RELAXATION TIME**
[54] **MESURE DE LA MOUILLABILITE D'UN MILIEU POREUX SUR LA BASE DE LA SENSIBILITE A LA TEMPERATURE DU TEMPS DE RELAXATION DE RESONANCE MAGNETIQUE NUCLEAIRE**
[72] KWAK, HYUNG TAE, SA
[72] AL-HARBI, AHMAD MUBARAK, SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-06-11
[86] 2018-11-28 (PCT/US2018/062723)
[87] (WO2019/118172)
[30] US (15/837,404) 2017-12-11

[11] **3,086,024**
[13] C
[51] **Int.Cl. A23L 33/135 (2016.01) A61K 35/747 (2015.01) A23K 10/16 (2016.01) A23K 20/163 (2016.01) A23L 33/125 (2016.01) A61K 31/715 (2006.01) A61K 36/60 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01)**
[25] EN
[54] **COMPOSITION FOR SUPPRESSING FAT ACCUMULATION**
[54] **COMPOSITION POUR L'INHIBITION DE L'ACTIVITE DE L'ACCUMULATION DE GRAISSE**
[72] SUGIYAMA, MASANORI, JP
[73] SONE FARM CO., LTD., JP
[85] 2020-06-16
[86] 2019-04-04 (PCT/JP2019/014997)
[87] (WO2019/208150)
[30] JP (2018-084048) 2018-04-25

[11] **3,086,600**
[13] C
[51] **Int.Cl. H02K 11/215 (2016.01) G01B 7/00 (2006.01) G01B 7/004 (2006.01) G01D 5/14 (2006.01) G01D 5/245 (2006.01) H02K 41/03 (2006.01)**
[25] EN
[54] **PLANAR-DRIVE SYSTEM, STATOR MODULE AND SENSOR MODULE**
[54] **SYSTEME D'ENTRAINEMENT PLANAIRE, MODULE DE STATOR ET MODULE DE CAPTEURS**
[72] BENTFELD, LUKAS, DE
[72] PRUESSMEIER, UWE, DE
[72] BRINKMANN, ROLF, DE
[73] BECKHOFF AUTOMATION GMBH, DE
[85] 2020-06-22
[86] 2018-12-19 (PCT/EP2018/085772)
[87] (WO2019/129561)
[30] DE (10 2017 131 320.6) 2017-12-27

[11] **3,091,186**
[13] C
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 31/05 (2006.01) A61K 31/196 (2006.01) A61K 31/352 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/18 (2017.01) A61K 47/32 (2006.01) A61K 47/44 (2017.01) A61K 47/46 (2006.01)**
[25] EN
[54] **NANO-EMULSION BASED COMPOSITIONS, METHODS FOR THEIR PREPARATION AND THEIR USE IN DELIVERY OF ACTIVE INGREDIENTS**
[54] **COMPOSITIONS A BASE DE NANOEMULSIONS, PROCEDES DE LEUR PREPARATION ET LEUR UTILISATION DANS LA LIVRAISON D`INGREDIENTS ACTIFS**
[72] RAHMANI NEISHABOOR, ELHAM, CA
[73] CANADIAN NANO PHARMACEUTICAL TECHNOLOGY INC., CA
[86] (3091186)
[87] (3091186)
[22] 2020-08-26

[11] **3,094,629**
[13] C
[51] **Int.Cl. A01C 5/06 (2006.01)**
[25] EN
[54] **AGRICULTURAL TRENCH CLOSING SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, METHODES ET APPAREIL DE FIN DE RANGEE AGRICOLE**
[72] SAUDER, DEREK (DECEASED), US
[72] HODEL, JEREMY, US
[72] MUHLBAUER, CORY, US
[73] PRECISION PLANTING LLC, US
[86] (3094629)
[87] (3094629)
[22] 2013-10-24
[62] 2,889,032
[30] US (61/718,087) 2012-10-24
[30] US (61/815,540) 2013-04-24

[11] **3,095,262**
[13] C
[51] **Int.Cl. G01R 31/08 (2020.01) G01R 19/165 (2006.01) G01R 19/25 (2006.01) G01R 27/02 (2006.01) G01R 31/11 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR DETECTING HIGH-VOLTAGE POWER DISTRIBUTION LINE PATH HAVING IMPROVED STABILITY**
[54] **DISPOSITIF ET PROCEDE DE DETECTION D'UN TRAJET DE LIGNE DE DISTRIBUTION D'ELECTRICITE HAUTE TENSION AYANT UNE STABILITE AMELIOREE**
[72] LEE, HYUN CHANG, KR
[73] LEE, HYUN CHANG, KR
[85] 2020-09-25
[86] 2019-03-26 (PCT/KR2019/003507)
[87] (WO2019/190170)
[30] KR (10-2018-0034180) 2018-03-26
[30] KR (10-2018-0136898) 2018-11-08
[30] KR (10-2019-0034197) 2019-03-26

[11] **3,096,144**
[13] C
[51] **Int.Cl. B29C 45/26 (2006.01) B29C 45/17 (2006.01) B29C 49/06 (2006.01)**
[25] EN
[54] **INJECTION MOLDING MOLD, PREFORM MOLDING METHOD, AND METHOD FOR PRODUCING HOLLOW ARTICLE**
[54] **MOULE A INJECTION, METHODE DE MOULAGE DE PREFORME ET METHODE DE FABRICATION D`ARTICLE CREUX**
[72] TAKEUCHI, HIDEKI, JP
[73] AOKI TECHNICAL LABORATORY, INC., JP
[86] (3096144)
[87] (3096144)
[22] 2020-10-14
[30] JP (2020-105330) 2020-06-18

[11] **3,098,392**
[13] C
[51] **Int.Cl. F16L 55/48 (2006.01)**
[25] EN
[54] **PIPELINE PIG SIGNAL TRIGGER CAVITY SEAL**
[54] **JOINT D'ETANCHEITE POUR CAVITE DE DECLENCHEMENT DE SIGNAL DE RACLEUR DE PIPELINE**
[72] KLEMM, NATHAN, US
[72] LOGAN, MATT, US
[72] VAUGHN, MICHAEL, US
[73] TDW DELAWARE, INC., US
[86] (3098392)
[87] (3098392)
[22] 2013-10-23
[62] 2,831,055
[30] US (13/669,989) 2012-11-06

[11] **3,104,621**
[13] C
[51] **Int.Cl. A61K 35/10 (2015.01) A61K 8/96 (2006.01) A61P 17/00 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **IMPROVEMENT OF BLOOD MICROPERFUSION TO SKIN BY SHILAJIT**
[54] **AMELIORATION DE LA MICROPERFUSION SANGUINE A TRAVERS LA PEAU PAR SHILAJIT**
[72] SEN, CHANDAN K., US
[72] KALIDINDI, SANYASI R., US
[73] NATREON, INC., US
[85] 2020-12-21
[86] 2018-06-26 (PCT/US2018/039593)
[87] (WO2020/005215)

[11] **3,105,904**
[13] C
[51] **Int.Cl. B29C 65/20 (2006.01) B29C 65/22 (2006.01) B29C 65/32 (2006.01) B29C 65/08 (2006.01) B29C 65/10 (2006.01) B29C 65/14 (2006.01) B29C 65/72 (2006.01) B29C 70/30 (2006.01)**
[25] FR
[54] **METHOD FOR WELDING PARTS MADE OF THERMOPLASTIC MATERIAL**
[54] **PROCEDE DE SOUDAGE DE PIECES A BASE DE MATERIAU THERMOPLASTIQUE**
[72] GLOTIN, MICHEL, FR
[72] CAUCHOIS, JEAN-PIERRE, FR
[72] PHILIPPE, AURELIEN, FR
[72] KLEIN, PHILIPPE, FR
[73] ARKEMA FRANCE, FR
[73] INSTITUT DE SOUDURE, FR
[85] 2021-01-07
[86] 2019-07-16 (PCT/FR2019/051775)
[87] (WO2020/016514)
[30] FR (1856537) 2018-07-16
[30] FR (1905222) 2019-05-17
[30] FR (1905223) 2019-05-17

[11] **3,107,177**
[13] C
[51] **Int.Cl. G01S 5/18 (2006.01)**
[25] EN
[54] **COMPUTERIZED ESTIMATION OF MINIMUM NUMBER OF SONIC SOURCES USING ANTICHAIN LENGTH**
[54] **ESTIMATION INFORMATISEE D'UN NOMBRE MINIMAL DE SOURCES SONIQUES AU MOYEN D'UNE LONGUEUR D'ANTICHAINE**
[72] SPIESBERGER, JOHN LOUIS, US
[73] SCIENTIFIC INNOVATIONS, INC., US
[86] (3107177)
[87] (3107177)
[22] 2021-01-25
[30] US (63/033,711) 2020-06-02
[30] US (16/941,283) 2020-07-28

[11] **3,109,770**
[13] C
[51] **Int.Cl. C12P 21/06 (2006.01) C02F 1/44 (2006.01) C07K 1/14 (2006.01) C07K 1/34 (2006.01) C07K 14/415 (2006.01) C02F 1/52 (2006.01)**
[25] EN
[54] **METHOD FOR EXTRACTING ANTIBACTERIAL PEPTIDES AND ALBUMIN FROM PEA WHEY WASTEWATER**
[54] **METHODE D'EXTRACTION DE PEPTIDES ANTIBACTERIENS ET D'ALBUMINE DES EAUX USEES DE LACTOSERUM DE POIS**
[72] ZHANG, SHUCHENG, CN
[72] YANG, JINJIE, CN
[72] ZANG, QINGJIA, CN
[72] WU, SHIMIN, CN
[72] YANG, GUODONG, CN
[73] YANTAI SHUANGTA FOOD CO., LTD., CN
[86] (3109770)
[87] (3109770)
[22] 2021-02-22
[30] CN (202010154908.3) 2020-03-09

[11] **3,111,885**
[13] C
[51] **Int.Cl. H02B 13/025 (2006.01)**
[25] EN
[54] **PRESSURE RELIEF SYSTEM AND A CONTAINER, BUILDING, ENCLOSURE OR CUBICLE INCLUDING A PRESSURE RELIEF SYSTEM**
[54] **SYSTEME DE DECOMPRESSION ET RECIPIENT, BATIMENT, ENCEINTE OU CABINE COMPRENANT UN SYSTEME DE DECOMPRESSION**
[72] PERS, CHRISTER, SE
[72] STADLER, RAETO, CH
[73] ABB SCHWEIZ AG, CH
[85] 2021-03-05
[86] 2019-09-05 (PCT/EP2019/073735)
[87] (WO2020/049114)
[30] EP (18192873.0) 2018-09-06

---

[11] **3,113,582**
[13] C
[51] **Int.Cl. G09B 9/00 (2006.01) G09B 9/32 (2006.01) G09B 9/46 (2006.01)**
[25] EN
[54] **ADJUSTED-PROJECTION PANEL FOR ADDRESSING VERGENCE-CONFLICT ACCOMMODATION IN A DOME-TYPE SIMULATOR**
[54] **PANNEAU DE PROTECTION AJUSTEE POUR RESOUDRE LE CONFIT DE VERGENCE-ACCOMMODATION DANS UN SIMULATEUR EN DOME**
[72] MOISAN, SYLVAIN, CA
[72] GAGNON, MATHIEU, CA
[72] DION, JEAN-SEBASTIEN, CA
[73] CAE INC., CA
[86] (3113582)
[87] (3113582)
[22] 2021-03-30

---

[11] **3,114,957**
[13] C
[51] **Int.Cl. C12N 7/01 (2006.01) A61K 35/76 (2015.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/18 (2006.01) C12N 7/04 (2006.01) C12N 15/40 (2006.01) C12Q 1/68 (2018.01) C12Q 1/70 (2006.01) C07K 16/10 (2006.01)**
[25] EN
[54] **DEVELOPMENT OF MUTATIONS USEFUL FOR ATTENUATING DENGUE VIRUSES AND CHIMERIC DENGUE VIRUSES**
[54] **MISE AU POINT DE MUTATIONS UTILES POUR L'ATTENUATION DES VIRUS DE LA DENGUE ET DES VIRUS DE LA DENGUE CHIMERIQUES**
[72] WHITEHEAD, STEPHEN S., US
[72] MURPHY, BRIAN R., US
[72] HANLEY, KATHRYN A., US
[72] BLANEY, JOSEPH E., US
[72] LAI, CHING-JUH, US
[73] THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[86] (3114957)
[87] (3114957)
[22] 2002-05-22
[62] 3,060,687
[30] US (60/293,049) 2001-05-22

---

[11] **3,115,058**
[13] C
[51] **Int.Cl. A45F 3/10 (2006.01) A45F 3/02 (2006.01)**
[25] EN
[54] **BACKPACK WITH POP UP FRAME**
[54] **SAC A DOS A CADRE ESCAMOTABLE**
[72] RICH, ALEXANDER J., US
[72] COOK, CAMERON J., US
[72] GLEASON, DANA W., III, US
[72] BOSWELL, LUKE, US
[73] MYSTERY RANCH, LTD., US
[85] 2021-03-31
[86] 2019-09-05 (PCT/US2019/049654)
[87] (WO2020/072168)
[30] US (16/151,661) 2018-10-04

---

[11] **3,118,774**
[13] C
[51] **Int.Cl. C07D 401/04 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF (S)-NICOTIN FROM MYOSMINE**
[54] **PROCEDE DE PREPARATION DE (S)-NICOTIN A PARTIR DE MYOSMINE**
[72] MCCAGUE, RAYMOND, GB
[72] NARASIMHAN, ASHOK SRINIVASAN, GB
[73] ZANOPRIMA LIFESCIENCES LIMITED, GB
[85] 2021-05-05
[86] 2019-03-12 (PCT/EP2019/056194)
[87] (WO2020/098978)
[30] EP (18206826.2) 2018-11-16

---

[11] **3,134,784**
[13] C
[51] **Int.Cl. B65G 47/52 (2006.01) B31B 50/92 (2017.01) B65G 47/22 (2006.01)**
[25] EN
[54] **REPOSITIONING STATION**
[54] **STATION DE REPOSITIONNEMENT**
[72] THERIAULT, DOMINIC, CA
[72] TREMBLAY, MATHIEU, CA
[72] BEAUSEJOUR, MICHEL, CA
[72] DESMARAIS, RAPHAEL, CA
[72] DE LA CALLE, JAVIER, CA
[72] LEBLANC, DAVID, CA
[72] LEMAY, JONATHAN, CA
[73] CONCEPTION IMPACK DTCI INC., CA
[85] 2021-09-23
[86] 2021-03-17 (PCT/CA2021/050357)
[87] (WO2021/184120)
[30] US (62/991,014) 2020-03-17

Canadian Applications Open to Public Inspection

January 23, 2022 to January 29, 2022

Demandes canadiennes mises à la disponibilité du public

23 janvier 2022 au 29 janvier 2022

---

[21] **3,087,748**
[13] A1
[51] **Int.Cl. G01J 5/58 (2022.01) B82Y 15/00 (2011.01) G01J 5/10 (2006.01) G01J 5/12 (2006.01) G01J 5/20 (2006.01) G01J 5/34 (2022.01)**
[25] EN
[54] **THERMAL RADIATION DETECTORS WITH CARBON-NANOTUBE-BASED OPTICAL ABSORBERS**
[54] **DETECTEURS DE RAYONNEMENT THERMIQUE AVEC ABSORBEURS OPTIQUES A BASE DE NANOTUBES DE CARBONE**
[72] OULACHGAR, HASSANE, CA
[72] GENEREUX, FRANCIS, CA
[72] PROVENCAL, FRANCIS, CA
[71] INSTITUT NATIONAL D'OPTIQUE, CA
[22] 2020-07-23
[41] 2022-01-23

---

[21] **3,087,755**
[13] A1
[51] **Int.Cl. A47J 45/10 (2006.01) A47J 37/07 (2006.01) B25J 1/04 (2006.01)**
[25] EN
[54] **LID HANDLING DEVICE**
[54] **APPAREIL DE MANIPULATION DE COUVERCLE**
[72] BOURGEOIS, SERGE, CA
[71] BOURGEOIS, SERGE, CA
[22] 2020-07-23
[41] 2022-01-23

---

[21] **3,087,914**
[13] A1
[51] **Int.Cl. G07C 9/27 (2020.01) G07C 9/22 (2020.01) E05B 47/00 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR CONTROLLING ACCESS TO A SECURE SPACE**
[54] **SYSTEMES, DISPOSITIFS ET METHODES POUR CONTROLER L'ACCES A UN ESPACE SECURISE**
[72] GRZENDA, JEANNE, CA
[72] KYOWSKI, TIMOTHY, CA
[72] SIMMONS, SEAN B., CA
[71] KONNEX ENTERPRISES INC., CA
[22] 2020-07-24
[41] 2022-01-24

---

[21] **3,087,916**
[13] A1
[51] **Int.Cl. B64D 1/16 (2006.01)**
[25] EN
[54] **FRAME ASSEMBLY FOR COLLAPSIBLE AERIAL FIRE FIGHTING BUCKETS AND COLLAPSIBLE AERIAL FIRE FIGHTING BUCKETS HAVING SAME**
[54] **ASSEMBLAGE DE CADRE POUR DES CITERNES A EAU AERIENNES ESCAMOTABLES ET CITERNES A EAU AERIENNES ESCAMOTABLES LE COMPRENANT**
[72] ARNEY, DONALD B., CA
[72] KWONG, EDDIE C.K., CA
[72] TOECKES, MARK D., CA
[71] DONMARK HOLDINGS INC., CA
[22] 2020-07-24
[41] 2022-01-24

---

[21] **3,087,935**
[13] A1
[51] **Int.Cl. B65D 51/32 (2006.01) A46B 5/00 (2006.01) A46B 15/00 (2006.01) A46B 17/02 (2006.01) B44D 3/12 (2006.01)**
[25] EN
[54] **EXFOLIATING BRUSH LID WITH MULTIFUNCTIONAL COVER**
[54] **CAPUCHON DE PINCEAU EXFOLIANT AVEC COUVERCLE MULTIFONCTIONNEL**
[72] ESSERY, TYLAN, CA
[71] ESSERY, TYLAN, CA
[22] 2020-07-24
[41] 2022-01-24

---

[21] **3,087,939**
[13] A1
[51] **Int.Cl. C04B 26/04 (2006.01) C04B 14/00 (2006.01)**
[25] EN
[54] **A PEBBLE SURFACE LIGHTWEIGHT LANDSCAPING BLOCK**
[54] **BLOC D'AMENAGEMENT PAYSAGER LEGER A SURFACE DE CAILLOU**
[72] KOENEN, CHARLES ANTHONY, CA
[71] KOENEN, CHARLES ANTHONY, CA
[22] 2020-07-24
[41] 2022-01-24

---

[21] **3,087,965**
[13] A1
[51] **Int.Cl. A47J 31/02 (2006.01)**
[25] EN
[54] **UNIVERSAL STEEPER LID**
[54] **COUVERCLE DE TREMPEUR UNIVERSEL**
[72] BOUDREAU, ADAM, CA
[72] BOUDREAU, DANIELLE, CA
[71] BOUDREAU, ADAM, CA
[71] BOUDREAU, DANIELLE, CA
[22] 2020-07-25
[41] 2022-01-25

[21] **3,088,072**
[13] A1
[51] **Int.Cl. A47J 31/00 (2006.01) A23L 2/00 (2006.01) A23F 3/00 (2006.01) A23F 5/00 (2006.01)**
[25] EN
[54] **AUTOMATED PROCESSING SYSTEM FOR MAKING BEVERAGE**
[54] **SYSTEME DE TRAITEMENT AUTOMATISE POUR PRODUIRE DES BREUVAGES**
[72] KAO, SHENG-SHING, TW
[71] KAO, SHENG-SHING, TW
[22] 2020-07-27
[41] 2022-01-27

[21] **3,088,080**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) G06Q 50/16 (2012.01) G16Y 10/80 (2020.01) G16Y 20/00 (2020.01)**
[25] EN
[54] **INTEGRATED HOME SCORING SYSTEM**
[54] **SYSTEME DE NOTATION DE MAISON INTEGRE**
[72] ASPRO, SALVATORE, CA
[72] KOBAYASHI, MASASHI, CA
[72] TITUS, JINOJ, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-07-27
[41] 2022-01-27

[21] **3,088,098**
[13] A1
[51] **Int.Cl. E03C 1/04 (2006.01)**
[25] EN
[54] **ROUGH-IN ASSEMBLY FOR FREE-STANDING FAUCET**
[54] **ASSEMBLAGE DE POSE DE ROBINET A SUPPORT AUTONOME**
[72] LI, CHUNHUNG, TW
[72] HSU, CHAOYEN, TW
[72] NI, KUOTUNG, TW
[72] LIN, YIPING, TW
[71] GLOBE UNION INDUSTRIAL CORP., TW
[22] 2020-07-27
[41] 2022-01-27

[21] **3,088,183**
[13] A1
[51] **Int.Cl. A47J 43/07 (2006.01) A47J 43/046 (2006.01)**
[25] EN
[54] **FOOD PROCESSOR AND ATTACHMENT**
[54] **ROBOT CULINAIRE ET ACCESSOIRE**
[72] DE SOUZA, RICHARD, CA
[71] DE SOUZA, RICHARD, CA
[22] 2020-07-28
[41] 2022-01-28

[21] **3,088,208**
[13] A1
[51] **Int.Cl. A01G 31/02 (2006.01)**
[25] EN
[54] **VERTICAL FARMING SYSTEM**
[54] **SYSTEME D'AGRICULTURE VERTICALE**
[72] KIELLAND, PETER, CA
[71] KIELLAND, PETER, CA
[22] 2020-07-28
[41] 2022-01-28

[21] **3,088,228**
[13] A1
[51] **Int.Cl. E21B 43/243 (2006.01)**
[25] EN
[54] **IN SITU COMBUSTION IN LATE LIFE BITUMEN RECOVERY WELLS**
[54] **COMBUSTION SUR PLACE DANS LES PUITS DE RECUPERATION DE BITUME EN FIN DE VIE**
[72] IBATULLIN, TAIR, CA
[72] BOGATKOV, DMITRY, CA
[72] RUPERT, KRISTOPHER, CA
[72] HAGHIGHAT, PARNIAN, CA
[71] SUNCOR ENERGY INC., CA
[22] 2020-07-28
[41] 2022-01-28

[21] **3,088,284**
[13] A1
[51] **Int.Cl. B05B 13/02 (2006.01)**
[25] EN
[54] **SPRAY RACK SYSTEM**
[54] **SYSTEME DE RATELIER DE PULVERISATION**
[72] GUFFEY, NATHAN D., US
[72] NIBALI, BENJAMIN D., US
[72] BEARDEN, LUKAS R., US
[72] GUFFEY, KENNY D., US
[71] GUFFEY SYSTEMS,LLC, US
[22] 2020-07-28
[41] 2022-01-28

[21] **3,088,318**
[13] A1
[51] **Int.Cl. F23G 7/08 (2006.01) F23L 17/02 (2006.01)**
[25] EN
[54] **FLARE STACK DIFFUSER TIP**
[54] **POINTE DE DIFFUSEUR DE TOUR DE TORCHE**
[72] RAJEWSKI, CAL ROBERT, CA
[71] RAJEWSKI, CAL ROBERT, CA
[22] 2020-07-29
[41] 2022-01-29

[21] **3,088,336**
[13] A1
[51] **Int.Cl. B60N 2/28 (2006.01) A47D 13/02 (2006.01)**
[25] EN
[54] **INFANT CARRIER WITH INTEGRATED STORAGE**
[54] **PORTE-BEBE AVEC RANGEMENT INTEGRE**
[72] HU, QUINN, CA
[72] DINESCU, IULIU VIG, CA
[72] ROTIROTI, GIUSEPPE, CA
[71] CLEK INC., CA
[22] 2020-07-29
[41] 2022-01-29

[21] **3,088,344**
[13] A1
[51] **Int.Cl. H02G 3/08 (2006.01) H02G 3/18 (2006.01)**
[25] EN
[54] **RECONFIGURABLE ELECTRICAL JUNCTION**
[54] **JONCTION ELECTRIQUE RECONFIGURABLE**
[72] GARCIA, MANNY, US
[71] SHERMAN INDUSTRIES, US
[22] 2020-07-29
[41] 2022-01-29

[21] **3,088,366**
[13] A1
[51] **Int.Cl. B65D 5/20 (2006.01) B65D 5/64 (2006.01)**
[25] EN
[54] **BOX AND BLANK THEREFOR**
[54] **BOITE ET DECOUPE CONNEXE**
[72] GOLDBERG, LESLIE H., CA
[71] GOLDRICH PRINTPAK INC., CA
[22] 2020-07-29
[41] 2022-01-29

---

[21] **3,088,369**
[13] A1
[51] **Int.Cl. B60G 17/052 (2006.01)**
[25] EN
[54] **ELECTRONIC SUSPENSION CONTROL SYSTEM FOR A VEHICLE**
[54] **SYSTEME DE COMMANDE DE SUSPENSION ELECTRONIQUE POUR UN VEHICULE**
[72] SCHERBA, JUSTIN PAUL, CA
[72] FENKHUBER, JACK WILLIAM, CA
[72] HECKRODT, LUKE WILFRED, CA
[71] VALID MANUFACTURING LTD., CA
[22] 2020-07-29
[41] 2022-01-29

---

[21] **3,088,411**
[13] A1
[51] **Int.Cl. F24F 1/0087 (2019.01)**
[25] EN
[54] **HUMIDIFIER FOR A FAN COIL**
[54] **HUMIDIFICATEUR POUR VENTILO-CONVECTEUR**
[72] CONRAD, WAYNE ERNEST, CA
[72] CARD, SCOTT, CA
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA
[22] 2020-07-29
[41] 2022-01-29

---

[21] **3,088,443**
[13] A1
[51] **Int.Cl. E03C 1/30 (2006.01) B08B 9/04 (2006.01)**
[25] EN
[54] **DRAIN UNCLOGGER TOOL**
[54] **OUTIL DE DESOBSTRUCTION DE DRAIN**
[72] NAOUI, MOHAMMED, CA
[72] NAOUI, IBRAHIM, CA
[72] NAOUI, OMAR, CA
[71] NAOUI, MOHAMMED, CA
[71] NAOUI, IBRAHIM, CA
[71] NAOUI, OMAR, CA
[22] 2020-07-27
[41] 2022-01-27

---

[21] **3,088,445**
[13] A1
[51] **Int.Cl. B60C 25/02 (2006.01)**
[25] EN
[54] **BICYCLE TIRE MOUNTING TOOL**
[54] **OUTIL D'INSTALLATION DE PNEU A VELO**
[72] DODYK, STEVEN, CA
[72] DODYK, STEPHANIE, CA
[72] DODYK, RYAN, CA
[71] DODYK, STEVEN, CA
[71] DODYK, STEPHANIE, CA
[71] DODYK, RYAN, CA
[22] 2020-07-24
[41] 2022-01-24

---

[21] **3,090,789**
[13] A1
[51] **Int.Cl. E02D 29/063 (2006.01) E02D 29/09 (2006.01)**
[25] EN
[54] **UNDERWATER TRAFFIC TUNNEL**
[54] **TUNNEL DE CIRCULATION SOUS-MARINE**
[72] DU, DI, CN
[71] DU, DI, CN
[71] DU, YANG, CN
[22] 2020-08-21
[41] 2022-01-28
[30] CN (202010738096.7) 2020-07-28

---

[21] **3,094,539**
[13] A1
[51] **Int.Cl. G06F 16/27 (2019.01) G06F 16/23 (2019.01)**
[25] EN
[54] **MULTIDIRECTIONAL SYNCHRONIZATION OF CONFIDENTIAL DATA USING DISTRIBUTED LEDGERS**
[54] **SYNCHRONISATION MULTIDIRECTIONNELLE DE DONNEES CONFIDENTIELLES AU MOYEN DE REGISTRES DISTRIBUES**
[72] UBBENS, TIMOTHY WILLEM, CA
[72] CHOW, ARTHUR CARROLL, CA
[72] VARMA, SIDHARTH KUMAR, CA
[72] HENSLEY, JAMES THOMAS, CA
[72] SHPUROV, ALEXEY, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-09-25
[41] 2022-01-23
[30] US (63/055,600) 2020-07-23

---

[21] **3,096,005**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61F 5/56 (2006.01)**
[25] EN
[54] **OXYGEN ENRICHING POSITIVE AIRWAY PRESSURE(PAP) THERAPY APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE DE THERAPIE DE PRESSION POSITIVE DES VOIES RESPIRATOIRES POUR L'ENRICHISSEMENT EN OXYGENE**
[72] VOWLES, GERALD J., CA
[71] VOWLES, GERALD J., CA
[22] 2020-10-11
[41] 2022-01-23
[30] CA (3084505) 2020-07-23

[21] **3,099,469**
[13] A1
[51] **Int.Cl. B25H 1/02 (2006.01)**
[25] EN
[54] **A CHANNEL PUCK FOR USE IN A RAILED TABLE**
[54] **RONDELLE DE CANAL A UTILISER DANS UNE TABLE SUR RAIL**
[72] LIVINGSTON, LARRY LEIGH, JR, US
[71] OMNI CUBED, INC., US
[22] 2020-11-17
[41] 2022-01-26
[30] US (16/939,001) 2020-07-26
[30] US (16/986,268) 2020-08-06

[21] **3,103,536**
[13] A1
[51] **Int.Cl. A61H 39/00 (2006.01) A43B 17/00 (2006.01) A61H 39/04 (2006.01)**
[25] EN
[54] **MAGNETIC ACUPOINT MASSAGE INSOLE FOR CONDITIONING CHRONIC DISEASES**
[54] **SEMELLE INTERIEURE DE MASSAGE D'ACUPOINT MAGNETIQUE POUR LE CONDITIONNEMENT DE MALADIES CHRONIQUES**
[72] ZHOU, YUYUAN, CN
[72] WU, XINGLIANG, CN
[71] GUANGDONG BREATH WALKER HEALTH TECHNOLOGY CO., LTD., CN
[22] 2020-12-23
[41] 2022-01-28
[30] CN (202021522878.9) 2020-07-28

[21] **3,104,306**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) G06T 19/00 (2011.01) G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED INSERTION OF SUPPLEMENTAL CONTENT INTO A VIRTUAL ENVIRONMENT USING A MACHINE LEARNING MODEL**
[54] **SYSTEMES ET METHODES D'AJOUT AUTOMATISE DE CONTENU SUPPLEMENTAIRE DANS UN ENVIRONNEMENT VIRTUEL UTILISANT UN MODELE D'APPRENTISSAGE AUTOMATIQUE**
[72] GOYAL, AASHISH, IN
[72] MISHRA, AJAY KUMAR, IN
[72] ROBERT JOSE, JEFFRY COPPS, IN
[71] ROVI GUIDES, INC., US
[22] 2020-12-24
[41] 2022-01-28
[30] US (16/940982) 2020-07-28

[21] **3,106,621**
[13] A1
[51] **Int.Cl. B25J 1/04 (2006.01) A45F 5/00 (2006.01) A45F 5/10 (2006.01)**
[25] EN
[54] **THERMO-DISTANCE**
[54] **THERMO-DISTANCE**
[72] ISHAK, NABIL, CA
[71] ISHAK, NABIL, CA
[22] 2020-07-23
[41] 2022-01-23

[21] **3,107,605**
[13] A1
[51] **Int.Cl. G01D 11/00 (2006.01)**
[25] EN
[54] **WIRELESS, BATTERY-POWERED SENSOR**
[54] **CAPTEUR SANS FIL A BATTERIE**
[72] OKOLI, CHUKWUNONSO, US
[72] LUSK, JONATHAN, US
[72] JOHNSON, JOHN RICHARD, US
[71] ABL IP HOLDING LLC, US
[22] 2021-01-29
[41] 2022-01-28
[30] US (16/940,670) 2020-07-28

[21] **3,108,637**
[13] A1
[51] **Int.Cl. C25D 13/14 (2006.01) B05B 12/20 (2018.01) B65D 51/16 (2006.01)**
[25] EN
[54] **VENT PLUG AND METHOD**
[54] **BOUCHON D'EVENT ET METHODE**
[72] ASIK, BRIAN, US
[71] CUSTOM FABRICATING & SUPPLIES, US
[22] 2021-02-11
[41] 2022-01-23
[30] US (16/936,696) 2020-07-23

[21] **3,110,201**
[13] A1
[51] **Int.Cl. F16F 15/121 (2006.01)**
[25] EN
[54] **AXIAL ROTATION DAMPING MECHANISM**
[54] **MECANISME D'AMORTISSEMENT DE ROTATION AXIALE**
[72] MAHADEVAPPA, BASAVARAJA KOTYAL, IN
[72] KURUMPILAVU SUBRAMANIAN, SANITH, IN
[72] MAGHSOODI, BEJAN, IN
[72] SUNDAR SIYER, SHYAM, IN
[71] GOODRICH CORPORATION, US
[22] 2021-02-23
[41] 2022-01-23
[30] US (16/937,212) 2020-07-23

[21] **3,111,289**
[13] A1
[51] **Int.Cl. B60D 1/30 (2006.01)**
[25] EN
[54] **SWAY CONTROL BAR WITH COOLING VENTS AND SPRING CLAMP**
[54] **BARRE DE COMMANDE STABILISATRICE AVEC EVENTS DE REFROIDISSEMENT ET BRIDE DE RESSORT**
[72] FEW, JEFFREY PAUL, US
[71] LIPPERT COMPONENTS, INC., US
[22] 2021-03-05
[41] 2022-01-29
[30] US (17/191,423) 2021-03-03
[30] US (63/057,976) 2020-07-29

[21] **3,116,250**
[13] A1
[51] **Int.Cl. B60S 9/02 (2006.01)**
[25] EN
[54] **STAND FOR EQUIPMENT TRAILERS**
[54] **SUPPORT POUR REMORQUES D'EQUIPEMENT**
[72] TEICHROB, GARY WAYNE, CA
[72] MASON, PATRICK SCOTT, CA
[72] HO, DENNIS KEITH, CA
[72] FRIESEN, CLARK ALAN, CA
[71] TY-CROP MANUFACTURING LTD., CA
[22] 2021-04-27
[41] 2022-01-28
[30] US (63/057,542) 2020-07-28

---

[21] **3,117,878**
[13] A1
[51] **Int.Cl. G09G 5/377 (2006.01) G06T 19/00 (2011.01) H04N 21/4725 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REPRESENTING USER INTERACTIONS IN MULTI-USER AUGMENTED REALITY**
[54] **SYSTEMES ET METHODES POUR REPRESENTER LES INTERACTIONS D'UTILISATEURS DANS UNE REALITE AUGMENTEE A UTILISATEURS MULTIPLES**
[72] HAAPOJA, JUHO MIKKO, CA
[72] DELGADO, BYRON LEONEL, CA
[72] LEROUX, STEPHAN, CA
[72] BEAUCHAMP, DANIEL, CA
[71] SHOPIFY INC., CA
[22] 2021-05-10
[41] 2022-01-27
[30] US (16/939280) 2020-07-27
[30] EP (21168734.8) 2021-04-15

---

[21] **3,118,231**
[13] A1
[51] **Int.Cl. A45D 44/00 (2006.01) A61C 17/34 (2006.01) A61H 23/02 (2006.01)**
[25] EN
[54] **ABRASIVE FACIAL BUFFER SYSTEM**
[54] **SYSTEME DE POLISSAGE FACIAL ABRASIF**
[72] BAILAR, LUCINNI, US
[71] BAILAR, LUCINNI, US
[22] 2021-05-13
[41] 2022-01-27
[30] US (16939861) 2020-07-27

---

[21] **3,118,447**
[13] A1
[51] **Int.Cl. F23J 13/04 (2006.01)**
[25] EN
[54] **A CROSS COMPATIBLE ANCHOR PLATE ADAPTER FOR CHIMNEYS**
[54] **ADAPTATEUR DE PLAQUE D'ANCRAGE POUR LES CHEMINEES MULTI-COMPATIBILITE**
[72] SAXENA, RAJAT, US
[72] SCHMITZ, PETER M., US
[72] PALMBOS, ERIC W., US
[72] LUTZ, MICHAEL R., US
[72] JAIN, RAUL, US
[71] CARDINAL IP HOLDING, LLC, US
[22] 2021-05-12
[41] 2022-01-28
[30] US (16/940,803) 2020-07-28

---

[21] **3,118,769**
[13] A1
[51] **Int.Cl. G01B 21/00 (2006.01)**
[25] EN
[54] **METHODS FOR MEASURING PART SIZE AND RUNOUT**
[54] **METHODES DE MESURE DE LA TAILLE DE LA PIECE ET LE FAUX ROND**
[72] GAGNON, LAFLECHE, CA
[72] GUIASSA, RICHARD, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-05-14
[41] 2022-01-23
[30] US (16/936,521) 2020-07-23

---

[21] **3,118,773**
[13] A1
[51] **Int.Cl. F02C 7/06 (2006.01) F01D 25/18 (2006.01) F01M 11/08 (2006.01)**
[25] EN
[54] **DOUBLE JOURNAL BEARING IMPELLER FOR ACTIVE DE-AERATOR**
[54] **TURBINE A DOUBLE PALIER LISSE POUR UN DEGAZEUR ACTIF**
[72] MARTIN, BRUNO, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-05-14
[41] 2022-01-23
[30] US (16/936,606) 2020-07-23

---

[21] **3,119,125**
[13] A1
[51] **Int.Cl. H02G 3/08 (2006.01) H02G 3/02 (2006.01)**
[25] EN
[54] **BRACKET MOUNTABLE ELECTRICAL BOX**
[54] **BOITIER ELECTRIQUE MONTABLE SUR SUPPORT**
[72] TAYLOR, PHILLIP, US
[72] TAYLOR, BOBBY, US
[71] ABB SCHWEIZ AG, CH
[22] 2021-05-19
[41] 2022-01-29
[30] US (16/941,794) 2020-07-29

---

[21] **3,119,143**
[13] A1
[51] **Int.Cl. H05B 45/20 (2020.01) F21K 9/232 (2016.01) H05B 45/42 (2020.01)**
[25] EN
[54] **CCT SWITCHABLE ILLUMINATING DEVICE**
[54] **DISPOSITIF LUMINEUX A COMMUTATION DE TEMPERATURE DE COULEUR PROXIMALE**
[72] GAO, JIE, CN
[72] YAO, PAM, CN
[72] WANG, ZHE, CN
[71] SAVANT TECHNOLOGIES LLC, US
[22] 2021-05-19
[41] 2022-01-27
[30] CN (202021505560X) 2020-07-27

---

[21] **3,120,612**
[13] A1
[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATIC GOUGE TORCH ACTIVATION**
[54] **SYSTEMES ET METHODES POUR ACTIVATION AUTOMATIQUE DE CHALUMEAU DE GOUGEAGE**
[72] ANDERS, ADAM E., US
[72] ROSERA, CALEB M., US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-06-02
[41] 2022-01-29
[30] US (16/942,447) 2020-07-29

[21] **3,120,840**
[13] A1
[51] **Int.Cl. B64C 3/18 (2006.01) B64C 1/06 (2006.01)**
[25] EN
[54] **WING ASSEMBLY HAVING WING JOINTS JOINING OUTER WING STRUCTURES TO CENTERWING STRUCTURE**
[54] **ASSEMBLAGE D'AILE ET JOINTS D'AILE JOIGNANT LES STRUCTURES D'AILE EXTERIEURES A LA STRUCTURE D'AILE CENTRALE**
[72] BEHZADPOUR, FOROUZAN, US
[72] STICKLER, PATRICK B., US
[71] THE BOEING COMPANY, US
[22] 2021-06-02
[41] 2022-01-29
[30] US (63/057,941) 2020-07-29

[21] **3,120,988**
[13] A1
[51] **Int.Cl. A24F 42/80 (2020.01) A24F 1/28 (2006.01) A61J 1/06 (2006.01)**
[25] EN
[54] **DISPOSABLE VIAL FOR PACKING TOBACCO TO BE SMOKED WITH INDENT FOR WICK AND METHOD FOR MANUFACTURING**
[54] **FIOLE JETABLE POUR EMBALLER LE TABAC A FUMER COMPRENANT UNE ENCOCHE POUR UNE MECHE ET METHODE DE FABRICATION**
[72] OU, SUK HWAN, US
[71] R.Y.L. INC., US
[22] 2021-06-04
[41] 2022-01-28
[30] US (16/941,245) 2020-07-28

[21] **3,121,079**
[13] A1
[51] **Int.Cl. A47J 43/28 (2006.01) A47F 13/08 (2006.01) A47G 21/04 (2006.01) A47J 43/20 (2006.01)**
[25] EN
[54] **PORTIONING DEVICE WITH INTERCHANGEABLE SCOOPS**
[54] **DISPOSITIF DE REPARTITION AVEC PELLES INTERCHANGEABLES**
[72] EIKELENBERG, RALPH F. E., US
[72] KEYMEULEN, ANTOON, US
[72] DAELMAN, KATELIJNE, US
[72] CORNU, JUDICAEL, US
[71] DART INDUSTRIES INC., US
[22] 2021-06-04
[41] 2022-01-24
[30] US (16/938,314) 2020-07-24

[21] **3,121,318**
[13] A1
[51] **Int.Cl. B64C 13/00 (2006.01) B64C 31/00 (2006.01) G05D 17/02 (2006.01)**
[25] EN
[54] **PROVIDING CONTINUOUSLY VARIABLE FEEL FORCES FOR FULLY-POWERED FLIGHT CONTROL SYSTEMS**
[54] **FORCES A SENSATION VARIABLE CONTINUES POUR UN SYSTEME DE COMMANDE DE VOL PLEINEMENT ALIMENTE**
[72] ELLIOT, JOSEPH E., US
[71] THE BOEING COMPANY, US
[22] 2021-06-04
[41] 2022-01-24
[30] US (63/056,458) 2020-07-24

[21] **3,121,660**
[13] A1
[51] **Int.Cl. A01H 6/82 (2018.01) A23L 19/00 (2016.01) A01G 2/00 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 4/00 (2006.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO HYBRID IVORYMOON**
[54] **TOMATE HYBRIDE IVORYMOON**
[72] DUO, HAOYANG, NL
[72] EBLE, MARION, SG
[71] SYNGENTA CROP PROTECTION AG, CH
[22] 2021-06-09
[41] 2022-01-27
[30] US (16/939,253) 2020-07-27

[21] **3,121,668**
[13] A1
[51] **Int.Cl. A01H 6/82 (2018.01) A01G 2/00 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO HYBRID MONILE AND PARENT LINE AI1D13TEN000015**
[54] **TOMATE HYBRIDE MONILE ET LIGNEE GENITRICE AI1D13TEN000015**
[72] DUO, HAOYANG, NL
[72] EBLE, MARION, SG
[72] SCHAAREMAN, ROB, NL
[71] SYNGENTA CROP PROTECTION AG, CH
[22] 2021-06-09
[41] 2022-01-27
[30] US (16/939,269) 2020-07-27

[21] **3,121,672**
[13] A1
[51] **Int.Cl. A01H 6/82 (2018.01) A01G 2/00 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO HYBRID BAMBORANGE AND PARENT LINE L10TEN014**
[54] **TOMATE HYBRIDE BAMBORANGE ET LIGNEE GENITRICE L10TEN014**
[72] DUO, HAOYANG, NL
[72] SCHAAREMAN, ROB, NL
[71] SYNGENTA CROP PROTECTION AG, CH
[22] 2021-06-09
[41] 2022-01-27
[30] US (16/939,236) 2020-07-27

[21] **3,121,677**
[13] A1
[51] **Int.Cl. C12N 7/02 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **ADENOVIRUS-ASSOCIATED VIRUSES SEPARATATION METHOD**
[54] **METHODE DE SEPARATION DES VIRUS ASSOCIES AUX ADENOVIRUS**
[72] HEJMOWSKI, ADAM, US
[71] PALL CORPORATION, US
[22] 2021-06-09
[41] 2022-01-29
[30] US (16/942,156) 2020-07-29

[21] **3,121,970**
[13] A1
[51] **Int.Cl. B23K 7/00 (2006.01) E21B 29/02 (2006.01)**
[25] EN
[54] **DOWNHOLE CIRCULAR CUTTING TORCH**
[54] **CHALUMEAU COUPEUR CIRCULAIRE EN FOND DE TROU**
[72] WATKINS, TODD JOSEPH, US
[72] ZHANG, JIAN, US
[71] CHAMMAS PLASMA CUTTERS LLC, US
[22] 2021-06-10
[41] 2022-01-28
[30] US (63/057,596) 2020-07-28
[30] US (17/341,923) 2021-06-08

[21] **3,122,663**
[13] A1
[51] **Int.Cl. F04B 53/22 (2006.01) F04B 53/16 (2006.01)**
[25] EN
[54] **MODULAR PUMP AND PUMPING SYSTEM INCLUDING SAME**
[54] **POMPE MODULAIRE ET SYSTEME DE POMPAGE LA COMPRENANT**
[72] MCCROSSEN, TIMOTHY D., US
[72] PIN, CLEMENT A., III, US
[72] BIEGAS, JOHN, US
[71] LIBERTY PUMPS, INC., US
[22] 2021-06-17
[41] 2022-01-29
[30] US (16/942,010) 2020-07-29

[21] **3,122,789**
[13] A1
[51] **Int.Cl. B64C 1/06 (2006.01) B64F 5/10 (2017.01)**
[25] EN
[54] **BEAD-STIFFENED MOVABLE SURFACES**
[54] **SURFACES MOBILES RAIDIES AU MOYEN DE PERLES**
[72] BEHZADPOUR, FOROUZAN, US
[72] ASHMAWI, WAEIL M., US
[72] APDALHALIEM, SAHRUDINE, US
[71] THE BOEING COMPANY, US
[22] 2021-06-16
[41] 2022-01-29
[30] US (63/057,944) 2020-07-29

[21] **3,122,805**
[13] A1
[51] **Int.Cl. B60R 99/00 (2009.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING A STATE OF A STOWAGE BIN ASSEMBLY WITHIN AN INTERNAL CABIN OF A VEHICLE**
[54] **SYSTEMES ET METHODES POUR DETERMINER UN ETAT D'UN ASSEMBLAGE DE COFFRE DANS UNE CABINE INTERIEURE D'UN VEHICULE**
[72] RADHAKRISHNAN, VENKATESH BABU, US
[72] RAKESH, MUGALUDI RAMESHA, US
[72] SAVADAMUTHU, MADHANMOHAN, US
[72] TRIPATHI, SHUBHAM, US
[72] OWYANG, ETHAN CARL, US
[71] THE BOEING COMPANY, US
[22] 2021-06-17
[41] 2022-01-29
[30] US (63/057,943) 2020-07-29

[21] **3,122,969**
[13] A1
[51] **Int.Cl. A47J 43/07 (2006.01)**
[25] EN
[54] **CONTAINER FOR FOOD PROCESSING SYSTEM**
[54] **CONTENANT POUR UN SYSTEME DE TRANSFORMATION DES ALIMENTS**
[72] ROBERTS, MATT, US
[72] LOCKYER, EDWARD, GB
[72] FOGARASI, KRISTOF BENEDICT, US
[72] O'LOUGHLIN, NICHOLAS, CN
[72] KO, FREDRICK, CN
[72] DENG, YAOMING, CN
[72] HUANG, AUDITHAN, US
[72] JIANG, JOHN, CN
[72] LAI, LUCAS, CN
[72] CHEN, GANG, CN
[72] PEI, KEVIN, CN
[72] BANNISTER, SAM, GB
[72] RICHARDSON, ROSS, US
[71] SHARKNINJA OPERATING LLC, US
[22] 2021-06-23
[41] 2022-01-27
[30] US (17/155,899) 2021-01-22
[30] US (63/057,205) 2020-07-27

[21] **3,123,910**
[13] A1
[51] **Int.Cl. G01S 13/74 (2006.01) G01S 13/78 (2006.01)**
[25] EN
[54] **SECONDARY RADAR IMPROVING AERIAL SAFETY VIA VERY-LONG-RANGE ADS-B DETECTION**
[54] **RADAR SECONDAIRE AMELIORANT LA SECURITE AERIENNE AU MOYEN DE LA DETECTION ADS-B TRES LONGUE PORTEE**
[72] BILLAUD, PHILIPPE, FR
[72] PANNIER, JEAN-MARIE, FR
[71] THALES, FR
[22] 2021-07-07
[41] 2022-01-28
[30] FR (2007963) 2020-07-28

[21] **3,123,976**
[13] A1
[51] **Int.Cl. B66B 1/00 (2006.01) B66B 3/00 (2006.01) B66B 5/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PARKING ELEVATORS**
[54] **SYSTEMES ET METHODES POUR ASCENSEURS DE PARC DE STATIONNEMENT**
[72] APPANA, AMARNAUTH, JR., US
[71] APPANA INDUSTRIES LLC, US
[22] 2021-07-08
[41] 2022-01-29
[30] US (63/058.261) 2020-07-29

---

[21] **3,123,989**
[13] A1
[51] **Int.Cl. B25B 7/10 (2006.01)**
[25] EN
[54] **PUSH BUTTON RELEASE MECHANISM FOR PLIERS**
[54] **MECANISME DE DECLENCHEMENT A BOUTON POUSSOIR POUR DES PINCES**
[72] ROSS, DAVID T., US
[72] DOYLE, DAVID T., US
[72] HOPPER, RICHARD L., US
[71] SNAP-ON INCORPORATED, US
[22] 2021-07-08
[41] 2022-01-29
[30] US (16/942,304) 2020-07-29

---

[21] **3,124,047**
[13] A1
[51] **Int.Cl. B01D 33/333 (2006.01) B01D 33/46 (2006.01)**
[25] EN
[54] **BAR SCREEN FILTER APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE DE FILTRE A BARREAUX**
[72] SIMONELLI, JAMES K., US
[72] STANEK, WALTER B., US
[71] PARKSON CORPORATION, US
[22] 2021-07-07
[41] 2022-01-23
[30] US (16/936,669) 2020-07-23

---

[21] **3,124,206**
[13] A1
[51] **Int.Cl. B64C 3/26 (2006.01) B64F 5/10 (2017.01) B64C 3/00 (2006.01)**
[25] EN
[54] **COMPOSITE THIN WINGBOX ARCHITECTURE FOR SUPERSONIC BUSINESS JETS**
[54] **ARCHITECTURE DE CAISSON D'AILE MINCE COMPOSITE POUR DES AVIONS D'AFFAIRES A REACTION SUPERSONIQUE**
[72] BEHZADPOUR, FOROUZAN, US
[72] STICKLER, PATRICK B., US
[71] THE BOEING COMPANY, US
[22] 2021-07-07
[41] 2022-01-29
[30] US (63/058,019) 2020-07-29

---

[21] **3,124,391**
[13] A1
[51] **Int.Cl. G05B 19/042 (2006.01) H05B 47/10 (2020.01) G05D 1/02 (2020.01) B60H 1/00 (2006.01)**
[25] EN
[54] **RETROFIT REMOTE CONTROL SYSTEM FOR A MACHINE**
[54] **SYSTEME DE TELECOMMANDE REAMENAGE POUR UNE MACHINE**
[72] KANDULA, SUNEEL VENKATA, IN
[72] VARGHESE, ASHISH ABRAHAM, AU
[72] GUNDLAPALLI, SAI PARVEEN, IN
[72] NELSON, ANTHONY, AU
[72] PILGRIM, MARTIN V., AU
[71] CATERPILLAR INC, US
[22] 2021-07-13
[41] 2022-01-24
[30] IN (202011031868) 2020-07-24

---

[21] **3,124,474**
[13] A1
[51] **Int.Cl. E03C 1/284 (2006.01) E03F 5/04 (2006.01)**
[25] EN
[54] **A FLAT TRAP**
[54] **PIEGE PLAT**
[72] MCLEOD, CHRISTOPHER ADAM, CA
[71] OAKVILLE STAMPING & BENDING LIMITED, CA
[22] 2021-07-09
[41] 2022-01-25
[30] US (16/938,976) 2020-07-25

---

[21] **3,124,486**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01) G07C 5/00 (2006.01) G06Q 40/08 (2012.01)**
[25] EN
[54] **VEHICLE VALUATION ENGINE TO DETERMINE VALUATION BASED ON USAGE AND FAULT HISTORY**
[54] **MOTEUR D'APPRECIATION DE VEHICULE POUR DETERMINER SA VALEUR EN FONCTION DE L'UTILISATION ET DE L'HISTORIQUE DES DEFAILLANCES**
[72] ISAAC, EMAD, US
[71] ALLSTATE INSURANCE COMPANY, US
[22] 2021-07-12
[41] 2022-01-23
[30] US (16/936,633) 2020-07-23

---

[21] **3,124,828**
[13] A1
[51] **Int.Cl. E04F 21/20 (2006.01) E04F 21/22 (2006.01) E04G 21/18 (2006.01)**
[25] EN
[54] **LEVELLING SPACER DEVICE FOR SLABS**
[54] **ENTRETOISE DE NIVELAGE POUR DALLES**
[72] SIGHINOLFI, RICCARDO, IT
[71] RAIMONDI S.P.A., IT
[22] 2021-07-15
[41] 2022-01-23
[30] IT (102020000017881) 2020-07-23

---

[21] **3,124,854**
[13] A1
[51] **Int.Cl. A47F 5/11 (2006.01) A47B 43/02 (2006.01)**
[25] EN
[54] **CORRUGATED SHELVING DISPLAY WITH TWO-PIECE SHELVES**
[54] **PRESENTOIR A ETAGERES CANNELEES EN DEUX PIECES**
[72] PFEIFER, MIKE, US
[71] MENASHA CORPORATION, US
[22] 2021-07-16
[41] 2022-01-29
[30] US (16/942,315) 2020-07-29

[21] **3,124,867**
[13] A1
[51] **Int.Cl. C10G 45/64 (2006.01)**
[25] FR
[54] **PROCESS FOR DEPARAFFINING A MEDIUM DISTILLATE LOAD USING AN IZM-2 ZEOLITE-BASED CATALYST AND AN MFI-TYPE ZEOLITE**
[54] **PROCEDE DE DEPARAFFINAGE D'UNE CHARGE DISTILLAT MOYEN UTILISANT UN CATALYSEUR A BASE DE ZEOLITHE IZM-2 ET D'UNE ZEOLITHE DE TYPE MFI**
[72] DIGNE, MATHIEU, FR
[72] FECANT, ANTOINE, FR
[72] BERTRAND-DRIRA, CHLOE, FR
[71] IFP ENERGIES NOUVELLES, FR
[22] 2021-07-19
[41] 2022-01-23
[30] FR (2007730) 2020-07-23

---

[21] **3,124,873**
[13] A1
[51] **Int.Cl. B62D 1/16 (2006.01) B62D 1/20 (2006.01)**
[25] EN
[54] **VEHICLE STEERING STRUCTURE AND ALL-TERRAIN VEHICLE**
[54] **STRUCTURE DE DIRECTION DE VEHICULE ET VEHICULE TOUT-TERRAIN**
[72] LI, XIANG, CN
[71] SEGWAY TECHNOLOGY CO., LTD., CN
[22] 2021-07-19
[41] 2022-01-24
[30] CN (202021486200.X) 2020-07-24

---

[21] **3,124,874**
[13] A1
[51] **Int.Cl. B61H 9/02 (2006.01) B61B 12/02 (2006.01)**
[25] EN
[54] **CARRIAGE FOR MOVEMENT ON A CABLE AND/OR RAIL**
[54] **CHARIOT POUR LE DEPLACEMENT SUR UN CABLE ET/OU UN RAIL**
[72] MIANO, SAMUEL, IT
[72] TREBO, CARLO, IT
[71] ADRENALINE X-TREME ADVENTURES GROUP S.R.L., IT
[22] 2021-07-19
[41] 2022-01-23
[30] IT (102020000017893) 2020-07-23

---

[21] **3,124,907**
[13] A1
[51] **Int.Cl. B62M 1/00 (2010.01) B62K 23/08 (2006.01)**
[25] EN
[54] **BICYCLE**
[54] **BICYCLETTE**
[72] ATA, SANETAKA, JP
[71] ATA, SANETAKA, JP
[22] 2021-07-19
[41] 2022-01-26
[30] JP (2020-126039) 2020-07-26

---

[21] **3,124,920**
[13] A1
[51] **Int.Cl. E04D 15/00 (2006.01)**
[25] EN
[54] **ROOFING DEBRIS COLLECTION APPARATUS**
[54] **APPAREIL DE COLLECTE DES DEBRIS DE COUVERTURE**
[72] HICKS, HEATH AUSTIN, US
[72] MACKINTOSH, ERIC JAMES, US
[71] HICKS, HEATH AUSTIN, US
[71] MACKINTOSH, ERIC JAMES, US
[22] 2021-07-16
[41] 2022-01-27
[30] US (16/939,924) 2020-07-27

---

[21] **3,124,978**
[13] A1
[51] **Int.Cl. F16L 55/04 (2006.01) F01D 17/08 (2006.01) F16N 21/00 (2006.01) F16N 29/00 (2006.01)**
[25] EN
[54] **HYDRAULIC SNUBBER INSERT FOR GAS TURBINE ENGINE AND ASSOCIATED METHOD OF INSTALLATION**
[54] **PIECE RAPPORTEE D'AMORTISSEUR HYDRAULIQUE POUR UNE TURBINE A GAZ ET METHODE D'INSTALLATION CONNEXE**
[72] MALEWICZ, PALRYK, PL
[72] SOKOLIK, MATEUSZ, PL
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-07-15
[41] 2022-01-24
[30] US (16/938,127) 2020-07-24

---

[21] **3,125,008**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01)**
[25] EN
[54] **PATIENT VENTILATOR METHOD OF VENTILATING AN AIRWAY OF A PATIENT AND CONTROLLER THEREFOR**
[54] **RESPIRATEUR POUR PATIENT ET METHODE DE VENTILATION D'UNE VOIE AERIENNE D'UN PATIENT ET CONTROLEUR CONNEXE**
[72] BELLEVILLE, FRANCOIS, CA
[72] THOMASSIN, JEAN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-07-16
[41] 2022-01-24
[30] US (63/055,940) 2020-07-24

---

[21] **3,125,116**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/08 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **PATIENT VENTILATOR, METHOD OF VENTILATING AN AIRWAY OF A PATIENT, AND ASSOCIATED COMPUTER PROGRAM PRODUCT**
[54] **RESPIRATEUR POUR PATIENT, METHODE DE VENTILATION D'UNE VOIE AERIENNE D'UN PATIENT ET PROGRAMME INFORMATIQUE CONNEXE**
[72] THOMASSIN, JEAN, CA
[72] GAUVREAU, JEAN-GABRIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-07-19
[41] 2022-01-27
[30] US (16/939,501) 2020-07-27

[21] **3,125,124**
[13] A1
[51] **Int.Cl. G10L 15/01 (2013.01) G10L 15/06 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRAINING VOICE QUERY MODELS**
[54] **SYSTEMES ET METHODES D'ENTRAINEMENT DE MODELES DE COMMANDES VOCALES**
[72] LI, WENYAN, US
[72] TURE, FERHAN, US
[72] CASILLAS, JOSE, US
[72] DES JARDINS, GEORGE THOMAS, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-07-20
[41] 2022-01-24
[30] US (63/056,361) 2020-07-24

[21] **3,125,129**
[13] A1
[51] **Int.Cl. A47K 3/04 (2006.01) A47K 3/20 (2006.01)**
[25] EN
[54] **BATHING WALL SYSTEM**
[54] **SYSTEME DE MURS DE BAIN**
[72] FERRIS, JEFFREY DAVIS, US
[72] RINGHOLZ, DAVID MICHAEL, US
[71] DELTA FAUCET COMPANY, US
[22] 2021-07-20
[41] 2022-01-28
[30] US (63/057,886) 2020-07-28

[21] **3,125,419**
[13] A1
[51] **Int.Cl. G16B 20/00 (2019.01) G16H 50/30 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING A PHYSIOLOGICAL PROFILE USING GENETIC INFORMATION**
[54] **SYSTEMES ET METHODES POUR DETERMINER UN PROFIL PHYSIOLOGIQUE AU MOYEN DE RENSEIGNEMENTS GENETIQUES**
[72] MOHAMMED, MANSOOR, CA
[72] LIEPERT, DAVID, CA
[72] KHAN, HARRIS, CA
[72] KHAN, KASHIF, CA
[72] SIDDIQUI, KASHIF, CA
[71] THE DNA COMPANY INC., CA
[22] 2021-07-21
[41] 2022-01-23
[30] US (63/055.518) 2020-07-23
[30] US (63/167.830) 2021-03-30

[21] **3,125,462**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **MANAGEMENT OF RECONCILIATION AND REPORTING WORKFLOW USING ROBOTIC PROCESS AUTOMATION**
[54] **GESTION DES CHARGES DE TRAVAIL DE RAPPROCHEMENT ET DE RAPPORT AU MOYEN DE L'AUTOMATISATION ROBOTISEE DES PROCESSUS**
[72] JESKE, HEATHER MAY, CA
[72] CHIRDARIS, OLGA, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-07-21
[41] 2022-01-24
[30] US (17/380,378) 2021-07-20
[30] US (63/056,128) 2020-07-24

[21] **3,125,514**
[13] A1
[51] **Int.Cl. A23F 5/24 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR PROCESSING COFFEE GROUNDS**
[54] **APPAREIL ET METHODE DE TRANSFORMATION DE CAFE MOULU**
[72] LEGGETT, SHAWN PATRICK, CA
[71] GROUNDUP ECO-VENTURES LTD., CA
[22] 2021-07-21
[41] 2022-01-24
[30] US (63/056,069) 2020-07-24

[21] **3,125,518**
[13] A1
[51] **Int.Cl. G07C 11/00 (2006.01) G06V 40/16 (2022.01) G07F 19/00 (2006.01) G06N 20/00 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MAINTAINING HYGIENIC CONDITIONS IN AUTOMATIC TELLER MACHINES**
[54] **METHODES ET SYSTEMES POUR MAINTENIR DES CONDITIONS HYGIENIQUES DANS DES GUICHETS AUTOMATIQUES**
[72] BHARDWAJ, SHEKHAR, US
[72] YOCCA, ANDREW, US
[72] GOODMAN, KELVIN, US
[72] MCVAY, CHRISTOPHER, US
[72] ZHANG, DONG, US
[72] PANDYA, NEER, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2021-07-21
[41] 2022-01-23
[30] US (16/937,520) 2020-07-23

[21] **3,125,639**
[13] A1
[51] **Int.Cl. A24F 40/70 (2020.01) A24F 40/42 (2020.01) B65B 3/04 (2006.01)**
[25] EN
[54] **AUTOMATED FILLING OF CARTRIDGE ARRAY WITH VISCOUS LIQUID UTILIZING ANNULAR NOZZLES**
[54] **REMPLISSAGE AUTOMATISE D'UNE SERIE DE CARTOUCHES D'UN LIQUIDE VISQUEUX AU MOYEN D'INJECTEURS ANNULAIRES**
[72] PARTANSKY, NOHTAL, US
[72] SKAAR, PAUL, US
[72] TORRES, DIEGO, US
[72] LAWLOR, SEAN, US
[71] SORTING ROBOTICS, INC., US
[22] 2021-07-22
[41] 2022-01-29
[30] US (63/058,477) 2020-07-29

[21] **3,125,651**
[13] A1
[51] **Int.Cl. E02D 19/00 (2006.01) E02D 13/00 (2006.01) E02D 31/02 (2006.01)**
[25] EN
[54] **WICK DRAIN SHOE SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE PATIN DE DRAIN A MECHE**
[72] LEGAULT, ERIC C., US
[71] AMERICAN PILEDRIVING EQUIPMENT, INC., US
[22] 2021-07-22
[41] 2022-01-24
[30] US (63/056,437) 2020-07-24
[30] US (17/382,202) 2021-07-21

[21] **3,125,678**
[13] A1
[51] **Int.Cl. B61F 19/08 (2006.01)**
[25] FR
[54] **PROTECTIVE DEVICE FOR LAND VEHICLES**
[54] **DISPOSITIF DE PROTECTION POUR VEHICULE TERRESTRE**
[72] AYME, NICOLAS, FR
[71] ALSTOM TRANSPORT TECHNOLOGIES, FR
[22] 2021-07-22
[41] 2022-01-28
[30] FR (FR 20 07949) 2020-07-28

[21] **3,125,795**
[13] A1
[51] **Int.Cl. B64C 25/26 (2006.01) E05B 77/00 (2014.01)**
[25] EN
[54] **MECHANICALLY OPERATED LANDING GEAR UPLOCK SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE VERROU DE TRAIN RENTRE MECANIQUE**
[72] VASUDEVA, VISHWANATH, IN
[72] KULKARNI, SAGAR, IN
[72] MARAPPAN, BHARATH, IN
[72] CEPIC, ADNAN, CA
[71] GOODRICH CORPORATION, US
[22] 2021-07-22
[41] 2022-01-27
[30] IN (202041032124) 2020-07-27
[30] US (17/132,113) 2020-12-23

[21] **3,125,829**
[13] A1
[51] **Int.Cl. B63B 25/16 (2006.01) B63B 11/00 (2006.01) F17C 1/12 (2006.01) F17C 13/10 (2006.01)**
[25] FR
[54] **SYSTEM AND PROCESS FOR HEATING A STORAGE TANK FOR LIQUIFIED GAS**
[54] **SYSTEME ET PROCEDE DE CHAUFFAGE D'UNE CUVE DE STOCKAGE POUR GAZ LIQUEFIE**
[72] LORMIER, FREDERIC, FR
[72] SPITTAEL, LAURENT, FR
[72] BEIRNAERT, PAUL, FR
[72] BONNISSEL, MARC, FR
[72] BRENAC, DAMIEN, FR
[71] GAZTRANSPORT ET TECHNIGAZ, FR
[22] 2021-07-23
[41] 2022-01-24
[30] FR (2007829) 2020-07-24

[21] **3,125,831**
[13] A1
[51] **Int.Cl. A63B 23/02 (2006.01) A63B 21/068 (2006.01) A63B 23/12 (2006.01)**
[25] EN
[54] **EXERCISE EQUIPMENT AND METHOD OF USING THE SAME**
[54] **EQUIPEMENT D'EXERCICE ET METHODE D'UTILISATION**
[72] DUVAS, DOUGLAS B., US
[71] DUVAS, DOUGLAS B., US
[22] 2021-07-23
[41] 2022-01-24
[30] US (63/055,999) 2020-07-24
[30] US (63/084,161) 2020-09-28

[21] **3,125,838**
[13] A1
[51] **Int.Cl. C07C 67/303 (2006.01) C09D 7/63 (2018.01) C08K 5/12 (2006.01) C09J 11/06 (2006.01) C09K 3/10 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING DIALKYL 1,4-CYCLOHEXANEDICARBOXYLATES**
[54] **PROCEDE DE PREPARATION DE 1,4-CYCLOHEXANEDICARBOXYLATES DIALCOYLES**
[72] KRAFT, JOHANNES, DE
[72] ALTMANN, LENA, DE
[72] ANTON, JOHAN, DE
[72] GRASS, MICHAEL, DE
[72] SCHNEIDER, THOMAS, DE
[71] EVONIK OPERATIONS GMBH, DE
[22] 2021-07-23
[41] 2022-01-28
[30] EP (20188048.1) 2020-07-28

[21] **3,125,843**
[13] A1
[51] **Int.Cl. A47K 3/34 (2006.01) E05D 15/06 (2006.01) E06B 3/46 (2006.01)**
[25] EN
[54] **SHOWER DOOR ASSEMBLY**
[54] **ASSEMBLAGE DE PORTE DE DOUCHE**
[72] SIMEK, THOMAS, US
[72] SCHULTZ, NATHANIEL FALTIN DUTTON, US
[71] LIBERTY HARDWARE MFG. CORP., US
[22] 2021-07-23
[41] 2022-01-24
[30] US (63/056,053) 2020-07-24

[21] **3,125,845**
[13] A1
[51] **Int.Cl. G16H 10/60 (2018.01) G10L 15/01 (2013.01) G06F 3/16 (2006.01) G10L 15/06 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VOICE ASSISTANT FOR ELECTRONIC HEALTH RECORDS**
[54] **SYSTEMES ET METHODES D'ASSISTANT VOCAL POUR DES DOSSIERS DE SANTE ELECTRONIQUES**
[72] GANMUKHI, RUSHI, US
[72] BROWNWOOD, DANIEL, US
[72] MALHOTRA, SIDDARTH, US
[72] AMANCO, AUGUSTO, US
[71] BOLA TECHNOLOGIES, INC., US
[22] 2021-07-23
[41] 2022-01-24
[30] US (63/056,258) 2020-07-24

[21] **3,125,847**
[13] A1
[51] **Int.Cl. C07D 231/14 (2006.01)**
[25] EN
[54] **PROCESS FOR MAKING BIOLOGICALLY ACTIVE COMPOUNDS AND INTERMEDIATES THEREOF**
[54] **PROCEDE DE FABRICATION DE COMPOSES BIOLOGIQUEMENT ACTIFS ET D'INTERMEDIAIRES CONNEXES**
[72] MAKRIYANNIS, ALEXANDROS, US
[72] VEMURI, KIRAN, US
[71] MAKSCIENTIFIC, LLC, US
[22] 2021-07-23
[41] 2022-01-27
[30] US (63/056,896) 2020-07-27

[21] **3,125,849**
[13] A1
[51] **Int.Cl. A47D 11/00 (2006.01) A47D 7/01 (2006.01) A47D 13/06 (2006.01) E04H 17/18 (2006.01) F16S 3/08 (2006.01)**
[25] EN
[54] **TRANSFORMABLE PREFABRICATED FENCE**
[54] **CLOTURE PREFABRIQUEE TRANSFORMABLE**
[72] CHOI, JIN HEE, KR
[72] GU, JA HYUNG, KR
[71] GGUMBI CO., LTD., KR
[22] 2021-07-23
[41] 2022-01-28
[30] KR (KR10-2020-0093895) 2020-07-28

[21] **3,125,850**
[13] A1
[51] **Int.Cl. B60R 9/00 (2006.01) B60R 9/06 (2006.01) B60R 9/08 (2006.01)**
[25] EN
[54] **LADDER-MOUNTED FISHING ROD CARRIER FOR RECREATIONAL VEHICLES**
[54] **SUPPORT DE CANNE A PECHE MONTE SUR ECHELLE POUR VEHICULES RECREATIFS**
[72] HEATH, JASON LEE, US
[71] HEATH, JASON LEE, US
[22] 2021-07-23
[41] 2022-01-26
[30] US (63/056.668) 2020-07-26
[30] US (63/164.720) 2021-03-23
[30] US (17/380.427) 2021-07-20

[21] **3,125,860**
[13] A1
[51] **Int.Cl. C25C 7/08 (2006.01)**
[25] EN
[54] **AUTOMATED SYSTEMS, METHODS, TOOLS FOR HARVESTING ELECTRODEPOSITED METALS**
[54] **SYSTEMES AUTOMATISES, METHODES ET OUTILS POUR RECUEILLIR DES METAUX ELECTRODEPOSES**
[72] DUMAIS, ANDRE, CA
[72] BAZINET, PAUL, CA
[72] KEHOE, MICHAEL, CA
[72] MORGAN, CHRIS, CA
[72] EWART, IAN, CA
[72] PATEL, AJAY, CA
[72] GOWER, WILLIAM, CA
[71] IONIC ENGINEERING LIMITED, CA
[71] EMEW CORPORATION, CA
[22] 2021-07-23
[41] 2022-01-27
[30] US (63/056,831) 2020-07-27

[21] **3,125,877**
[13] A1
[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/38 (2006.01)**
[25] FR
[54] **PROCESS AND SYSTEM FOR PRE-PROCESSING GASEOUS WASTE FOR POST-COMBUSTION CO2 CAPTURE**
[54] **PROCEDE ET SYSTEME DE PRETRAITEMENT D'EFFLUENT GAZEUX POUR LE CAPTAGE DE CO2 EN POST COMBUSTION**
[72] GUILLOU, FLORENT, FR
[72] MOROY, BERENICE, FR
[72] SANTOS-MOREAU, VANIA, FR
[71] IFP ENERGIES NOUVELLES, FR
[22] 2021-07-26
[41] 2022-01-29
[30] FR (20/08/002) 2020-07-29

[21] **3,125,881**
[13] A1
[51] **Int.Cl. F25B 1/00 (2006.01) F25B 5/02 (2006.01) F25B 9/08 (2006.01) F25B 41/00 (2021.01)**
[25] EN
[54] **COOLING SYSTEM WITH FLEXIBLE EVAPORATING TEMPERATURE**
[54] **SYSTEME DE REFROIDISSEMENT AVEC TEMPERATURE D'EVAPORATION SOUPLE**
[72] ZHA, SHITONG, US
[71] HEATCRAFT REFRIGERATION PRODUCTS LLC, US
[22] 2021-07-26
[41] 2022-01-27
[30] US (16/939,262) 2020-07-27

[21] **3,125,882**
[13] A1
[51] **Int.Cl. B25F 5/02 (2006.01)**
[25] EN
[54] **POWER TOOL**
[54] **OUTIL ELECTRIQUE**
[72] BENZING, GLENN (DECEASED), US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-07-26
[41] 2022-01-27
[30] US (16/939,432) 2020-07-27

[21] **3,125,954**
[13] A1
[51] **Int.Cl. F21V 21/04 (2006.01) F21V 29/70 (2015.01) H05B 45/30 (2020.01) F21S 8/02 (2006.01) F21V 3/00 (2015.01) F21V 5/04 (2006.01) F21V 7/00 (2006.01) F21V 17/16 (2006.01)**
[25] EN
[54] **LIGHTING MODULE HAVING FIELD-REPLACEABLE OPTICS, IMPROVED COOLING, AND TOOL-LESS MOUNTING FEATURES**
[54] **MODULE D'ECLAIRAGE AYANT DES PIECES OPTIQUES REMPLACABLES SUR PLACE, UN REFROIDISSEMENT AMELIORE ET DES CARACTERISTIQUES D'INSTALLATION SANS OUTILS**
[72] KOPITZKE, FREDERICK WILLIAM, US
[72] GUNSOLLEY, NOLAN, US
[72] LOTFI, AMIR, US
[72] CHEN, BENJAMIN PIN-CHUN, US
[71] DMF, INC., US
[22] 2021-07-23
[41] 2022-01-23
[30] US (63/055,787) 2020-07-23
[30] US (63/076,323) 2020-09-09
[30] US (63/141,340) 2021-01-25
[30] US (63/175,101) 2021-04-15
[30] US (63/188,221) 2021-05-13
[30] US (63/224,469) 2021-07-22

---

[21] **3,125,968**
[13] A1
[51] **Int.Cl. F16S 3/08 (2006.01) F16B 7/00 (2006.01) F16M 11/20 (2006.01) F16S 3/04 (2006.01) E04B 1/343 (2006.01)**
[25] EN
[54] **MODULAR FRAMING SYSTEM**
[54] **SYSTEME DE CADRE MODULAIRE**
[72] PAREJA GARCIA, ANDRES ANTONIO, CA
[71] THRILLER INNOVATIONS INC., CA
[22] 2021-07-23
[41] 2022-01-24
[30] US (63/056,029) 2020-07-24

---

[21] **3,126,027**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/00 (2019.01) G06F 16/16 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING A MINIMAL FORENSIC IMAGE OF A DATASET OF INTEREST**
[54] **SYSTEME ET METHODE POUR GENERER UNE COPIE-IMAGE D'UN ENSEMBLE DE DONNEES D'INTERET**
[72] SALIBA, JAD JOHN, CA
[71] MAGNET FORENSICS INC., CA
[22] 2021-07-26
[41] 2022-01-24
[30] US (63/056,261) 2020-07-24

---

[21] **3,126,029**
[13] A1
[51] **Int.Cl. H04W 52/24 (2009.01) H04W 72/04 (2009.01) H04W 72/12 (2009.01) H04B 17/309 (2015.01)**
[25] EN
[54] **POWER CONTROL IN WIRELESS COMMUNICATIONS**
[54] **CONTROLE DE PUISSANCE DANS LES COMMUNICATIONS SANS FIL**
[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL HEJAZI, US
[72] YI, YUNJUNG, US
[72] ZHOU, HUA, US
[72] PARK, JONGHYUN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-07-23
[41] 2022-01-23
[30] US (63/055,388) 2020-07-23

---

[21] **3,126,030**
[13] A1
[51] **Int.Cl. B65D 81/18 (2006.01)**
[25] EN
[54] **CLIMATE-CONTROLLED CONTAINER SYSTEM**
[54] **SYSTEME DE CONTENANT CLIMATISE**
[72] LAVALLEY, ZACHERY, US
[72] MILLAN, ALFREDO, US
[72] AVALLONE, CURT, US
[71] TAKEOFF TECHNOLOGIES, INC., US
[22] 2021-07-23
[41] 2022-01-24
[30] US (63/056,234) 2020-07-24
[30] US (17/031,000) 2020-09-24

---

[21] **3,126,033**
[13] A1
[51] **Int.Cl. C25B 15/00 (2006.01) C01B 3/00 (2006.01) C25B 1/04 (2021.01) C25B 15/02 (2021.01) F17D 1/04 (2006.01)**
[25] EN
[54] **A METHOD AND APPARATUS FOR GENERATING, STORING AND USING HYDROGEN**
[54] **METHODE ET APPAREIL POUR PRODUIRE, STOCKER ET UTILISER DE L'HYDROGENE**
[72] HIGGINBOTHAM, PAUL, GB
[72] WHITE, VINCE, GB
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2021-07-26
[41] 2022-01-28
[30] EP (20188259.4) 2020-07-28

---

[21] **3,126,049**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 52/18 (2009.01)**
[25] EN
[54] **TRANSMISSION REPETITION FOR WIRELESS COMMUNICATION**
[54] **REPETITION DE TRANSMISSION POUR COMMUNICATION SANS FIL**
[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL HEJAZI, US
[72] YI, YUNJUNG, US
[72] ZHOU, HUA, US
[72] PARK, JONGHYUN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-07-23
[41] 2022-01-24
[30] US (63/056,129) 2020-07-24

---

[21] **3,126,075**
[13] A1
[51] **Int.Cl. B65D 41/34 (2006.01) B65D 55/02 (2006.01)**
[25] EN
[54] **TAMPER EVIDENT CONTAINER CAP METHOD AND APPARATUS**
[54] **METHODE ET APPAREIL DE CAPUCHON DE CONTENANT A ALTERATION EVIDENTE**
[72] YU, DAVID, CA
[71] CAP-THIN MOLDS INC., CA
[22] 2021-07-26
[41] 2022-01-24
[30] US (63/056,086) 2020-07-24

[21] **3,126,091**
[13] A1
[51] **Int.Cl. H04W 28/24 (2009.01) H04W 4/00 (2018.01)**
[25] EN
[54] **ENABLING WIRELESS NETWORK PERSONALIZATION USING ZONE OF TOLERANCE MODELING AND AL-ENABLED OPTIMIZATION**
[54] **PERSONNALISATION DE RESEAU SANS FIL AU MOYEN DE LA MODELISATION DE ZONE DE TOLERANCE ET L'OPTIMISATION AU MOYEN DE L'INTELLIGENCE ARTIFICIELLE**
[72] ALKURD, RAWAN, CA
[72] YANIKOMEROGLU, HALIM, CA
[72] ABU ALHAOL, IBRAHIM, CA
[71] CARLETON UNIVERSITY, CA
[22] 2021-07-27
[41] 2022-01-28
[30] US (63/057,560) 2020-07-28
[30] US (17/188,683) 2021-03-01

[21] **3,126,094**
[13] A1
[51] **Int.Cl. A23C 19/00 (2006.01) A23C 9/142 (2006.01) A23C 9/15 (2006.01) A23C 19/05 (2006.01) A23C 19/068 (2006.01) A23C 19/09 (2006.01)**
[25] EN
[54] **NATURAL CHEESE AND METHOD FOR MAKING NATURAL CHEESE WITH SPECIFIC TEXTURE ATTRIBUTES**
[54] **FROMAGE NATUREL ET METHODE DE FABRICATION DE FROMAGE NATUREL A CARACTERISTIQUES DE TEXTURE PRECISES**
[72] SAINANI, MIHIR, US
[72] SHAH, KARTIK, US
[72] DUSTERHOFT, EVA-MARIA, NL
[72] ENGELS, WILLEM JOHANNES MARIA, NL
[71] SARGENTO FOODS INC., US
[22] 2021-07-27
[41] 2022-01-27
[30] US (63/056,821) 2020-07-27

[21] **3,126,103**
[13] A1
[51] **Int.Cl. F24F 13/22 (2006.01)**
[25] EN
[54] **NEGATIVE PRESSURE CONDENSATE DRAIN SYSTEM**
[54] **SYSTEME DE VIDANGE DE CONDENSAT A PRESSION NEGATIVE**
[72] TSAO, HAN-CHUAN, US
[72] GEHL, MATTHEW, US
[71] RESEARCH PRODUCTS CORPORATION, US
[22] 2021-07-27
[41] 2022-01-27
[30] US (63/056,844) 2020-07-27
[30] US (17/341,734) 2021-06-08

[21] **3,126,104**
[13] A1
[51] **Int.Cl. A23C 19/00 (2006.01) A23L 27/00 (2016.01) A23C 9/12 (2006.01) A23C 19/032 (2006.01)**
[25] EN
[54] **FLAVOR FERMENT TO PRODUCE NATURAL CHEESE WITH SPECIFIC FLAVOR ATTRIBUTES**
[54] **FERMENT DE SAVEUR POUR PRODUIRE UN FROMAGE NATUREL POSSEDANT DES CARACTERISTIQUES DE SAVEUR PRECISES**
[72] SAINANI, MIHIR, US
[72] SHAH, KARTIK, US
[72] DUSTERHOFT, EVA-MARIA, NL
[72] ENGELS, WILLEM JOHANNES MARIA, NL
[71] SARGENTO FOODS INC., US
[22] 2021-07-27
[41] 2022-01-27
[30] US (63/056,821) 2020-07-27

[21] **3,126,116**
[13] A1
[51] **Int.Cl. G01C 21/00 (2006.01) B61L 25/02 (2006.01) G01C 21/30 (2006.01)**
[25] EN
[54] **ROUTE LOCATION MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE D'EMPLACEMENT DE ROUTE**
[72] VRBA, MATTHEW, US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[22] 2021-07-27
[41] 2022-01-27
[30] US (63/056,846) 2020-07-27

[21] **3,126,118**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01) B60W 40/02 (2006.01) B60W 40/06 (2012.01) B61L 23/04 (2006.01)**
[25] EN
[54] **VEHICLE MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE VEHICULE**
[72] VRBA, MATTHEW, US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[22] 2021-07-27
[41] 2022-01-27
[30] US (63/056,874) 2020-07-27

[21] **3,126,129**
[13] A1
[51] **Int.Cl. E04H 15/06 (2006.01) B60J 11/04 (2006.01) B63C 1/08 (2006.01)**
[25] EN
[54] **FOLDABLE CANOPY**
[54] **TOIT-ABRI PLIABLE**
[72] THOMPSON, GENE, US
[72] BASTA, SAMUEL T., US
[71] BASTA IP INC., US
[22] 2021-07-27
[41] 2022-01-28
[30] US (63/057,417) 2020-07-28
[30] US (17/382,883) 2021-07-22

[21] **3,126,232**
[13] A1
[51] **Int.Cl. G01R 33/385 (2006.01) G01R 33/36 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD TO IMPROVE PERFORMANCE OF ASYMMETRICAL GRADIENT COILS BY ALLOWING A UNIFORM OFFSET FIELD**
[54] **SYSTEME ET METHODE POUR AMELIORER LE RENDEMENT DE BOBINES DE GRADIENT ASYMETRIQUES EN PERMETTANT UN CHAMP DE COMPENSATION UNIFORME**
[72] BINDSEIL, GERON ANDRE, CA
[72] CHRONIK, BLAINE ALEXANDER, CA
[72] CONNELL, IAN ROBERT OLIPHANT, CA
[72] CURTIS, ANDREW THOMAS, CA
[72] HANDLER, WILLIAM BRADFIELD, CA
[72] HARRIS, CHAD TYLER, CA
[72] STAINSBY, JEFF ALAN, CA
[72] BEATTY, PHILIP J., CA
[71] SYNAPTIVE MEDICAL INC., CA
[22] 2021-07-29
[41] 2022-01-29
[30] US (16/942,412) 2020-07-29

[21] **3,126,236**
[13] A1
[51] **Int.Cl. G06V 20/56 (2022.01) G01S 17/89 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SENSOR DATA PACKET PROCESSING AND SPATIAL MEMORYUPDATING FOR ROBOTIC PLATFORMS**
[54] **SYSTEMES ET METHODES POUR LE TRAITEMENT DE PAQUETS DE DONNEES DE CAPTEUR ET MISE A JOUR DE MEMOIRE SPATIALE POUR DES PLATEFORMES ROBOTIQUES**
[72] FROSSARD, DAVI EUGENIO NASCIMENTO, US
[72] SUO, SHUN DA, US
[72] CASAS, SERGIO, US
[72] TU, XUANYUAN, US
[72] URTASUN, RAQUEL, US
[71] UATC, LLC, US
[22] 2021-07-28
[41] 2022-01-29
[30] US (63/058.043) 2020-07-29

[21] **3,126,245**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) B25J 9/16 (2006.01) G06F 17/16 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **COMPRESSION OF MACHINE-LEARNED MODELS BY VECTOR QUANTIZATION**
[54] **COMPRESSION DE MODELES PAR APPRENTISSAGE AUTOMATIQUE AU MOYEN DE LA QUANTIFICATION VECTORIELLE**
[72] COVARRUBIAS, JULIETA MARTINEZ, US
[72] SHEWAKRAMANI, JASHAN, US
[72] LIU, TING WEI, US
[72] ZENG, WENYUAN, US
[72] URTASUN, RAQUEL, US
[71] UATC, LLC, US
[22] 2021-07-28
[41] 2022-01-29
[30] US (63/058,041) 2020-07-29

[21] **3,126,248**
[13] A1
[51] **Int.Cl. B60G 17/015 (2006.01)**
[25] EN
[54] **ELECTRONIC SUSPENSION CONTROL SYSTEM FOR A VEHICLE**
[54] **SYSTEME DE COMMANDE DE SUSPENSION ELECTRONIQUE POUR UN VEHICULE**
[72] SCHERBA, JUSTIN PAUL, CA
[72] FENKHUBER, JACK WILLIAM, CA
[72] HECKRODT, LUKE WILFRED, CA
[71] VALID MANUFACTURING LTD., CA
[22] 2021-07-29
[41] 2022-01-29
[30] US (63/057,997) 2020-07-29
[30] CA (3,088,369) 2020-07-29

[21] **3,126,250**
[13] A1
[51] **Int.Cl. G06V 20/00 (2022.01) G06N 20/00 (2019.01) G16Z 99/00 (2019.01) G06V 20/56 (2022.01)**
[25] EN
[54] **RECOVERING AND SIMULATING PEDESTRIANS IN THE WILD**
[54] **RECUPERATION ET SIMULATION DE PIETONS DANS LA NATURE**
[72] YANG, ZE, US
[72] MANIVASAGAM, SIVABALAN, US
[72] LIANG, MING, US
[72] MA, WEI-CHIU, US
[72] YANG, BIN, US
[72] URTASUN, RAQUEL, US
[71] UATC, LLC, US
[22] 2021-07-28
[41] 2022-01-29
[30] US (63/058,052) 2020-07-29

[21] **3,126,253**
[13] A1
[51] **Int.Cl. F24F 13/06 (2006.01) F24F 9/00 (2006.01)**
[25] EN
[54] **VERTICAL VENTILATION DIFFUSER SYSTEM TO REDUCE TRANSMISSION OF AIRBORNE PARTICLES**
[54] **SYSTEME DE DIFFUSEUR DE VENTILATION VERTICALE POUR REDUIRE LA TRANSMISSION DE PARTICULES EN SUSPENSION DANS L'AIR**
[72] ATATEKIN, IRFAN SAIM, CA
[71] ATATEKIN, IRFAN SAIM, CA
[22] 2021-07-29
[41] 2022-01-29
[30] US (63/058,201) 2020-07-29

[21] **3,126,263**
[13] A1
[51] **Int.Cl. B65B 1/32 (2006.01) A24C 5/06 (2006.01) B65B 1/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONE AND/OR TUBE LOADING, FILLING, SEALING, AND/OR WEIGHING**
[54] **SYSTEMES ET METHODES POUR CHARGEMENT, REMPLISSAGE, SCELLAGE ET/OU PESAGE DE CONE ET/OU DE TUBE**
[72] CHEMPINSKY, VICTOR, ID
[72] BARSUKOVA, OLEKSANDRA, ID
[72] BOHUN, KONSTANTIN, ID
[72] BOHUN, NIKOLAI, ID
[71] CHEMPINSKY, VICTOR, ID
[71] BARSUKOVA, OLEKSANDRA, ID
[71] BOHUN, KONSTANTIN, ID
[71] BOHUN, NIKOLAI, ID
[22] 2021-07-27
[41] 2022-01-27
[30] US (63/057022) 2020-07-27

[21] **3,126,362**
[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01) G06Q 10/10 (2012.01)**
[25] EN
[54] **SYSTEM PERMISSION MANAGEMENT METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE GESTION DES PERMISSIONS DE SYSTEME, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] ZHANG, LI, CN
[72] CHEN, DONG, CN
[72] LI, NING, CN
[72] XING, YANG, CN
[72] WANG, JUNWEI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-07-28
[41] 2022-01-28
[30] CN (202010737964.X) 2020-07-28

[21] **3,126,363**
[13] A1
[51] **Int.Cl. H04L 51/21 (2022.01)**
[25] EN
[54] **MESSAGE DATA PROCESSING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE TRAITEMENT DES DONNEES DE MESSAGE, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] XING, PENGGONG, CN
[72] XU, LEI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-07-28
[41] 2022-01-28
[30] CN (202010737982.8) 2020-07-28

[21] **3,126,478**
[13] A1
[51] **Int.Cl. A61B 6/03 (2006.01) A61B 90/00 (2016.01) A61B 5/055 (2006.01)**
[25] EN
[54] **MRI-CT SYSTEM AND METHODS FOR SEQUENTIALLY IMAGING**
[54] **SYSTEME ET METHODES D'IMAGERIE PAR RESONANCE MAGNETIQUE ET DE TOMODENSITOMETRIE POUR UNE IMAGERIE SEQUENTIELLE**
[72] PANTHER, ALEXANDER GYLES, CA
[72] BINDSEIL, GERON ANDRE, CA
[71] SYNAPTIVE MEDICAL INC., CA
[22] 2021-07-29
[41] 2022-01-29
[30] US (63/057,979) 2020-07-29

[21] **3,126,494**
[13] A1
[51] **Int.Cl. G01M 13/003 (2019.01) B24C 7/00 (2006.01) B24C 9/00 (2006.01)**
[25] EN
[54] **CONTAMINATION TEST RIG**
[54] **INSTALLATION D'ESSAIS DE MIGRATION**
[72] HOLDMEYER, EMILY, US
[72] CROOK, BRUCE, US
[71] ROLLS-ROYCE CORPORATION, US
[22] 2021-07-29
[41] 2022-01-29
[30] US (63/057991) 2020-07-29
[30] US (17/012416) 2020-09-04

[21] **3,126,538**
[13] A1
[51] **Int.Cl. G06Q 50/06 (2012.01) H04L 12/16 (2006.01)**
[25] EN
[54] **METHODS OF ALLOCATING ENERGY GENERATED BY A COMMUNITY SOLAR ENERGY SYSTEM**
[54] **METHODES D'ATTRIBUTION D'ENERGIE GENEREE PAR UN SYSTEME D'ENERGIE SOLAIRE COMMUNAUTAIRE**
[72] THEISS, KATHERINE, US
[72] MADDOX, LINDSEY, US
[72] YESBECK, JAKE, US
[72] PARKER, DANIEL, US
[72] HE, ANGELA, US
[72] GAMORAN, JOEL, US
[72] BAILEY, MATTHEW, US
[71] ARCADIA POWER INC., US
[22] 2021-07-29
[41] 2022-01-29
[30] US (16/942045) 2020-07-29

[21] **3,126,539**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **CONTROL CHANNEL REPETITION USING MULTIPLE CORESETS**
[54] **REPETITION DE CHAINE DE COMMANDE AU MOYEN DE MULTIPLES ENSEMBLES PRINCIPAUX**
[72] YI, YUNJUNG, US
[72] DINAN, ESMAEL HEJAZI, US
[72] CIRIK, ALI CAGATAY, US
[72] ZHOU, HUA, US
[72] PARK, JONGHYUN, US
[72] JEON, HYOUNGSUK, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-07-28
[41] 2022-01-28
[30] US (63/057,698) 2020-07-28

[21] **3,140,711**
[13] A1
[51] **Int.Cl. H05B 45/345 (2020.01) F21S 4/10 (2016.01) H05B 45/37 (2020.01) F21V 23/02 (2006.01)**
[25] EN
[54] **LIGHT STRING WITH CONSTANT-CURRENT RECTIFICATION**
[54] **BANDE DE LUMIERE AVEC REDRESSEMENT DE COURANT CONSTANT**
[72] LIN, XIONGZHONG, CN
[72] WANG, BIHAI, CN
[72] LIU, YAO, CN
[71] ZHANGZHOU GO WIN LIGHTING CO., LTD, CN
[22] 2021-11-29
[41] 2022-01-24
[30] CN (202122704575.X) 2021-11-05

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,096,452**
[13] A1
[51] **Int.Cl. G06T 9/00 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL DATA ENCODING METHOD, THREE-DIMENSIONAL DATA DECODING METHOD, THREE-DIMENSIONAL DATA ENCODING DEVICE, AND THREE-DIMENSIONAL DATA DECODING DEVICE**
[54] **PROCEDE DE CODAGE DE DONNEES TRIDIMENSIONNELLES, PROCEDE DE DECODAGE DE DONNEES TRIDIMENSIONNELLES, DISPOSITIF DE CODAGE DE DONNEES TRIDIMENSIONNELLES ET DISPOSITIF DE DECODAGE DE DONNEES TRIDIMENSIONNELLES**
[72] SUGIO, TOSHIYASU, JP
[72] WANG, CHI, SG
[72] LASANG, PONGSAK, SG
[72] HAN, CHUNG DEAN, SG
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
[85] 2020-10-07
[86] 2019-04-18 (PCT/JP2019/016581)
[87] (WO2019/203297)
[30] US (62/660,017) 2018-04-19

[21] **3,116,533**
[13] A1
[51] **Int.Cl. A61K 31/351 (2006.01) A61K 9/20 (2006.01) A61K 31/047 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CHRONIC KIDNEY DISEASE WITH DAPAGLIFLOZIN**
[54] **METHODES DE TRAITEMENT DE LA NEPHROPATHIE CHRONIQUE AU MOYEN DE LA DAPAGLIFLOZINE**
[72] LANGKILDE, ANNA MARIA, SE
[71] ASTRAZENECA AB, SE
[85] 2021-04-27
[86] 2021-04-01 (PCT/EP2021/058727)
[87] (3116533)
[30] US (63/057,139) 2020-07-27
[30] US (63/070,869) 2020-08-27
[30] US (63/082,524) 2020-09-24
[30] US (63/093,961) 2020-10-20
[30] US (63/119,711) 2020-12-01
[30] US (63/152,445) 2021-02-23
[30] US (63/161,629) 2021-03-16

[21] **3,124,363**
[13] A1
[51] **Int.Cl. A46B 17/00 (2006.01) A46B 15/00 (2006.01) A47G 29/08 (2006.01) A47K 11/10 (2006.01) F16M 13/00 (2006.01)**
[25] EN
[54] **TOILET BRUSH HOLDER**
[54] **PORTE-BROSSE A TOILETTE**
[72] WANG, YONGDONG, CN
[71] NINGBO SHIJIA CLEANING TOOLS CO., LTD, CN
[85] 2021-07-13
[86] 2021-02-10 (PCT/CN2021/076517)
[87] (3124363)
[30] CN (2020214833524) 2020-07-24

[21] **3,125,746**
[13] A1
[51] **Int.Cl. A23G 9/50 (2006.01) A21D 13/45 (2017.01)**
[25] EN
[54] **HIGH PROTEIN FROZEN FOOD PRODUCT AND METHOD**
[54] **PRODUIT ALIMENTAIRE CONGELE A HAUTE TENEUR EN PROTEINES ET PROCEDE**
[72] MCGEE, ALLEN, US
[72] ALVAREZ, PEDRO, US
[71] KELLOGG COMPANY, US
[85] 2021-07-05
[86] 2020-01-02 (PCT/US2020/012029)
[87] (WO2020/146184)
[30] US (62/789,822) 2019-01-08

[21] **3,128,513**
[13] A1
[51] **Int.Cl. G01R 31/54 (2020.01) G01R 31/58 (2020.01) H02H 5/10 (2006.01)**
[25] FR
[54] **ELECTRICAL INSTALLATION COMPRISING A MONITORING MODULE**
[54] **INSTALLATION ELECTRIQUE COMPORTANT UN MODULE DE SURVEILLANCE**
[72] CARTON, HERVE, FR
[72] STEMMELEN, THOMAS, FR
[72] CLEMENSON, LOIC, FR
[71] CROUZET AUTOMATISMES, FR
[85] 2021-08-24
[86] 2020-02-21 (PCT/FR2020/050332)
[87] (WO2020/183084)
[30] FR (1902473) 2019-03-11

[21] **3,131,001**
[13] A1
[51] **Int.Cl. B66B 7/12 (2006.01)**
[25] EN
[54] **METHOD FOR RETRIEVING A MOBILE PLARFORM FROM A TANK HAVING ENERGETIC SUBSTANCES**
[54] **METHODE POUR RECUPERER UNE PLATEFORME MOBILE D'UN RESERVOIR CONTENANT DES SUBSTANCES ENERGETIQUES**
[72] MEYERS, JULIAN W., US
[71] TANKBOTS, INC., US
[85] 2021-12-07
[86] 2020-06-12 (PCT/US2020/037475)
[87] (WO2021/251983)

---

[21] **3,131,281**
[13] A1
[51] **Int.Cl. A63B 43/00 (2006.01) A63B 37/00 (2006.01) A63B 69/36 (2006.01)**
[25] EN
[54] **MARK BALL SPECIAL FOR GOLF HIGH-SPEED CAMERA SENSOR**
[54] **MARQUAGE DE BALLE SPECIAL POUR LE CAPTEUR D'UNE CAMERA ULTRA-RAPIDE DE GOLF**
[72] WANG, JI JUN, CN
[72] WANG, QING HUA, CN
[71] SHENZHEN GREENJOY TECHNOLOGY CO., LTD., CN
[85] 2021-09-17
[86] 2020-11-25 (PCT/CN2020/131289)
[87] (3131281)
[30] CN (202010741630.X) 2020-07-29

---

[21] **3,137,878**
[13] A1
[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/19 (2006.01) A61Q 1/02 (2006.01) A61Q 15/00 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **DEODORANT COSMETIC PRODUCT**
[54] **PRODUIT COSMETIQUE DEODORANT**
[72] DEOL, SHARANJIT KAUR, US
[72] ROBINSON, RON, US
[72] BOHM, PETER, US
[71] JOBAN BEAUTY, INC., US
[85] 2021-10-22
[86] 2020-04-22 (PCT/US2020/029361)
[87] (WO2020/219576)
[30] US (62/836,808) 2019-04-22
[30] US (62/879,503) 2019-07-28
[30] US (62/914,001) 2019-10-11

---

[21] **3,137,880**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING IMAGES TO PREPARE SLIDES FOR PROCESSED IMAGES FOR DIGITAL PATHOLOGY**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'IMAGES VISANT A PREPARER DES LAMES POUR DES IMAGES TRAITEES POUR UNE PATHOLOGIE NUMERIQUE**
[72] CEBALLOS LENTINI, RODRIGO, US
[72] KANAN, CHRISTOPHER, US
[72] RACITI, PATRICIA, US
[72] GRADY, LEO, US
[72] FUCHS, THOMAS, US
[71] PAIGE.AI, INC., US
[85] 2021-11-12
[86] 2020-05-27 (PCT/US2020/034737)
[87] (WO2020/243193)
[30] US (62/853,383) 2019-05-28

---

[21] **3,137,882**
[13] A1
[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/00 (2006.01) A61P 25/00 (2006.01) A61P 25/02 (2006.01) A61P 25/28 (2006.01) C07K 16/18 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-TDP-43 BINDING MOLECULES AND USES THEREOF**
[54] **MOLECULES DE LIAISON ANTI-TDP-43 ET LEURS UTILISATIONS**
[72] SEREDENINA, TAMARA, CH
[72] ZIEHM, TAMAR MAGDALENA, CH
[72] AFROZ, TARIQ, CH
[71] AC IMMUNE SA, CH
[85] 2021-11-12
[86] 2020-05-22 (PCT/EP2020/064335)
[87] (WO2020/234473)
[30] EP (19176314.3) 2019-05-23
[30] EP (19195916.2) 2019-09-06
[30] EP (19207839.2) 2019-11-07
[30] EP (20161060.7) 2020-03-04

---

[21] **3,137,887**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01)**
[25] EN
[54] **INHIBITOR CONTAINING BICYCLIC DERIVATIVE, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **INHIBITEUR CONTENANT UN DERIVE BICYCLIQUE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] SU, YIDONG, CN
[72] WANG, JUN, CN
[72] BAO, RUDI, CN
[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN
[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2021-11-12
[86] 2020-05-14 (PCT/CN2020/090142)
[87] (WO2020/228756)
[30] CN (201910400013.0) 2019-05-14
[30] CN (201910615987.0) 2019-07-09
[30] CN (201910816375.8) 2019-08-30
[30] CN (201910895078.7) 2019-09-20
[30] CN (202010177893.2) 2020-03-13

[21] **3,137,888**
[13] A1
[51] **Int.Cl. C04B 28/02 (2006.01) C04B 28/04 (2006.01) C04B 28/06 (2006.01) C04B 28/14 (2006.01) C04B 28/18 (2006.01) C04B 28/24 (2006.01)**
[25] EN
[54] **AEROGEL- AND/OR XEROGEL-BASED MASS FOR ADVANCED MANUFACTURING AND USE THEREOF**
[54] **MASSE A BASE D'AEROGEL ET/OU DE XEROGEL POUR FABRICATION AVANCEE ET SON UTILISATION**
[72] SANZ PONT, DANIEL, CH
[72] FLATT, ROBERT, CH
[71] ETH ZUERICH, CH
[85] 2021-11-12
[86] 2020-02-05 (PCT/EP2020/052861)
[87] (WO2020/228998)
[30] EP (19174367.3) 2019-05-14

[21] **3,138,015**
[13] A1
[51] **Int.Cl. G06Q 10/10 (2012.01) G16B 35/00 (2019.01) G16B 50/00 (2019.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD FOR COLLABORATIVE DEVELOPMENT OF REAGENTS FOR DETECTION OF TARGET NUCLEIC ACIDS**
[54] **PROCEDE MIS EN ?UVRE PAR ORDINATEUR PERMETTANT LA FABRICATION COLLABORATIVE DE REACTIFS DE DETECTION D'ACIDES NUCLEIQUES CIBLES**
[72] CHUN, JONG YOON, KR
[72] LEE, DAE HOON, KR
[72] KIM, YUN JEE, KR
[72] CHOI, YOUN CHUL, KR
[72] KIM, YOUNG WOOK, KR
[71] SEEGENE, INC., KR
[85] 2021-11-15
[86] 2020-06-12 (PCT/KR2020/007664)
[87] (WO2020/251306)
[30] KR (10-2019-0070900) 2019-06-14
[30] KR (10-2019-0177063) 2019-12-27

[21] **3,138,024**
[13] A1
[51] **Int.Cl. A61C 15/04 (2006.01)**
[25] EN
[54] **DENTAL FLOSS DISPENSER**
[54] **DISTRIBUTEUR DE FIL DENTAIRE**
[72] CULLY, EDWARD H., US
[72] SCOTTI, CHRISTINE M., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2021-11-15
[86] 2019-06-12 (PCT/US2019/036807)
[87] (WO2020/251570)

[21] **3,138,033**
[13] A1
[51] **Int.Cl. A23J 1/14 (2006.01) A23J 3/14 (2006.01) A23J 3/34 (2006.01)**
[25] EN
[54] **PLANT-BASED PROTEIN MIXTURES AND NUTRITIONAL COMPOSITIONS**
[54] **MELANGES DE PROTEINES A BASE DE PLANTES ET COMPOSITIONS NUTRITIONNELLES**
[72] BOLSTER, DOUGLAS, US
[72] BRENNAN, JESSICA, US
[72] KEERATI-U-RAI, MANEEPHAN, US
[72] YIN, HUAIXIA, US
[71] WHITEWAVE SERVICES INC., US
[85] 2021-11-15
[86] 2020-06-05 (PCT/US2020/036328)
[87] (WO2020/247753)
[30] US (62/858,458) 2019-06-07

[21] **3,138,048**
[13] A1
[51] **Int.Cl. A61L 2/20 (2006.01) A61B 5/1486 (2006.01) C12Q 1/26 (2006.01) G01N 27/327 (2006.01)**
[25] EN
[54] **STABILIZED MEDICAL DEVICE AND METHOD FOR MAKING IT**
[54] **DISPOSITIF MEDICAL STABILISE ET SON PROCEDE DE FABRICATION**
[72] CLEEK, ROBERT L., US
[72] TRAYLOR, PETER D., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2021-11-15
[86] 2020-05-22 (PCT/US2020/034279)
[87] (WO2020/242967)
[30] US (62/853,499) 2019-05-28

[21] **3,138,058**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01)**
[25] EN
[54] **MCL-1 INHIBITOR ANTIBODY-DRUG CONJUGATES AND METHODS OF USE**
[54] **CONJUGUES ANTICORPS-MEDICAMENT INHIBITEURS DE MCL-1 ET PROCEDES D'UTILISATION**
[72] BURGER, MATTHEW T., US
[72] CHANRION, MAIA, FR
[72] COLLAND, FREDERIC, FR
[72] CSEKEI, MARTON, HU
[72] DELACOUR, LEA, LU
[72] DESOS, PATRICE, FR
[72] GENESTE, OLIVIER, FR
[72] HENLIN, JEAN-MICHEL, FR
[72] KOSTOVA, VESELA, FR
[72] KOTSCHY, ANDRAS, HU
[72] MARAGNO, ANA LETICIA, FR
[72] MCNEILL, ERIC, US
[72] PALERMO, MARK G., US
[72] ROCCHETTI, FRANCESCA, FR
[72] STARCK, JEROME, FR
[72] YU, BING, US
[72] ZHANG, QIANG, US
[72] PROSZENYAK, AGNES, HU
[72] SIPOS, SZABOLCS, HU
[72] CHEN, ZHUOLIANG, US
[72] NAKAJIMA, KATSUMASA, US
[72] D'ALESSIO, JOSEPH ANTHONY, US
[71] NOVARTIS AG, CH
[71] LES LABORATOIRES SERVIER, FR
[85] 2021-11-15
[86] 2020-05-19 (PCT/US2020/033615)
[87] (WO2020/236825)
[30] US (62/850,098) 2019-05-20

[21] **3,138,080**
[13] A1
[51] **Int.Cl. A61K 31/454 (2006.01) A61K 9/00 (2006.01) A61K 45/06 (2006.01) A61P 9/00 (2006.01) A61P 9/04 (2006.01)**
[25] EN
[54] **TREATMENT OF SYSTOLIC DYSFUNCTION AND HEART FAILURE WITH REDUCED EJECTION FRACTION WITH THE COMPOUND(R)-4-(1-((3-(DIFLUOROMETHYL)-1-METHYL-1H-PYRAZOL-4-YL)SULFONYL)-1-FLUOROETHYL) N-(ISOXAZOL-3-YL)PIPERIDINE-1-CARBOXAMID**
[54] **TRAITEMENT D'UN DYSFONCTIONNEMENT SYSTOLIQUE ET D'UNE INSUFFISANCE CARDIAQUE AVEC UNE FRACTION D'EJECTION REDUITE A L'AIDE DU COMPOSE (R)-4-(1-((3-(DIFLUOROMETHYL))PIPERAZIN-1-MET YL-1H-PYRAZOL-4-YL) SULFONYL)-1-FLUOROETHYL)-N- (ISOXAZOL-3-YL)PIPERIDINE-1-CARBOXAMID**
[72] TAMBY, JEAN-FRANCOIS, US
[72] YANG, CHUN, US
[72] CARLSON, TIMOTHY, US
[71] MYOKARDIA, INC., US
[85] 2021-11-15
[86] 2020-05-18 (PCT/US2020/033438)
[87] (WO2020/236736)
[30] US (62/849,936) 2019-05-19
[30] US (62/852,739) 2019-05-24

[21] **3,138,086**
[13] A1
[51] **Int.Cl. C07F 5/02 (2006.01)**
[25] EN
[54] **BORONIC ESTER PRODRUGS AND USES THEREOF**
[54] **PROMEDICAMENTS D'ESTER BORONIQUE ET LEURS UTILISATIONS**
[72] GHOROGHCHIAN, PAIMAN, US
[72] JIANG, YIVAN, US
[72] NGUYEN, HUNG VANTHANH, US
[72] GHOBRIAL, IRENE, US
[72] DETAPPE, ALEXANDRE, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2021-11-15
[86] 2020-03-20 (PCT/US2020/023836)
[87] (WO2020/236253)
[30] US (62/850,492) 2019-05-20

[21] **3,138,099**
[13] A1
[51] **Int.Cl. B01D 53/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ACETYLENE PURIFICATION**
[54] **SYSTEMES ET PROCEDES POUR LA PURIFICATION D'ACETYLENE**
[72] SANTANA, ALEXANDER OLSON, US
[72] ASHCRAFT, JAMES NATHAN, US
[72] SOANE, DAVID S., US
[71] TRANSFORM MATERIALS LLC, US
[85] 2021-11-15
[86] 2020-05-19 (PCT/US2020/033523)
[87] (WO2020/236774)
[30] US (62/850,233) 2019-05-20

[21] **3,138,114**
[13] A1
[51] **Int.Cl. A61K 31/5415 (2006.01) A61K 31/7068 (2006.01)**
[25] EN
[54] **THIARABINE- AND THIARABINE PRODRUG-BASED TREATMENTS**
[54] **TRAITEMENTS A BASE DE PROMEDICAMENT DE THIARABINE ET DE THIARABINE**
[72] MOUKHA-CHAFIQ, OMAR, US
[72] SUTO, MARK J., US
[72] LIU, JIE, US
[72] BOOHAKER, REBECCA, US
[71] SOUTHERN RESEARCH INSTITUTE, US
[85] 2021-11-15
[86] 2020-06-04 (PCT/US2020/036125)
[87] (WO2020/247633)
[30] US (62/857,686) 2019-06-05

[21] **3,138,145**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **ANTI-ABETA VACCINE THERAPY**
[54] **VACCINOTHERAPIE ANTI-ABETA**
[72] PFEIFER, ANDREA, CH
[72] MUHS, ANDREAS (DECEASED), SZ
[71] AC IMMUNE SA, CH
[85] 2021-11-15
[86] 2020-05-20 (PCT/EP2020/064172)
[87] (WO2020/234405)
[30] EP (19175810.1) 2019-05-21
[30] EP (19185593.1) 2019-07-10
[30] EP (20171549.7) 2020-04-27
[30] EP (20172205.5) 2020-04-29

[21] **3,138,149**
[13] A1
[51] **Int.Cl. C07D 471/14 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **AZEPINES AS HBV CAPSID ASSEMBLY MODULATORS**
[54] **AZEPINES UTILISEES EN TANT QUE MODULATEURS DE L'ASSEMBLAGE DE LA CAPSIDE DU VHB**
[72] KUDUK, SCOTT D., US
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-11-15
[86] 2020-05-27 (PCT/EP2020/064746)
[87] (WO2020/239861)
[30] US (62/853,556) 2019-05-28

[21] **3,138,155**
[13] A1
[51] **Int.Cl. B32B 17/10 (2006.01)**
[25] EN
[54] **POLYMER SAFETY GLAZING FOR VEHICLES**
[54] **VITRAGE DE SECURITE POLYMERE POUR VEHICULES**
[72] WILSON, BART E., US
[71] RACING OPTICS, INC., US
[85] 2021-11-15
[86] 2020-03-25 (PCT/US2020/024639)
[87] (WO2020/236306)
[30] US (62/850,966) 2019-05-21
[30] US (16/819,526) 2020-03-16

[21] **3,138,159**
[13] A1
[51] **Int.Cl. C07D 471/14 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **DI-FLUORO AZEPANES AS HBV CAPSID ASSEMBLY MODULATORS**
[54] **AZEPANES DI-FLUORES EN TANT QUE MODULATEURS DE L'ASSEMBLAGE DE LA CAPSIDE DU VHB**
[72] KUDUK, SCOTT D., US
[72] DERATT, LINDSEY GRAHAM, US
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-11-15
[86] 2020-05-27 (PCT/EP2020/064747)
[87] (WO2020/239862)
[30] US (62/853554) 2019-05-28

[21] **3,138,161**
[13] A1
[51] **Int.Cl. B22F 1/12 (2022.01) B22F 1/05 (2022.01) B22F 1/10 (2022.01) C22C 33/02 (2006.01) C22C 38/16 (2006.01) B22F 3/00 (2021.01)**
[25] EN
[54] **IRON-BASED ALLOY SINTERED BODY AND IRON-BASED MIXED POWDER FOR POWDER METALLURGY**
[54] **CORPS FRITTE EN ALLIAGE A BASE DE FER ET POUDRE MIXTE A BASE DE FER POUR METALLURGIE DES POUDRES**
[72] NASU, NAO, JP
[72] TAKASHITA, TAKUYA, JP
[72] KOBAYASHI, AKIO, JP
[71] JFE STEEL CORPORATION, JP
[85] 2021-11-15
[86] 2020-04-10 (PCT/JP2020/016187)
[87] (WO2020/241087)
[30] JP (2019-097928) 2019-05-24

[21] **3,138,162**
[13] A1
[51] **Int.Cl. H01M 4/131 (2010.01) H01M 4/485 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/0525 (2010.01) H01M 10/054 (2010.01) H01M 10/056 (2010.01)**
[25] FR
[54] **ELECTRODE MATERIALS COMPRISING A LAYERED OXIDE THAT CONTAINS POTASSIUM AND A METAL, ELECTRODES COMPRISING SAID MATERIALS AND USE THEREOF IN ELECTROCHEMISTRY**
[54] **MATERIAUX D'ELECTRODE COMPRENANT UN OXYDE LAMELLAIRE DE POTASSIUM ET DE METAL, ELECTRODES LES COMPRENANT ET LEUR UTILISATION EN ELECTROCHIMIE**
[72] WANG, YUESHENG, CA
[72] GUERFI, ABDELBAST, CA
[72] GIRARD, MARC-ANDRE, CA
[72] ZAGHIB, KARIM, CA
[71] HYDRO-QUEBEC, CA
[85] 2021-11-15
[86] 2020-05-29 (PCT/CA2020/050735)
[87] (WO2020/237386)
[30] US (62/855,537) 2019-05-31

[21] **3,138,163**
[13] A1
[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/5517 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **FUSED HETEROCYCLIC DERIVATIVES AS ANTIVIRAL AGENTS**
[54] **DERIVES HETEROCYCLIQUES FUSIONNES UTILISES COMME AGENTS ANTIVIRAUX**
[72] DERATT, LINDSEY GRAHAM, US
[72] WANG, CHAO-YUAN, US
[72] BERKE, JAN MARTIN, BE
[72] KUDUK, SCOTT D., US
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-11-15
[86] 2020-05-27 (PCT/US2020/034654)
[87] (WO2020/243142)
[30] EP (19176954.6) 2019-05-28
[30] US (62/853,554) 2019-05-28

[21] **3,138,166**
[13] A1
[51] **Int.Cl. C07D 413/10 (2006.01) A01N 43/80 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOUNDS**
[54] **COMPOSES HERBICIDES**
[72] WHITTINGHAM, WILLIAM GUY, GB
[72] WILLIAMS, JOHN, GB
[72] MATHEWS, CHRISTOPHER JOHN, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2021-11-15
[86] 2020-05-21 (PCT/EP2020/064212)
[87] (WO2020/239607)
[30] GB (1907602.5) 2019-05-29
[30] GB (1914260.3) 2019-10-03
[30] GB (2002209.1) 2020-02-18

[21] **3,138,168**
[13] A1
[51] **Int.Cl. C07D 471/14 (2006.01) A61P 31/12 (2006.01) C07D 498/14 (2006.01)**
[25] EN
[54] **FUSED HETEROCYCLIC DERIVATIVES**
[54] **DERIVES HETEROCYCLIQUES FUSIONNES**
[72] GROSSE, SANDRINE CELINE, BE
[72] DERATT, LINDSEY GRAHAM, US
[72] VANDYCK, KOEN, BE
[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, BE
[72] PIETERS, SERGE MARIA ALOYSIUS, BE
[72] KESTELEYN, BART RUDOLF ROMANIE, BE
[72] VERSCHUEREN, WIM GASTON, BE
[72] BERKE, JAN MARTIN, BE
[72] LECOMTE, MORGAN CHARLES R., BE
[72] MARTINEZ LAMENCA, CAROLINA, BE
[72] JONCKERS, TIM HUGO MARIA, BE
[72] DENG, GANG, CN
[72] JIANG, YIMIN, CN
[72] XU, YANPING, CN
[72] CHENG, ZHANGLING, CN
[72] HU, LILI, BE
[72] KUDUK, SCOTT D., US
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-11-15
[86] 2020-05-27 (PCT/US2020/034643)
[87] (WO2020/243135)
[30] EP (19176933.0) 2019-05-28
[30] US (62/853,533) 2019-05-28
[30] CN (PCT/CN2020/085720) 2020-04-20

[21] **3,138,174**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/145 (2006.01) A61K 39/21 (2006.01) C12N 15/81 (2006.01)**
[25] EN
[54] **YEAST-BASED ORAL VACCINATION**
[54] **VACCINATION PAR VOIE ORALE A BASE DE LEVURES**
[72] O'HAGAN, DAVID JAMES, US
[72] NIKAM, SAVITA SUNIL, US
[72] NEWTON, ROGER S., US
[71] ESPEROVAX INC., US
[85] 2021-11-15
[86] 2020-05-21 (PCT/US2020/034094)
[87] (WO2020/237100)
[30] US (62/850,681) 2019-05-21
[30] US (62/991,536) 2020-03-18

[21] **3,138,259**
[13] A1
[51] **Int.Cl. G06F 30/17 (2020.01) G06F 30/20 (2020.01)**
[25] EN
[54] **METHOD FOR THE LIGHTWEIGHTING AND/OR DESIGNING OF AN ADDITIVELY MANUFACTURED ARTICLE**
[54] **PROCEDE DE PONDERATION ET/OU DE CONCEPTION DE LA LUMIERE D'UN ARTICLE FABRIQUE DE MANIERE ADDITIVE**
[72] WALDVOGEL, CHRISTIAN, CH
[72] BARTSCHI, RALPH, CH
[71] SPHERENE AG, CH
[85] 2021-11-16
[86] 2019-05-16 (PCT/IB2019/054076)
[87] (WO2020/229883)

[21] **3,138,273**
[13] A1
[51] **Int.Cl. H02K 3/28 (2006.01) H02K 3/47 (2006.01)**
[25] EN
[54] **COIL WINDING PATTERN FOR ENHANCED MOTOR EFFICIENCY**
[54] **MOTIF D'ENROULEMENT DE BOBINE POUR AMELIORER L'EFFICACITE D'UN MOTEUR**
[72] WANG, JIMPO, US
[71] ABIOMED, INC., US
[85] 2021-11-16
[86] 2020-05-21 (PCT/US2020/033990)
[87] (WO2020/242881)
[30] US (62/853,999) 2019-05-29

[21] **3,138,277**
[13] A1
[51] **Int.Cl. A61B 6/14 (2006.01) A61B 6/00 (2006.01) A61B 6/02 (2006.01) A61B 6/03 (2006.01)**
[25] EN
[54] **MULTI-MODALITY DENTAL X-RAY IMAGING DEVICES AND METHODS**
[54] **DISPOSITIFS ET PROCEDES D'IMAGERIE RADIOGRAPHIQUE DENTAIRE A MODALITES MULTIPLES**
[72] ZHOU, OTTO Z., US
[72] LU, JIANPING, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2021-11-16
[86] 2020-05-29 (PCT/US2020/035052)
[87] (WO2020/243383)
[30] US (62/854,743) 2019-05-30

[21] **3,138,285**
[13] A1
[51] **Int.Cl. G10L 13/04 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD OF EXTRACTING INFORMATION IN AN IMAGE CONTAINING FILE FOR ENHANCED UTILIZATION AND PRESENTATION**
[54] **SYSTEME ET PROCEDE D'EXTRACTION D'INFORMATIONS DANS UN FICHIER CONTENANT UNE IMAGE POUR UNE UTILISATION ET UNE PRESENTATION AMELIOREES**
[72] LECOUNTE, MALCOLM E., US
[71] LECOUNTE, MALCOLM E., US
[85] 2021-11-16
[86] 2020-05-28 (PCT/US2020/034938)
[87] (WO2020/243314)
[30] US (16/423,785) 2019-05-28

[21] **3,138,287**
[13] A1
[51] **Int.Cl. A23L 19/00 (2016.01) A23L 33/17 (2016.01) A23L 33/22 (2016.01)**
[25] EN
[54] **SIMULATED SHELLFISH PRODUCT OF IMPROVED TEXTURE**
[54] **PRODUIT DE FRUIT DE MER SIMULE A TEXTURE AMELIOREE**
[72] WOLF, MICHELLE, US
[72] ACKILLI, JOSEPH, US
[72] LANIER, TYRE, US
[71] NEW WAVE FOODS, US
[85] 2021-11-16
[86] 2020-05-15 (PCT/US2020/033222)
[87] (WO2020/236632)
[30] US (62/849,484) 2019-05-17

[21] **3,138,292**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 35/51 (2015.01) A61K 35/28 (2015.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR IMPROVING TREATMENT OUTCOMES FOR PATIENTS HAVING HEMATOLOGICAL MALIGNANCIES USING AN EXPANDED STEM CELL PRODUCT**
[54] **COMPOSITIONS ET METHODES POUR AMELIORER LES RESULTATS DE TRAITEMENT DE PATIENTS ATTEINTS DE TUMEURS MALIGNES HEMATOLOGIQUES FAISANT APPEL A UN PRODUIT DE CELLULES SOUCHES AMPLIFIE**
[72] DELANEY, COLLEEN, US
[71] DEVERRA THERAPEUTICS INC., US
[85] 2021-11-16
[86] 2020-05-15 (PCT/US2020/033182)
[87] (WO2020/236612)
[30] US (62/849,588) 2019-05-17
[30] US (62/852,147) 2019-05-23

[21] **3,138,296**
[13] A1
[51] **Int.Cl. A61L 27/36 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **METHOD FOR PREVENTING THE FORMATION OF CALCIFIED DEPOSITS AND FOR INACTIVATING XENOANTIGENS IN BIOLOGICAL MATRICES**
[54] **PROCEDE POUR EMPECHER LA FORMATION DE DEPOTS CALCIFIES ET POUR INACTIVER DES XENOANTIGENES DANS DES MATRICES BIOLOGIQUES**
[72] NASO, FILIPPO, IT
[72] GANDAGLIA, ALESSANDRO, IT
[71] BIOCOMPATIBILITY INNOVATION SRL, IT
[85] 2021-11-16
[86] 2020-05-22 (PCT/IB2020/054885)
[87] (WO2020/234845)
[30] IT (102019000007094) 2019-05-22

[21] **3,138,305**
[13] A1
[51] **Int.Cl. A61M 39/06 (2006.01) A61M 25/00 (2006.01) A61M 39/04 (2006.01) A61M 39/22 (2006.01)**
[25] EN
[54] **CATHETER ASSEMBLY HAVING AN INJECTION PORT AND RELATED METHODS**
[54] **ENSEMBLE CATHETER PRESENTANT UN ORIFICE D'INJECTION ET PROCEDES ASSOCIES**
[72] CHENG, KIAT JIN, SG
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-11-16
[86] 2020-05-21 (PCT/US2020/033971)
[87] (WO2020/242878)
[30] US (62/854,123) 2019-05-29
[30] US (16/878,359) 2020-05-19

[21] **3,138,313**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01) G16H 20/10 (2018.01) G16H 20/13 (2018.01) G16H 20/17 (2018.01)**
[25] EN
[54] **SYSTEMS, APPARATUSES AND METHODS FOR CAPTURING IMAGES OF MEDICAL CONDITION MANAGEMENT EVENTS AND RELATED EQUIPMENT WITH SMARTPHONE AND RELATED APP THAT PROCESSES IMAGES TO REDUCE MEDICAL ERRORS**
[54] **SYSTEMES, APPAREILS ET PROCEDES POUR CAPTURER DES IMAGES D'EVENEMENTS DE GESTION DE PATHOLOGIE ET EQUIPEMENT ASSOCIE AVEC UN TELEPHONE INTELLIGENT ET APPLICATION ASSOCIEE QUI TRA TE DES IMAGES POUR REDUIRE DES ERREURS MEDICALE**
[72] LIMAYE, AMIT UDAY, US
[72] TAM, ELAINE, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-11-16
[86] 2020-05-28 (PCT/US2020/034815)
[87] (WO2020/243230)
[30] US (62/855,531) 2019-05-31
[30] US (16/883,611) 2020-05-26

[21] **3,138,323**
[13] A1
[51] **Int.Cl. C08G 59/10 (2006.01) C08G 59/18 (2006.01) C08G 59/40 (2006.01) C08G 59/50 (2006.01)**
[25] EN
[54] **AQUEOUS RESIN DISPERSION AND AQUEOUS COATING COMPOSITION COMPRISING THE RESIN DISPERSION**
[54] **DISPERSION DE RESINE AQUEUSE ET COMPOSITION DE REVETEMENT AQUEUSE COMPRENANT LA DISPERSION DE RESINE**
[72] KUNZE, ANDREAS ARRIAN, DE
[72] SCHOEPS, SIBYLLE, DE
[72] HAMSEN, RENE, DE
[72] BENNING, DIRK, DE
[72] DIEKMANN, HILDEGUND, DE
[72] GEUTING, MARTIN, DE
[72] PRZYBILLA, SILKE, DE
[72] RESSEL, JOERG, DE
[72] RUMP, IGNACIA, DE
[72] SCHEMSCHAT, DAGMAR, DE
[72] THEIL, HUBERT, CN
[72] KONDRAT, ANNA, DE
[72] ROHKAMP, BEATE, DE
[72] TIGGEMANN, MONIKA, DE
[72] WINKLER, THORSTEN, DE
[72] NIENHAUS, EGBERT, DE
[72] GOSHEGER, SVEN, DE
[71] BASF COATINGS GMBH, DE
[85] 2021-11-16
[86] 2020-04-23 (PCT/EP2020/061370)
[87] (WO2020/233939)
[30] EP (19176217.8) 2019-05-23

[21] **3,138,330**
[13] A1
[51] **Int.Cl. A61F 5/02 (2006.01)**
[25] EN
[54] **SPINAL ALIGNMENT COMPONENT**
[54] **COMPOSANT D'ALIGNEMENT VERTEBRAL**
[72] GROSS, MACIEJ, GB
[72] ATKINSON, TOBY, GB
[71] GROSS, MACIEJ, GB
[71] ATKINSON, TOBY, GB
[85] 2021-11-16
[86] 2020-05-18 (PCT/EP2020/063834)
[87] (WO2020/234244)
[30] GB (1907095.2) 2019-05-20

[21] **3,138,331**
[13] A1
[51] **Int.Cl. C10M 111/02 (2006.01) C10M 169/04 (2006.01)**
[25] EN
[54] **PENETRATING OIL AND METHOD FOR PRODUCING THE SAME**
[54] **HUILE PENETRANTE ET SON PROCEDE DE PRODUCTION**
[72] HARTIKAINEN, JUKKA, FI
[72] KARTTUNEN, JOUNI, FI
[72] RAMO, VIRPI, FI
[72] VIRTANEN, JORMA, FI
[71] NESTE OYJ, FI
[85] 2021-11-16
[86] 2019-11-18 (PCT/FI2019/050823)
[87] (WO2020/249846)
[30] FI (20195523) 2019-06-14

[21] **3,138,333**
[13] A1
[51] **Int.Cl. C08G 59/14 (2006.01) C08G 59/18 (2006.01) C08G 59/44 (2006.01) C08J 3/03 (2006.01) C08K 3/20 (2006.01) C08L 63/04 (2006.01)**
[25] EN
[54] **AQUEOUS RESIN DISPERSION AND AQUEOUS COATING COMPOSITION COMPRISING THE RESIN DISPERSION**
[54] **DISPERSION DE RESINE AQUEUSE ET COMPOSITION DE REVETEMENT AQUEUSE COMPRENANT LA DISPERSION DE RESINE**
[72] KUNZE, ANDREAS ARRIAN, DE
[72] SCHOEPS, SIBYLLE, DE
[72] HAMSEN, RENE, DE
[72] BENNING, DIRK, DE
[72] DIEKMANN, HILDEGUND, DE
[72] GEUTING, MARTIN, DE
[72] PRZYBILLA, SILKE, DE
[72] RESSEL, JOERG, DE
[72] RUMP, IGNACIA, DE
[72] SCHEMSCHAT, DAGMAR, DE
[72] THEIL, HUBERT, CN
[72] KONDRAT, ANNA, DE
[72] ROHKAMP, BEATE, DE
[72] TIGGEMANN, MONIKA, DE
[72] WINKLER, THORSTEN, DE
[72] NIENHAUS, EGBERT, DE
[72] GOSHEGER, SVEN, DE
[71] BASF COATINGS GMBH, DE
[85] 2021-11-16
[86] 2020-05-13 (PCT/EP2020/063260)
[87] (WO2020/234066)
[30] EP (19176231.9) 2019-05-23

[21] **3,138,334**
[13] A1
[51] **Int.Cl. F41B 11/00 (2013.01) F41G 11/00 (2006.01)**
[25] EN
[54] **HANDHELD MEASUREMENT, SEARCH AND SAFETY DEVICE**
[54] **DISPOSITIF PORTATIF DE MESURE, DE RECHERCHE ET DE SECURITE**
[72] GEIER, MICHAEL J., US
[71] GEIER, MICHAEL J., US
[85] 2021-11-16
[86] 2020-06-12 (PCT/US2020/037514)
[87] (WO2020/252326)
[30] US (62/861,131) 2019-06-13

[21] **3,138,340**
[13] A1
[51] **Int.Cl. G16H 40/60 (2018.01)**
[25] EN
[54] **INTRA-AORTIC PRESSURE FORECASTING**
[54] **PREVISION DE PRESSION INTRA-AORTIQUE**
[72] KATERJI, AHMAD EL, US
[72] KROEKER, ERIK, US
[72] JORTBERG, ELISE, US
[72] YU, ROSE, US
[72] WANG, RUI, US
[71] ABIOMED, INC., US
[71] NORTHEASTERN UNIVERSITY, US
[85] 2021-11-16
[86] 2020-06-01 (PCT/US2020/070103)
[87] (WO2020/243756)
[30] US (62/855,389) 2019-05-31

[21] **3,138,346**
[13] A1
[51] **Int.Cl. G01N 27/62 (2021.01) G01N 30/02 (2006.01) G01N 30/72 (2006.01) H01J 49/00 (2006.01)**
[25] EN
[54] **MASS SPECTROMETRY ASSAY METHODS FOR DETECTION OF METABOLITES**
[54] **PROCEDES DE DOSAGE PAR SPECTROMETRIE DE MASSE POUR LA DETECTION DE METABOLITES**
[72] ROBINSON, RICHARD J., US
[72] EVANS, ANNE M., US
[72] FREINKMAN, ELIZAVETA, US
[71] METABOLON, INC., US
[85] 2021-11-16
[86] 2020-05-08 (PCT/US2020/031982)
[87] (WO2020/242744)
[30] US (62/855,004) 2019-05-31
[30] US (62/964,683) 2020-01-23

[21] **3,138,347**
[13] A1
[51] **Int.Cl. A24B 15/16 (2020.01) A61K 8/362 (2006.01) A61K 8/49 (2006.01) A61K 31/194 (2006.01) A61K 31/522 (2006.01)**
[25] EN
[54] **DEUTERATED CAFFEINE AND USES THEREOF**
[54] **CAFEINE DEUTEREE ET SES UTILISATIONS**
[72] SIPPY, BRADFORD C., US
[71] LENNHAM PHARMACEUTICALS, INC., US
[85] 2021-11-16
[86] 2020-06-12 (PCT/US2020/037485)
[87] (WO2020/252302)
[30] US (62/861,517) 2019-06-14
[30] US (16/452,316) 2019-06-25
[30] US (16/752,407) 2020-01-24

[21] **3,138,349**
[13] A1
[51] **Int.Cl. C07D 307/94 (2006.01) A61K 31/437 (2006.01) C07D 473/34 (2006.01) C07D 493/04 (2006.01)**
[25] EN
[54] **NOVEL SPIROBICYCLIC INTERMEDIATES**
[54] **NOUVEAUX INTERMEDIAIRES SPIROBICYCLIQUES**
[72] VERHOEVEN, JONAS, BE
[72] BRAMBILLA, MARTA, BE
[72] CHINTA, NAGARAJU, BE
[72] HULLAERT, JAN JULIEN A., BE
[72] JOUFFROY, LUCILE MARGUERITE, BE
[72] MEERPOEL, LIEVEN, BE
[72] NEOUCHY, ZEINA, BE
[72] THURING, JOHANNES WILHELMUS JOHN F., BE
[72] VERNIEST, GUIDO ALFONS F., BE
[72] WINNE, JOHAN MAURITS, BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2021-11-16
[86] 2020-06-11 (PCT/EP2020/066182)
[87] (WO2020/249663)
[30] IN (201911023295) 2019-06-12
[30] EP (19193707.7) 2019-08-27

[21] **3,138,350**
[13] A1
[51] **Int.Cl. G06K 7/10 (2006.01)**
[25] EN
[54] **ARTICLE-IDENTIFICATION AND LOCATION DEVICE SYSTEMS AND METHODS OF USING SAME**
[54] **DISPOSITIF D'IDENTIFICATION ET DE LOCALISATION D'ARTICLE ET SYSTEMES ET PROCEDES D'UTILISATION ASSOCIES**
[72] HILL, EDWARD L., US
[72] XIONG, YIFENG, US
[72] CHAKRAVARTY, NARASIMHACHARY NALLANA, US
[72] MARTEL, BRIAN, US
[72] BUJOLD, MARC, US
[72] BILBREY, BRETT, US
[71] POSITION IMAGING, INC., US
[85] 2021-11-16
[86] 2020-06-03 (PCT/US2020/035897)
[87] (WO2020/247478)
[30] US (62/857,059) 2019-06-04

[21] **3,138,354**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **DETECTION OF COLORECTAL CANCER**
[54] **DETECTION DU CANCER COLORECTAL**
[72] BITENC, MARKO, SI
[72] KRUUSMAA, KRISTI, SI
[72] MARTINEZ-BAREA, JUAN, ES
[72] HENSE, CHRISTIAN, ES
[72] SOLA DE LOS SANTOS, POL, ES
[72] CANAL NOGUER, POL, ES
[72] CHERSICOLA, MARKO, SI
[72] KNAP, PRIMOZ, SI
[71] UNIVERSAL DIAGNOSTICS, S.L., ES
[85] 2021-11-16
[86] 2020-05-28 (PCT/EP2020/064815)
[87] (WO2020/239896)
[30] US (16/428,865) 2019-05-31
[30] US (62/956,059) 2019-12-31

[21] **3,138,355**
[13] A1
[51] **Int.Cl. C07K 7/08 (2006.01) A61K 38/00 (2006.01) A61K 38/04 (2006.01) C07K 7/06 (2006.01) C07K 17/00 (2006.01) C12N 7/02 (2006.01) G01N 33/566 (2006.01) C12Q 1/70 (2006.01)**
[25] EN
[54] **AFFINITY AGENTS**
[54] **AGENTS D'AFFINITE**
[72] DODSON, WILLIAM SCOTT, US
[72] KIER, BRANDON, US
[72] COYLE, BRANDON, US
[72] VALENTINI, SARAH, US
[72] SCANLON, THOMAS, US
[72] KETT, WARREN, US
[71] AVITIDE, INC., US
[85] 2021-11-16
[86] 2020-05-22 (PCT/US2020/034340)
[87] (WO2020/242988)
[30] US (62/852,717) 2019-05-24
[30] US (62/949,878) 2019-12-18

[21] **3,138,356**
[13] A1
[51] **Int.Cl. C10G 70/02 (2006.01) B01J 23/85 (2006.01) B01J 23/92 (2006.01) B01J 23/94 (2006.01) B01J 38/12 (2006.01) B01J 38/62 (2006.01)**
[25] EN
[54] **REACTIVATED HYDROPROCESSING CATALYSTS FOR USE IN SULFUR ABATEMENT**
[54] **CATALYSEURS D'HYDROTRAITEMENT REACTIVES DESTINES A ETRE UTILISES DANS LA REDUCTION DU SOUFRE**
[72] MCHUGH, TERENCE, US
[72] SEAMANS, JAMES, US
[72] VISIOLI, BRIAN, US
[72] KINCANNON, PETTUS, US
[72] THOMPSON, JOHN WESLEY, US
[72] ENDERLIN, ALEXANDER, US
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-11-16
[86] 2020-05-22 (PCT/US2020/034353)
[87] (WO2020/237200)
[30] US (62/852,102) 2019-05-23

[21] **3,138,357**
[13] A1
[51] **Int.Cl. F41B 5/12 (2006.01)**
[25] EN
[54] **CROSSBOW**
[54] **ARBALETE**
[72] TRPKOVSKI, PAUL, US
[71] RAVIN CROSSBOWS, LLC, US
[85] 2021-11-16
[86] 2020-05-15 (PCT/US2020/033214)
[87] (WO2020/236629)
[30] US (62/849,668) 2019-05-17
[30] US (62/850,499) 2019-05-20

[21] **3,138,358**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **DETECTION OF COLORECTAL CANCER**
[54] **DETECTION DU CANCER COLORECTAL**
[72] BITENC, MARKO, SI
[72] KRUUSMAA, KRISTI, SI
[72] MARTINEZ-BAREA, JUAN, ES
[72] HENSE, CHRISTIAN, ES
[72] CHERSICOLA, MARKO, SI
[72] KNAP, PRIMOZ, SI
[71] UNIVERSAL DIAGNOSTICS, S.L., ES
[85] 2021-11-16
[86] 2020-05-28 (PCT/EP2020/064813)
[87] (WO2020/239895)
[30] US (16/428,865) 2019-05-31

[21] **3,138,403**
[13] A1
[51] **Int.Cl. C09K 19/54 (2006.01) G02F 1/1335 (2006.01) H05B 33/14 (2006.01)**
[25] EN
[54] **NARROW EMISSION DYES, COMPOSITIONS COMPRISING SAME, AND METHODS FOR MAKING AND USING SAME**
[54] **COLORANTS A EMISSION ETROITE, COMPOSITIONS CONTENANT CES DERNIERS, ET METHODES DE PRODUCTION ET D'UTILISATION CORRESPONDANTES**
[72] MACNEVIN, CHRISTOPHER J., US
[72] PITNER, JAMES BRUCE, US
[72] CHEN, CHIH-YUAN, US
[71] NIRVANA SCIENCES INC., US
[85] 2021-11-17
[86] 2020-05-19 (PCT/US2020/033606)
[87] (WO2020/236818)
[30] US (62/850,442) 2019-05-20

[21] **3,138,406**
[13] A1
[51] **Int.Cl. C09K 19/54 (2006.01) G02F 1/1335 (2006.01) H05B 33/14 (2006.01)**
[25] EN
[54] **NARROW EMISSION DYES, COMPOSITIONS COMPRISING SAME, AND METHODS FOR MAKING AND USING SAME**
[54] **COLORANTS A EMISSION ETROITE, COMPOSITIONS CONTENANT CES DERNIERS, ET METHODES DE PRODUCTION ET D'UTILISATION CORRESPONDANTES**
[72] MACNEVIN, CHRISTOPHER J., US
[72] CHEN, CHIH-YUAN, US
[71] NIRVANA SCIENCES INC., US
[85] 2021-11-17
[86] 2020-05-19 (PCT/US2020/033627)
[87] (WO2020/236828)
[30] US (62/850,446) 2019-05-20

[21] **3,138,415**
[13] A1
[51] **Int.Cl. A61B 10/00 (2006.01) A61F 9/00 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR BIOLOGICAL SAMPLE COLLECTION**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE COLLECTE D'ECHANTILLONS BIOLOGIQUES**
[72] OJEDA, LAURO V., US
[72] SUNDSTROM, JEFFREY M., US
[72] HOLMER, JUSTIN T., US
[72] CRUZ, ALAN, US
[72] HUANG, MINGHUI, US
[72] BHAMRI, ANANT, US
[72] DEMIRCI, HAKAN, US
[72] GARDNER, THOMAS, US
[72] MILLER, RUSS, US
[72] NGUYEN, PETER, US
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[71] THE PENN STATE RESEARCH FOUNDATION, US
[85] 2021-11-17
[86] 2020-05-21 (PCT/US2020/033995)
[87] (WO2020/237049)
[30] US (62/850,913) 2019-05-21

[21] **3,138,430**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01)**
[25] EN
[54] **MICROPARTICLES AND NANOPARTICLES HAVING SULFATE GROUPS ON THE SURFACE**
[54] **MICROPARTICULES ET NANOPARTICULES AYANT DES GROUPES SULFATE SUR LA SURFACE**
[72] WU, BIN, US
[71] PHOSPHOREX, INC., US
[85] 2021-11-17
[86] 2020-05-28 (PCT/US2020/034842)
[87] (WO2020/243248)
[30] US (62/853,302) 2019-05-28

[21] **3,138,444**
[13] A1
[51] **Int.Cl. C23C 14/00 (2006.01) C04B 35/185 (2006.01) C23C 14/02 (2006.01) C23C 14/08 (2006.01) C23C 14/32 (2006.01) C23C 14/58 (2006.01)**
[25] EN
[54] **A METHOD FOR APPLYING A COATING TO A SURFACE OF A MULLITE MATERIAL, MULLITE MATERIAL HAVING A COATING AND GAS TURBINE COMPONENT**
[54] **PROCEDE D'APPLICATION D'UN REVETEMENT SUR UNE SURFACE D'UN MATERIAU DE MULLITE, MATERIAU DE MULLITE COMPORTANT UN REVETEMENT ET COMPOSANT DE TURBINE A GAZ**
[72] STAMM, WERNER, DE
[72] FRIEDLE, SIMONE, DE
[72] RAMM, JUERGEN, CH
[71] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH
[85] 2021-11-17
[86] 2020-05-19 (PCT/EP2020/000096)
[87] (WO2020/233832)
[30] DE (10 2019 207 367.0) 2019-05-20

[21] **3,138,449**
[13] A1
[51] **Int.Cl. A61M 39/16 (2006.01) A61M 39/26 (2006.01)**
[25] EN
[54] **AUTOMATIC DISINFECTION OF A VASCULAR ACCESS DEVICE CONNECTOR**
[54] **DESINFECTION AUTOMATIQUE D'UN CONNECTEUR DE DISPOSITIF D'ACCES VASCULAIRE**
[72] ISAACSON, S. RAY, US
[72] MANSOUR, GEORGE, US
[72] TANNER, BRIAN, US
[72] BAI, HE, US
[72] WANG, SOPHIA LIJUN, US
[72] STALEY, SHAUN, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-11-17
[86] 2020-05-21 (PCT/US2020/033964)
[87] (WO2020/242877)
[30] US (62/854,742) 2019-05-30
[30] US (16/878,264) 2020-05-19

[21] **3,138,461**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 39/145 (2006.01)**
[25] EN
[54] **VACCINE ADJUVANTS BASED ON TLR RECEPTOR LIGANDS**
[54] **ADJUVANTS DE VACCIN A BASE DE LIGANDS DU RECEPTEUR TLR**
[72] BAZIN-LEE, HELENE, US
[72] BURKHART, DAVID, US
[72] EVANS, JAY, US
[71] THE UNIVERSITY OF MONTANA, US
[85] 2021-11-17
[86] 2020-05-22 (PCT/US2020/034258)
[87] (WO2020/237164)
[30] US (62/851,941) 2019-05-23
[30] US (62/975,054) 2020-02-11

[21] **3,138,465**
[13] A1
[51] **Int.Cl. B60B 17/00 (2006.01)**
[25] EN
[54] **WHEEL FOR RAILWAY VEHICLE**
[54] **ROUE POUR VEHICULE FERROVIAIRE**
[72] KATO, TAKANORI, JP
[72] YAMAMURA, YOSHINARI, JP
[72] ABE, SHINGO, JP
[72] NOGUCHI, JUN, JP
[72] DE LA PRIDA CABALLERO, RUBEN, ES
[71] NIPPON STEEL CORPORATION, JP
[85] 2021-11-17
[86] 2020-05-20 (PCT/JP2020/019885)
[87] (WO2020/241401)
[30] JP (2019-099982) 2019-05-29

[21] **3,138,472**
[13] A1
[51] **Int.Cl. A61K 33/36 (2006.01) A61K 33/242 (2019.01) A61K 33/06 (2006.01) A61K 33/26 (2006.01) A61K 33/30 (2006.01) A61K 33/32 (2006.01) A61P 25/28 (2006.01) A61P 35/02 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **USE OF METAL IONS TO POTENTIATE THE THERAPEUTIC EFFECTS OF ARSENIC**
[54] **UTILISATION D'IONS METALLIQUES POUR POTENTIALISER LES EFFETS THERAPEUTIQUES DE L'ARSENIC**
[72] RIEGER, FRANCOIS, CH
[72] BATTEUX, FREDERIC, FR
[71] MEDSENIC, FR
[85] 2021-11-17
[86] 2020-05-20 (PCT/EP2020/064189)
[87] (WO2020/234414)
[30] EP (19305644.7) 2019-05-21
[30] CN (201910469782.6) 2019-05-31

[21] **3,138,480**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01)**
[25] EN
[54] **METHODS OF TREATING MUSCULOSKELETAL DEFORMITIES IN QUADRUPED ANIMALS**
[54] **PROCEDES DE TRAITEMENT DE MALFORMATIONS MUSCULO-SQUELETTIQUES CHEZ DES ANIMAUX QUADRUPEDE**
[72] RENFROE, J. BEN, US
[72] CARTER, DANIEL W., US
[71] VETMED THERAPEUTICS, INC., US
[85] 2021-11-17
[86] 2020-05-15 (PCT/US2020/033061)
[87] (WO2020/236554)
[30] US (62/849,316) 2019-05-17

[21] **3,138,481**
[13] A1
[51] **Int.Cl. C12P 7/58 (2006.01) C07C 59/285 (2006.01)**
[25] EN
[54] **ENZYMATIC PRODUCTION OF GLUCARIC ACID FROM GLUCURONIC ACID**
[54] **PRODUCTION ENZYMATIQUE D'ACIDE GLUCARIQUE A PARTIR D'ACIDE GLUCURONIQUE**
[72] VUONG, THU V., CA
[72] MASTER, EMMA R., CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2021-11-17
[86] 2020-05-15 (PCT/CA2020/050658)
[87] (WO2020/232536)
[30] US (62/849,377) 2019-05-17

[21] **3,138,494**
[13] A1
[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4433 (2006.01) A61K 31/4439 (2006.01) A61P 31/18 (2006.01) A61P 31/20 (2006.01) C07D 405/04 (2006.01) C07D 405/10 (2006.01)**
[25] EN
[54] **HETEROCYCLIC IMMUNOMODULATORS AS PDL1 CHECKPOINT INHIBITOR**
[54] **IMMUNOMODULATEURS HETEROCYCLIQUES UTILISES COMME INHIBITEUR DE POINT DE CONTROLE PDL1**
[72] MC GOWAN, DAVID CRAIG, BE
[72] JACOBY, EDGAR, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-11-17
[86] 2020-06-05 (PCT/EP2020/065646)
[87] (WO2020/245372)
[30] EP (19179072.4) 2019-06-07

[21] **3,138,497**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PYRIDO-PYRIMIDIN DERIVATIVES AND PHARMACEUTICAL COMPOSITION, FOR USE IN PREVENTING OR TREATING PI3 KINASE RELATED DISEASES, COMPRISING SAME AS ACTIVE INGREDIENT**
[54] **DERIVES DE PYRRO-PYRIMIDINE ET COMPOSITION PHARMACEUTIQUE LES COMPRENANT EN TANT QUE PRINCIPE ACTIF, A UTILISER POUR LA PREVENTION OU LE TRAITEMENT DE MALADIES LIEES A LA PI3 KINA**
[72] KIM, HAK DO, KR
[72] LEE, SEONG GUK, KR
[72] LEE, HEE JIN, KR
[72] CHOUNG, WON KEN, KR
[72] YANG, DEOK MO, KR
[72] KIM, SEONG HEON, KR
[72] LEE, SUK HO, KR
[71] BORYUNG PHARMACEUTICAL CO., LTD, KR
[85] 2021-11-17
[86] 2020-05-19 (PCT/IB2020/054719)
[87] (WO2020/234756)
[30] KR (10-2019-0058895) 2019-05-20

[21] **3,138,498**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01)**
[25] FR
[54] **ANTIBODY-DRUG CONJUGATES AND THEIR USE IN THERAPY**
[54] **CONJUGUES ANTICORPS-MEDICAMENT ET LEUR UTILISATION EN THERAPIE**
[72] BALTUS, CHRISTINE, FR
[72] JUEN, LUDOVIC, FR
[71] MCSAF, FR
[85] 2021-11-17
[86] 2020-05-19 (PCT/FR2020/050833)
[87] (WO2020/234541)
[30] FR (1905253) 2019-05-20

[21] **3,138,500**
[13] A1
[51] **Int.Cl. B62D 1/04 (2006.01) B62D 3/02 (2006.01)**
[25] EN
[54] **DIRECTION ADJUSTING DEVICE AND APPLICATION THEREOF**
[54] **DISPOSITIF DE REGLAGE DE DIRECTION ET SON APPLICATION**
[72] LUO, SHENG, CN
[72] YANG, JUN, CN
[72] WU, DI, CN
[72] YAO, YUAN, CN
[71] FJ DYNAMICS TECHNOLOGY CO., LTD, CN
[85] 2021-11-17
[86] 2020-05-19 (PCT/CN2020/090933)
[87] (WO2021/004160)
[30] CN (201910614647.6) 2019-07-09
[30] CN (201921070396.1) 2019-07-09

[21] **3,138,501**
[13] A1
[51] **Int.Cl. G01N 33/53 (2006.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **ANTI-TALEN ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-TALEN ET LEURS UTILISATIONS**
[72] PERTEL, THOMAS CHARLES, US
[72] SASU, BARBRA JOHNSON, US
[71] ALLOGENE THERAPEUTICS, INC., US
[85] 2021-11-17
[86] 2020-06-12 (PCT/US2020/037589)
[87] (WO2020/252381)
[30] US (62/861,214) 2019-06-13

[21] **3,138,502**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SINGLE PARTICLE ANALYSIS**
[54] **SYSTEMES ET PROCEDES D'ANALYSE DE PARTICULES UNIQUES**
[72] CHENG, YUPENG, CN
[71] SHANGHAI POLARIS BIOLOGY CO., LTD., CN
[85] 2021-11-17
[86] 2020-05-13 (PCT/CN2020/090016)
[87] (WO2020/248757)
[30] CN (PCT/CN2019/091215) 2019-06-14

[21] **3,138,560**
[13] A1
[51] **Int.Cl. C07D 471/22 (2006.01) A61K 31/5383 (2006.01) A61P 35/00 (2006.01) C07D 487/14 (2006.01) C07D 491/22 (2006.01) C07D 495/22 (2006.01) C07D 498/22 (2006.01)**
[25] EN
[54] **IMIDAZOPYRIMIDINES AS EED INHIBITORS AND THE USE THEREOF**
[54] **IMIDAZOPYRIMIDINES UTILISEES EN TANT QU'INHIBITEURS DE EED ET LEUR UTILISATION**
[72] WANG, SHAOMENG, US
[72] REJ, ROHAN, US
[72] WANG, CHANGWEI, US
[72] WANG, MI, US
[72] LU, JIANFENG, US
[72] YANG, CHAO-YIE, US
[72] FERNANDEZ-SALAS, ESTER, US
[72] STUCKEY, JEANNE, US
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[85] 2021-11-18
[86] 2020-07-16 (PCT/US2020/042219)
[87] (WO2021/011713)
[30] US (62/874,606) 2019-07-16
[30] US (62/944,608) 2019-12-06

[21] **3,138,562**
[13] A1
[51] **Int.Cl. C25B 15/02 (2021.01) A61L 2/03 (2006.01)**
[25] EN
[54] **AUTONOMOUS HYDROGEN EVOLUTION REACTION THRESHOLD DETECTION METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE DETECTION AUTONOME DE SEUIL DE REACTION DE DEGAGEMENT D'HYDROGENE**
[72] MARANHAO, JASON M., US
[72] PETERSON, BRIAN R., US
[72] HOBBLE, JACKSON G., US
[72] CANTY, MARY K., US
[71] GARWOOD MEDICAL DEVICES, LLC, US
[85] 2021-11-18
[86] 2020-06-03 (PCT/US2020/035815)
[87] (WO2020/247422)
[30] US (62/856,282) 2019-06-03

[21] **3,138,592**
[13] A1
[51] **Int.Cl. C07D 239/95 (2006.01)**
[25] EN
[54] **QUINAZOLINE PRODRUGS FOR THE TREATMENT OF VIRAL INFECTIONS AND FURTHER DISEASES**
[54] **PROMEDICAMENTS A BASE DE QUINAZOLINE POUR LE TRAITEMENT D'INFECTIONS VIRALES ET D'AUTRES MALADIES**
[72] MC GOWAN, DAVID CRAIG, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-11-18
[86] 2020-06-18 (PCT/EP2020/066896)
[87] (WO2020/254473)
[30] EP (19180951.6) 2019-06-18

[21] **3,138,613**
[13] A1
[51] **Int.Cl. B29C 48/00 (2019.01) B29C 48/09 (2019.01) B29C 48/355 (2019.01) B29C 48/88 (2019.01) B29C 48/90 (2019.01) B29C 59/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR MANUFACTURING BIODEGRADABLE, COMPOSTABLE, DRINK STRAWS FROM POLYHYDROXYALKANOATE MATERIAL**
[54] **APPAREIL ET PROCEDES DE FABRICATION DE PAILLES POUR BOIRE BIODEGRADABLES, COMPOSTABLES A PARTIR D'UN MATERIAU POLYHYDROXYALCANOATE**
[72] LAPORTE, BRADLEY KEITH, US
[72] GEORGE, JR. PAUL DANIEL, US
[72] PRICKETT, WILLIAM LLOYD, US
[72] POINDEXTER II, BILLY, US
[71] NEW WINCUP HOLDINGS, INC., US
[85] 2021-11-18
[86] 2020-05-20 (PCT/US2020/033835)
[87] (WO2020/236951)
[30] US (62/850,520) 2019-05-20

[21] **3,138,614**
[13] A1
[51] **Int.Cl. A47G 21/18 (2006.01) B29C 48/00 (2019.01) B29C 48/09 (2019.01) B29C 48/355 (2019.01) B29C 48/88 (2019.01) B29C 48/90 (2019.01) C08L 67/04 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR MANUFACTURING BIODEGRADABLE, COMPOSTABLE, DRINK STRAWS FROM POLYHYDROXYALKANOATE MATERIAL**
[54] **APPAREIL ET PROCEDES DE FABRICATION DE PAILLES POUR BOISSON, BIODEGRADABLES, COMPOSTABLES A PARTIR D'UN MATERIAU POLYHYDROXYALCANOATE**
[72] LAPORTE, BRADLEY KEITH, US
[72] GEORGE, PAUL DANIEL JR., US
[72] PRICKETT, WILLIAM LLOYD, US
[72] POINDEXTER II, BILLY, US
[72] JOHNSON, ADAM, US
[71] NEW WINCUP HOLDINGS, INC., US
[71] MEREDIAN BIOPLASTICS, INC., US
[85] 2021-11-18
[86] 2020-05-20 (PCT/US2020/033845)
[87] (WO2020/236959)
[30] US (62/850,520) 2019-05-20

[21] **3,138,615**
[13] A1
[51] **Int.Cl. B32B 17/10 (2006.01)**
[25] FR
[54] **LAMINATED GLAZING INCORPORATING THE ANTENNAS OF THE AUTOMATIC LANDING ASSISTANCE SYSTEM**
[54] **VITRAGE FEUILLETE INTEGRANT LES ANTENNES DU SYSTEME AUTOMATIQUE D'AIDE A L'ATTERRISSAGE**
[72] LEGOIS, VINCENT, FR
[72] RACHET, VINCENT, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2021-11-18
[86] 2020-06-10 (PCT/EP2020/066029)
[87] (WO2020/249589)
[30] FR (FR1906273) 2019-06-13

[21] **3,138,619**
[13] A1
[51] **Int.Cl. H01R 9/05 (2006.01) H01R 13/6592 (2011.01) H01R 4/48 (2006.01) H01R 4/64 (2006.01) H01R 11/28 (2006.01) H01R 13/03 (2006.01) H02G 1/14 (2006.01)**
[25] EN
[54] **BAND CLAMP**
[54] **PINCE D'ATTACHE**
[72] HEINZE, PHILIPP, CH
[71] OETIKER SCHWEIZ AG, CH
[85] 2021-11-18
[86] 2020-05-31 (PCT/EP2020/065103)
[87] (WO2020/240035)
[30] EP (PCT/EP2019/064194) 2019-05-31

[21] **3,138,627**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) C12N 15/113 (2010.01)**
[25] EN
[54] **STRUCTURALLY DEFINED SIRNA-DUAL VARIABLE DOMAIN IMMUNOGLOBULIN CONJUGATES**
[54] **CONJUGUES D'IMMUNOGLOBULINE A DOMAINE VARIABLE DOUBLE D'ARNSI STRUCTURALEMENT DEFINI**
[72] KEL'IN, ALEXANDER V., US
[72] NANNA, ALEX R., US
[72] RADER, CHRISTOPH, US
[72] THEILE, CHRISTOPHER, US
[72] PIERSON, JUSTIN, US
[72] FITZGERALD, KEVIN, US
[72] VOO, ZHI XIANG, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2021-11-18
[86] 2020-06-18 (PCT/US2020/038475)
[87] (WO2020/257483)
[30] US (62/864,755) 2019-06-21

[21] **3,138,628**
[13] A1
[51] **Int.Cl. B01L 9/00 (2006.01)**
[25] EN
[54] **LOADING AND SEALING SAMPLE ON MICROFABRICATED CHIP**
[54] **CHARGEMENT ET SCELLEMENT D'UN ECHANTILLON SUR UNE PUCE MICROFABRIQUEE**
[72] GLAZER, MARC, US
[72] HALLOCK, ALEXANDER, US
[72] DUNNE, JUDE, US
[71] GENERAL AUTOMATION LAB TECHNOLOGIES INC., US
[85] 2021-11-18
[86] 2020-06-07 (PCT/US2020/036522)
[87] (WO2020/247893)
[30] US (62/858,978) 2019-06-07

[21] **3,138,629**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01)**
[25] EN
[54] **SYSTEMS, METHODS AND PROGRAMMED PRODUCTS FOR TRACKING DELIVERY AND PERFORMANCE OF STATIC ADVERTISEMENTS WITHIN DIGITAL ADVERTISING PLATFORM**
[54] **SYSTEMES, PROCEDES ET PRODUITS PROGRAMMES PERMETTANT DE SUIVRE DE MANIERE DYNAMIQUE UNE DISTRIBUTION ET DES PERFORMANCES DE PUBLICITES NUMERIQUES DANS DES AFFICHAGES NUMERIQUES EL CTRONIQUE**
[72] BUCHALTER, YEHUDA ARI, US
[72] SHAO, JASON, US
[72] MASLYN, WILLIAM T., US
[71] INTERSECTION PARENT, INC., US
[85] 2021-11-18
[86] 2020-02-03 (PCT/US2020/016399)
[87] (WO2020/263346)
[30] US (62/866,169) 2019-06-25

[21] **3,138,635**
[13] A1
[51] **Int.Cl. C02F 1/52 (2006.01) B01D 21/01 (2006.01) C02F 1/56 (2006.01) C02F 1/66 (2006.01)**
[25] EN
[54] **TREATMENT SYSTEM COMPRISING WOOD-BASED ORGANIC MATERIAL AND ITS USE IN WASTEWATER TREATMENT, AND METHOD FOR REMOVING DISSOLVED ORGANIC COMPOUNDS FROM WASTEWATER**
[54] **SYSTEME DE TRAITEMENT COMPRENANT UN MATERIAU ORGANIQUE A BASE DE BOIS ET SON UTILISATION DANS LE TRAITEMENT DES EAUX USEES, ET PROCEDE D'ELIMINATION DE COMPOSES ORGANIQUES DISSOUS DES EAUX USEE**
[72] HALTTUNEN, SAKARI, FI
[72] PENTTINEN, MATIAS, FI
[72] AHLGREN, JONNI, FI
[72] HARKONEN, SUSANN, FI
[72] SHESTAKOVA, MARINA, FI
[71] KEMIRA OYJ, FI
[85] 2021-11-18
[86] 2020-06-12 (PCT/FI2020/050419)
[87] (WO2020/249871)
[30] FI (20195516) 2019-06-14

[21] **3,138,637**
[13] A1
[51] **Int.Cl. B22F 12/13 (2021.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B22F 10/77 (2021.01) B22F 12/70 (2021.01) F27D 7/06 (2006.01)**
[25] EN
[54] **METAL POWDER-BASED MANUFACTURING PROCESS IN LOW IMPURITY GAS ATMOSPHERE AND SYSTEM**
[54] **PROCEDE DE FABRICATION A BASE DE POUDRE METALLIQUE DANS UNE ATMOSPHERE DE GAZ A FAIBLE TENEUR EN IMPURETES, ET SYSTEME**
[72] CONLON, MARTIN JOHN, CA
[72] PHILLIPS, JONATHAN, US
[72] DOUTRE, SEAN ROBERT, CA
[72] AZARI DORCHEH, KAMRAN, CA
[72] HAFIZ, ABDULLAH MOHAMMAD KHALID, CA
[72] BASTIEN, JAMES, CA
[72] JOHNSON, KENNETH GERALD, CA
[71] EQUISPHERES INC., CA
[85] 2021-11-18
[86] 2020-05-25 (PCT/CA2020/050704)
[87] (WO2020/237359)
[30] US (62/852,621) 2019-05-24

[21] **3,138,646**
[13] A1
[51] **Int.Cl. A23L 5/00 (2016.01) A23L 29/256 (2016.01) A23L 33/105 (2016.01)**
[25] EN
[54] **SODIUM EXCRETION PARTICLES**
[54] **PARTICULES D'EXCRETION DE SODIUM**
[72] TAKESHITA, HIDENORI, JP
[72] MAEDA, RYOKO, JP
[71] TOYMEDICAL CO.,LTD., JP
[85] 2021-11-18
[86] 2020-05-26 (PCT/JP2020/020791)
[87] (WO2020/241650)
[30] JP (2019-099141) 2019-05-28

[21] **3,138,648**
[13] A1
[51] **Int.Cl. C07D 403/04 (2006.01) C07D 403/12 (2006.01) C07D 405/14 (2006.01) C07D 491/10 (2006.01) C07F 9/53 (2006.01)**
[25] EN
[54] **INDOLE DERIVATIVE-CONTAINING INHIBITOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**
[54] **INHIBITEUR CONTENANT UN DERIVE D'INDOLE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WANG, FENG, CN
[72] DENG, HAINING, CN
[72] SU, YIDONG, CN
[72] CAI, JIAQIANG, CN
[72] BAO, RUDI, CN
[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN
[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2021-11-18
[86] 2020-05-21 (PCT/CN2020/091558)
[87] (WO2020/233669)
[30] CN (201910430758.1) 2019-05-22
[30] CN (201910926544.3) 2019-09-27
[30] CN (201911185460.5) 2019-11-27
[30] CN (202010054268.9) 2020-01-17

[21] **3,138,655**
[13] A1
[51] **Int.Cl. B31F 1/07 (2006.01)**
[25] EN
[54] **EMBOSSING SYSTEM WITH EMBOSSING CASSETTE**
[54] **SYSTEME DE GAUFRAGE AVEC CASSETTE DE GAUFRAGE**
[72] BOEGLI, CHARLES, CH
[72] LUSTENBERGER, FELIX, CH
[72] DROZ, ALAIN, CH
[72] DUMITRU, GABRIEL, CH
[71] BOEGLI-GRAVURES S.A., CH
[85] 2021-11-18
[86] 2021-01-13 (PCT/IB2021/050220)
[87] (WO2021/144709)
[30] EP (20152524.3) 2020-01-17

[21] **3,138,658**
[13] A1
[51] **Int.Cl. C22C 23/00 (2006.01) C22C 21/08 (2006.01) C22C 23/02 (2006.01) C22C 24/00 (2006.01) C22F 1/047 (2006.01) C22F 1/06 (2006.01)**
[25] EN
[54] **ALLOY HAVING FINE-SCALE EUTECTIC, IN PARTICULAR NANOEUTECTIC, STRUCTURE AND PRODUCTION OF SUCH AN ALLOY**
[54] **ALLIAGE COMPRENANT DES STRUCTURES EUTECTIQUES FINES, EN PARTICULIER NANO-EUTECTIQUES, ET PRODUCTION DE CELUI-CI**
[72] GNEIGER, STEFAN, AT
[72] SIMSON, CLEMENS, AT
[72] GROSSALBER, ALEXANDER, AT
[72] FRANK, SIMON, AT
[72] BETZ, ANDREAS, DE
[71] LKR LEICHTMETALLKOMPETENZZENTRUM RANSHOFEN GMBH, AT
[85] 2021-11-18
[86] 2020-07-07 (PCT/EP2020/069131)
[87] (WO2021/005062)
[30] EP (19184999.1) 2019-07-08
[30] EP (PCT/EP2020/058280) 2020-03-25

[21] **3,138,668**
[13] A1
[51] **Int.Cl. C07H 9/02 (2006.01) A61K 31/7056 (2006.01) C07H 13/08 (2006.01) C07H 19/056 (2006.01)**
[25] EN
[54] **SYNTHESIS OF 3-AZIDO-3-DEOXY-D-GALACTOPYRANOSE**
[54] **SYNTHESE DE 3-AZIDO-3-DESOXY-D-GALACTOPYRANOSE**
[72] GIGUERE, DENIS, CA
[72] ST-GELAIS, JACOB, CA
[72] DENAVIT, VINCENT, FR
[71] UNIVERSITE LAVAL, CA
[85] 2021-11-18
[86] 2020-06-12 (PCT/CA2020/050814)
[87] (WO2020/248068)
[30] US (62/861,476) 2019-06-14

[21] **3,138,673**
[13] A1
[51] **Int.Cl. G06Q 20/02 (2012.01) G06Q 20/12 (2012.01) G06Q 20/40 (2012.01) G06Q 30/06 (2012.01)**
[25] EN
[54] **ONLINE PAYMENT SYSTEM**
[54] **SYSTEME DE PAIEMENT EN LIGNE**
[72] BALDWIN, THOMAS, GB
[72] RAFFERTY, BEN, GB
[72] PREEDY, GRAHAM, GB
[71] SEMAFONE LIMITED, GB
[85] 2021-11-18
[86] 2020-04-30 (PCT/GB2020/051058)
[87] (WO2020/222009)
[30] GB (1906083.9) 2019-04-30

[21] **3,138,676**
[13] A1
[51] **Int.Cl. B29C 64/147 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B23P 23/04 (2006.01) G05B 19/4099 (2006.01)**
[25] FR
[54] **METHOD AND MACHINE FOR AUTOMATING THE LAYER-BY-LAYER MANUFACTURING OF AN OBJECT USING A SOLID-SOLID ADDITIVE MANUFACTURING METHOD**
[54] **PROCEDE ET MACHINE D'AUTOMATISATION DE FABRICATION D'UN OBJET SELON UN PROCEDE DE FABRICATION ADDITIVE DE TYPE SOLIDE/SOLIDE, COUCHE PAR COUCHE**
[72] PELAINGRE, CYRIL, FR
[72] DI GIUSEPPE, DAVID, FR
[72] BARLIER, CLAUDE, FR
[72] CUNIN, DENIS, FR
[72] RICATTE, HUGO, FR
[72] DELEBECQUE, BENOIT, FR
[72] GUILLAUME, THOMAS, FR
[71] CIRTES SRC, FR
[71] BARLIER, CLAUDE, FR
[85] 2021-11-18
[86] 2020-06-26 (PCT/EP2020/068126)
[87] (WO2020/260652)
[30] FR (FR1907059) 2019-06-27

[21] **3,138,677**
[13] A1
[51] **Int.Cl. C07C 29/76 (2006.01) C07C 29/80 (2006.01)**
[25] EN
[54] **MEMBRANES, SYSTEMS, AND METHODS FOR CONCENTRATING LIQUOR STREAMS RELATED TO BIOMASS PULPING**
[54] **MEMBRANES, SYSTEMES ET PROCEDES DE CONCENTRATION DE FLUX DE LIQUEUR ASSOCIES A LA MISE EN PATE DE BIOMASSE**
[72] NAIR, SANKAR, US
[72] MA, CHEN, US
[72] SHOFNER, MEISHA, US
[72] SINQUEFIELD, SCOTT, US
[72] WANG, ZHONGZHEN, US
[71] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2021-11-18
[86] 2020-05-22 (PCT/US2020/034330)
[87] (WO2020/237191)
[30] US (62/852,260) 2019-05-23
[30] US (62/852,247) 2019-05-23

[21] **3,138,733**
[13] A1
[51] **Int.Cl. A61M 1/36 (2006.01) A61M 1/16 (2006.01)**
[25] EN
[54] **EMPTYING A BLOOD CIRCUIT AFTER EXTRACORPOREAL BLOOD TREATMENT**
[54] **VIDAGE D'UN CIRCUIT SANGUIN APRES TRAITEMENT EXTRACORPOREL DU SANG**
[72] FORSLAND, KARL HENRIK, SE
[72] ANDERSSON, GUNILLA, SE
[71] GAMBRO LUNDIA AB, SE
[85] 2021-11-19
[86] 2020-04-08 (PCT/EP2020/059979)
[87] (WO2020/233895)
[30] SE (1950610-4) 2019-05-23

[21] **3,138,735**
[13] A1
[51] **Int.Cl. A61M 16/04 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **ENDOTRACHEAL TUBE**
[54] **TUBE ENDOTRACHEAL**
[72] GEORGILIS, ANDREW J., US
[72] DEPEL, BILL, US
[71] BRYAN MEDICAL, INC., US
[85] 2021-11-19
[86] 2020-05-15 (PCT/US2020/033130)
[87] (WO2020/236588)
[30] US (62/850,784) 2019-05-21

[21] **3,138,744**
[13] A1
[51] **Int.Cl. G06F 30/27 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTION OF ANOMALIES IN CIVIL INFRASTRUCTURE USING CONTEXT AWARE SEMANTIC COMPUTER VISION TECHNIQUES**
[54] **SYSTEMES ET PROCEDES DE DETECTION D'ANOMALIES DANS UNE INFRASTRUCTURE CIVILE AU MOYEN DE TECHNIQUES DE VISION ARTIFICIELLE SEMANTIQUES SENSIBLES AU CONTEXTE**
[72] KHALOO, ALI, US
[71] THE JOAN AND IRWIN JACOBS TECHNION-CORNELL INSTITUTE, US
[85] 2021-11-19
[86] 2020-05-06 (PCT/US2020/031569)
[87] (WO2020/227343)
[30] US (62/844,293) 2019-05-07

[21] **3,138,766**
[13] A1
[51] **Int.Cl. B62B 9/12 (2006.01) B62B 7/06 (2006.01)**
[25] EN
[54] **WAGON WITH RECLINE SEATBACK**
[54] **CHARIOT AVEC DOSSIER INCLINABLE**
[72] STURGEON, SAMANTHA, US
[72] GOODMAN, ANNE, US
[71] RADIO FLYER INC., US
[85] 2021-11-19
[86] 2020-10-09 (PCT/US2020/054924)
[87] (WO2021/072157)
[30] US (62/912,703) 2019-10-09

[21] **3,138,770**
[13] A1
[51] **Int.Cl. E21B 23/06 (2006.01) E21B 47/13 (2012.01) E21B 33/14 (2006.01) E21B 47/12 (2012.01) E21B 47/14 (2006.01)**
[25] EN
[54] **COMMUNICATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COMMUNICATION**
[72] ELLIOTT, DAVID ROBERT, GB
[71] EXPRO NORTH SEA LIMITED, GB
[85] 2021-11-19
[86] 2020-05-20 (PCT/EP2020/064057)
[87] (WO2020/234344)
[30] GB (1907154.7) 2019-05-21

[21] **3,138,775**
[13] A1
[51] **Int.Cl. B60J 10/18 (2016.01)**
[25] EN
[54] **METAL BAND**
[54] **BANDE METALLIQUE**
[72] YILDIRIM, ALI, DE
[71] BFC FAHRZEUGTEILE GMBH, DE
[85] 2021-11-19
[86] 2020-11-20 (PCT/EP2020/082830)
[87] (WO2021/110428)
[30] DE (20 2019 106 738.1) 2019-12-03

[21] **3,138,776**
[13] A1
[51] **Int.Cl. G07C 9/22 (2020.01) H04W 12/06 (2021.01) H04W 4/80 (2018.01) G07C 9/29 (2020.01)**
[25] EN
[54] **PHYSICAL ACCESS CONTROL SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE D'ACCES PHYSIQUE**
[72] PREVOST, SYLVAIN JACQUES, US
[72] SACHDEVA, KAPIL, US
[72] CARNEY, STEPHEN, US
[72] PAK, WAYNE, KR
[72] CHEN, JIANBO, US
[71] HID GLOBAL CORPORATION, US
[85] 2021-11-19
[86] 2020-05-20 (PCT/US2020/033768)
[87] (WO2020/236912)
[30] US (62/850,802) 2019-05-21

[21] **3,138,777**
[13] A1
[51] **Int.Cl. B08B 3/12 (2006.01) B06B 3/00 (2006.01) B08B 7/02 (2006.01) B08B 9/027 (2006.01) F28G 7/00 (2006.01)**
[25] EN
[54] **A SYSTEM AND A METHOD FOR CLEANING A DEVICE**
[54] **SYSTEME ET PROCEDE DE NETTOYAGE D'UN DISPOSITIF**
[72] HAEGGSTROM, EDWARD, FI
[72] MOILANEN, PETRO, FI
[72] SALMI, ARI, FI
[72] RAUHALA, TIMO, FI
[72] PETERZENS, KASPER, FI
[71] ALTUM TECHNOLOGIES OY, FI
[85] 2021-11-19
[86] 2020-05-26 (PCT/FI2020/050351)
[87] (WO2020/240086)
[30] FI (20195462) 2019-05-31

[21] **3,138,782**
[13] A1
[51] **Int.Cl. G01B 21/30 (2006.01) G01B 11/30 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MEASURING THE TEXTURE OF CARPET**
[54] **PROCEDES ET SYSTEMES DE MESURE DE LA TEXTURE D'UN TAPIS**
[72] VAUGHAN, WILLIAM NEIL, US
[72] LINDAHL, DAVID, US
[71] SHAW INDUSTRIES GROUP, INC., US
[85] 2021-11-19
[86] 2020-05-21 (PCT/US2020/034030)
[87] (WO2020/237069)
[30] US (62/850,898) 2019-05-21

[21] **3,138,783**
[13] A1
[51] **Int.Cl. H04W 8/24 (2009.01)**
[25] EN
[54] **NO-GAP MEASUREMENT CAPABILITY REPORTING METHOD AND APPARATUS**
[54] **PROCEDE POUR RAPPORTER UNE CAPACITE DE MESURE EXEMPTE D'INTERVALLE ET APPAREIL ASSOCIE**
[72] ZHENG, DELAI, CN
[72] YANG, JIANHUA, CN
[72] YAO, CHUTING, CN
[72] CHEN, YAN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-11-19
[86] 2020-08-10 (PCT/CN2020/108282)
[87] (WO2021/027787)
[30] CN (201910750915.7) 2019-08-14

[21] **3,138,787**
[13] A1
[51] **Int.Cl. F16L 27/08 (2006.01)**
[25] EN
[54] **GIMBAL JOINTS FOR BLEED AIR SYSTEMS**
[54] **ARTICULATIONS DE CARDAN POUR SYSTEMES DE PRELEVEMENT D'AIR**
[72] THOMPSON, CHRISTOPHER, US
[72] PARKER, MATTHEW, US
[72] POSSERT, ERIC, US
[71] SENIOR IP GMBH, CH
[85] 2021-11-19
[86] 2020-06-02 (PCT/EP2020/065181)
[87] (WO2020/254100)
[30] US (16/442,541) 2019-06-16

[21] **3,138,789**
[13] A1
[51] **Int.Cl. A61J 1/20 (2006.01)**
[25] EN
[54] **IMPROVED CAPPING SYSTEM FOR LIQUID MEDICINE BOTTLES**
[54] **SYSTEME DE CAPSULAGE AMELIORE POUR BOUTEILLES DE MEDICAMENT LIQUIDE**
[72] EICKE, JASON, US
[71] EICKE, JASON, US
[85] 2021-11-19
[86] 2020-05-21 (PCT/US2020/034108)
[87] (WO2020/237111)
[30] US (62/851,148) 2019-05-22
[30] US (16/879,901) 2020-05-21

[21] **3,138,792**
[13] A1
[51] **Int.Cl. H05H 1/10 (2006.01) G21B 1/05 (2006.01)**
[25] EN
[54] **SHIELDING STRUCTURES IN PLASMA ENVIRONMENT**
[54] **STRUCTURES DE PROTECTION DANS UN ENVIRONNEMENT PLASMATIQUE**
[72] HEINRICH, JONATHON ROBERT, US
[72] GARRETT, MICHAEL LANE, US
[72] MCGUIRE, THOMAS JOHN, US
[72] FONT, GABRIEL IVAN, US
[71] LOCKHEED MARTIN CORPORATION, US
[85] 2021-11-19
[86] 2020-06-29 (PCT/US2020/040069)
[87] (WO2021/007058)
[30] US (16/509,286) 2019-07-11

[21] **3,138,795**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **HOME STOCK MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE STOCK DOMESTIQUE**
[72] SAELEN, WIM, CH
[72] MACOR, ALESSANDRO (DECEASED), CH
[71] ARESTRADING S.A., CH
[85] 2021-11-19
[86] 2019-07-05 (PCT/EP2019/068136)
[87] (WO2021/004608)

[21] **3,138,796**
[13] A1
[51] **Int.Cl. E04B 1/86 (2006.01) E04B 1/94 (2006.01) E04B 9/04 (2006.01)**
[25] EN
[54] **FIRE RESISTANT LOW DENSITY ACOUSTIC PANEL**
[54] **PANNEAU ACOUSTIQUE BASSE DENSITE IGNIFUGE**
[72] KRICK, CHARLES G., US
[72] DEPAUL, MARIE A., US
[71] ARMSTRONG WORLD INDUSTRIES INC., US
[85] 2021-11-19
[86] 2020-05-26 (PCT/US2020/034482)
[87] (WO2020/237233)

[21] **3,138,798**
[13] A1
[51] **Int.Cl. B02C 4/30 (2006.01) B02C 4/02 (2006.01) B02C 4/28 (2006.01) B02C 4/32 (2006.01)**
[25] EN
[54] **ROLLER MILL HAVING RIM ELEMENTS AND METHOD FOR SETTING AN END-FACE GAP OF THE ROLLER MILL**
[54] **MOULIN A CYLINDRES COMPRENANT DES ELEMENTS DE BORDURE ET PROCEDE DE REGLAGE D'UNE FENTE FRONTALE DU MOULIN A CYLINDRES**
[72] SCHROERS, FRANK, DE
[71] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE
[71] THYSSENKRUPP AG, DE
[85] 2021-11-19
[86] 2020-06-23 (PCT/EP2020/067541)
[87] (WO2020/260308)
[30] DE (10 2019 209 511.9) 2019-06-28

[21] **3,138,800**
[13] A1
[51] **Int.Cl. A01G 27/00 (2006.01) G06Q 50/02 (2012.01) A01G 7/00 (2006.01) A01G 31/00 (2018.01)**
[25] EN
[54] **CULTIVATION ASSISTING DEVICE AND CULTIVATION ASSISTING METHOD**
[54] **DISPOSITIF ET PROCEDE D'AIDE A LA CULTURE**
[72] IIZUKA, MASAAKI, JP
[72] OKUYAMA, YUICHI, JP
[71] AQUASOLUTION CORPORATION, JP
[85] 2021-11-19
[86] 2020-03-23 (PCT/JP2020/012689)
[87] (WO2020/241005)
[30] JP (2019-101050) 2019-05-30
[30] JP (2020-013568) 2020-01-30

[21] **3,138,802**
[13] A1
[51] **Int.Cl. G02C 7/10 (2006.01) G02F 1/1514 (2019.01)**
[25] EN
[54] **OPTICAL DEVICE FOR ENHANCING THE WELL-BEING OF A WEARER**
[54] **DISPOSITIF OPTIQUE POUR AMELIORER LE BIEN-ETRE D'UN PORTEUR**
[72] WALLER, THOMAS MCCARTHY, CA
[72] SLAWSON, SIAN ELIZABETH, CA
[72] ALLEN, SIAN VICTORIA, CA
[72] SMITH, TODD JAMES, CA
[72] EDZEN, NILS JOHAN, CA
[72] DOGURGA, KEREM, CA
[72] SIWEK, PHILIP DAVID, CA
[72] MCGEE, TIMOTHY RYAN, CA
[72] MACMILLAN, KATE ALEXANDRIA, CA
[72] KAILAY, NAVJOT, CA
[72] CALDER, ELLISA KATHLEEN, CA
[72] LY, WILLIAM, CA
[71] LULULEMON ATHLETICA CANADA INC., CA
[85] 2021-11-19
[86] 2020-05-22 (PCT/CA2020/050691)
[87] (WO2020/237352)
[30] US (62/852,878) 2019-05-24

[21] **3,138,803**
[13] A1
[51] **Int.Cl. C08L 67/02 (2006.01) C08J 3/20 (2006.01) C08K 3/26 (2006.01) C08K 11/00 (2006.01) C08L 27/12 (2006.01)**
[25] EN
[54] **BIOMASS-CONTAINING PLASTIC COMPOSITION AND PREPARATION PROCESS THEREOF**
[54] **COMPOSITION DE MATIERE PLASTIQUE CONTENANT DE LA BIOMASSE ET SON PROCEDE DE PREPARATION**
[72] JUNKASEM, JIRAWUT, TH
[72] KAABBUATHONG, NARIN, TH
[72] HEMMUT, SUPATRA, TH
[72] THAMMONGKOL, VIVAN, TH
[71] PTT PUBLIC COMPANY LIMITED, TH
[85] 2021-11-19
[86] 2019-11-15 (PCT/TH2019/000061)
[87] (WO2021/021033)
[30] TH (1903001947) 2019-07-31

[21] **3,138,804**
[13] A1
[51] **Int.Cl. A61J 1/20 (2006.01)**
[25] EN
[54] **TRANSFER CANNULA**
[54] **CANULE DE TRANSFERT**
[72] KRIEGER, JOHANNES, DE
[72] THAU, MARKUS, DE
[71] RPC FORMATEC GMBH, DE
[85] 2021-11-19
[86] 2020-05-29 (PCT/EP2020/064959)
[87] (WO2020/239973)
[30] DE (10 2019 114 502.3) 2019-05-29
[30] DE (10 2019 121 915.9) 2019-08-14

[21] **3,138,805**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **DESIGNED ANKYRIN REPEAT DOMAIN WITH IMPROVED STABILITY**
[54] **DOMAINE DE REPETITION D'ANKYRINE SYNTHETIQUES AVEC UNE STABILITE AMELIOREE**
[72] SCHILLING, JOHANNES, CH
[72] WALSER, MARCEL, CH
[71] MOLECULAR PARTNERS AG, CH
[85] 2021-11-19
[86] 2020-06-03 (PCT/EP2020/065314)
[87] (WO2020/245171)
[30] EP (19178282.0) 2019-06-04

[21] **3,138,806**
[13] A1
[51] **Int.Cl. C12Q 1/6834 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SIMULTANEOUS TARGETED SEQUENCING OF DNA, RNA AND PROTEIN**
[54] **METHODE ET APPAREIL DE SEQUENCAGE CIBLE SIMULTANE D'ADN, D'ARN ET DE PROTEINE**
[72] DHINGRA, DALIA, US
[72] OOI, AIK, US
[72] MENDEZ, PEDRO, US
[72] RUFF, DAVID, US
[71] MISSION BIO, INC., US
[85] 2021-11-19
[86] 2020-05-22 (PCT/US2020/034404)
[87] (WO2020/237222)
[30] US (62/851,448) 2019-05-22
[30] US (62/904,374) 2019-09-23

[21] **3,138,993**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 10/06 (2012.01) G06Q 50/02 (2012.01)**
[25] EN
[54] **CENTRALIZED GOVERNANCE REGULATORY COMPLIANCE (C-GRC) SYSTEM**
[54] **SYSTEME CENTRALISE DE CONFORMITE REGLEMENTAIRE DE GOUVERNANCE (C-GRC)**
[72] KING, MATTHEW CHARLES, US
[72] GREENBERG, ADAM PHILLIP TAKLA, US
[71] IUNU, INC., US
[85] 2021-11-22
[86] 2020-05-29 (PCT/US2020/035419)
[87] (WO2020/243641)
[30] US (16/428,911) 2019-05-31

[21] **3,138,994**
[13] A1
[51] **Int.Cl. B32B 5/06 (2006.01) B32B 7/03 (2019.01) B32B 7/09 (2019.01) B32B 5/02 (2006.01) B32B 5/08 (2006.01) B32B 5/12 (2006.01) B32B 5/14 (2006.01) B32B 5/26 (2006.01) F41H 5/04 (2006.01)**
[25] EN
[54] **BALLISTIC LAMINATE COMPRISING UNIDIRECTIONAL LAYERS JOINED TOGETHER**
[54] **STRATIFIE BALISTIQUE COMPRENANT DES COUCHES UNIDIRECTIONNELLES JOINTES ENSEMBLE**
[72] CITTERIO, GIORGIO CELESTE, IT
[72] CITTERIO, FILIPPO, IT
[71] SOCIETA' PER AZIONI FRATELLI CITTERIO, IT
[85] 2021-11-22
[86] 2020-05-27 (PCT/EP2020/064688)
[87] (WO2020/239829)
[30] IT (102019000007413) 2019-05-28

[21] **3,139,006**
[13] A1
[51] **Int.Cl. B62B 3/02 (2006.01) B62B 3/00 (2006.01)**
[25] EN
[54] **PUSH-PULL WAGON**
[54] **CHARIOT A POUSSER-TIRER**
[72] STURGEON, SAMANTHA, US
[72] OSTERGAARD, COLLIN, US
[72] PADIAK, SCOTT, US
[71] RADIO FLYER INC., US
[85] 2021-11-22
[86] 2020-08-28 (PCT/US2020/048493)
[87] (WO2021/041872)
[30] US (62/893,992) 2019-08-30
[30] US (62/903,145) 2019-09-20

[21] **3,139,023**
[13] A1
[51] **Int.Cl. E21B 47/10 (2012.01) E21B 49/08 (2006.01) G01N 33/28 (2006.01)**
[25] EN
[54] **DEVICE FOR DETERMINING A VOLUME OF LIQUID IN A FLUID SAMPLE**
[54] **DISPOSITIF DE DETERMINATION D'UN VOLUME DE LIQUIDE DANS UN ECHANTILLON DE FLUIDE**
[72] COUCHOU-MEILLOT, GILLES, FR
[71] TOTALENERGIES SE, FR
[85] 2021-11-22
[86] 2019-05-22 (PCT/IB2019/000749)
[87] (WO2020/234619)

[21] **3,139,025**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **TIGIT AND PD-1/TIGIT-BINDING MOLECULES**
[54] **MOLECULES DE LIAISON AU TIGIT ET PD-1/TIGIT**
[72] FENG, YIQING, US
[72] KUMAR, NARESH, US
[72] PANCOOK, JAMES DAVID, US
[72] TRUHLAR, STEPHANIE MARIE, US
[72] ZHAO, YANG, US
[71] ELI LILLY AND COMPANY, US
[85] 2021-11-22
[86] 2020-05-22 (PCT/US2020/034158)
[87] (WO2020/242919)
[30] US (62/853,816) 2019-05-29

[21] **3,139,026**
[13] A1
[51] **Int.Cl. C07D 413/10 (2006.01) A61K 31/4245 (2006.01) A61K 31/427 (2006.01) A61K 31/444 (2006.01) A61K 31/454 (2006.01) A61K 31/517 (2006.01) A61K 31/5377 (2006.01) C07D 413/06 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **1,3,4-OXADIAZOLE DERIVATIVE COMPOUNDS AS HISTONE DEACETYLASE 6 INHIBITOR, AND THE PHARMACEUTICAL COMPOSITION COMPRISING THE SAME**
[54] **COMPOSES DERIVES DE 1,3,4-OXADIAZOLE UTILISES COMME INHIBITEURS D'HISTONE DESACETYLASE 6, ET COMPOSITION PHARMACEUTIQUE LES COMPRENANT**
[72] LEE, CHANG SIK, KR
[72] OH, JUNG TAEK, KR
[72] YUN, HOKEUN, KR
[72] SONG, HYESEUNG, KR
[72] KIM, HYUNJIN MICHAEL, KR
[71] CHONG KUN DANG PHARMACEUTICAL CORP., KR
[85] 2021-11-22
[86] 2020-05-29 (PCT/IB2020/055109)
[87] (WO2020/240492)
[30] KR (10-2019-0064665) 2019-05-31

[21] **3,139,028**
[13] A1
[51] **Int.Cl. G06F 16/9537 (2019.01)**
[25] FR
[54] **METHOD FOR GENERATING A COMPOSITE VISIBILITY INDICATOR FOR AN ENTITY, SYSTEM**
[54] **PROCEDE DE GENERATION D'UN INDICATEUR DE VISIBILITE COMPOSITE D'UNE ENTITE, SYSTEME**
[72] REMY, JEAN-PIERRE, FR
[72] REVEREND, BENJAMIN, FR
[72] PACCINI, JEAN-FRANCOIS, FR
[72] POCHON, PIERRE-ANDRE, FR
[71] DEEPREACH, FR
[85] 2021-11-22
[86] 2020-06-05 (PCT/EP2020/065741)
[87] (WO2020/245437)
[30] FR (FR1906050) 2019-06-06

[21] **3,139,032**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/115 (2010.01) A61K 31/7105 (2006.01) A61K 48/00 (2006.01) C07K 14/725 (2006.01) C12N 15/64 (2006.01)**
[25] EN
[54] **CIRCULAR RNA COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES D'ARN CIRCULAIRE**
[72] WESSELHOEFT, ALEXANDER, US
[72] ANDERSON, DANIEL G., US
[72] FUSE, SHINICHIRO, US
[72] GOODMAN, BRIAN, US
[72] HORHOTA, ALLEN, US
[72] SQUILLONI, RAFFAELLA, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[71] ORNA THERAPEUTICS, INC., US
[85] 2021-11-22
[86] 2020-05-22 (PCT/US2020/034418)
[87] (WO2020/237227)
[30] US (62/851,548) 2019-05-22
[30] US (62/857,121) 2019-06-04
[30] US (PCT/US2019/035531) 2019-06-05
[30] US (62/943,796) 2019-12-04
[30] US (62/943,779) 2019-12-04
[30] US (62/972,194) 2020-02-10

[21] **3,139,034**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01) G16H 50/20 (2018.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FILTERING TIME-VARYING DATA FOR PHYSIOLOGICAL SIGNAL PREDICTION**
[54] **SYSTEME ET PROCEDE DE FILTRAGE DE DONNEES VARIANT DANS LE TEMPS POUR UNE PREDICTION DE SIGNAL PHYSIOLOGIQUE**
[72] GERSHON, ANDREA, CA
[72] LIAQAT, DANIYAL, CA
[72] ABDALLA, MOHAMED, CA
[72] DE LARA, EYAL, CA
[72] RUDZICZ, FRANK, CA
[72] WU, ROBERT, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2021-11-22
[86] 2020-09-30 (PCT/CA2020/050718)
[87] (3139034)
[30] US (62/855,258) 2019-05-31

[21] **3,139,038**
[13] A1
[51] **Int.Cl. A61B 5/024 (2006.01) A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/021 (2006.01) A61B 5/053 (2021.01) A61B 5/11 (2006.01)**
[25] EN
[54] **SYSTEM FOR MONITORING PHYSIOLOGICAL PARAMETERS**
[54] **SYSTEME DE SURVEILLANCE DE PARAMETRES PHYSIOLOGIQUES**
[72] LIZIO, ROSARIO, DE
[72] LIEBANA VINAS, SARA, DE
[72] OCKERMANN, PHILIPP, DE
[72] HERBEAUX, JEAN-LUC, PT
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-11-22
[86] 2020-05-26 (PCT/EP2020/064537)
[87] (WO2020/239745)
[30] EP (19176667.4) 2019-05-27

[21] **3,139,039**
[13] A1
[51] **Int.Cl. A61K 8/65 (2006.01) A61K 8/34 (2006.01) A61Q 19/00 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **COLLAGEN COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS DE COLLAGENE ET LEURS UTILISATIONS**
[72] BAYER, THOMAS, IL
[71] DATUM BIOTECH LTD., IL
[85] 2021-11-22
[86] 2019-05-27 (PCT/IL2019/050597)
[87] (WO2020/240530)

[21] **3,139,041**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **RECOMBINANT 4-1BB BINDING PROTEINS AND THEIR USE**
[54] **PROTEINES DE LIAISON A 4-1BB RECOMBINEES ET LEUR UTILISATION**
[72] REICHEN, CHRISTIAN, CH
[72] LINK, ALEXANDER, CH
[72] HEPP, JULIA, CH
[72] LEVITSKY, VICTOR, CH
[71] MOLECULAR PARTNERS AG, CH
[85] 2021-11-22
[86] 2020-06-03 (PCT/EP2020/065319)
[87] (WO2020/245175)
[30] EP (19178280.4) 2019-06-04

[21] **3,139,042**
[13] A1
[51] **Int.Cl. B32B 3/26 (2006.01) B32B 7/09 (2019.01) B32B 5/02 (2006.01) B32B 5/08 (2006.01) B32B 5/10 (2006.01) B32B 5/12 (2006.01) B32B 5/26 (2006.01)**
[25] EN
[54] **BALLISTIC LAMINATE COMPRISING AT LEAST TWO PAIRS OF UNIDIRECTIONAL LAYERS, WITH FIBERS PARALLEL TO EACH OTHER AND SEPARATED BY A CONNECTING LAYER**
[54] **STRATIFIE BALISTIQUE COMPRENANT AU MOINS DEUX PAIRES DE COUCHES UNIDIRECTIONNELLES AYANT DES FIBRES PARALLELES LES UNES AUX AUTRES ET SEPAREES PAR UNE COUCHE DE LIAISON**
[72] CITTERIO, FILIPPO, IT
[72] CITTERIO, GIORGIO CELESTE, IT
[71] SOCIETA' PER AZIONI FRATELLI CITTERIO, IT
[85] 2021-11-22
[86] 2020-05-27 (PCT/EP2020/064691)
[87] (WO2020/239831)
[30] IT (102019000007419) 2019-05-28

[21] **3,139,044**
[13] A1
[51] **Int.Cl. H01J 1/34 (2006.01) H01J 29/08 (2006.01) H01J 31/50 (2006.01)**
[25] FR
[54] **PHOTOCATHODE WITH IMPROVED QUANTUM YIELD**
[54] **PHOTOCATHODE A RENDEMENT QUANTIQUE AMELIORE**
[72] LAVOUTE, PASCAL, FR
[72] NUTZEL, GERT, NL
[71] PHOTONIS FRANCE, FR
[85] 2021-11-22
[86] 2020-05-22 (PCT/FR2020/000176)
[87] (WO2020/234518)
[30] FR (1905412) 2019-05-23

[21] **3,139,047**
[13] A1
[51] **Int.Cl. E04B 5/02 (2006.01) B32B 3/08 (2006.01) B32B 3/30 (2006.01) B32B 21/14 (2006.01) E01D 19/12 (2006.01) E04C 2/30 (2006.01)**
[25] EN
[54] **CELLULOSE-BASED STRUCTURAL FLOORING PANEL ASSEMBLY**
[54] **ENSEMBLE DALLE DE PLANCHER STRUCTURELLE A BASE DE CELLULOSE**
[72] WU, THOMAS, CA
[72] KHACHI, DARLA, CA
[72] APPLEGATH, CRAIG, CA
[71] DIALOG IP CORP., CA
[85] 2021-11-22
[86] 2020-05-22 (PCT/CA2020/000063)
[87] (WO2020/243809)
[30] US (62/856,956) 2019-06-04

[21] **3,139,048**
[13] A1
[51] **Int.Cl. G01B 3/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MONITORING A BUILDING**
[54] **PROCEDE ET APPAREIL DE SUIVI D'UN BATIMENT**
[72] HOUSTON, STEPHEN T., US
[71] BIG TIME INVESTMENT, LLC, US
[85] 2021-11-22
[86] 2020-05-14 (PCT/US2020/032949)
[87] (WO2020/242779)
[30] US (16/422,374) 2019-05-24

[21] **3,139,050**
[13] A1
[51] **Int.Cl. E04G 21/00 (2006.01) E04B 1/16 (2006.01) E04C 3/00 (2006.01) E04C 3/02 (2006.01) E04G 11/22 (2006.01) E04G 21/02 (2006.01)**
[25] EN
[54] **A BUILDING INCLUDING HORIZONTALLY-ORIENTED REINFORCED TRANSFER BEAMS AND A FABRICATION METHOD THEREFOR**
[54] **BATIMENT COMPRENANT DES POUTRES DE TRANSFERT ARMEES ORIENTEES HORIZONTALEMENT ET SON PROCEDE DE FABRICATION**
[72] HOUSTON, STEPHEN T., US
[72] THREET, BRIAN K., US
[71] BIG TIME INVESTMENT, LLC, US
[85] 2021-11-22
[86] 2020-05-14 (PCT/US2020/032952)
[87] (WO2020/242780)
[30] US (16/422,386) 2019-05-24

[21] **3,139,051**
[13] A1
[51] **Int.Cl. C07K 14/435 (2006.01)**
[25] EN
[54] **MULTISPECIFIC PROTEINS**
[54] **PROTEINES MULTISPECIFIQUES**
[72] REICHEN, CHRISTIAN, CH
[72] LINK, ALEXANDER, CH
[72] HEPP, JULIA, CH
[72] LEVITSKY, VICTOR, CH
[71] MOLECULAR PARTNERS AG, CH
[85] 2021-11-22
[86] 2020-06-03 (PCT/IB2020/055247)
[87] (WO2020/245746)
[30] US (62/857,037) 2019-06-04

[21] **3,139,052**
[13] A1
[51] **Int.Cl. B60T 8/17 (2006.01) B60T 8/32 (2006.01)**
[25] FR
[54] **AIRCRAFT BRAKE SYSTEM WITH DISSIMILAR CONTROL DEVICES AND SOFTWARE MODULE USED IN THE EVENT OF A FAULT**
[54] **SYSTEME DE FREINAGE D'AERONEF AVEC DISPOSITIFS DE COMMANDE DISSIMILAIRES ET MODULE LOGICIEL UTILISE EN CAS DE DEFAILLANCE**
[72] FREY, OLIVIER, FR
[72] THIBAULT, JULIEN, FR
[72] ONFROY, DOMINIQUE, FR
[71] SAFRAN LANDING SYSTEMS, FR
[85] 2021-11-22
[86] 2020-05-22 (PCT/FR2020/050859)
[87] (WO2020/234551)
[30] FR (FR1905438) 2019-05-23

[21] **3,139,053**
[13] A1
[51] **Int.Cl. A61F 7/00 (2006.01) A42B 3/00 (2006.01) A42B 3/10 (2006.01) A61F 7/02 (2006.01) A61F 7/10 (2006.01)**
[25] EN
[54] **COOLING CAP ASSEMBLY AND COOLING UNIT**
[54] **ENSEMBLE BONNET DE REFROIDISSEMENT ET UNITE DE REFROIDISSEMENT**
[72] DILLIGAN, KATHLEEN, US
[72] WEINTRAUB, JEFFREY, US
[72] PELMAN, TODD, US
[72] MIROS, ROBERT HJ, US
[72] LOPEZ, SAMUEL M., US
[72] HUGHES, IAN E., US
[72] PAYEA, KEITH B., US
[72] SALINAS, RICARDO, US
[71] COOLER HEADS CARE, INC., US
[85] 2021-11-22
[86] 2020-06-03 (PCT/US2020/035971)
[87] (WO2020/247532)
[30] US (62/856,691) 2019-06-03
[30] US (62/882,429) 2019-08-02

[21] **3,139,054**
[13] A1
[51] **Int.Cl. F01D 5/30 (2006.01) F01D 21/02 (2006.01) F01D 21/04 (2006.01)**
[25] FR
[54] **TURBINE VANE PROVIDED WITH A RECESS FOR EMBRITTLEMENT OF A FRANGIBLE SECTION**
[54] **AUBE DE TURBINE DOTEE D'UNE CAVITE DE FRAGILISATION D'UNE SECTION FRANGIBLE**
[72] DENAUX, MATTHIEU CLAUDE JEAN, FR
[71] SAFRAN HELICOPTER ENGINES, FR
[85] 2021-11-22
[86] 2020-05-18 (PCT/EP2020/063781)
[87] (WO2020/239490)
[30] FR (FR1905588) 2019-05-27

[21] **3,139,055**
[13] A1
[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/38 (2012.01) G06F 16/906 (2019.01) G06F 16/951 (2019.01) G06N 20/00 (2019.01) G06N 5/02 (2006.01)**
[25] EN
[54] **TECHNIQUES TO AUTOMATICALLY UPDATE PAYMENT INFORMATION IN A COMPUTE ENVIRONMENT**
[54] **TECHNIQUES DE MISE A JOUR AUTOMATIQUE D'INFORMATIONS DE PAIEMENT DANS UN ENVIRONNEMENT INFORMATIQUE**
[72] BULGAKOV, MYKHAYLO, US
[72] BUTLER, TAUREAN, US
[72] CARROLL, WILLIAM F. II, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-11-22
[86] 2020-05-28 (PCT/US2020/034900)
[87] (WO2020/243286)
[30] US (16/423,939) 2019-05-28

[21] **3,139,056**
[13] A1
[51] **Int.Cl. B65D 51/28 (2006.01)**
[25] EN
[54] **CLOSURE DEVICE FOR A CONTAINER**
[54] **DISPOSITIF DE FERMETURE CONCU POUR UN CONTENANT**
[72] PRESCHE, MARTIN, DE
[71] RPC BRAMLAGE GMBH, DE
[85] 2021-11-22
[86] 2020-05-27 (PCT/EP2020/064700)
[87] (WO2020/239834)
[30] DE (10 2019 114 081.1) 2019-05-27
[30] GB (1915492.1) 2019-10-25
[30] GB (2003293.4) 2020-03-06

[21] **3,139,057**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **ANTIBODIES AND CHIMERIC ANTIGEN RECEPTORS THAT TARGET TACI**
[54] **ANTICORPS ET RECEPTEURS ANTIGENIQUES CHIMERIQUES CIBLANT LE TACI**
[72] MAUS, MARCELA V., US
[72] LARSON, REBECCA, US
[71] THE GENERAL HOSPITAL CORPORATION, US
[85] 2021-11-22
[86] 2020-06-04 (PCT/US2020/036108)
[87] (WO2020/247618)
[30] US (62/856,998) 2019-06-04
[30] US (63/012,735) 2020-04-20
[30] US (62/907,930) 2019-09-30

[21] **3,139,058**
[13] A1
[51] **Int.Cl. B01D 59/44 (2006.01) H01J 3/40 (2006.01) H01J 49/42 (2006.01)**
[25] EN
[54] **VOLTAGE CONTROL FOR ION MOBILITY SEPARATION**
[54] **COMMANDE DE TENSION POUR SEPARATION DE MOBILITE IONIQUE**
[72] ANDERSON, GORDON A., US
[72] DEBORD, JOHN DANIEL, US
[71] MOBILION SYSTEMS, INC., US
[85] 2021-11-22
[86] 2020-05-21 (PCT/US2020/033976)
[87] (WO2020/237037)
[30] US (62/850,823) 2019-05-21

[21] **3,139,059**
[13] A1
[51] **Int.Cl. G06Q 20/00 (2012.01) G06Q 30/00 (2012.01) G06Q 50/00 (2012.01)**
[25] EN
[54] **GENERATING ONLINE AUCTION LISTINGS**
[54] **GENERATION DE LISTES D'ENCHERES EN LIGNE**
[72] MACFARLAND, DEREK, US
[71] WEBCAT, LLC, US
[85] 2021-11-22
[86] 2020-05-20 (PCT/US2020/033825)
[87] (WO2020/236944)
[30] US (62/850,078) 2019-05-20

[21] **3,139,164**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01)**
[25] EN
[54] **RECOMBINANT FAP BINDING PROTEINS AND THEIR USE**
[54] **PROTEINES DE LIAISON FAP DE RECOMBINAISON ET LEUR UTILISATION**
[72] METZ, CLARA, CH
[72] MULLER, MISCHA ROLAND, CH
[72] SNELL, DAN, CH
[71] MOLECULAR PARTNERS AG, CH
[85] 2021-11-23
[86] 2020-06-03 (PCT/EP2020/065317)
[87] (WO2020/245173)
[30] EP (19178277.0) 2019-06-04

[21] **3,139,171**
[13] A1
[51] **Int.Cl. A61K 31/427 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **NEW EGFR INHIBITORS**
[54] **NOUVEAUX INHIBITEURS D'EGFR**
[72] DOLENTE, COSIMO, CH
[72] GOERGLER, ANNICK, CH
[72] HEWINGS, DAVID STEPHEN, CH
[72] JAESCHKE, GEORG, CH
[72] KUHN, BERND, CH
[72] NAGEL, YVONNE ALICE, CH
[72] NORCROSS, ROGER DAVID, CH
[72] OBST-SANDER, CHRISTA ULRIKE, CH
[72] RICCI, ANTONIO, CH
[72] RUEHER, DANIEL, CH
[72] STEINER, SANDRA, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-11-23
[86] 2020-06-19 (PCT/EP2020/067055)
[87] (WO2020/254546)
[30] EP (19181772.5) 2019-06-21

[21] **3,139,181**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 5/14 (2006.01) A61M 39/10 (2006.01)**
[25] EN
[54] **CATHETER ASSEMBLY FLUSHING DEVICE AND RELATED METHODS**
[54] **DISPOSITIF DE RINCAGE D'ENSEMBLE CATHETER ET PROCEDES CONNEXES**
[72] WANG, LIONEL, CN
[72] XUE, YUEQIANG, CN
[72] DONG, BIN, CN
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-11-23
[86] 2020-06-02 (PCT/US2020/035736)
[87] (WO2020/247384)
[30] US (62/857,360) 2019-06-05
[30] US (16/889,398) 2020-06-01

[21] **3,139,192**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 33/38 (2006.01) A61K 47/02 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING A COLLOIDAL DISPERSION AND METHODS AND USES THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UNE DISPERSION COLLOIDALE ET METHODES ET UTILISATIONS ASSOCIEES**
[72] OSTBERG, CHRISTIAN, SE
[71] PREBONA AB, SE
[85] 2021-11-23
[86] 2020-06-26 (PCT/EP2020/068113)
[87] (WO2020/260643)
[30] EP (19182655.1) 2019-06-26

[21] **3,139,194**
[13] A1
[51] **Int.Cl. B01J 21/12 (2006.01) B01J 21/18 (2006.01) B01J 23/10 (2006.01) B01J 27/20 (2006.01) B01J 35/02 (2006.01) B01J 37/03 (2006.01) B01J 37/08 (2006.01) C07C 11/167 (2006.01) C07C 33/025 (2006.01)**
[25] EN
[54] **CATALYST COMPRISING COKE AND PROCESS FOR THE PRODUCTION OF DIENES**
[54] **CATALYSEUR COMPRENANT DU COKE ET PROCESSUS DE PRODUCTION DE DIENES**
[72] VELASQUEZ OCHOA, JULIANA, IT
[72] CAVANI, FABRIZIO, IT
[72] TOSI, IRENE, IT
[72] FARCI, ERIKA, IT
[72] VECCHINI, NICOLA, IT
[71] VERSALIS S.P.A., IT
[71] ALMA MATER STUDIORUM - UNIVERSITA' DI BOLOGNA, IT
[85] 2021-11-23
[86] 2020-08-25 (PCT/IB2020/057922)
[87] (WO2021/038434)
[30] IT (102019000015069) 2019-08-27

[21] **3,139,200**
[13] A1
[51] **Int.Cl. A61F 5/00 (2006.01) A61H 1/00 (2006.01) A61H 1/02 (2006.01)**
[25] EN
[54] **FITNESS DEVICES**
[54] **DISPOSITIFS DE CONDITIONNEMENT PHYSIQUE**
[72] KISER, ROLAND, US
[72] CUCCIA, DAVID, US
[72] SQUILLANTE, ALAN, US
[71] SPINE CARE TECHNOLOGIES, INC., US
[85] 2021-11-23
[86] 2020-05-29 (PCT/US2020/035246)
[87] (WO2020/243516)
[30] US (62/855,086) 2019-05-31

[21] **3,139,201**
[13] A1
[51] **Int.Cl. B25B 7/02 (2006.01)**
[25] EN
[54] **WELDING PLIERS**
[54] **PINCES DE SOUDAGE**
[72] COOPER, EDWARD L., US
[72] ZIEMAN, NICHOLAS J., US
[71] ELCO ENTERPRISES, INC., US
[85] 2021-11-23
[86] 2020-07-09 (PCT/US2020/041406)
[87] (WO2021/007431)
[30] US (62/872,269) 2019-07-10

[21] **3,139,203**
[13] A1
[51] **Int.Cl. G21C 9/00 (2006.01) G21C 13/02 (2006.01) G21C 13/024 (2006.01)**
[25] EN
[54] **A PRESSURE-CONTAINING SILO FOR A PRESSURISED WATER REACTOR NUCLEAR POWER PLANT**
[54] **SILO SOUS PRESSION POUR CENTRALE NUCLEAIRE A REACTEUR A EAU SOUS PRESSION**
[72] ROBERTSON, DANIEL, GB
[71] ROLLS-ROYCE SMR LIMITED, GB
[85] 2021-11-23
[86] 2020-05-13 (PCT/EP2020/063267)
[87] (WO2020/239441)
[30] GB (1907379.0) 2019-05-24

[21] **3,139,205**
[13] A1
[51] **Int.Cl. G05D 16/06 (2006.01)**
[25] EN
[54] **ACTUATOR FOR A PILOT VALVE**
[54] **ACTIONNEUR POUR UNE VANNE PILOTE**
[72] COLLINS, MATTHEW, GB
[71] OFIP LIMITED, GB
[85] 2021-11-23
[86] 2020-05-28 (PCT/GB2020/051284)
[87] (WO2020/245565)
[30] GB (1908093.6) 2019-06-06

[21] **3,139,212**
[13] A1
[51] **Int.Cl. G06Q 50/02 (2012.01) G06Q 10/08 (2012.01) G06N 3/02 (2006.01)**
[25] EN
[54] **AGRICULTURAL OR INDUSTRIAL SUPPLY CHAIN DISTRIBUTED NETWORK USING MULTI-INPUT DECISION ALGORITHM**
[54] **RESEAU DISTRIBUE POUR CHAINE LOGISTIQUE AGRICOLE OU INDUSTRIELLE UTILISANT UN ALGORITHME DE DECISION A ENTREES MULTIPLES**
[72] D'AOUST, YVES, CA
[72] MONTPETIT, MARIE-JOSE, US
[72] RAINVILLE, STEPHANE, CA
[71] FERME DEHIVER TECHNOLOGIES INC., CA
[85] 2021-11-23
[86] 2020-06-10 (PCT/CA2020/050796)
[87] (WO2020/248053)
[30] US (62/859,862) 2019-06-11
[30] US (62/859,865) 2019-06-11

[21] **3,139,231**
[13] A1
[51] **Int.Cl. F27B 7/24 (2006.01) F16J 15/52 (2006.01)**
[25] EN
[54] **ROTARY KILN SEALING SYSTEM AND ROTARY KILN EQUIPMENT**
[54] **SYSTEME D'ETANCHEITE DE FOUR ROTATIF ET EQUIPEMENT DE FOUR ROTATIF**
[72] ZHU, SHUCHENG, CN
[72] WANG, XIBIN, CN
[72] LV, YANWU, CN
[72] LI, JINFENG, CN
[72] LI, FANG, CN
[72] WANG, YONGXING, CN
[71] HENAN LONGCHENG COAL HIGH EFFICIENCY TECHNOLOGY APPLICATION CO., LTD., CN
[85] 2021-11-23
[86] 2020-08-06 (PCT/CN2020/107522)
[87] (WO2021/196484)
[30] CN (202010253033.2) 2020-04-01

[21] **3,139,232**
[13] A1
[51] **Int.Cl. A61M 5/178 (2006.01) A61B 90/98 (2016.01) A61M 5/32 (2006.01)**
[25] EN
[54] **A PLASTIC FLANGE FOR A MEDICAL CONTAINER, MEDICAL CONTAINER INCLUDING THIS PLASTIC FLANGE, AND A METHOD FOR MANUFACTURING THIS MEDICAL CONTAINER**
[54] **BRIDE EN PLASTIQUE POUR RECIPIENT MEDICAL, RECIPIENT MEDICAL COMPRENANT CETTE BRIDE EN PLASTIQUE, ET METHODE DE FABRICATION DE CE RECIPIENT MEDICAL**
[72] RIVIER, CEDRIC, FR
[71] BECTON DICKINSON FRANCE, FR
[85] 2021-11-23
[86] 2020-06-23 (PCT/EP2020/067527)
[87] (WO2020/260297)
[30] EP (19305879.9) 2019-06-28

[21] **3,139,233**
[13] A1
[51] **Int.Cl. H02G 15/113 (2006.01) H02G 3/06 (2006.01) H02G 15/103 (2006.01)**
[25] EN
[54] **CLAMPING CONNECTOR**
[54] **CONNECTEUR DE SERRAGE**
[72] KOSECK, KYLE, US
[72] COUNTS, BRIAN L., US
[71] TYCO FIRE PRODUCTS LP, US
[85] 2021-11-23
[86] 2020-06-03 (PCT/IB2020/055239)
[87] (WO2020/245742)
[30] US (62/857,536) 2019-06-05

[21] **3,139,242**
[13] A1
[51] **Int.Cl. A61K 31/137 (2006.01) A61K 31/132 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR TREATMENT OF PD-L1 DISEASES**
[54] **COMPOSES POUR LE TRAITEMENT DE MALADIES PD-L1**
[72] MALATHONG, VIENGKHAM, US
[72] FAN, PINGCHEN, US
[72] LANGE, CHRISTOPHER, US
[72] MALI, VENKAT REDDY, US
[72] MCMURTRIE, DARREN J., US
[72] PUNNA, SREENIVAS, US
[72] ROTH, HOWARD S., US
[72] SINGH, RAJINDER, US
[72] YANG, JU, US
[72] ZHANG, PENGLIE, US
[71] CHEMOCENTRYX, INC., US
[85] 2021-11-23
[86] 2020-06-19 (PCT/US2020/038586)
[87] (WO2020/257549)
[30] US (62/864,002) 2019-06-20

[21] **3,139,250**
[13] A1
[51] **Int.Cl. C12N 15/13 (2006.01)**
[25] EN
[54] **CLAUDIN-6 BINDING MOLECULES AND USES THEREOF**
[54] **MOLECULES DE LIAISON A LA CLAUDINE-6 ET LEURS UTILISATIONS**
[72] KIMURA, NAOKI, JP
[72] KODAMA, TATSUSHI, JP
[72] ISHII, SHINYA, JP
[72] MURAOKA, MASARU, JP
[72] KAMIKAWA, TAKAYUKI, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2021-11-23
[86] 2020-07-10 (PCT/JP2020/026946)
[87] (WO2021/006328)
[30] JP (2019-128727) 2019-07-10

[21] **3,139,253**
[13] A1
[51] **Int.Cl. G05B 19/402 (2006.01) B64F 5/10 (2017.01) B23Q 39/02 (2006.01) G05B 19/4093 (2006.01)**
[25] FR
[54] **METHOD FOR MACHINING A METAL PANEL USING AN AUTOMATED MECHANICAL MACHINING SYSTEM**
[54] **PROCEDE D'USINAGE D'UN PANNEAU METALLIQUE PAR UN SYSTEME D'USINAGE MECANIQUE AUTOMATISE**
[72] GAULIN, NICOLAS, FR
[72] AUBERT, YOANN, FR
[72] GERARD, GIOVANNI, FR
[72] RIVALLAND, DAVID, FR
[72] LE MOAL, GWENOLE, FR
[71] STELIA AEROSPACE, FR
[85] 2021-11-23
[86] 2020-06-22 (PCT/EP2020/067375)
[87] (WO2020/260209)
[30] FR (FR1906805) 2019-06-24

[21] **3,139,273**
[13] A1
[51] **Int.Cl. D04H 17/12 (2006.01) D04H 1/4258 (2012.01) D06C 15/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR MANUFACTURING FIBROUS WEB, FIBRILLA FIBER AGGREGATE, OR NONWOVEN FABRIC, AND FIBROUS WEB, FIBRILLA FIBER AGGREGATE, OR NONWOVEN FABRIC MANUFACTURED THEREBY**
[54] **APPAREIL ET PROCEDE PERMETTANT DE FABRIQUER UNE BANDE FIBREUSE, UN AGREGAT DE FIBRES FIBRILLAIRES OU UN TISSU NON TISSE, ET BANDE FIBREUSE, AGREGAT DE FIBRES FIBRILLAIRES OU TISSU NON TISSE FABRIQUES AU MOYEN DE L'APPAREIL ET DU PROCED**
[72] YOON, HYE SUNG, KR
[72] KIM, JIN SU, KR
[71] SAMYANG HOLDINGS CORPORATION, KR
[85] 2021-11-23
[86] 2019-06-12 (PCT/KR2019/007068)
[87] (WO2020/241960)
[30] KR (10-2019-0061369) 2019-05-24

[21] **3,139,285**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CASEIN KINASE 1.EPSILON. INHIBITOR, PHARMACEUTICAL COMPOSITION AND APPLICATION THEREOF**
[54] **INHIBITEUR DE CASEINE KINASE 1?, COMPOSITION PHARMACEUTIQUE ET UTILISATION ASSOCIEE**
[72] ZHOU, XINGLU, CN
[72] LIU, XINGGUO, CN
[72] HU, MIAO, CN
[71] HANGZHOU HEALZEN THERAPEUTICS CO., LTD., CN
[85] 2021-11-23
[86] 2020-06-23 (PCT/CN2020/097577)
[87] (WO2020/259463)
[30] CN (201910565300.7) 2019-06-27

[21] **3,139,288**
[13] A1
[51] **Int.Cl. A61K 31/01 (2006.01) A61K 31/015 (2006.01) A61K 31/045 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USING CANNABINOIDS FOR TREATING STAMMERING/STUTERING AND SYMPTOMS OF TOURETTE SYNDROME**
[54] **COMPOSITIONS ET PROCEDES UTILISANT DES CANNABINOIDES POUR TRAITER LE BEGAIEMENT ET LES SYMPTOMES DU SYNDROME DE LA TOURETTE**
[72] MUKUNDA, RAMACHANDRA, US
[72] RAO, JAGADEESH S., US
[72] MUKUNDA, AMAR R., US
[71] INDIA GLOBALIZATION CAPITAL, INC., US
[85] 2021-11-23
[86] 2020-05-26 (PCT/US2020/034602)
[87] (WO2020/237247)

[21] **3,139,291**
[13] A1
[51] **Int.Cl. A61K 38/21 (2006.01) A61K 31/4164 (2006.01) A61K 31/496 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) A61P 31/12 (2006.01) A61P 31/20 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHOD FOR DECREASING ADVERSE-EFFECTS OF INTERFERON**
[54] **PROCEDE POUR DIMINUER LES EFFETS SECONDAIRES DE L'INTERFERON**
[72] VONDERSCHER, JACKY, FR
[72] ROY, ELISE, CH
[72] DARTEIL, RAPHAEL, FR
[72] SCALFARO, PIETRO, CH
[71] ENYO PHARMA, FR
[85] 2021-11-23
[86] 2020-07-17 (PCT/EP2020/070240)
[87] (WO2021/009332)
[30] EP (19186949.4) 2019-07-18

[21] **3,139,292**
[13] A1
[51] **Int.Cl. B01D 69/02 (2006.01) B01D 69/12 (2006.01) B01D 71/36 (2006.01)**
[25] EN
[54] **CELL ENCAPSULATION DEVICES WITH CONTROLLED OXYGEN DIFFUSION DISTANCES**
[54] **DISPOSITIFS D'ENCAPSULATION DE CELLULES PRESENTANT DES DISTANCES DE DIFFUSION D'OXYGENE REGULEES**
[72] BRUHN, TIMOTHY M., US
[72] D'AMOUR, KEVIN, US
[72] FOLK, CHRISTOPHER, US
[72] GUNZEL, EDWARD, US
[72] KROON, EVERT, US
[72] MARTINSON, LAURA, US
[72] MCGREEVY, CRAIG, US
[72] RITROVATO, SCOTT, US
[72] RUSCH, GREG, US
[72] SCOTT, MICHAEL, US
[72] ZAMBOTTI, LAUREN R., US
[72] ZHANG, QIANG (JOHN), US
[72] KAKKASSERY, JOSEPH, US
[71] W. L. GORE & ASSOCIATES, INC., US
[71] VIACYTE, INC, US
[85] 2021-11-23
[86] 2020-05-30 (PCT/US2020/035452)
[87] (WO2020/243668)
[30] US (62/855,676) 2019-05-31

[21] **3,139,293**
[13] A1
[51] **Int.Cl. C09C 3/00 (2006.01) C09D 11/03 (2014.01) C09D 11/322 (2014.01) C09D 11/326 (2014.01) C09D 7/45 (2018.01) C09C 3/10 (2006.01) C09D 17/00 (2006.01)**
[25] EN
[54] **COLOURING AND FILLER PASTES USING INORGANIC PARTICLES WITH COATED SURFACE AS A SPACER**
[54] **PATES DE COLORATION ET DE CHARGE UTILISANT DES PARTICULES INORGANIQUES AYANT UNE SURFACE REVETUE EN TANT QU'ELEMENT ECARTEUR**
[72] STEINER, MICHAEL, DE
[72] CAVELIUS, CHRISTIAN, DE
[72] SCHIRRA, HERMANN, DE
[71] NANOSAAR LAB GMBH, DE
[85] 2021-11-23
[86] 2020-08-06 (PCT/EP2020/072141)
[87] (WO2021/028310)
[30] DE (20 2019 104 416.0) 2019-08-09
[30] EP (19217867.1) 2019-12-19

[21] **3,139,299**
[13] A1
[51] **Int.Cl. A01N 47/14 (2006.01)**
[25] EN
[54] **DITHIOCARBAMATE FUNGICIDE MACROMOLECULAR COMPLEXES**
[54] **COMPLEXES MACROMOLECULAIRES DE FONGICIDES DITHIOCARBAMATES**
[72] VAN DER KRIEKEN, WILHELMUS MARIA, NL
[72] MAZZITELLI, STEFANIA, NL
[71] ADAMA MAKHTESHIM LTD., IL
[85] 2021-11-23
[86] 2020-05-28 (PCT/IB2020/055089)
[87] (WO2020/240478)
[30] EP (19177114.6) 2019-05-28

[21] **3,139,302**
[13] A1
[51] **Int.Cl. A61B 8/00 (2006.01) A61B 17/22 (2006.01) A61B 18/08 (2006.01) A61B 18/14 (2006.01) A61L 2/025 (2006.01)**
[25] EN
[54] **COLONIC TREATMENT METHODS AND APPARATUS**
[54] **PROCEDES ET APPAREIL DE TRAITEMENT DU COLON**
[72] BORODY, THOMAS JULIUS, AU
[72] MILIS, ANTONY, AU
[71] BORODY, THOMAS JULIUS, AU
[71] MILIS, ANTONY, AU
[85] 2021-11-23
[86] 2020-07-30 (PCT/AU2020/050774)
[87] (WO2021/022320)
[30] US (62/882,412) 2019-08-02

[21] **3,139,307**
[13] A1
[51] **Int.Cl. B28C 7/02 (2006.01) G05D 11/13 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING MORTAR-BASED ELEMENTS**
[54] **PROCEDE DE FABRICATION D'ELEMENTS A BASE DE MORTIER**
[72] OPDENBUSCH, KERSTEN, DE
[72] BLAAKMEER, JAN, NL
[72] NUNES LOBO, BRUNO MIGUEL, NL
[72] PIERTZIK, LUTZ, DE
[72] HOFMANN, TANJA, DE
[71] SAINT-GOBAIN WEBER, FR
[85] 2021-11-23
[86] 2020-06-24 (PCT/EP2020/067670)
[87] (WO2020/260375)
[30] EP (19182629.6) 2019-06-26

[21] **3,139,309**
[13] A1
[51] **Int.Cl. H01F 1/00 (2006.01) G07D 7/206 (2016.01) G01N 24/10 (2006.01) G01R 33/30 (2006.01) G01R 33/60 (2006.01) G07D 7/04 (2016.01) H01F 1/42 (2006.01)**
[25] EN
[54] **UNIQUE IDENTIFICATION AND AUTHENTICATION OF PRODUCTS**
[54] **IDENTIFICATION ET AUTHENTIFICATION UNIVOQUES DE PRODUITS**
[72] WINDHAB, NORBERT, DE
[72] BURTON, KEVIN, US
[72] SPENCER, PAUL JOSEPH, DE
[72] MULLER-ALBERS, JESSICA, DE
[72] ENGEL, ANDREA, US
[72] NIEPOTH, PETER, DE
[72] ALEXOWSKY, RUDIGER, DE
[72] LYUBINA, JULIA, DE
[72] BRUCHER, CHRISTOPH, DE
[72] DENTLER, CARSTEN, DE
[72] KARAU, ANDREAS, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-11-23
[86] 2020-06-04 (PCT/EP2020/065502)
[87] (WO2020/245280)
[30] US (62/856,795) 2019-06-04

[21] **3,139,310**
[13] A1
[51] **Int.Cl. C03B 5/24 (2006.01) C03B 5/225 (2006.01) C03B 5/235 (2006.01) C03B 7/00 (2006.01) C03C 1/00 (2006.01)**
[25] EN
[54] **UTILIZATION OF SULFATE IN THE FINING OF SUBMERGED COMBUSTION MELTED GLASS**
[54] **UTILISATION DE SULFATE DANS L'AFFINAGE DE VERRE FONDU PAR COMBUSTION EN IMMERSION**
[72] PINC, WILLIAM, US
[72] VEMPATI, UDAYA, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2021-11-23
[86] 2020-09-30 (PCT/US2020/053403)
[87] (WO2021/067356)
[30] US (16/590,079) 2019-10-01

[21] **3,139,312**
[13] A1
[51] **Int.Cl. G10L 15/00 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INFORMATION RETRIEVAL FOR NOISY DATA**
[54] **SYSTEME ET PROCEDE DE RECUPERATION D'INFORMATIONS POUR DONNEES BRUITEES**
[72] BARBOUR, JESSE LEE, US
[71] Q2 SOFTWARE, INC., US
[85] 2021-11-23
[86] 2020-05-29 (PCT/US2020/035131)
[87] (WO2020/243437)
[30] US (62/855,328) 2019-05-31

[21] **3,139,313**
[13] A1
[51] **Int.Cl. E21B 43/267 (2006.01)**
[25] EN
[54] **FULLY ELECTRIC-DRIVE SAND-MIXING APPARATUS, AND AUTOMATIC CONTROL SYSTEM FOR FULLY ELECTRIC-DRIVE SAND-MIXING APPARATUS**
[54] **APPAREIL DE MELANGE DE SABLE A ENTRAINEMENT ENTIEREMENT ELECTRIQUE ET SYSTEME DE COMMANDE AUTOMATIQUE POUR APPAREIL DE MELANGE DE SABLE A ENTRAINEMENT ENTIEREMENT ELECTRIQUE**
[72] TIAN, YU, CN
[72] LI, HONGSHAN, CN
[72] GE, DALANG, CN
[72] LIU, BO, CN
[72] LI, SHUIHUA, CN
[71] SICHUAN HONGHUA PETROLEUM EQUIPMENT CO., LTD, CN
[85] 2021-11-23
[86] 2020-05-27 (PCT/CN2020/092445)
[87] (WO2020/238920)
[30] CN (201910450747.X) 2019-05-28

[21] **3,139,314**
[13] A1
[51] **Int.Cl. A61K 31/353 (2006.01)**
[25] EN
[54] **IMMUNO-ONCOLOGY THERAPY USING ISOFLAVONE COMPOUNDS**
[54] **THERAPIE IMMUNO-ONCOLOGIQUE A L'AIDE DE COMPOSES D'ISOFLAVONE**
[72] KELLY, GRAHAM, AU
[72] LACZKA, OLIVIER, AU
[71] NOXOPHARM LIMITED, AU
[85] 2021-11-23
[86] 2020-07-16 (PCT/AU2020/050730)
[87] (WO2021/007618)
[30] AU (2019902518) 2019-07-17

[21] **3,139,315**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) A61K 8/22 (2006.01) A61K 9/00 (2006.01) A61K 36/889 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) A61P 17/04 (2006.01) A61P 17/06 (2006.01) A61P 17/08 (2006.01) A61P 17/10 (2006.01) A61P 17/12 (2006.01) A61P 17/16 (2006.01) A61P 17/18 (2006.01)**
[25] EN
[54] **OXYGENATED CANNABIS SKIN THERAPY COMPOSITIONS**
[54] **COMPOSITIONS DE THERAPIE DE LA PEAU A BASE DE CANNABIS OXYGENE**
[72] PAUWELS, DAVID, US
[72] ANDERSEN, TIFFANY, US
[71] PAUWELS, DAVID, US
[71] ANDERSEN, TIFFANY, US
[85] 2021-11-23
[86] 2020-05-21 (PCT/US2020/034024)
[87] (WO2020/237065)
[30] US (62/852,132) 2019-05-23

[21] **3,139,316**
[13] A1
[51] **Int.Cl. E03D 9/03 (2006.01)**
[25] EN
[54] **SUBSTANCE DISPENSER, USE THEREOF, AND METHOD FOR MANUFACTURING**
[54] **DISTRIBUTEUR DE SUBSTANCE, SON UTILISATION ET PROCEDE DE FABRICATION**
[72] DE WAAL, OSKAR ANTHONI, NL
[71] TOILET TAPES B.V., NL
[85] 2021-11-23
[86] 2020-05-22 (PCT/NL2020/050330)
[87] (WO2020/236003)
[30] NL (2023183) 2019-05-23

[21] **3,144,031**
[13] A1
[25] EN
[54] **NOVEL GROOVE CUTTER WITH CHIP BREAKER**
[54] **NOUVEAU COUTEAU A RAINURE AVEC BRISE-COPEAUX**
[72] ZHANG, ZONGCHAO, CN
[72] HAN, QI, CN
[72] HAN, SHUO, CN
[72] WANG, YANYAN, CN
[71] BEIJING WORLDIA DIAMOND TOOLS CO., LTD., CN
[85] 2021-12-23
[86] 2021-07-06 (PCT/CN2021/104804)
[87] (3144031)
[30] CN (202010705641.2) 2020-07-21

[21] **3,144,534**
[13] A1
[51] **Int.Cl. A61K 31/505 (2006.01) A61K 31/5365 (2006.01) A61K 31/675 (2006.01) A61K 31/683 (2006.01) A61K 31/7068 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **METHODS OF TREATING HIV IN PEDIATRIC PATIENTS WITH RILPIVIRINE**
[54] **PROCEDES DE TRAITEMENT DU VIH CHEZ DES PATIENTS PEDIATRIQUES PAR LA RILPIVIRINE**
[72] CRAUWELS, HERTA, BE
[72] VANVEGGEL, SIMON, BE
[72] VAN EYGEN, VEERLE, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-12-21
[86] 2020-07-02 (PCT/EP2020/068734)
[87] (WO2021/001508)
[30] US (62/870,413) 2019-07-03

[21] **3,144,538**
[13] A1
[51] **Int.Cl. B23K 26/00 (2014.01) B23K 26/24 (2014.01)**
[25] EN
[54] **A METHOD FOR MANUFACTURING A STEEL SHEET PRODUCT**
[54] **PROCEDE DE FABRICATION D'UN PRODUIT EN TOLE D'ACIER**
[72] CARLESTAM, ANDERS, SE
[72] THORSTENSSON, OSKAR, SE
[72] KNUTSSON, JIMMY, SE
[72] EIDELOF, HANS, SE
[72] THUNELL, JONAS, SE
[71] SSAB TECHNOLOGY AB, SE
[85] 2021-12-21
[86] 2020-07-02 (PCT/EP2020/068715)
[87] (WO2021/004900)
[30] EP (19185119.5) 2019-07-09

[21] **3,144,540**
[13] A1
[51] **Int.Cl. A61K 31/133 (2006.01) A61P 17/00 (2006.01) A61P 37/08 (2006.01)**
[25] FR
[54] **METHOD FOR CARING FOR THE SKIN OR COAT OF ANIMALS**
[54] **PROCEDE DE SOIN DE LA PEAU OU DU PELAGE D'ANIMAUX**
[72] ROUGIER, MELANIE, FR
[72] ZEMIRLINE, CLAUDINE, FR
[72] OLIVIER, ELODIE, FR
[71] CEVA SANTE ANIMALE, FR
[85] 2021-12-21
[86] 2020-06-26 (PCT/EP2020/067990)
[87] (WO2020/260559)
[30] EP (19305857.5) 2019-06-26

[21] **3,144,706**
[13] A1
[51] **Int.Cl. F04B 43/00 (2006.01) F04B 43/08 (2006.01) F04B 43/10 (2006.01) F04F 5/10 (2006.01) F04F 5/46 (2006.01)**
[25] EN
[54] **CYCLIC OPERATING PUMPING METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE POMPAGE A FONCTIONNEMENT CYCLIQUE**
[72] SPEIJERS, SAM, NL
[71] ALTOP PATENTS III B.V., NL
[85] 2021-12-22
[86] 2019-07-25 (PCT/EP2019/070022)
[87] (WO2021/013350)

[21] **3,144,920**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **MESH NETWORK FOR PARENT-CHILD PACKAGE MONITORING**
[54] **RESEAU MAILLE DE SURVEILLANCE PARENT-ENFANT DE COLIS**
[72] SKONBERG, CARL M., US
[72] ABEBE, TED, US
[72] TYLER, DANIEL PAUL, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2022-01-19
[86] 2020-08-04 (PCT/US2020/044853)
[87] (WO2021/026131)
[30] US (62/882,718) 2019-08-05
[30] US (16/984,327) 2020-08-04

[21] **3,144,984**
[13] A1
[51] **Int.Cl. G06T 7/579 (2017.01) G06T 7/246 (2017.01) G01B 11/02 (2006.01) G01C 21/16 (2006.01) G06K 9/00 (2022.01) G06T 7/60 (2017.01)**
[25] EN
[54] **MONOCULAR VISUAL-INERTIAL ALIGNMENT FOR SCALED DISTANCE ESTIMATION ON MOBILE DEVICES**
[54] **ALIGNEMENT DE DONNEES VISUELLES MONOCULAIRES ET INERTIELLES POUR ESTIMATION D'UNE DISTANCE A L'ECHELLE SUR DES DISPOSITIFS MOBILES**
[72] GERMAN, STAN, US
[72] KIM, MICHAEL, US
[72] ROTH, HENRY, US
[71] CHARLES RIVER ANALYTICS, INC., US
[85] 2021-12-22
[86] 2020-08-24 (PCT/US2020/047626)
[87] (WO2021/035213)
[30] US (62/890,349) 2019-08-22

[21] **3,145,011**
[13] A1
[51] **Int.Cl. F04D 29/44 (2006.01) F04D 7/04 (2006.01)**
[25] EN
[54] **FLOW CORRECTOR AND PUMP ASSEMBLY INCLUDING A FLOW CORRECTOR**
[54] **CORRECTEUR D'ECOULEMENT ET ENSEMBLE POMPE COMPRENANT UN CORRECTEUR D'ECOULEMENT**
[72] BUITENDAG, MARTHINUS JACOBUS, ZA
[72] DE VILLIERS, CONRAD GRABE, ZA
[72] BRANDT, ADIAN, ZA
[71] BATTLEMAX (PTY) LTD, ZA
[85] 2021-12-22
[86] 2020-09-16 (PCT/ZA2020/050048)
[87] (WO2021/056036)
[30] ZA (2019/06122) 2019-09-17

[21] **3,145,024**
[13] A1
[51] **Int.Cl. C08B 37/08 (2006.01) A61K 9/10 (2006.01) A61K 31/728 (2006.01) A61P 27/02 (2006.01) C08J 3/075 (2006.01) C08J 3/24 (2006.01)**
[25] EN
[54] **HYDROGEL COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS D'HYDROGEL ET UTILISATIONS ASSOCIEES**
[72] SHOICHET, MOLLY SANDRA, CA
[72] BAKER, ALEXANDER EDGAR GILBERT, CA
[72] TAM, ROGER YUE TING, CA
[71] SHOICHET, MOLLY SANDRA, CA
[85] 2021-12-23
[86] 2020-07-03 (PCT/CA2020/050927)
[87] (WO2021/000050)
[30] US (62/870,497) 2019-07-03

[21] **3,145,027**
[13] A1
[51] **Int.Cl. B26D 7/00 (2006.01) B21D 33/00 (2006.01) B26D 1/06 (2006.01) B26D 3/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CUTTING A METALLIC FILM**
[54] **SYSTEME ET PROCEDE DE DECOUPE D'UN FILM METALLIQUE**
[72] BEAUCHAMP, JACQUES, CA
[72] FUSEY, PHILIPPE, CA
[71] BLUE SOLUTIONS CANADA INC., CA
[85] 2021-12-23
[86] 2020-08-27 (PCT/CA2020/051174)
[87] (WO2021/035357)
[30] US (62/892,461) 2019-08-27

[21] **3,145,030**
[13] A1
[51] **Int.Cl. C08F 2/01 (2006.01) C08J 11/02 (2006.01) C08F 210/06 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING POLYPROPYLENE WITH IMPROVED RECOVERY**
[54] **PROCEDE DE PREPARATION DE POLYPROPYLENE A RECUPERATION AMELIOREE**
[72] DISSAUER, CHRISTOPH, DE
[72] BRUCKBAUER, STEFAN, DE
[71] BOREALIS AG, AT
[85] 2021-12-23
[86] 2020-06-10 (PCT/EP2020/066096)
[87] (WO2020/260021)
[30] EP (19182085.1) 2019-06-24

[21] **3,145,042**
[13] A1
[51] **Int.Cl. B24B 19/00 (2006.01) B24B 3/33 (2006.01) E21B 41/04 (2006.01)**
[25] EN
[54] **IMPROVED CONTROL SYSTEM FOR GRINDING APPARATUS**
[54] **SYSTEME DE COMMANDE AMELIORE POUR APPAREIL DE MEULAGE**
[72] SJOLANDER, BO THOMAS, CA
[72] SJOLANDER, BJORN, CA
[71] C.M.E. BLASTING & MINING EQUIPMENT LTD., CA
[85] 2021-12-23
[86] 2020-06-25 (PCT/CA2020/000076)
[87] (WO2020/257911)
[30] CA (3.048.076) 2019-06-25

[21] **3,145,044**
[13] A1
[51] **Int.Cl. H05K 7/14 (2006.01) H01R 13/64 (2006.01) H05K 1/03 (2006.01) D06C 29/00 (2006.01) G01C 19/00 (2013.01) G01K 1/14 (2021.01) G01P 15/00 (2006.01)**
[25] EN
[54] **ELECTRONICS-TO-TEXTILE INTERCONNECTION METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME D'INTERCONNEXION ENTRE UNE ELECTRONIQUE ET UN TEXTILE**
[72] STRAKA, ADRIAN PHILIP, CA
[72] KWOK, CALVIN FOOK-LAM, CA
[72] LEIPHART, CHRISTOPHER ROBIN, CA
[72] TIAU, YEH-YUN, CA
[72] ZHENG, MICHELLE, CA
[71] MYANT INC., CA
[85] 2021-12-23
[86] 2020-06-25 (PCT/CA2020/050882)
[87] (WO2020/257933)
[30] US (62/868,560) 2019-06-28

[21] **3,145,046**
[13] A1
[51] **Int.Cl. C02F 9/02 (2006.01) B01D 36/02 (2006.01) B01D 61/14 (2006.01) B01D 61/20 (2006.01) C02F 1/00 (2006.01) C02F 1/28 (2006.01) C02F 1/44 (2006.01) C01B 32/182 (2017.01)**
[25] EN
[54] **GRAPHENE BASED FILTERS AND SYSTEMS COMPRISING SAME**
[54] **FILTRES A BASE DE GRAPHENE ET SYSTEMES LES COMPRENANT**
[72] SHANNON, MICHAEL EDWARD, CA
[72] ZHOU, YANG, CA
[72] RUNTE, CAMERON S., CA
[72] MANGA, KIRAN KUMAR, SG
[72] BALAPANURU, JANARDHAN, SG
[71] GRAFOID INC., CA
[85] 2021-12-23
[86] 2020-06-29 (PCT/CA2020/050906)
[87] (WO2020/257950)
[30] US (62/868,217) 2019-06-28

[21] **3,145,052**
[13] A1
[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/14 (2018.01) A01H 5/12 (2018.01)**
[25] EN
[54] **TOMATO SPOTTED WILT VIRUS RESISTANCE IN CICHORIUM**
[54] **RESISTANCE DU VIRUS DES TACHES BRONZEES DE TOMATE CHEZ LE CICHORIUM**
[72] HAARSMA, ADRIANA DORIEN, NL
[72] ZUTT, NICOLAAS ANTHONIUS, NL
[72] ZATTONI, ROBERTO, NL
[72] SCHRIJVER, ALBERTUS JOHANNES MARIA, NL
[71] BEJO ZADEN B.V., NL
[85] 2021-12-23
[86] 2019-07-05 (PCT/EP2019/068153)
[87] (WO2021/004611)

[21] **3,145,078**
[13] A1
[51] **Int.Cl. G06Q 10/04 (2012.01) G01C 21/20 (2006.01)**
[25] EN
[54] **METHOD FOR OPTIMIZING AVIATION RADIATION AND DOSE MONITORING SYSTEM**
[54] **PROCEDE D'OPTIMISATION DE RADIATION EN AVIATION ET SYSTEME DE SURVEILLANCE DE DOSE**
[72] ACKERMANN, LARS, DE
[72] EPIFANIO SEBASTIAO, SERGIO, DE
[72] GABRIEL, HARRY, DE
[72] GRASNICK, CLAUDIUS, DE
[71] FRAMATOME GMBH, DE
[85] 2021-12-23
[86] 2019-07-23 (PCT/EP2019/069828)
[87] (WO2021/013342)

[21] **3,145,084**
[13] A1
[51] **Int.Cl. A61K 36/9066 (2006.01) A61K 31/00 (2006.01) A61K 47/00 (2006.01)**
[25] EN
[54] **BIOAVAILABLE TURMERIC COMPOSITION AND PROCESS FOR PREPARATION THEREOF**
[54] **COMPOSITION DE CURCUMA BIODISPONIBLE ET SON PROCEDE DE PREPARATION**
[72] NIRVANASHETTY, SOMASHEKARA, IN
[72] PANDA, SANJIB KUMAR, IN
[72] PARACHUR, VIVEK ANAND, IN
[71] OLENE LIFE SCIENCES PRIVATE LIMITED, IN
[85] 2021-11-29
[86] 2020-06-11 (PCT/IN2020/050519)
[87] (WO2020/250245)
[30] IN (201941023055) 2019-06-11

[21] **3,145,089**
[13] A1
[51] **Int.Cl. C05G 3/90 (2020.01) C05G 5/30 (2020.01) C05C 9/00 (2006.01) C09D 191/06 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN AND RELATING TO FERTILISER COMPOSITIONS**
[54] **AMELIORATIONS APPORTEES ET ASSOCIEES A DES COMPOSITIONS D'ENGRAIS**
[72] ZANDER, MURRAY SELWIN, NZ
[72] ZANDER, REGAN JAMES, NZ
[71] GLAZE COATINGS LIMITED, NZ
[85] 2021-12-22
[86] 2020-08-10 (PCT/NZ2020/050087)
[87] (WO2021/025565)
[30] NZ (756188) 2019-08-08
[30] NZ (760305) 2019-12-24

[21] **3,145,092**
[13] A1
[51] **Int.Cl. A61G 7/10 (2006.01)**
[25] EN
[54] **A PATIENT TRANSFER DEVICE**
[54] **DISPOSITIF DE TRANSFERT DE PATIENT**
[72] CAGNER, BARBRO, SE
[72] AHRNSTEIN, JACOB, SE
[72] THUNSTROM, DANIEL, SE
[72] JONSSON, LUKAS, SE
[71] NJORD INTERNATIONAL AB, SE
[85] 2021-12-22
[86] 2020-07-02 (PCT/SE2020/050702)
[87] (WO2021/006799)
[30] SE (1950858-9) 2019-07-05

[21] **3,145,096**
[13] A1
[51] **Int.Cl. A61K 31/336 (2006.01) A61P 29/00 (2006.01) C07C 15/04 (2006.01) C07D 207/46 (2006.01) C07D 303/32 (2006.01)**
[25] EN
[54] **SUBSTITUTED ALKYLPHENOLS AS HCN1 ANTAGONISTS**
[54] **ALKYLPHENOLS SUBSTITUES EN TANT QU'ANTAGONISTES DE HCN1**
[72] TIBSS, GARETH R., US
[72] GOLDSTEIN, PETER, US
[72] SAUVE, ANTHONY A., US
[72] UPRETY, RAJENDRA, US
[72] WARREN, JAMES DAVID JR., US
[72] JOYCE, REBECCA L., US
[72] BARMAN, DIPTI N., US
[71] CORNELL UNIVERSITY, US
[85] 2021-12-22
[86] 2019-06-27 (PCT/US2019/039493)
[87] (WO2020/006224)
[30] US (62/690,778) 2018-06-27
[30] US (62/803,109) 2019-02-08

[21] **3,145,097**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61F 2/28 (2006.01)**
[25] EN
[54] **MAGNETIC RESONANCE IMAGING COMPATIBLE, CONVECTION-ENHANCED DELIVERY CRANIAL IMPLANT DEVICES AND RELATED METHODS**
[54] **DISPOSITIFS D'IMPLANT CRANIEN D'ADMINISTRATION A CONVECTION AMELIOREE, COMPATIBLES AVEC UNE IMAGERIE PAR RESONANCE MAGNETIQUE ET PROCEDES ASSOCIES**
[72] GORDON, CHAD R., US
[72] WEINGART, JON D., US
[72] CHOI, SEYEON, US
[72] DADFAR, VICTOR, US
[72] FANG, VICTORIA, US
[72] HUANG, DANIEL, US
[72] LI, ZHOU, US
[72] LU, ANGELA, US
[72] VAN-RENTERGHEM, HADLEY, US
[72] WEIDMAN, DEBORAH, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2021-12-22
[86] 2019-06-27 (PCT/US2019/039519)
[87] (WO2020/006240)
[30] US (62/692,111) 2018-06-29

[21] **3,145,099**
[13] A1
[51] **Int.Cl. G01N 29/00 (2006.01) G01N 29/11 (2006.01) G08C 19/12 (2006.01)**
[25] EN
[54] **HIGH SPEED ACOUSTIC COMMUNICATIONS AND TELEMETRY VIA SOLID PIECES**
[54] **COMMUNICATIONS ACOUSTIQUES A GRANDE VITESSE ET TELEMESURE PAR L'INTERMEDIAIRE DE PIECES SOLIDES**
[72] ABDI, ALI, US
[71] ABDI, ALI, US
[85] 2021-12-22
[86] 2019-08-20 (PCT/US2019/047317)
[87] (WO2020/041351)
[30] US (62/765,301) 2018-08-20

[21] **3,145,100**
[13] A1
[51] **Int.Cl. H01Q 1/24 (2006.01) H01Q 3/26 (2006.01) H01Q 21/00 (2006.01)**
[25] EN
[54] **BASE STATION ANTENNA**
[54] **ANTENNE DE STATION DE BASE**
[72] WU, BO, CN
[72] ZHANG, XUN, CN
[72] ZHANG, JIAN, CN
[71] COMMSCOPE TECHNOLOGIES LLC, US
[85] 2021-12-22
[86] 2020-06-08 (PCT/US2020/036629)
[87] (WO2020/263548)
[30] CN (201910546126.1) 2019-06-24
[30] US (16/522,146) 2019-07-25
[30] EP (19193007.2) 2019-08-22

[21] **3,145,102**
[13] A1
[51] **Int.Cl. H02J 3/32 (2006.01) G05F 1/66 (2006.01) H02J 9/04 (2006.01)**
[25] EN
[54] **GRID-TIED ELECTRIC METER ADAPTER AND SYSTEMS FOR AUTOMATED POWER RESILIENCE AND ON-DEMAND GRID BALANCING**
[54] **ADAPTATEUR DE COMPTEUR ELECTRIQUE LIE A UNE GRILLE ET SYSTEMES POUR RESILIENCE DE PUISSANCE AUTOMATISEE ET EQUILIBRAGE DE GRILLE A LA DEMANDE**
[72] DONAHUE, PAUL W., US
[72] DONAHUE, RYAN PAUL, US
[72] DANKWORTH, JEFFREY ALAN, US
[71] NEWORLD.ENERGY LLC, US
[85] 2021-12-22
[86] 2020-06-09 (PCT/US2020/036802)
[87] (WO2021/003006)
[30] US (62/870,543) 2019-07-03
[30] US (62/941,173) 2019-11-27
[30] US (62/968,523) 2020-01-31
[30] US (16/843,063) 2020-04-08
[30] US (16/843,163) 2020-04-08

[21] **3,145,103**
[13] A1
[51] **Int.Cl. B62D 55/12 (2006.01)**
[25] EN
[54] **WINGED SPROCKET SEGMENTS WITH NOTCHES**
[54] **SEGMENTS DE PIGNON A AILETTES DOTES ENCOCHES**
[72] BLAND, ARTHUR J., US
[72] HAKES, DAVID J., US
[71] CATERPILLAR INC., US
[85] 2021-12-22
[86] 2020-06-11 (PCT/US2020/037149)
[87] (WO2021/006988)
[30] US (16/507,451) 2019-07-10

[21] **3,145,105**
[13] A1
[51] **Int.Cl. B01D 53/26 (2006.01) B01D 53/06 (2006.01)**
[25] EN
[54] **DRYER FOR COMPRESSED GAS, COMPRESSOR INSTALLATION PROVIDED WITH A DRYER AND A METHOD FOR DRYING COMPRESSED GAS.**
[54] **SECHEUR POUR GAZ COMPRIME, INSTALLATION DE COMPRESSEUR EQUIPEE D'UN SECHEUR ET PROCEDE DE SECHAGE DE GAZ COMPRIME**
[72] CREPAIN, THIBAULT, BE
[72] HELLEMANS, GEERT, BE
[71] ATLAS COPCO AIRPOWER N.V., BE
[85] 2021-12-22
[86] 2020-08-14 (PCT/IB2020/057662)
[87] (WO2021/033100)
[30] BE (BE2019/5534) 2019-08-16
[30] BE (BE2019/5535) 2019-08-16
[30] BE (BE2019/5537) 2019-08-16
[30] BE (BE2019/5538) 2019-08-16

[21] **3,145,106**
[13] A1
[51] **Int.Cl. C02F 1/32 (2006.01) C02F 1/52 (2006.01) C02F 1/54 (2006.01)**
[25] EN
[54] **LOW COST AND SANITARY EFFICIENT SYSTEM AND METHOD THAT CREATES TWO DIFFERENT TREATMENT ZONES IN LARGE WATER BODIES TO FACILITATE DIRECT CONTACT RECREATIONAL ACTIVITIES**
[54] **SYSTEME ET PROCEDE PEU COUTEUX ET EFFICACES SUR LE PLAN SANITAIRE CREANT DEUX ZONES DE TRAITEMENT DIFFERENTES DANS DE GRANDES MASSES D'EAU POUR FACILITER DES ACTIVITES RECREATIVES A CONTACT DIRECT**
[72] FISCHMANN, FERNANDO BENJAMIN, CL
[71] CRYSTAL LAGOONS TECHNOLOGIES, INC., US
[85] 2021-12-22
[86] 2020-05-28 (PCT/US2020/034909)
[87] (WO2020/263488)
[30] US (16/456,762) 2019-06-28

[21] **3,145,108**
[13] A1
[51] **Int.Cl. C12N 15/63 (2006.01) C12N 15/67 (2006.01) C12P 7/06 (2006.01) C12P 13/04 (2006.01) C12P 13/08 (2006.01)**
[25] EN
[54] **MODIFIED YEAST CELLS THAT OVER-EXPRESS SELECTED ENDOGENOUS PROTEINS**
[54] **CELLULES DE LEVURE MODIFIEES QUI SUREXPRIMENT DES PROTEINES ENDOGENES SELECTIONNEES**
[72] DEMARTINI, JACLYN DIANA, US
[72] PAYEN, CELIA EMILY GABY, US
[71] DANISCO US INC, US
[85] 2021-12-22
[86] 2020-06-22 (PCT/US2020/038884)
[87] (WO2020/263722)
[30] US (62/868,295) 2019-06-28

[21] **3,145,109**
[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01) A61K 47/55 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CANNABINOID CONJUGATE MOLECULES**
[54] **MOLECULES CONJUGUEES DE CANNABINOIDES**
[72] HERSHBERGER, PAUL, US
[72] ARLEN, PHILIP, US
[71] DIVERSE BIOTECH, INC., US
[85] 2021-12-22
[86] 2020-06-24 (PCT/US2020/039234)
[87] (WO2020/263888)
[30] US (62/865,699) 2019-06-24
[30] US (62/899,674) 2019-09-12
[30] US (62/960,066) 2020-01-12

[21] **3,145,111**
[13] A1
[51] **Int.Cl. C07D 471/02 (2006.01) A61K 31/444 (2006.01) A61P 7/02 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TRICYCLIC COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **COMPOSE TRICYCLIQUE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] GUO, SHUCHUN, CN
[72] WANG, JIANGWEI, CN
[72] YAO, SHAN, CN
[72] ZHANG, YONG, CN
[72] KANG, ZHANGPING, CN
[72] ZHANG, QIONG, CN
[72] YE, YAN, CN
[72] PENG, JIANBIAO, CN
[72] GUO, HAIBING, CN
[71] SHANGHAI JEMINCARE PHARMACEUTICALS CO., LTD, CN
[71] JIANGXI JEMINCARE GROUP CO., LTD., CN
[85] 2021-12-23
[86] 2020-06-28 (PCT/CN2020/098412)
[87] (WO2020/259668)
[30] CN (201910578620.6) 2019-06-28
[30] CN (202010129623.4) 2020-02-28
[30] CN (202010561350.0) 2020-06-18

[21] **3,145,113**
[13] A1
[51] **Int.Cl. C12N 1/14 (2006.01) C12N 9/24 (2006.01) C12P 19/00 (2006.01) C12P 19/04 (2006.01) C12P 19/12 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **A STRAIN OF TRICHODERMA REESEI AND CULTURE METHOD AND USE THEREOF**
[54] **SOUCHE DE TRICHODERMA REESEI, PROCEDE DE CULTURE DE CETTE SOUCHE ET SON UTILISATION**
[72] DOU, BAODE, CN
[72] DOU, GUANGPENG, CN
[72] GAN, ZHAOBO, CN
[72] SHAO, XIANBAO, CN
[72] LI, FANGHUA, CN
[72] DU, QIAN, CN
[71] SHANDONG BAILONG CHUANGYUAN BIO-TECH CO., LTD, CN
[85] 2021-12-23
[86] 2020-07-06 (PCT/CN2020/100482)
[87] (WO2021/000963)
[30] CN (201910596633.6) 2019-07-04
[30] CN (201910597371.5) 2019-07-04
[30] CN (201910996538.5) 2019-10-19
[30] CN (201910997521.1) 2019-10-19

[21] **3,145,138**
[13] A1
[51] **Int.Cl. C07D 215/36 (2006.01) A61K 31/4709 (2006.01) A61P 7/06 (2006.01)**
[25] EN
[54] **CRYSTALLINE SALT FORMS OF N-(4-(4-(CYCLOPROPYLMETHYL)PIPERAZINE-1-CARBONYL)PHENYL)QUINOLINE-8-SULFONAMIDE**
[54] **FORMES DE SEL CRISTALLIN DE N-(4-(4-(CYCLOPROPYLMETHYL)PIPERAZINE-1-CARBONYL)PHENYL)QUINOLEINE-8-SULFONAMIDE**
[72] GROVE, LISA M., US
[71] AGIOS PHARMACEUTICALS, INC., US
[85] 2021-11-16
[86] 2020-05-21 (PCT/US2020/033992)
[87] (WO2020/237047)
[30] US (62/851,344) 2019-05-22

[21] **3,145,139**
[13] A1
[51] **Int.Cl. C07K 16/12 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **ANTIBODIES SPECIFICALLY RECOGNIZING PSEUDOMONAS PCRV AND USES THEREOF**
[54] **ANTICORPS RECONNAISSANT SPECIFIQUEMENT PCRV DE PSEUDOMONAS ET LEURS UTILISATIONS**
[72] YU, MAORONG, CN
[72] LI, ZHONG, CN
[72] WANG, CHAO, CN
[71] STAIDSON (BEIJING) BIOPHARMACEUTICALS CO., LTD., CN
[85] 2021-12-23
[86] 2020-07-07 (PCT/CN2020/100592)
[87] (WO2021/004446)
[30] CN (PCT/CN2019/095181) 2019-07-09

[21] **3,145,140**
[13] A1
[51] **Int.Cl. H04B 3/46 (2015.01)**
[25] EN
[54] **DETECTING A SINGLE WIRE INTERRUPTION**
[54] **DETECTION D'INTERRUPTION D'UN SEUL FIL**
[72] KUIPERS, MARTIN, DE
[72] ASMUSSEN, NILS, DE
[71] ADTRAN GMBH, DE
[85] 2021-12-23
[86] 2019-09-05 (PCT/EP2019/073756)
[87] (WO2021/043410)

[21] **3,145,141**
[13] A1
[51] **Int.Cl. G01N 21/63 (2006.01)**
[25] EN
[54] **SENSOR MODULE FOR MULTIPARAMETRIC ANALYSIS OF A MEDIUM**
[54] **MODULE DE CAPTEURS POUR L'ANALYSE MULTIPARAMETRIQUE D'UN MILIEU**
[72] LAU, MATTHIAS, DE
[71] SENTRONIC GMBH-GESELLSCHAFT FUR OPTISCHE MESSSYSTEME, DE
[85] 2021-12-23
[86] 2020-06-08 (PCT/EP2020/065837)
[87] (WO2020/259996)
[30] DE (10 2019 117 045.1) 2019-06-25

[21] **3,145,142**
[13] A1
[51] **Int.Cl. B65D 41/34 (2006.01) B65D 55/16 (2006.01)**
[25] EN
[54] **CLOSURE**
[54] **BOUCHON**
[72] DREYER, LINO, FR
[72] HOOD, GRAEME, CH
[72] ROUQUETTE, ALEXANDRE, FR
[72] WIDMER, SEBASTIEN, FR
[71] OBRIST CLOSURES SWITZERLAND GMBH, CH
[85] 2021-12-23
[86] 2019-10-18 (PCT/EP2019/078398)
[87] (WO2021/013370)
[30] GB (1910507.1) 2019-07-23

[21] **3,145,143**
[13] A1
[51] **Int.Cl. B01J 19/24 (2006.01) B01J 19/32 (2006.01) C07C 273/04 (2006.01)**
[25] EN
[54] **A REACTOR FOR THE SYNTHESIS OF UREA**
[54] **REACTEUR POUR LA SYNTHESE D'UREE**
[72] DENTE, MARIO, IT
[72] MARRONE, LEONARDO, IT
[72] MAFFIETTI, FEDERICO, IT
[71] CASALE SA, CH
[85] 2021-12-23
[86] 2020-06-09 (PCT/EP2020/065962)
[87] (WO2021/001121)
[30] EP (19183879.6) 2019-07-02

[21] **3,145,144**
[13] A1
[51] **Int.Cl. B25C 1/04 (2006.01) B25C 1/06 (2006.01)**
[25] EN
[54] **HANDHELD SETTING TOOL**
[54] **APPAREIL DE POSE A GUIDAGE MANUEL**
[72] MECKLENBURG, ARNO, DE
[71] RHEFOR GBR, DE
[85] 2021-12-23
[86] 2020-02-06 (PCT/EP2020/053023)
[87] (WO2020/259870)
[30] DE (10 2019 004 422.3) 2019-06-26
[30] DE (10 2019 005 599.3) 2019-08-08
[30] DE (10 2019 005 792.9) 2019-08-20
[30] DE (10 2019 006 714.2) 2019-09-25

[21] **3,145,145**
[13] A1
[51] **Int.Cl. A62C 99/00 (2010.01) G06F 21/10 (2013.01)**
[25] EN
[54] **VERIFICATION METHOD FOR AN OXYGEN REDUCTION SYSTEM**
[54] **PROCEDE DE VERIFICATION DESTINE A UN SYSTEME DE REDUCTION D'OXYGENE**
[72] BECKERS, STEFAN, DE
[72] HENKEL, ANDREAS, DE
[71] WAGNER GROUP GMBH, DE
[85] 2021-12-23
[86] 2020-06-23 (PCT/EP2020/067433)
[87] (WO2021/001206)
[30] DE (10 2019 117 651.4) 2019-07-01
[30] EP (19186341.4) 2019-07-15

[21] **3,145,146**
[13] A1
[51] **Int.Cl. H05B 47/105 (2020.01) A61N 5/00 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **A LIGHT EXPOSURE MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE D'EXPOSITION A LA LUMIERE**
[72] WINGREN, TORD, SE
[71] BRAINLIT AB, SE
[85] 2021-12-23
[86] 2020-03-24 (PCT/EP2020/058166)
[87] (WO2021/008741)
[30] EP (19185952.9) 2019-07-12

[21] **3,145,147**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **CONTAINER FOR BEVERAGE PREPARATION**
[54] **RECIPIENT DESTINE A LA PREPARATION DE BOISSONS**
[72] DOGAN, NIHAN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-12-23
[86] 2020-07-16 (PCT/EP2020/070135)
[87] (WO2021/018616)
[30] EP (19189304.9) 2019-07-31

[21] **3,145,148**
[13] A1
[51] **Int.Cl. B29C 64/124 (2017.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01)**
[25] EN
[54] **3D-PRINTING METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES D'IMPRESSION 3D**
[72] FERRE ROMEU, MERITXELL, ES
[72] GARRA, PATXI, ES
[72] MCARDLE, CIARAN, ES
[72] CAMPOS BELLOSTAS, LAURA, ES
[72] AHBITI LAARAB, ESMAEL, ES
[72] VICENC ROMAGUERA, MARIONA, ES
[71] BOSTIK SA, FR
[85] 2021-12-23
[86] 2020-07-20 (PCT/EP2020/070423)
[87] (WO2021/009382)
[30] EP (19305949.0) 2019-07-18

[21] **3,145,149**
[13] A1
[51] **Int.Cl. B02C 4/02 (2006.01) B02C 4/40 (2006.01) B02C 25/00 (2006.01)**
[25] EN
[54] **ROLLER MILL AND METHOD FOR OPERATING A ROLLER MILL**
[54] **BROYEUR A CYLINDRES ET PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN BROYEUR A CYLINDRES**
[72] SCHROERS, FRANK, DE
[71] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE
[85] 2021-12-23
[86] 2020-06-23 (PCT/EP2020/067540)
[87] (WO2020/260307)
[30] DE (10 2019 209 514.3) 2019-06-28

[21] **3,145,150**
[13] A1
[51] **Int.Cl. H01M 8/0662 (2016.01) H01M 8/0668 (2016.01) B01D 53/48 (2006.01) B01D 53/62 (2006.01) B01D 53/82 (2006.01) B01D 53/86 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **PROCESS FOR REMOVING CARBON MONOXIDE AND/OR GASEOUS SULFUR COMPOUNDS FROM HYDROGEN GAS AND/OR ALIPHATIC HYDROCARBONS**
[54] **PROCEDE D'ELIMINATION DE DIOXYDE DE CARBONE ET/OU DE COMPOSES SOUFRES GAZEUX DE L'HYDROGENE GAZEUX ET/OU DES HYDROCARBURES ALIPHATIQUES**
[72] FELDERHOFF, MICHAEL, DE
[72] PEINECKE, KATERYNA, DE
[72] ZIBROWIUS, BODO, DE
[72] TAI, SUN, CN
[71] STUDIENGESELLSCHAFT KOHLE MBH, DE
[85] 2021-12-23
[86] 2020-07-26 (PCT/EP2020/071066)
[87] (WO2021/018809)
[30] DE (10 2019 211 379.6) 2019-07-30

[21] **3,145,151**
[13] A1
[25] EN
[54] **SYSTEM, APPARATUS AND METHOD FOR CONTROLLING NETWORKED DEVICES**
[54] **SYSTEME, APPAREIL ET PROCEDE PERMETTANT DE COMMANDER DES DISPOSITIFS MIS EN RESEAU**
[72] BENSON, MARC, GB
[71] SIGNAGELIVE LIMITED, GB
[85] 2021-12-23
[86] 2020-06-17 (PCT/GB2020/051450)
[87] (WO2020/260858)
[30] GB (1909331.9) 2019-06-28

[21] **3,145,152**
[13] A1
[51] **Int.Cl. F42B 39/20 (2006.01) F41H 5/20 (2006.01) F41H 7/03 (2006.01) F41H 7/04 (2006.01)**
[25] EN
[54] **OVERPRESSURE PROTECTION SYSTEM FOR A MAGAZINE**
[54] **SYSTEME DE PROTECTION CONTRE LES SURPRESSIONS DESTINE A UN MAGASIN**
[72] AYRE, GARETH DAVID, GB
[71] RHEINMETALL BAE SYSTEMS LAND LIMITED, GB
[85] 2021-12-23
[86] 2020-06-18 (PCT/GB2020/051469)
[87] (WO2020/260860)
[30] GB (1909094.3) 2019-06-25

[21] **3,145,153**
[13] A1
[51] **Int.Cl. F28G 15/04 (2006.01) B08B 9/023 (2006.01) F23J 3/02 (2006.01) F28G 1/00 (2006.01) B62D 55/08 (2006.01)**
[25] EN
[54] **TUBE CLEANING ROBOT**
[54] **ROBOT DE NETTOYAGE DE TUBES**
[72] STEPHENSON, ADAM, GB
[72] SUMSION, DEREK, GB
[71] TUBE TECH INTERNATIONAL LIMITED, GB
[85] 2021-12-23
[86] 2020-06-24 (PCT/GB2020/051528)
[87] (WO2020/260872)
[30] GB (1909266.7) 2019-06-27

[21] **3,145,154**
[13] A1
[51] **Int.Cl. A61K 9/113 (2006.01) A61K 9/127 (2006.01) A61K 47/24 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **NANOVESICLES**
[54] **NANOVESICULES**
[72] MALIK, DANISH, GB
[72] CINQUERRUI, SALVATORE, GB
[71] LOUGHBOROUGH UNIVERSITY, GB
[85] 2021-12-23
[86] 2020-06-26 (PCT/GB2020/051555)
[87] (WO2020/260895)
[30] GB (1909242.8) 2019-06-27

[21] **3,145,155**
[13] A1
[51] **Int.Cl. B28C 7/02 (2006.01)**
[25] EN
[54] **SYSTEM FOR MANUFACTURING MORTAR-BASED ELEMENTS**
[54] **SYSTEME DE FABRICATION D'ELEMENTS A BASE DE MORTIER**
[72] OPDENBUSCH, KERSTEN, DE
[72] BLAAKMEER, JAN, NL
[72] NUNES LOBO, BRUNO MIGUEL, NL
[72] PIERTZIK, LUTZ, DE
[72] HOFMANN, TANJA, DE
[71] ENDRESS+HAUSER (DEUTSCHLAND) GMBH+CO. KG, DE
[71] SAINT-GOBAIN WEBER, FR
[85] 2021-12-23
[86] 2020-06-24 (PCT/EP2020/067673)
[87] (WO2020/260377)
[30] EP (19182638.7) 2019-06-26

[21] **3,145,156**
[13] A1
[51] **Int.Cl. A01D 13/00 (2006.01) A01B 76/00 (2006.01) A01D 33/00 (2006.01) G06K 9/00 (2022.01)**
[25] EN
[54] **METHOD FOR OBSERVING WORKING PROCESSES OF AN AGRICULTURAL MACHINE, DIGITAL VIDEO SYSTEM AND AGRICULTURAL MACHINE**
[54] **PROCEDE PERMETTANT L'OBSERVATION DE PROCESSUS DE TRAVAIL D'UNE MACHINE AGRICOLE, SYSTEME VIDEO NUMERIQUE ET MACHINE AGRICOLE**
[72] WITTE, MARKUS, DE
[72] SCHOMAKER, AXEL, DE
[72] STROTHMANN, WOLFRAM, DE
[71] GRIMME LANDMASCHINENFABRIK GMBH & CO. KG, DE
[85] 2021-12-23
[86] 2020-06-24 (PCT/EP2020/067760)
[87] (WO2020/260427)
[30] DE (10 2019 116 961.5) 2019-06-24

[21] **3,145,157**
[13] A1
[51] **Int.Cl. B60L 53/35 (2019.01) B60L 53/36 (2019.01) B60L 53/37 (2019.01) B60L 55/00 (2019.01)**
[25] EN
[54] **APPARATUS FOR TRANSFERRING ELECTRICAL POWER TO OR FROM AN ELECTRIC VEHICLE, AND CONTROL METHOD THEREOF**
[54] **APPAREIL DE TRANSFERT D'ENERGIE ELECTRIQUE VERS UN VEHICULE ELECTRIQUE OU A PARTIR DE CELUI-CI, ET PROCEDE DE COMMANDE ASSOCIE**
[72] VEPARI, AUROSKANDA, GB
[71] IPFT FUELS LIMITED, GB
[85] 2021-12-23
[86] 2020-07-03 (PCT/GB2020/051611)
[87] (WO2021/001662)
[30] GB (1909650.2) 2019-07-04

[21] **3,145,158**
[13] A1
[51] **Int.Cl. H04N 21/43 (2011.01) H04N 21/434 (2011.01) H04N 21/439 (2011.01) H04N 21/442 (2011.01)**
[25] EN
[54] **METHODS AND APPARATUS TO IMPROVE DETECTION OF AUDIO SIGNATURES**
[54] **PROCEDES ET APPAREIL D'AMELIORATION DE DETECTION DE SIGNATURES AUDIO**
[72] RAFII, ZAFAR, US
[71] GRACENOTE, INC., US
[85] 2021-12-23
[86] 2020-06-17 (PCT/US2020/038114)
[87] (WO2020/263649)
[30] US (16/455,025) 2019-06-27

[21] **3,145,159**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **FLOW CELLS**
[54] **CUVES A CIRCULATION**
[72] RICHEZ, ALEXANDRE, GB
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2021-12-23
[86] 2021-04-20 (PCT/EP2021/060196)
[87] (WO2021/214037)
[30] US (63/015,259) 2020-04-24

[21] **3,145,160**
[13] A1
[51] **Int.Cl. D21H 17/24 (2006.01) B65D 65/40 (2006.01) D21H 17/06 (2006.01) D21H 17/14 (2006.01) D21H 17/68 (2006.01) D21H 19/36 (2006.01) D21H 27/10 (2006.01)**
[25] EN
[54] **SACCHARIDE FATTY ACID ESTER INORGANIC PARTICLE COMBINATIONS**
[54] **COMBINAISONS DE PARTICULES INORGANIQUES D'ESTER D'ACIDE GRAS DE SACCHARIDE**
[72] SPENDER, JONATHAN, SG
[72] BILODEAU, MICHAEL ALBERT, SG
[72] MIKAIL, SAMUEL, SG
[71] GREENTECH GLOBAL PTE. LTD., SG
[85] 2021-12-23
[86] 2020-06-29 (PCT/IB2020/056138)
[87] (WO2020/261246)
[30] US (16/456,433) 2019-06-28

[21] **3,145,161**
[13] A1
[51] **Int.Cl. A47C 19/04 (2006.01) A61G 7/012 (2006.01) A61G 7/015 (2006.01)**
[25] EN
[54] **ADJUSTABLE PEDESTAL STRUCTURE OF THE BED**
[54] **STRUCTURE DE SOCLE REGLABLE DU LIT**
[72] LEHTO, JUHA, FI
[72] LEHTO, PYRY, FI
[72] FROSTI, PIRKKA, FI
[71] LEHTO, JUHA, FI
[71] LEHTO, PYRY, FI
[71] FROSTI, PIRKKA, FI
[85] 2021-12-23
[86] 2020-06-25 (PCT/FI2020/050458)
[87] (WO2020/260764)
[30] FI (20195567) 2019-06-27

[21] **3,145,162**
[13] A1
[51] **Int.Cl. E21B 47/10 (2012.01)**
[25] EN
[54] **METHOD FOR ABANDONING WELLBORES**
[54] **PROCEDE SERVANT A ABANDONNER DES PUITS DE FORAGE**
[72] THIRUVENKATANATHAN, PRADYUMNA, GB
[72] LANGNES, TOMMY, GB
[71] BP EXPLORATION OPERATING COMPANY LIMITED, GB
[85] 2021-12-23
[86] 2019-06-25 (PCT/IB2019/055355)
[87] (WO2020/260928)

[21] **3,145,164**
[13] A1
[51] **Int.Cl. H01M 4/88 (2006.01) H01M 8/106 (2016.01) H01M 8/1069 (2016.01) H01M 8/1018 (2016.01)**
[25] EN
[54] **RELEASE FILM FOR USE IN MANUFACTURING OF AN ELECTROLYTE MEMBRANE OR A MEMBRANE ELECTRODE ASSEMBLY**
[54] **FILM ANTIADHESIF POUR UTILISATION DANS LA FABRICATION D'UNE MEMBRANE ELECTROLYTIQUE OU D'UN ENSEMBLE MEMBRANE-ELECTRODE**
[72] SUZUKI, TAKEYUKI, JP
[72] HAMAMOTO, TAICHI, JP
[71] W.L. GORE & ASSOCIATES G.K., JP
[85] 2021-12-23
[86] 2019-07-11 (PCT/IB2019/055931)
[87] (WO2021/005404)

[21] **3,145,166**
[13] A1
[51] **Int.Cl. A61B 5/053 (2021.01) A61B 18/14 (2006.01) A61B 18/00 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TARGETED THERAPEUTIC NASAL NEUROMODULATION**
[54] **SYSTEMES ET METHODES DE NEUROMODULATION NASALE THERAPEUTIQUE CIBLEE**
[72] TOWNLEY, DAVID, IE
[71] NEURENT MEDICAL LIMITED, IE
[85] 2021-12-23
[86] 2020-06-29 (PCT/IB2020/000544)
[87] (WO2020/260950)
[30] US (62/868,351) 2019-06-28
[30] US (62/868,365) 2019-06-28
[30] US (62/868,357) 2019-06-28

[21] **3,145,168**
[13] A1
[51] **Int.Cl. F02D 41/00 (2006.01) F01B 9/04 (2006.01) F02B 63/04 (2006.01) F02B 71/00 (2006.01) F02B 71/02 (2006.01) F02B 75/00 (2006.01) F02D 29/06 (2006.01) F02N 11/04 (2006.01) F02P 7/07 (2006.01)**
[25] EN
[54] **FREE PISTON ENGINE CONTROL**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN MOTEUR**
[72] YAAKOBY, SHAUL, IL
[71] AQUARIUS ENGINES CENTRAL EUROPE SP. Z.O.O., PL
[85] 2021-12-23
[86] 2020-06-29 (PCT/IB2020/000742)
[87] (WO2020/260957)
[30] US (16/456,301) 2019-06-28

[21] **3,145,169**
[13] A1
[51] **Int.Cl. A61K 31/4174 (2006.01) A61K 9/06 (2006.01) A61K 9/70 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61P 25/20 (2006.01)**
[25] EN
[54] **EXTERNAL PREPARATION**
[54] **PREPARATION EXTERNE**
[72] UCHITOMI, RYO, JP
[72] YAMAZAKI, YUHIRO, JP
[71] KYUKYU PHARMACEUTICAL CO., LTD., JP
[71] MARUISHI PHARMACEUTICAL CO., LTD., JP
[85] 2021-11-16
[86] 2020-05-26 (PCT/JP2020/020642)
[87] (WO2020/241605)
[30] JP (2019-098548) 2019-05-27

[21] **3,145,170**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **A LEARNING AUTO PHACO PHACOEMULSIFICATION MODE FOR OPHTHALMIC SURGERY**
[54] **APPRENTISSAGE DE MODE D'AUTO-PHACOEMULSIFICATION POUR UNE CHIRURGIE OPHTALMIQUE**
[72] EKVALL, JOHAN, US
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/IB2020/055973)
[87] (WO2021/001729)
[30] US (16/460,978) 2019-07-02

[21] **3,145,171**
[13] A1
[51] **Int.Cl. H01M 4/133 (2010.01) H01M 4/134 (2010.01) H01M 4/1393 (2010.01) H01M 4/1395 (2010.01) H01M 4/587 (2010.01) H01M 10/0525 (2010.01) H01M 4/36 (2006.01) H01M 4/38 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **SILICON AND GRAPHITE CONTAINING COMPOSITE MATERIAL AND METHOD FOR PRODUCING SAME**
[54] **MATERIAU COMPOSITE CONTENANT DU SILICIUM ET DU GRAPHITE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] CAPIGLIA, CLAUDIO, JP
[72] SHIVAREDDY, SAI, GB
[72] LIU, FENGMING, GB
[71] TALGA TECHNOLOGIES LIMITED, GB
[85] 2021-12-23
[86] 2020-06-26 (PCT/IB2020/056050)
[87] (WO2020/261194)
[30] AU (2019902306) 2019-06-28

[21] **3,145,173**
[13] A1
[51] **Int.Cl. H04B 10/2581 (2013.01) G01D 5/353 (2006.01) G01H 9/00 (2006.01) G01M 11/00 (2006.01)**
[25] EN
[54] **FIBRE-OPTIC MEASUREMENT SYSTEM, METHOD OF ADAPTATION OF THE COMMUNICATION OPTICAL FIBRE INTO A MEASUREMENT SYSTEM, AND FIBRE-OPTIC MEASUREMENT AND COMMUNICATION SYSTEM**
[54] **SYSTEME DE MESURE A FIBRE OPTIQUE, PROCEDE D'ADAPTATION DE LA FIBRE OPTIQUE DE COMMUNICATION DANS UN SYSTEME DE MESURE ET SYSTEME DE MESURE ET DE COMMUNICATION A FIBRE OPTIQUE**
[72] KACZOROWSKI, JAKUB, PL
[72] MARKIEWICZ, KRZYSZTOF, PL
[72] SZOSTKIEWICZ, LUKASZ, PL
[72] DOMINGUEZ LOPEZ, ALEJANDRO, ES
[72] NAPIERALA, MAREK, PL
[72] NASILOWSKI, TOMASZ, PL
[71] INPHOTECH SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, PL
[85] 2021-12-23
[86] 2020-06-26 (PCT/IB2020/056069)
[87] (WO2020/261207)
[30] PL (PL430406) 2019-06-28

[21] **3,145,174**
[13] A1
[51] **Int.Cl. B66C 1/16 (2006.01) F03D 13/10 (2016.01) F03D 13/40 (2016.01) B63B 27/30 (2006.01) B66C 1/10 (2006.01) B66C 1/62 (2006.01) B66C 13/08 (2006.01)**
[25] EN
[54] **HOISTING ARRANGEMENT FOR ASSEMBLY OF WIND TURBINES**
[54] **AGENCEMENT DE LEVAGE POUR ASSEMBLAGE D'EOLIENNES**
[72] SCHIELE, ANDRE, NL
[71] DELTA LABORATORIES HOLDING B.V., NL
[85] 2021-12-23
[86] 2020-07-01 (PCT/NL2020/050434)
[87] (WO2021/002749)
[30] NL (2023415) 2019-07-01

[21] **3,145,175**
[13] A1
[51] **Int.Cl. H04N 19/174 (2014.01) H04N 19/50 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SIGNALING DECODING DATA USING HIGH LEVEL SYNTAX ELEMENTS**
[54] **PROCEDE ET APPAREIL DE SIGNALISATION DE DONNEES DE DECODAGE A L'AIDE D'ELEMENTS DE SYNTAXE DE HAUT NIVEAU**
[72] BORDES, PHILIPPE, FR
[72] KERDRANVAT, MICHEL, FR
[72] FRANCOIS, EDOUARD, FR
[71] INTERDIGITAL VC HOLDINGS, INC., US
[85] 2021-12-23
[86] 2020-06-17 (PCT/US2020/038090)
[87] (WO2020/263646)
[30] EP (19305818.7) 2019-06-24

[21] **3,145,176**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR DYNAMIC IMAGING**
[54] **PROCEDES ET APPAREILS D'IMAGERIE DYNAMIQUE**
[72] NELSON, MICHAEL BO, US
[71] SPECTRAL INSTRUMENTS IMAGING, LLC, US
[85] 2021-12-23
[86] 2020-06-16 (PCT/US2020/037867)
[87] (WO2020/263620)
[30] US (62/866,382) 2019-06-25

[21] **3,145,178**
[13] A1
[51] **Int.Cl. B61L 3/02 (2006.01) B61L 25/02 (2006.01)**
[25] EN
[54] **UNMANNED RAIL VEHICLE AND METHOD OF DETERMINING ITS POSITION**
[54] **VEHICULE FERROVIAIRE SANS EQUIPAGE ET PROCEDE DE DETERMINATION DE SA POSITION**
[72] STAAB, HARALD, DE
[72] LASKO, DANIEL, US
[72] EAKINS, WILL, US
[72] SHAH, HARSHANG, US
[71] ABB SCHWEIZ AG, CH
[85] 2021-12-23
[86] 2020-06-12 (PCT/US2020/037416)
[87] (WO2020/263598)
[30] US (62/867,538) 2019-06-27

[21] **3,145,179**
[13] A1
[51] **Int.Cl. A61B 34/10 (2016.01)**
[25] EN
[54] **ORTHOPAEDIC PRE-OPERATIVE PLANNING SYSTEM**
[54] **SYSTEME DE PLANIFICATION PRE-OPERATOIRE ORTHOPEDIQUE**
[72] BESIER, THOR FRANCISCUS, NZ
[72] ZHANG, JU, NZ
[72] VELEVSKI, ANTONIJE, NZ
[71] FORMUS LABS LIMITED, NZ
[71] AUCKLAND UNISERVICES LIMITED, NZ
[71] BESIER, THOR FRANCISCUS, NZ
[85] 2021-12-23
[86] 2020-06-29 (PCT/IB2020/056143)
[87] (WO2020/261249)
[30] NZ (755005) 2019-06-28
[30] NZ (763679) 2020-04-20

[21] **3,145,181**
[13] A1
[51] **Int.Cl. H01B 3/44 (2006.01) H01B 3/02 (2006.01) H01B 3/10 (2006.01) H01B 3/30 (2006.01) H01B 3/42 (2006.01) H01B 7/02 (2006.01) H01B 7/295 (2006.01) H01B 11/06 (2006.01) H01B 17/62 (2006.01)**
[25] EN
[54] **MAGNET WIRE WITH INSULATION INCLUDING AN ORGANOMETALLIC COMPOUND**
[54] **FIL D'AIMANT AVEC ISOLATION COMPRENANT UN COMPOSE ORGANOMETALLIQUE**
[72] JOLLEY, SCOTT TED, US
[71] ESSEX FURUKAWA MAGNET WIRE USA LLC, US
[85] 2021-12-23
[86] 2020-06-10 (PCT/US2020/036940)
[87] (WO2020/263569)
[30] US (16/449,744) 2019-06-24

[21] **3,145,182**
[13] A1
[51] **Int.Cl. A01G 9/24 (2006.01) A01G 9/02 (2018.01) A01G 9/12 (2006.01) A01G 9/16 (2006.01) A01G 9/20 (2006.01) A01G 9/26 (2006.01) A47G 7/02 (2006.01)**
[25] EN
[54] **INTEGRATED HORTICULTURAL GROW RACK KIT**
[54] **KIT GRILLE DE CULTURE HORTICOLE INTEGRE**
[72] VOELZ, DALE W., US
[72] THOMAS, ADAM J., US
[71] BORROUGHS, LLC, US
[85] 2021-12-23
[86] 2020-06-30 (PCT/IB2020/056197)
[87] (WO2021/001759)
[30] US (62/869,070) 2019-07-01

[21] **3,145,184**
[13] A1
[51] **Int.Cl. G02F 1/1524 (2019.01) G02F 1/15 (2019.01) G02F 1/155 (2006.01)**
[25] EN
[54] **ELECTROCHROMIC CATHODE MATERIALS**
[54] **MATERIAUX DE CATHODE ELECTROCHROMIQUES**
[72] ROZBICKI, ROBERT T., US
[72] KAILASAM, SRIDHAR KARTHIK, US
[71] VIEW, INC., US
[85] 2021-12-23
[86] 2020-06-05 (PCT/US2020/036440)
[87] (WO2020/247831)
[30] US (62/858,943) 2019-06-07

[21] **3,145,185**
[13] A1
[51] **Int.Cl. B63B 22/20 (2006.01) B63G 8/00 (2006.01) B63G 8/22 (2006.01) F03G 7/05 (2006.01)**
[25] EN
[54] **TACTICAL MANEUVERING OCEAN THERMAL ENERGY CONVERSION BUOY FOR OCEAN ACTIVITY SURVEILLANCE**
[54] **BOUEE DE CONVERSION D'ENERGIE THERMIQUE DE L'OCEAN A MAN□UVRE TACTIQUE POUR LA SURVEILLANCE DE L'ACTIVITE OCEANIQUE**
[72] HEINEN, GREGORY W., US
[72] SASTRE-CORDOVA, MARCOS M., US
[71] RAYTHEON COMPANY, US
[85] 2021-12-23
[86] 2020-05-20 (PCT/US2020/033848)
[87] (WO2021/002964)
[30] US (16/460,774) 2019-07-02

[21] **3,145,186**
[13] A1
[51] **Int.Cl. A01D 45/06 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR HARVESTING TEXTILE HEMP**
[54] **DISPOSITIF ET PROCEDE DE RECOLTE DE CHANVRE TEXTILE**
[72] VAN PUYVELDE, DIRK, BE
[71] CRETES NV, BE
[85] 2021-12-23
[86] 2020-07-02 (PCT/IB2020/056248)
[87] (WO2021/005466)
[30] BE (2019/5432) 2019-07-05
[30] BE (2019/5685) 2019-10-11

[21] **3,145,187**
[13] A1
[51] **Int.Cl. B65D 17/28 (2006.01) B65D 1/16 (2006.01) B65D 17/34 (2006.01) B65D 17/347 (2006.01)**
[25] EN
[54] **RECLOSABLE CAN ENDS**
[54] **EXTREMITES DE CANETTES REFERMABLES**
[72] VINGER, FLORENCE M., US
[71] VINGER, FLORENCE M., US
[85] 2021-12-23
[86] 2020-06-19 (PCT/US2020/038680)
[87] (WO2020/263702)
[30] US (62/868,709) 2019-06-28
[30] US (16/853,237) 2020-04-20

[21] **3,145,189**
[13] A1
[51] **Int.Cl. B32B 27/30 (2006.01) B32B 27/08 (2006.01) B32B 27/20 (2006.01)**
[25] EN
[54] **ULTRA LOW HEAT BUILDUP CAPSTOCK**
[54] **COUCHE DE PROTECTION A ACCUMULATION DE CHALEUR ULTRA-FAIBLE**
[72] WANG, JING-HAN (HELEN), US
[72] LAMOND, RONSON, US
[71] ARKEMA FRANCE, FR
[85] 2021-12-23
[86] 2020-06-22 (PCT/US2020/038935)
[87] (WO2020/263737)
[30] US (62/867,918) 2019-06-28

[21] **3,145,190**
[13] A1
[51] **Int.Cl. C21B 7/10 (2006.01) C21B 7/16 (2006.01) F27B 1/24 (2006.01) F27D 1/12 (2006.01)**
[25] EN
[54] **MANUFACTURING METHODS FOR IMPROVING, AND FOR THE LONG-TERM STABILIZATION OF THE OVERALL THERMAL CONDUCTION OF BLOCK COOLERS WITH CAST-IN COOLANT PIPES**
[54] **PROCEDES DE FABRICATION POUR STABILISATION A LONG TERME DANS LA CONDUCTION THERMIQUE GLOBALE DE REFROIDISSEURS A BLOCS AVEC DES TUYAUX DE LIQUIDE DE REFROIDISSEMENT MOULES**
[72] MACRAE, ALLAN J., US
[71] MACRAE TECHNOLOGIES, INC., US
[85] 2021-12-23
[86] 2020-01-28 (PCT/US2020/015282)
[87] (WO2020/263343)
[30] US (PCT/US2019/038752) 2019-06-24
[30] US (16/712,912) 2019-12-12

[21] **3,145,191**
[13] A1
[51] **Int.Cl. A61M 16/08 (2006.01)**
[25] EN
[54] **MEDICAL TUBES AND CONNECTORS FOR BREATHING CIRCUITS**
[54] **TUBES MEDICAUX ET CONNECTEURS POUR CIRCUITS RESPIRATOIRES**
[72] HOLYOAKE, BRUCE GORDON, NZ
[72] VAN BOKHOVEN, DAVID, NZ
[72] NASIMI, EMMA LOUISE, NZ
[72] DEVERICK, ERIC, NZ
[72] EDMONDS, IEUAN GREGORY NICHOLAS, NZ
[72] GULLIVER, LAURENCE, NZ
[72] BRAND, LEVI JARD, NZ
[72] ANDRESEN, MICHAEL JOHN, NZ
[72] MOSEN, RACHEL NICOLE, NZ
[72] BHONGALE, SANKET RAGHUNATH, NZ
[72] OU, YANGDA, NZ
[72] MARINOVICH, MATTHEW MICHAEL, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2021-12-23
[86] 2020-07-08 (PCT/IB2020/056397)
[87] (WO2021/005515)
[30] US (62/871,668) 2019-07-08

[21] **3,145,192**
[13] A1
[51] **Int.Cl. H04L 12/12 (2006.01) H04L 47/125 (2022.01) H04L 67/1017 (2022.01) H04L 67/1031 (2022.01) H04L 9/00 (2022.01)**
[25] EN
[54] **SECURING COMMUNICATIONS BETWEEN SERVICES IN A CLUSTER USING LOAD BALANCING SYSTEMS AND METHODS**
[54] **SECURISATION DE COMMUNICATIONS ENTRE DES SERVICES DANS UNE GRAPPE EN UTILISANT DES SYSTEMES ET PROCEDES D'EQUILIBRAGE DE CHARGE**
[72] PATIDAR, MEHUL, US
[72] GARIPALLY, SWETHA, US
[72] CHAUDHURY, NILAMADHAVA, US
[72] SARKAR, SUBRATA, US
[71] CITRIX SYSTEMS, INC., US
[85] 2021-12-23
[86] 2020-06-23 (PCT/US2020/039140)
[87] (WO2020/263828)
[30] US (16/454,396) 2019-06-27

[21] **3,145,193**
[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **A COMPOSITION OF CANNABIDIOL FOR USE IN THE TREATMENT AND PREVENTION OF BRONCHIOLITIS OBLITERANS**
[54] **COMPOSITION DE CANNABIDIOL DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT ET LA PREVENTION DE LA BRONCHIOLITE OBLITERANTE**
[72] YESHURUN, MOSHE, IL
[71] MOR RESEARCH APPLICATIONS LTD., IL
[85] 2021-12-23
[86] 2020-06-28 (PCT/IL2020/050719)
[87] (WO2020/261283)
[30] US (62/867,287) 2019-06-27

[21] **3,145,194**
[13] A1
[51] **Int.Cl. G06F 9/445 (2018.01) G09B 21/00 (2006.01)**
[25] EN
[54] **UNIFIED ACCESSIBILITY SETTINGS FOR INTELLIGENT WORKSPACE PLATFORMS**
[54] **REGLAGES D'ACCESSIBILITE UNIFIES POUR PLATEFORMES D'ESPACE DE TRAVAIL INTELLIGENTES**
[72] GISSING, CHRISTOPHER LESLIE, US
[72] WOOTTEN, ELLEN ROSE, US
[72] PEACOCK, DANIEL ALAN ROBERT, US
[72] MUNRO, RODERICK WILLIAM ALEXANDER, US
[72] TALBOT, HEATHER SARAH AVRIL, US
[72] MARKEVICIUS, MARTYNAS, US
[71] CITRIX SYSTEMS, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039263)
[87] (WO2020/263908)
[30] US (16/455,027) 2019-06-27

[21] **3,145,195**
[13] A1
[51] **Int.Cl. C09J 7/20 (2018.01) C09J 7/38 (2018.01)**
[25] EN
[54] **TAPE**
[54] **BANDE**
[72] UEMURA, SEI, JP
[72] YOSHIDA, KOHJI, JP
[71] KING PACKAGE CO., LTD., JP
[85] 2021-12-23
[86] 2020-04-09 (PCT/JP2020/016042)
[87] (WO2020/261709)
[30] JP (2019-121562) 2019-06-28

[21] **3,145,196**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) C12N 5/00 (2006.01) G01N 33/50 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **A PEPTIDE-BASED SCREENING METHOD TO IDENTIFY NEOANTIGENS FOR USE WITH TUMOR INFILTRATING LYMPHOCYTES**
[54] **PROCEDE DE CRIBLAGE BASE SUR DES PEPTIDES POUR IDENTIFIER DES NEO-ANTIGENES DESTINES A ETRE UTILISES AVEC DES LYMPHOCYTES INFILTRANT LES TUMEURS**
[72] CREELAN, BENJAMIN C., US
[72] HAURA, ERIC B., US
[72] ANTONIA, SCOTT, US
[72] WANG, CHAO, US
[71] H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039276)
[87] (WO2020/263919)
[30] US (62/865,697) 2019-06-24
[30] US (62/979,386) 2020-02-20

[21] **3,145,197**
[13] A1
[51] **Int.Cl. B30B 9/14 (2006.01) C02F 11/121 (2019.01) C02F 3/12 (2006.01) C02F 3/30 (2006.01)**
[25] EN
[54] **SCREW-TYPE SEPARATION DEVICE, CASING, WASTEWATER TREATMENT SYSTEM, AND CLEANING METHOD OF SCREW-TYPE SEPARATION DEVICE**
[54] **APPAREIL DE SEPARATION DE TYPE A VIS, BLOCAGE, SYSTEME DE TRAITEMENT D'EFFLUENT ET PROCEDE DE NETTOYAGE POUR APPAREIL DE SEPARATION DE TYPE A VIS**
[72] INOUE, SATOSHI, JP
[72] HASHIMOTO, YOSHITAKA, JP
[72] ANDO, YOSHINORI, JP
[72] YOSHIDA, TAKUYA, JP
[71] METAWATER CO., LTD., JP
[85] 2021-12-23
[86] 2020-06-18 (PCT/JP2020/024045)
[87] (WO2020/262207)
[30] JP (2019-122388) 2019-06-28

[21] **3,145,198**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01)**
[25] EN
[54] **PROVIDING SERVICE TO AUTOMATED BANKING MACHINES**
[54] **FOURNITURE D'UN SERVICE A DES GUICHETS AUTOMATIQUES BANCAIRES**
[72] MEEK, JAMES, US
[72] WITZKE, SCOTT, US
[72] REYNOLDS, SHAWN, US
[72] ZAHOREC, KENNETH W., US
[72] KUNC, JAMES, US
[71] DIEBOLD NIXDORF INCORPORATED, US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039331)
[87] (WO2020/263956)
[30] US (62/865,589) 2019-06-24

[21] **3,145,199**
[13] A1
[51] **Int.Cl. A61F 2/08 (2006.01) A61K 35/12 (2015.01) A61L 27/58 (2006.01) A61L 31/12 (2006.01) C08L 29/04 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL BIOMESH FOR SURGICAL HERNIA REPAIR**
[54] **BIOFILET MULTIFONCTIONNEL POUR LA REPARATION CHIRURGICALE D'UNE HERNIE**
[72] ACHARYA, GHANASHYAM, US
[72] SHIN, CRYSTAL S., US
[72] SCOTT, BRADFORD GLENN, US
[72] CABRERA, FERNANDO JOSE, US
[71] BAYLOR COLLEGE OF MEDICINE, US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039393)
[87] (WO2020/264005)
[30] US (62/867,334) 2019-06-27

[21] **3,145,200**
[13] A1
[51] **Int.Cl. A61K 31/196 (2006.01) A61K 31/215 (2006.01) A61K 31/351 (2006.01) A61K 31/5383 (2006.01) A61K 45/00 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR TREATING INFLUENZA VIRUS INFECTIONS**
[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT D'INFECTIONS PAR LE VIRUS DE LA GRIPPE**
[72] OKIYAMA, SYOU, JP
[71] AILLIS INC., JP
[85] 2021-12-23
[86] 2020-06-30 (PCT/JP2020/025652)
[87] (WO2021/002355)
[30] JP (2019-124750) 2019-07-03

[21] **3,145,201**
[13] A1
[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**
[25] EN
[54] **GRAIN-ORIENTED ELECTRICAL STEEL SHEET**
[54] **TOLE D'ACIER ELECTRIQUE A GRAINS ORIENTES**
[72] ICHIHARA, YOSHIHISA, JP
[72] OMURA, TAKESHI, JP
[72] INOUE, HIROTAKA, JP
[72] TAKAJO, SHIGEHIRO, JP
[72] ODACHI, MASANORI, JP
[72] SENDA, KUNIHIRO, JP
[71] JFE STEEL CORPORATION, JP
[85] 2021-12-23
[86] 2020-07-03 (PCT/JP2020/026181)
[87] (WO2021/020026)
[30] JP (2019-140966) 2019-07-31

[21] **3,145,202**
[13] A1
[51] **Int.Cl. A61K 31/4468 (2006.01) A61K 31/485 (2006.01) A61M 37/00 (2006.01)**
[25] EN
[54] **PERMEANT DELIVERY PATCH VIA A FORMED PATHWAY**
[54] **TIMBRE D'ADMINISTRATION DE PERMEANT PAR L'INTERMEDIAIRE D'UN PASSAGE FORME**
[72] HORIE, SHOHEI, US
[72] NISHIMURA, MASATO, US
[72] HUA, JOE, US
[72] KUMAR, SUNNY, US
[72] ADACHI, HIROTOSHI, US
[71] PASSPORT TECHNOLOGIES, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039426)
[87] (WO2020/264025)
[30] US (62/868,651) 2019-06-28

[21] **3,145,203**
[13] A1
[51] **Int.Cl. A61K 31/422 (2006.01) A61K 9/70 (2006.01) A61K 31/4045 (2006.01) A61K 31/4196 (2006.01) A61M 37/00 (2006.01) A61N 1/30 (2006.01) A61P 25/06 (2006.01)**
[25] EN
[54] **TRIPTAN MICROPORATION DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION DE MICRO-POROSITES DE TRIPTAN**
[72] ADACHI, HIROTOSHI, US
[72] HORIE, SHOHEI, US
[72] HANATANI, AKINORI, US
[72] NISHIMURA, MASATO, US
[72] YAMADA, YUKI, US
[72] HUA, JOE, US
[71] PASSPORT TECHNOLOGIES, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039427)
[87] (WO2020/264026)
[30] US (62/868,697) 2019-06-28

[21] **3,145,204**
[13] A1
[51] **Int.Cl. A61K 31/427 (2006.01) A61P 13/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **ANALOGUES OF 3-(5-METHYL-1,3-THIAZOL-2-YL)-N-{(1R)-1-[2-(TRIFLUORO-METHYL)PYRIMIDIN-5-YL]ETHYL}BENZAMIDE**
[54] **ANALOGUES DE3-(5-METHYL-1,3-THIAZOL-2-YL)-N-{(1R)-1-[2-(TRIFLUORO-METHYL)PYRIMIDIN-5-YL]ETHYL}BENZAMIDE**
[72] ROTTMANN, ANTJE, DE
[72] FISCHER, OLIVER MARTIN, DE
[72] THEDE, KAI, DE
[72] HERBERT, SIMON ANTHONY, DE
[72] GANZER, URSULA, DE
[72] ROTGERI, ANDREA, DE
[72] POOK, ELISABETH, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[85] 2021-12-23
[86] 2020-06-25 (PCT/EP2020/067828)
[87] (WO2020/260463)
[30] EP (19182797.1) 2019-06-27

[21] **3,145,205**
[13] A1
[51] **Int.Cl. E05F 15/641 (2015.01) B60B 33/06 (2006.01) E05D 15/56 (2006.01)**
[25] EN
[54] **WORMSCREW FOR DISPLACEMENT OF WHEEL**
[54] **VIS SANS FIN SERVANT AU DEPLACEMENT DE ROUE**
[72] LIBAKKEN, ROLF, NO
[71] WHEEL.ME AS, NO
[85] 2021-12-23
[86] 2020-06-25 (PCT/EP2020/067974)
[87] (WO2020/260551)
[30] NO (20190806) 2019-06-27

[21] **3,145,206**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 9/00 (2006.01) A61K 9/70 (2006.01)**
[25] EN
[54] **TRANSDERMAL DRUG DELIVERY PATCH, DRUG DELIVERY SYSTEM AND DRUG DELIVERY METHOD**
[54] **TIMBRE D'ADMINISTRATION DE MEDICAMENT TRANSDERMIQUE, SYSTEME D'ADMINISTRATION DE MEDICAMENT ET PROCEDE D'ADMINISTRATION DE MEDICAMENT**
[72] HUA, JOE, US
[72] NISHIMURA, MASATO, US
[72] HORIE, SHOHEI, US
[72] MITSUSHIMA, MASHIRO, US
[72] ADACHI, HIROTOSHI, US
[71] PASSPORT TECHNOLOGIES, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039435)
[87] (WO2020/264032)
[30] US (62/868,669) 2019-06-28

[21] **3,145,207**
[13] A1
[51] **Int.Cl. B60B 33/00 (2006.01) B60B 33/06 (2006.01)**
[25] EN
[54] **ROLLER DEVICE WITH ECCENTRIC WHEEL AXLE**
[54] **DISPOSITIF ROULANT A AXE DE ROUE EXCENTRIQUE**
[72] LIBAKKEN, ROLF, NO
[71] WHEEL.ME AS, NO
[85] 2021-12-23
[86] 2020-06-25 (PCT/EP2020/067975)
[87] (WO2020/260552)
[30] NO (20190805) 2019-06-27

[21] **3,145,208**
[13] A1
[51] **Int.Cl. B23K 26/361 (2014.01) C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**
[25] EN
[54] **LINEAR GROOVE FORMATION METHOD AND LINEAR GROOVE FORMING APPARATUS, AND METHOD FOR MANUFACTURING GRAIN-ORIENTED ELECTRICAL STEEL SHEET**
[54] **PROCEDE DE FORMATION DE RAINURE LINEAIRE, DISPOSITIF DE FORMATION DE RAINURE LINEAIRE, ET PROCEDE DE PRODUCTION DE TOLE D'ACIER MAGNETIQUE ORIENTEE**
[72] OMURA, TAKESHI, JP
[72] ICHIHARA, YOSHIHISA, JP
[72] TAKAJO, SHIGEHIRO, JP
[72] INOUE, HIROTAKA, JP
[71] JFE STEEL CORPORATION, JP
[85] 2021-12-23
[86] 2020-07-03 (PCT/JP2020/026183)
[87] (WO2021/020028)
[30] JP (2019-140967) 2019-07-31

[21] **3,145,210**
[13] A1
[51] **Int.Cl. B32B 5/24 (2006.01) B32B 5/26 (2006.01) B32B 9/00 (2006.01)**
[25] EN
[54] **FABRICATION OF AEROGELS AND AEROGEL COMPOSITES BY AMBIENT PRESSURE SUBLIMATION OF FROZEN SOLVENTS**
[54] **FABRICATION D'AEROGELS ET DE COMPOSITES D'AEROGEL OBTENUS PAR SUBLIMATION A PRESSION AMBIANTE DE SOLVANTS CONGELES**
[72] BERTINO, MASSIMO, US
[72] SELDEN, TYLER, US
[71] VIRGINIA COMMONWEALTH UNIVERSITY, US
[85] 2021-12-23
[86] 2020-06-25 (PCT/US2020/039485)
[87] (WO2020/264070)
[30] US (62/868,228) 2019-06-28

[21] **3,145,211**
[13] A1
[51] **Int.Cl. G07D 9/00 (2006.01)**
[25] EN
[54] **A COIN FEEDING UNIT, A MODULE COMPRISING SAID COIN FEEDING UNIT, AND A COIN HANDLING MACHINE**
[54] **UNITE D'ALIMENTATION EN PIECES DE MONNAIE, MODULE COMPRENANT LADITE UNITE D'ALIMENTATION EN PIECES DE MONNAIE, ET MACHINE DE MANIPULATION DE PIECES DE MONNAIE**
[72] WALLMAN-CARLSSON, VICTOR, SE
[72] MELIN, HAKAN, SE
[72] BENGTSSON, KRISTIAN, SE
[72] WIGENSTAM, DAN, SE
[71] SCAN COIN AB, SE
[85] 2021-12-23
[86] 2020-06-26 (PCT/EP2020/068089)
[87] (WO2020/260627)
[30] SE (1950807-6) 2019-06-28

[21] **3,145,212**
[13] A1
[51] **Int.Cl. G01N 33/542 (2006.01) C12Q 1/6804 (2018.01) C12Q 1/6876 (2018.01) C12N 15/10 (2006.01) G01N 33/536 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR PROXIMITY LIGATION**
[54] **PROCEDES ET COMPOSITIONS POUR LIGATURE DE PROXIMITE**
[72] MUNDING, ELIZABETH, US
[72] BLANCHETTE, MARCO, US
[71] DOVETAIL GENOMICS, LLC, US
[85] 2021-12-23
[86] 2020-06-25 (PCT/US2020/039656)
[87] (WO2020/264185)
[30] US (62/867,463) 2019-06-27
[30] US (62/870,297) 2019-07-03
[30] US (62/931,069) 2019-11-05
[30] US (63/011,490) 2020-04-17
[30] US (63/014,422) 2020-04-23

[21] **3,145,213**
[13] A1
[51] **Int.Cl. G01N 1/02 (2006.01) G01N 1/04 (2006.01) G01N 1/44 (2006.01) G01N 33/24 (2006.01)**
[25] FR
[54] **DEVICE FOR PRODUCING GASEOUS CO2 FROM CARBONATES FOR ISOTOPIC ANALYSIS (.DELTA.13C AND .DELTA.18O) IN SITU, AND ASSOCIATED METHOD**
[54] **DISPOSITIF DE PRODUCTION DE CO2 GAZEUX A PARTIR DE CARBONATES POUR ANALYSE ISOTOPIQUE (.DELTA.13C ET .DELTA.18O) SUR SITE ET PROCEDE ASSOCIE**
[72] MUSSET, OLIVIER, FR
[72] THOMAZO, CHRISTOPHE, FR
[72] SANS JOFRE, PIERRE, FR
[72] COCQUEREZ, THEOPHILE, FR
[72] LALONDE, STEFAN, FR
[71] UNIVERSITE DE BOURGOGNE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE BRETAGNE OCCIDENTALE, FR
[85] 2021-12-23
[86] 2020-06-30 (PCT/EP2020/068346)
[87] (WO2021/001344)
[30] FR (FR1907289) 2019-07-01

[21] **3,145,215**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/745 (2015.01) A23L 33/135 (2016.01) A61K 31/702 (2006.01) C07K 14/81 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **SERPIN PRODUCTION**
[54] **PRODUCTION DE SERPINE**
[72] DUBOUX, STEPHANE, CH
[72] DUNCAN, PETER, CH
[72] GOLLIARD, MIREILLE, CH
[72] KLEEREBEZEM, MICHIEL, NL
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-12-23
[86] 2020-06-30 (PCT/EP2020/068399)
[87] (WO2021/001367)
[30] EP (19183648.5) 2019-07-01

[21] **3,145,216**
[13] A1
[51] **Int.Cl. C07C 2/04 (2006.01) C10L 1/04 (2006.01)**
[25] EN
[54] **BIO-BASED OLEFIN OLIGOMERIZATION VIA CHABAZITE ZEOLITE CATALYST**
[54] **OLIGOMERISATION D'OLEFINES D'ORIGINE BIOLOGIQUE PAR L'INTERMEDIAIRE D'UN CATALYSEUR DE ZEOLITE DE TYPE CHABAZITE**
[72] SMITH, JONATHAN, US
[72] SJODIN, MADELINE, US
[71] GEVO, INC., US
[85] 2021-12-23
[86] 2020-06-25 (PCT/US2020/039681)
[87] (WO2020/264207)
[30] US (62/867,776) 2019-06-27

[21] **3,145,218**
[13] A1
[51] **Int.Cl. A23L 7/25 (2016.01) A23L 7/117 (2016.01) A23L 7/135 (2016.01) A23L 7/152 (2016.01)**
[25] EN
[54] **CEREAL FLAKES**
[54] **FLOCONS DE CEREALES**
[72] DELCOUR, JAN, BE
[72] LEMMENS, ELIEN, BE
[72] DE BRIER, NIELS, BE
[72] DELEU, LOMME, BE
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE
[85] 2021-12-23
[86] 2020-07-01 (PCT/EP2020/068460)
[87] (WO2021/001401)
[30] EP (19183562.8) 2019-07-01
[30] EP (19184286.3) 2019-07-04

[21] **3,145,219**
[13] A1
[51] **Int.Cl. C07C 1/12 (2006.01) C07C 9/04 (2006.01)**
[25] EN
[54] **METHANE PRODUCTION APPARATUS, METHANE PRODUCTION METHOD, CARBON DIOXIDE RECOVERY APPARATUS, AND CARBON DIOXIDE RECOVERY METHOD**
[54] **APPAREIL DE PRODUCTION DE METHANE, PROCEDE DE PRODUCTION DE METHANE, DISPOSITIF DE RECUPERATION DE DIOXYDE DE CARBONE ET PROCEDE DE RECUPERATION DE DIOXYDE DE CARBONE**
[72] MATSUZAKI, YOSHIO, JP
[72] BABA, YOSHITAKA, JP
[72] SATO, KOKI, JP
[72] IINUMA, HIROKI, JP
[72] OTOMO, JUNICHIRO, JP
[71] TOKYO GAS CO., LTD., JP
[71] THE UNIVERSITY OF TOKYO, JP
[85] 2021-12-23
[86] 2020-07-14 (PCT/JP2020/027358)
[87] (WO2021/015056)
[30] JP (2019-133519) 2019-07-19

[21] **3,145,220**
[13] A1
[51] **Int.Cl. A23L 33/105 (2016.01) A61K 31/4425 (2006.01) A61K 36/48 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USING TRIGONELLINE TO PRODUCE INTRACELLULAR NAD+**
[54] **COMPOSITIONS ET PROCEDES UTILISANT DE LA TRIGONELLINE POUR PRODUIRE DU NAD+ INTRACELLULAIRE**
[72] FEIGE, JEROME, CH
[72] MEMBREZ, MATHIEU, CH
[72] SORRENTINO, VINCENZO, CH
[72] CHRISTEN, STEFAN, CH
[72] GINER, MARIA PILAR, CH
[72] MOCO, SOFIA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-12-23
[86] 2020-07-03 (PCT/EP2020/068786)
[87] (WO2021/004921)
[30] US (62/870988) 2019-07-05

[21] **3,145,221**
[13] A1
[51] **Int.Cl. G06Q 30/00 (2012.01) G06Q 20/32 (2012.01) B65B 3/00 (2006.01)**
[25] EN
[54] **BEVERAGE DISPENSER WITH BEVERAGE-LEVEL INDICATOR**
[54] **DISTRIBUTEUR DE BOISSON AYANT UN INDICATEUR DE NIVEAU DE BOISSON**
[72] MOSKOWITZ, STEVEN PHILIP, US
[71] PEPSICO, INC., US
[85] 2021-12-23
[86] 2020-06-25 (PCT/US2020/039696)
[87] (WO2021/007043)
[30] US (16/509,317) 2019-07-11

[21] **3,145,222**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **METHODS FOR DIAGNOSING THE EFFECTIVENESS OF ANTI-TUMOR TREATMENT**
[54] **PROCEDES DE DIAGNOSTIC DE L'EFFICACITE D'UN TRAITEMENT ANTI-TUMORAL**
[72] WURFEL, WOLFGANG, DE
[72] WIRTZ, RALPH MARKUS, DE
[72] WINTERHALTER, CHRISTOPH, DE
[72] WURFEL, FRANZISKA, DE
[71] INTELLEXON GMBH, DE
[85] 2021-12-23
[86] 2020-07-06 (PCT/EP2020/068990)
[87] (WO2021/005002)
[30] EP (19184681.5) 2019-07-05

[21] **3,145,225**
[13] A1
[51] **Int.Cl. F16L 15/04 (2006.01)**
[25] EN
[54] **THREADED CONNECTION**
[54] **JOINT FILETE**
[72] OKU, YOUSUKE, JP
[72] MARUTA, SATOSHI, JP
[72] SUGINO, MASAAKI, JP
[72] FOTHERGILL, ALAN, FR
[71] NIPPON STEEL CORPORATION, JP
[71] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2021-12-23
[86] 2020-08-20 (PCT/JP2020/031453)
[87] (WO2021/059807)
[30] JP (2019-172936) 2019-09-24

[21] **3,145,226**
[13] A1
[51] **Int.Cl. A61F 2/68 (2006.01)**
[25] EN
[54] **ACTUATOR AND HEAT STORE FOR ACTUATOR**
[54] **ACTIONNEUR ET ACCUMULATEUR DE CHALEUR POUR ACTIONNEUR**
[72] SIMA, HARALD, AT
[72] MEJIA NINO, JUAN PABLO, AT
[72] HAGLAGE, JOACHIM, AT
[71] OTTO BOCK HEALTHCARE PRODUCTS GMBH, AT
[85] 2021-12-23
[86] 2020-07-07 (PCT/EP2020/069118)
[87] (WO2021/005056)
[30] DE (10 2019 118 422.3) 2019-07-08

[21] **3,145,227**
[13] A1
[51] **Int.Cl. A47J 43/046 (2006.01) A47J 43/08 (2006.01)**
[25] EN
[54] **REGULATION OF WISKING OF A FOOD SUBSTANCE**
[54] **REGULATION DU BATTAGE D'UNE SUBSTANCE ALIMENTAIRE**
[72] BYUN, DA MI, CH
[72] GRANGER, ERIC, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-12-23
[86] 2020-07-10 (PCT/EP2020/069482)
[87] (WO2021/005194)
[30] EP (19185813.3) 2019-07-11

[21] **3,145,228**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01)**
[25] EN
[54] **AFRICAN SWINE FEVER VACCINE**
[54] **VACCIN CONTRE LA PESTE PORCINE AFRICAINE**
[72] FINGER, AVNER, US
[72] ZRACHYA, AVI, US
[72] COHEN, OFER, IL
[72] ZVI, ANAT, IL
[71] PHIBRO ANIMAL HEALTH CORPORATION, US
[71] LIFE SCIENCE RESEARCH ISRAEL LTD., IL
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039846)
[87] (WO2020/264312)
[30] US (62/868,483) 2019-06-28
[30] US (62/941,381) 2019-11-27

[21] **3,145,229**
[13] A1
[51] **Int.Cl. H01R 9/05 (2006.01) H01R 13/53 (2006.01)**
[25] FR
[54] **TERMINAL DEVICE FOR A SHIELDED CABLE WITH MINERAL INSULATION**
[54] **DISPOSITIF TERMINAL POUR CABLE BLINDE A ISOLANT MINERAL**
[72] LECHARPENTIER, DENIS, FR
[72] MARIE, GILLES, FR
[71] THERMOCOAX, FR
[85] 2021-12-23
[86] 2020-07-10 (PCT/EP2020/069574)
[87] (WO2021/005215)
[30] FR (FR1907740) 2019-07-10

[21] **3,145,230**
[13] A1
[51] **Int.Cl. C07B 37/04 (2006.01) C07B 43/04 (2006.01) C07D 213/127 (2006.01) C07D 217/24 (2006.01) C07D 409/04 (2006.01) C07F 15/04 (2006.01)**
[25] EN
[54] **AIR-STABLE NI(0)-OLEFIN COMPLEXES AND THEIR USE AS CATALYSTS OR PRECATALYSTS**
[54] **COMPLEXES DE NI(0)-OLEFINE STABLES A L'AIR ET LEUR UTILISATION EN TANT QUE CATALYSEURS OU PRECATALYSEURS**
[72] CORNELLA, JOSEP, DE
[72] NATTMANN, LUKAS, DE
[71] STUDIENGESELLSCHAFT KOHLE MBH, DE
[85] 2021-12-23
[86] 2020-07-14 (PCT/EP2020/069898)
[87] (WO2021/018572)
[30] EP (19189236.3) 2019-07-30
[30] DE (10 2019 214 138.2) 2019-09-17

[21] **3,145,231**
[13] A1
[51] **Int.Cl. B42D 25/373 (2014.01) D21H 21/48 (2006.01)**
[25] EN
[54] **PAPER SUBSTRATES INCORPORATING COVERT MARKING PIGMENTS, AND PROCESSES FOR OBTAINING AND USING SAME**
[54] **SUBSTRATS DE PAPIER INCORPORANT DES PIGMENTS DE MARQUAGE CACHES, ET LEURS PROCEDES D'OBTENTION ET D'UTILISATION**
[72] REED, DAVID VERD, US
[72] BOVEE, MATTHEW JAMES, US
[72] REGEL, JAMES D., US
[72] SKAGGS, BENNY JOE, US
[72] DANNEMILLER, MARIA A., US
[71] INTERNATIONAL PAPER COMPANY, US
[85] 2021-12-23
[86] 2020-06-23 (PCT/US2020/039074)
[87] (WO2020/263789)
[30] US (16/450,320) 2019-06-24

[21] **3,145,232**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **INHIBITORS OF PRC1 FOR TREATMENT OF CANCER**
[54] **INHIBITEURS DE PRC1 POUR LE TRAITEMENT DU CANCER**
[72] GIANCOTTI, FILIPPO, US
[72] OUERFELLI, OUATHEK, US
[72] SU, WENJING, US
[72] YANG, GUANGLI, US
[72] SCHER, HOWARD, US
[72] MARZABADI, MOHAMMAD, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039896)
[87] (WO2020/264348)
[30] US (62/867,760) 2019-06-27

[21] **3,145,234**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 30/02 (2012.01) G16H 40/67 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) A01K 11/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR WELLNESS ASSESSMENT**
[54] **SYSTEME ET PROCEDE D'EVALUATION DU BIEN-ETRE**
[72] JUNGE, CHRISTIAN, US
[72] ALLEN, DAVID, US
[72] MOTT, ROBERT, US
[72] YANG, XIN, US
[72] PASSEY, ADAM, US
[72] HUANG, SHAO EN, US
[72] YODER, NATHANAEL, US
[72] CHAMBERS, ROBERT, US
[72] CARSON, ALETHA, US
[72] LYLE, SCOTT, US
[71] MARS, INCORPORATED, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039909)
[87] (WO2020/264360)
[30] US (62/867,226) 2019-06-26
[30] US (62/970,575) 2020-02-05
[30] US (63/007,896) 2020-04-09

[21] **3,145,235**
[13] A1
[51] **Int.Cl. A61B 8/00 (2006.01)**
[25] EN
[54] **NON-LINEAR ULTRASOUND METHOD AND APPARATUS FOR QUANTITATIVE DETECTION OF MATERIALS**
[54] **PROCEDE ET APPAREIL A ULTRASONS NON LINEAIRES PERMETTANT LA DETECTION QUANTITATIVE DE MATERIAUX**
[72] HEIM, JAMES M., US
[72] CROCHET, EARL J., US
[72] COLEMAN, WILLIAM, US
[72] BURCHAM, JOEL, US
[72] BIVOLARSKY, LAZAR, US
[71] PERCEPTIVE SENSOR TECHNOLOGIES, INC., US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039966)
[87] (WO2020/264407)
[30] US (62/867,093) 2019-06-26
[30] US (16/888,469) 2020-05-29

[21] **3,145,236**
[13] A1
[51] **Int.Cl. A61K 35/747 (2015.01) A23L 33/135 (2016.01) A61P 1/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **NOVEL PROBIOTIC COMPOSITION FOR REGULATION OF INTESTINAL IMMUNITY**
[54] **NOUVELLE COMPOSITION PROBIOTIQUE POUR LA REGULATION DE L'IMMUNITE INTESTINALE**
[72] MOON, JIN SEOK, KR
[72] KIM, TAE-YOON, KR
[72] KWON, HYUK-SANG, KR
[71] IL DONG PHARMACEUTICAL CO., LTD., KR
[85] 2021-12-23
[86] 2019-07-23 (PCT/KR2019/009117)
[87] (WO2020/262755)
[30] KR (10-2019-0077422) 2019-06-27

[21] **3,145,237**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 33/50 (2006.01)**
[25] EN
[54] **DEVELOPING CLASSIFIERS FOR STRATIFYING PATIENTS**
[54] **DEVELOPPEMENT DE CLASSIFICATEURS POUR STRATIFIER DES PATIENTS**
[72] GHIASSIAN, SUSAN, US
[72] MELLORS, THEODORE R., US
[72] SANTOLINI, MARC, US
[72] AMELI, ASHER, US
[72] SCHOENBRUNNER, NANCY, US
[72] AKMAEV, VIATCHESLAV R., US
[72] JOHNSON, KEITH J., US
[71] SCIPHER MEDICINE CORPORATION, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039991)
[87] (WO2020/264426)
[30] US (62/867,853) 2019-06-27
[30] US (62/882,402) 2019-08-02
[30] US (62/965,486) 2020-01-24

[21] **3,145,240**
[13] A1
[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/109 (2014.01) H04N 19/513 (2014.01) H04N 19/573 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **INTER PREDICTION-BASED IMAGE CODING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE CODAGE D'IMAGE BASE SUR UNE PREDICTION INTER**
[72] PARK, NAERI, KR
[72] NAM, JUNGHAK, KR
[72] JANG, HYEONGMOON, KR
[71] LG ELECTRONICS INC., KR
[85] 2021-12-23
[86] 2020-06-24 (PCT/KR2020/008133)
[87] (WO2020/262914)
[30] US (62/865,958) 2019-06-24

[21] **3,145,241**
[13] A1
[51] **Int.Cl. G06T 7/136 (2017.01) G06T 7/174 (2017.01) G06T 7/35 (2017.01)**
[25] EN
[54] **MACHINE LEARNING SYSTEMS AND METHODS FOR IMPROVED LOCALIZATION OF IMAGE FORGERY**
[54] **SYSTEMES ET PROCEDES D'APPRENTISSAGE MACHINE POUR LA LOCALISATION AMELIOREE D'UNE FALSIFICATION D'IMAGE**
[72] BOULT, TERRANCE E., US
[72] CRUZ, STEVE, US
[72] GHOSH, AUROBRATA, DE
[72] SINGH, MANEESH KUMAR, US
[72] VEERAVARASAPU, VENKATA SUBBARAO, DE
[72] ZHONG, ZHENG, US
[71] INSURANCE SERVICES OFFICE, INC., US
[85] 2021-12-23
[86] 2020-06-24 (PCT/US2020/039394)
[87] (WO2020/264006)
[30] US (62/865,414) 2019-06-24

[21] **3,145,242**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR TARGETED EXPANSION OF REGULATORY T CELLS**
[54] **PROCEDES ET SUBSTANCES DESTINES A L'EXPANSION CIBLEE DE LYMPHOCYTES T REGULATEURS**
[72] SPANGLER, JAMIE, US
[72] VANDYKE, DEREK, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039854)
[87] (WO2020/264318)
[30] US (62/867,012) 2019-06-26

[21] **3,145,243**
[13] A1
[51] **Int.Cl. C12Q 1/6813 (2018.01) C12Q 1/6874 (2018.01) C12Q 1/6888 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSOCIATING SINGLE CELL IMAGING WITH RNA TRANSCRIPTOMICS**
[54] **SYSTEMES ET PROCEDES PERMETTANT D'ASSOCIER UNE IMAGERIE A CELLULE INDIVIDUELLE A LA TRANSCRIPTOMIQUE ARN**
[72] DUVALL, JACQUELYN, US
[72] THOMPSON, BRANDON, US
[72] SIMS, PETER ALAN, US
[72] YUAN, JINZHOU, US
[72] LIU, ZHOUZERUI, US
[72] MIZRAK, DOGUKAN, US
[72] GEBHART, STEVEN C., US
[72] BOONE, PETER GLYN, US
[71] CELL MICROSYSTEMS, INC., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039943)
[87] (WO2020/264387)
[30] US (62/867,830) 2019-06-27

[21] **3,145,244**
[13] A1
[51] **Int.Cl. C08B 1/00 (2006.01) C08J 11/10 (2006.01) C12P 7/08 (2006.01) C12P 7/10 (2006.01) C13K 1/02 (2006.01)**
[25] EN
[54] **COTTON TEXTILE WASTE FABRIC USED AS A BIOMASS FOR THE PRODUCTION OF SUGAR**
[54] **TISSU DE DECHETS TEXTILES EN COTON UTILISE COMME BIOMASSE POUR LA PRODUCTION DE SUCRE**
[72] FARRELL, MATTHEW, US
[72] FU, SHA, US
[72] ANKENY, MARY, US
[71] COTTON INCORPORATED, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039954)
[87] (WO2021/003077)
[30] US (62/869,485) 2019-07-01

[21] **3,145,246**
[13] A1
[51] **Int.Cl. C12N 9/12 (2006.01)**
[25] EN
[54] **POLYMERIZING ENZYMES FOR SEQUENCING REACTIONS**
[54] **ENZYMES POLYMERISANTS POUR DES REACTIONS DE SEQUENCAGE**
[72] REED, BRIAN, US
[72] PANDEY, MANJULA, US
[71] QUANTUM-SI INCORPORATED, US
[85] 2021-12-23
[86] 2020-06-26 (PCT/US2020/039994)
[87] (WO2020/264429)
[30] US (62/868,806) 2019-06-28
[30] US (62/993,597) 2020-03-23

[21] **3,145,247**
[13] A1
[51] **Int.Cl. A61K 31/343 (2006.01) A61K 31/55 (2006.01) A61K 33/00 (2006.01) A61P 25/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TASIMELTEON USE IN TREATING SLEEP ABERRATIONS**
[54] **UTILISATION DE TASIMELTEON DANS LE TRAITEMENT D'ABERRATIONS DU SOMMEIL**
[72] POLYMEROPOULOS, MIHAEL, US
[72] SMIESZEK, SANDRA, US
[71] VANDA PHARMACEUTICALS INC., US
[85] 2021-12-23
[86] 2020-06-29 (PCT/US2020/040081)
[87] (WO2021/003086)
[30] US (62/868,881) 2019-06-29

[21] **3,145,248**
[13] A1
[51] **Int.Cl. H02G 3/00 (2006.01) H01R 13/44 (2006.01) H01R 13/447 (2006.01) H02G 3/14 (2006.01)**
[25] EN
[54] **PROTECTIVE OUTLET COVER**
[54] **COUVERCLE DE SORTIE DE PROTECTION**
[72] KORCZ, KRZYSZTOF, US
[72] JOHNSON, STEVEN, US
[71] HUBBELL INCORPORATED, US
[85] 2021-12-23
[86] 2020-06-29 (PCT/US2020/040088)
[87] (WO2020/264485)
[30] US (62/868,388) 2019-06-28

[21] **3,145,250**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/20 (2006.01) A61K 39/00 (2006.01) A61P 1/18 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATMENT OF PANCREATIC CANCER**
[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DU CANCER DU PANCREAS**
[72] BALACHANDRAN, VINOD, US
[72] MERGHOUB, TAHA, US
[72] MORAL, JOHN ALEC, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2021-12-23
[86] 2020-06-30 (PCT/US2020/040262)
[87] (WO2021/003138)
[30] US (62/868,976) 2019-06-30
[30] US (62/937,219) 2019-11-18

[21] **3,145,251**
[13] A1
[51] **Int.Cl. A62C 35/68 (2006.01)**
[25] EN
[54] **SPRINKLER WITH FLEXIBLE BODY**
[54] **ARROSEUR A CORPS SOUPLE**
[72] OAKES, CHARLES, US
[72] DAVIS, MICHAEL J., US
[72] BALLARD, ROBERT J., US
[71] VICTAULIC COMPANY, US
[85] 2021-12-23
[86] 2020-06-30 (PCT/US2020/040291)
[87] (WO2021/003153)
[30] US (62/870,102) 2019-07-03

[21] **3,145,253**
[13] A1
[51] **Int.Cl. C12N 9/88 (2006.01) C12N 15/82 (2006.01) C12P 5/00 (2006.01)**
[25] EN
[54] **CANNABIS TERPENE SYNTHASE PROMOTERS FOR THE MANIPULATION OF TERPENE BIOSYNTHESIS IN TRICHOMES**
[54] **PROMOTEURS DE TERPENE SYNTHASE DU CANNABIS POUR LA MANIPULATION DE LA BIOSYNTHESE DES TERPENES DANS LES TRICHOMES**
[72] RUSHTON, PAUL, US
[72] SAROWAR, SUJON, US
[71] 22ND CENTURY LIMITED, LLC, US
[85] 2021-12-23
[86] 2020-06-30 (PCT/US2020/040339)
[87] (WO2021/003180)
[30] US (62/869,353) 2019-07-01

[21] **3,145,255**
[13] A1
[51] **Int.Cl. C09D 183/04 (2006.01) C09D 7/44 (2018.01) C09D 7/61 (2018.01)**
[25] EN
[54] **SILICONE-BASED BARRIER COMPOSITIONS**
[54] **COMPOSITIONS BARRIERE A BASE DE SILICONE**
[72] TATE, MICHAEL P., US
[72] BAI, ZHIFENG, US
[72] MECCA, JODI M., US
[72] CHATTERJEE, TIRTHA, US
[72] HE, YIYONG, US
[72] BRASSEUR, MICHAEL, US
[72] BALIJEPALLI, SUDHAKAR, US
[72] RABASCO, JOHN J., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] DOW SILICONES CORPORATION, US
[71] ROHM AND HAAS COMPANY, US
[85] 2021-12-23
[86] 2020-07-01 (PCT/US2020/040401)
[87] (WO2021/003205)
[30] US (62/870,111) 2019-07-03

[21] **3,145,256**
[13] A1
[51] **Int.Cl. H05B 6/76 (2006.01) E01C 19/08 (2006.01) E01C 19/10 (2006.01) H05B 6/78 (2006.01)**
[25] EN
[54] **MICROWAVE HEATING SYSTEM WITH SUPPRESSION TUNNEL AND RELATED FEATURES**
[54] **SYSTEME DE CHAUFFAGE PAR MICRO-ONDES AVEC TUNNEL DE SUPPRESSION ET CARACTERISTIQUES ASSOCIEES**
[72] FREDERIXON, DREW J., US
[72] HEHIR, JACOB G., US
[72] JAEGER, KENNETH D., US
[72] BYRNES, MICHAEL R., US
[72] REINKE, GERALD H., US
[72] HEGG, VERNON R., US
[71] A.L.M HOLDING COMPANY, US
[85] 2021-12-23
[86] 2020-07-01 (PCT/US2020/040464)
[87] (WO2021/003250)
[30] US (62/869,305) 2019-07-01

[21] **3,145,258**
[13] A1
[51] **Int.Cl. G08B 25/00 (2006.01) G08B 21/10 (2006.01) G08B 23/00 (2006.01) G08B 29/00 (2006.01)**
[25] EN
[54] **PROPERTY DAMAGE RISK EVALUATION**
[54] **EVALUATION DE RISQUE DE DEGATS DE PROPRIETE**
[72] TRUNDLE, STEPHEN SCOTT, US
[72] EIDELMAN, AARON, US
[72] KINNEY, ABRAHAM JOSEPH, US
[71] ALARM.COM INCORPORATED, US
[85] 2021-12-23
[86] 2020-07-01 (PCT/US2020/040482)
[87] (WO2021/003264)
[30] US (62/869,339) 2019-07-01

[21] **3,145,288**
[13] A1
[51] **Int.Cl. B65D 41/00 (2006.01)**
[25] EN
[54] **PDMS GRANULAR COATED VIAL**
[54] **FLACON REVETU GRANULAIRE DE PDMS**
[72] TRUONG, TAI VAN, US
[72] PORTER, NATHAN, US
[72] LEE, EDGAR D., US
[71] PERKINELMER HEALTH SCIENCES, INC., US
[85] 2021-12-23
[86] 2020-07-01 (PCT/US2020/040576)
[87] (WO2021/003316)
[30] US (62/869,463) 2019-07-01

[21] **3,145,289**
[13] A1
[51] **Int.Cl. C12N 9/16 (2006.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 9/99 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR GENE REPLACEMENT**
[54] **COMPOSITIONS ET PROCEDES DE REMPLACEMENT DE GENE**
[72] HOLT, JEFFREY R., US
[71] CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040608)
[87] (WO2021/003337)
[30] US (62/870,488) 2019-07-03

[21] **3,145,290**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/20 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **DESIGN AND EFFICIENT SYNTHESIS OF LIPID-FLUORESCEIN CONJUGATES FOR CAR-T CELL THERAPY**
[54] **CONCEPTION ET SYNTHESE EFFICACE DE CONJUGUES LIPIDE-FLUORESCEINE POUR THERAPIE PAR CELLULE CAR-T**
[72] LOW, PHILIP STEWART, US
[72] SRINIVASARAO, MADDURI, US
[71] PURDUE RESEARCH FOUNDATION, US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040723)
[87] (WO2021/007109)
[30] US (62/870,926) 2019-07-05

[21] **3,145,291**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) C07K 16/18 (2006.01) C12Q 1/68 (2018.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING RAN PROTEIN-ASSOCIATED NEUROLOGICAL DISEASES**
[54] **METHODES DE TRAITEMENT DE MALADIES NEUROLOGIQUES ASSOCIEES A LA PROTEINE RAN**
[72] RANUM, LAURA, US
[72] NGUYEN, LIEN, US
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040725)
[87] (WO2021/007110)
[30] US (62/871,031) 2019-07-05
[30] US (63/025,096) 2020-05-14

[21] **3,145,292**
[13] A1
[51] **Int.Cl. B07B 1/46 (2006.01)**
[25] EN
[54] **APPARATUSES, METHODS, AND SYSTEMS FOR VIBRATORY SCREENING**
[54] **APPAREILS, PROCEDES ET SYSTEMES POUR CRIBLAGE PAR VIBRATIONS**
[72] COLGROVE, JAMES R., US
[72] PERESAN, MICHAEL L., US
[71] DERRICK CORPORATION, US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040734)
[87] (WO2021/003414)
[30] US (16/460,496) 2019-07-02

[21] **3,145,293**
[13] A1
[51] **Int.Cl. A61K 39/21 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **MAMMARY TUMOR VIRUS SUPPRESSION**
[54] **SUPPRESSION DU VIRUS DE TUMEUR MAMMAIRE**
[72] BARTSICH, SOPHIE, US
[71] VIRAGO VAX INC., US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040742)
[87] (WO2021/003421)
[30] US (16/460,295) 2019-07-02
[30] US (62/934,858) 2019-11-13

[21] **3,145,294**
[13] A1
[51] **Int.Cl. B01J 19/08 (2006.01) C12M 1/42 (2006.01) C12N 13/00 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND KITS FOR ELECTRO-MECHANICAL DELIVERY AND METHODS OF USE THEREOF**
[54] **DISPOSITIFS, SYSTEMES, ET KITS POUR UNE ADMINISTRATION ELECTRO-MECANIQUE ET PROCEDES D'UTILISATION DE CES DERNIERS**
[72] GARCIA, PAULO ANDRES, US
[72] MCCORMACK, RAMEECH, US
[72] SIDO, JESSICA, US
[72] HEMPHILL, JAMES, US
[72] BRALOWER, HARRISON, US
[72] BEIGHLEY, ROSS, US
[72] BUIE, CULLEN, US
[72] GRANT, BETHANY, US
[71] KYTOPEN CORPORATION, US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040784)
[87] (WO2021/003451)
[30] US (62/869,958) 2019-07-02
[30] US (PCT/US2019/058375) 2019-10-28

[21] **3,145,295**
[13] A1
[51] **Int.Cl. B32B 17/10 (2006.01) B32B 27/08 (2006.01) B32B 27/40 (2006.01)**
[25] EN
[54] **RESIN COMPOSITIONS FOR OPTICAL FILMS**
[54] **COMPOSITIONS DE RESINE POUR FILMS OPTIQUES**
[72] GALICA, JAMES, US
[71] SWM LUXEMBOURG, LU
[85] 2021-12-23
[86] 2020-07-06 (PCT/US2020/040940)
[87] (WO2021/015942)
[30] US (62/876,171) 2019-07-19

[21] **3,145,296**
[13] A1
[51] **Int.Cl. B01D 46/10 (2006.01) B01D 29/01 (2006.01) B01D 29/13 (2006.01) B01D 35/02 (2006.01) B01D 46/52 (2006.01)**
[25] EN
[54] **FLUOROPLASTIC SUPPORT MEMBRANE**
[54] **MEMBRANE DE SUPPORT EN PLASTIQUE FLUORE**
[72] PLATT, ANDREW G., US
[72] FEDERICO, RONALD, US
[72] TROJNAR, JOEL PATRICK, US
[71] SWM LUXEMBOURG, LU
[85] 2021-12-23
[86] 2020-07-06 (PCT/US2020/040941)
[87] (WO2021/011217)
[30] US (62/873,374) 2019-07-12

[21] **3,145,298**
[13] A1
[51] **Int.Cl. A61K 31/415 (2006.01) A61P 7/02 (2006.01) A61P 7/04 (2006.01) A61P 7/10 (2006.01) C07D 231/14 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS OF PLASMA KALLIKREIN INHIBITORS**
[54] **FORMES CRISTALLINES D'INHIBITEURS DE LA KALLICREINE PLASMATIQUE**
[72] SINHA, SUKANTO, US
[72] CHILCOTE, TAMIE, US
[72] NORTHEN, JULIAN SCOTT, GB
[72] MARSHALL, JAMIE, GB
[71] REZOLUTE, INC., US
[71] ACTIVESITE PHARMACEUTICALS, INC., US
[85] 2021-12-23
[86] 2020-07-07 (PCT/US2020/040955)
[87] (WO2021/007189)
[30] US (62/871,517) 2019-07-08

[21] **3,145,299**
[13] A1
[51] **Int.Cl. C07C 257/10 (2006.01) A61K 31/415 (2006.01) C07B 31/00 (2006.01) C07C 259/12 (2006.01) C07D 231/14 (2006.01)**
[25] EN
[54] **PROCESSES FOR PREPARING PLASMA KALLIKREIN INHIBITORS**
[54] **PROCEDES DE PREPARATION D'INHIBITEURS DE KALLIKREINE PLASMATIQUE**
[72] SINHA, SUKANTO, US
[72] CHILCOTE, TAMIE, US
[72] KRISHNAN, BABURAJ, IN
[72] BHAT, GANAPATI, IN
[72] MALIK, VINEET, IN
[71] REZOLUTE, INC., US
[71] ACTIVESITE PHARMACEUTICALS, INC., US
[85] 2021-12-23
[86] 2020-07-07 (PCT/US2020/040958)
[87] (WO2021/007190)
[30] US (62/871,526) 2019-07-08

[21] **3,145,300**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 20/12 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01) G06F 16/953 (2019.01) G06F 3/16 (2006.01)**
[25] EN
[54] **AUTHENTICATING VOICE TRANSACTIONS WITH PAYMENT CARD**
[54] **AUTHENTIFICATION DE TRANSACTIONS VOCALES AVEC CARTE DE PAIEMENT**
[72] OSBORN, KEVIN, US
[72] RULE, JEFFREY, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-12-23
[86] 2020-07-07 (PCT/US2020/040999)
[87] (WO2021/007203)
[30] US (16/504,987) 2019-07-08

[21] **3,145,301**
[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/38 (2006.01)**
[25] EN
[54] **ANTI-SERINE PROTEASE INHIBITOR KAZAL (SPIK) ANTIBODIES, IMMUNOCONJUGATES, AND METHODS OF USE**
[54] **ANTICORPS DIRIGES CONTRE L'INHIBITEUR DE SERINE PROTEASE KAZAL (SPIK), IMMUNOCONJUGUES ET PROCEDES D'UTILISATION**
[72] LU, XUANYONG, US
[72] LU, FELIX, US
[71] IMCARE BIOTECH, LLC., US
[85] 2021-12-23
[86] 2020-07-08 (PCT/US2020/041228)
[87] (WO2021/007338)
[30] US (62/871,565) 2019-07-08

[21] **3,145,302**
[13] A1
[51] **Int.Cl. A61B 18/00 (2006.01) A61B 18/02 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR TREATING EAR, NOSE, AND THROAT AFFLICTIONS**
[54] **DISPOSITIFS ET PROCEDES DE TRAITEMENT D'AFFECTIONS DE L'OREILLE, DU NEZ ET DE LA GORGE**
[72] FOX, WILLIAM JASON, US
[72] SAADAT, VAHID, US
[72] MOOSAVI, DAVID, US
[72] LLAMIDO, SHERWIN, US
[72] TUROVSKIY, ROMAN, US
[72] GOULD, WILLIAM, US
[72] HERRON, MATT ALLISON, US
[71] ARRINEX, INC., US
[85] 2021-12-23
[86] 2020-07-08 (PCT/US2020/041248)
[87] (WO2021/007348)
[30] US (62/872,195) 2019-07-09

[21] **3,145,303**
[13] A1
[51] **Int.Cl. A61K 31/4412 (2006.01) A61P 37/02 (2006.01) C07D 213/64 (2006.01)**
[25] EN
[54] **INDANES AS PD-L1 INHIBITORS**
[54] **INDANES EN TANT QU'INHIBITEURS DE PD-L1**
[72] MALATHONG, VIENGKHAM, US
[72] MALI, VENKAT REDDY, US
[72] MCMURTRIE, DARREN J., US
[72] PUNNA, SREENIVAS, US
[72] ROTH, HOWARD S., US
[72] SINGH, RAJINDER, US
[72] YANG, JU, US
[72] ZHANG, PENGLIE, US
[71] CHEMOCENTRYX, INC., US
[85] 2021-12-23
[86] 2020-07-09 (PCT/US2020/041316)
[87] (WO2021/007386)
[30] US (62/872,541) 2019-07-10

[21] **3,145,304**
[13] A1
[51] **Int.Cl. H04W 24/02 (2009.01) H04W 24/04 (2009.01) H04W 48/12 (2009.01) H04W 48/18 (2009.01) H04W 4/90 (2018.01)**
[25] EN
[54] **NETWORK RESELECTION DURING A DISASTER**
[54] **RESELECTION DE RESEAU LORS D'UN SINISTRE**
[72] QIAO, WEIHUA, US
[72] DINAN, ESMAEL, US
[72] PARK, KYUNGMIN, US
[72] TALEBI FARD, PEYMAN, US
[72] RYU, JINSOOK, US
[71] OFINNO, LLC, US
[85] 2021-12-23
[86] 2020-07-09 (PCT/US2020/041428)
[87] (WO2021/007447)
[30] US (62/872,099) 2019-07-09

[21] **3,145,305**
[13] A1
[51] **Int.Cl. A61K 31/44 (2006.01) A61P 25/16 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 405/04 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **INDAZOLES AND AZAINDAZOLES AS LRRK2 INHIBITORS**
[54] **INDAZOLES ET AZAINDAZOLES EN TANT QU'INHIBITEURS DE LRRK2**
[72] GAROFALO, ALBERT W., US
[72] DE LOMBAERT, STEPHANE, US
[72] SCHWARZ, JACOB BRADLEY, US
[72] ANDREOTTI, DANIELE, IT
[72] SABBATINI, FABIO MARIA, IT
[72] SERRA, ELENA, IT
[72] BERNARDI, SILVIA, IT
[72] MIGLIORE, MARCO, IT
[72] BUDASSI, FEDERICA, IT
[72] BEATO, CLAUDIA, IT
[71] ESCAPE BIO, INC., US
[85] 2021-12-23
[86] 2020-07-10 (PCT/US2020/041506)
[87] (WO2021/007477)
[30] US (62/872,891) 2019-07-11
[30] US (62/937,979) 2019-11-20

[21] **3,145,306**
[13] A1
[51] **Int.Cl. B65G 17/08 (2006.01) B65G 17/06 (2006.01) B65G 17/38 (2006.01) F16G 13/07 (2006.01) F16G 13/10 (2006.01)**
[25] EN
[54] **NOVEL CHAIN LINK**
[54] **NOUVEAU MAILLON DE CHAINE**
[72] BLANCHARD, KENNETH, US
[72] DUPERON, TERRY, US
[72] FUNCHION, BRYCE, US
[71] BLANCHARD, KENNETH, US
[71] DUPERON, TERRY, US
[71] FUNCHION, BRYCE, US
[85] 2021-12-23
[86] 2020-07-10 (PCT/US2020/041562)
[87] (WO2021/011361)
[30] US (16/509,968) 2019-07-12

[21] **3,145,307**
[13] A1
[51] **Int.Cl. B25J 9/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ROBOTIC BIN PICKING USING ADVANCED SCANNING TECHNIQUES**
[54] **SYSTEME ET PROCEDE DE PRELEVEMENT ROBOTISE DE COMPARTIMENT A L'AIDE DE TECHNIQUES DE BALAYAGE AVANCEES**
[72] ALOISIO, CHRISTOPHER THOMAS, US
[71] TERADYNE, INC., US
[85] 2021-12-23
[86] 2020-07-10 (PCT/US2020/041598)
[87] (WO2021/015967)
[30] US (16/520,007) 2019-07-23

[21] **3,145,308**
[13] A1
[51] **Int.Cl. H01H 9/28 (2006.01) H01H 23/04 (2006.01) H02G 3/14 (2006.01)**
[25] EN
[54] **RETROFIT REMOTE CONTROL DEVICE MOUNTING ASSEMBLY**
[54] **ENSEMBLE DE MONTAGE DE DISPOSITIF DE COMMANDE A DISTANCE D'ADAPTATION**
[72] RICHTER, ISABEL JANE HUNT, US
[72] WILZ, AARON JEFFREY, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2021-12-23
[86] 2020-07-10 (PCT/US2020/041599)
[87] (WO2021/011375)
[30] US (62/873,382) 2019-07-12
[30] US (62/882,184) 2019-08-02

[21] **3,145,309**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 48/00 (2006.01)**
[25] EN
[54] **RNA-TARGETING KNOCKDOWN AND REPLACEMENT COMPOSITIONS AND METHODS FOR USE**
[54] **COMPOSITIONS DE REMPLACEMENT ET D'INACTIVATION CIBLANT L'ARN ET METHODES D'UTILISATION**
[72] NELLES, DAVID A., US
[72] BATRA, RANJAN, US
[71] LOCANABIO, INC., US
[85] 2021-12-23
[86] 2020-07-10 (PCT/US2020/041634)
[87] (WO2021/007529)
[30] US (62/872,604) 2019-07-10
[30] US (62/968,819) 2020-01-31

[21] **3,145,310**
[13] A1
[51] **Int.Cl. H04N 21/214 (2011.01) H04N 21/24 (2011.01) H04N 21/258 (2011.01) H04N 21/262 (2011.01) H04N 21/414 (2011.01) H04N 21/61 (2011.01) H04N 21/647 (2011.01) H04N 21/845 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING PORTIONS OF MEDIA ASSETS FOR IMMEDIATE RETRIEVAL BY MULTIPLE DEVICES**
[54] **SYSTEMES ET PROCEDES POUR DETERMINER DES PARTIES DE CONTENUS MULTIMEDIAS POUVANT ETRE EXTRAITES IMMEDIATEMENT PAR DE MULTIPLES DISPOSITIFS**
[72] GANDHI, GAURAV, IN
[72] HARIJAN, KUPPAPPA, IN
[72] PANDE, SIDDHARTHA, IN
[72] PUNJA, DEVIPRASAD, IN
[72] SRINIVASAN, MADHUSUDHAN, IN
[71] ROVI GUIDES, INC., US
[85] 2021-12-23
[86] 2020-07-10 (PCT/US2020/041712)
[87] (WO2021/011418)
[30] US (16/510,783) 2019-07-12
[30] US (16/871,642) 2020-05-11

[21] **3,145,311**
[13] A1
[51] **Int.Cl. G06K 7/10 (2006.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **METHOD FOR MISSED ITEM RECOVERY IN RFID TUNNEL ENVIRONMENTS**
[54] **PROCEDE DE RECUPERATION D'ARTICLES MANQUES DANS DES ENVIRONNEMENTS DE TUNNEL RFID**
[72] ROTH, MARK, US
[71] AVERY DENNISON RETAIL INFORMATION SERVICES, LLC, US
[85] 2021-12-23
[86] 2020-07-15 (PCT/US2020/042037)
[87] (WO2021/011593)
[30] US (62/874,180) 2019-07-15

[21] **3,145,312**
[13] A1
[51] **Int.Cl. H01M 10/0525 (2010.01) H01M 4/525 (2010.01) H01M 4/04 (2006.01)**
[25] EN
[54] **NANOPOROUS LITHIUM VANADIUM FLUOROPHOSPHATE MATERIALS AND CATHODES FOR FAST CHARGING LI-ION BATTERIES**
[54] **MATERIAUX FLUOROPHOSPHATE DE LITHIUM-VANADIUM NANOPOREUX ET CATHODES POUR BATTERIES LI-ION A CHARGE RAPIDE**
[72] TOLBERT, SARAH H., US
[72] LIN, TERRI C., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-12-23
[86] 2020-07-16 (PCT/US2020/042394)
[87] (WO2021/011811)
[30] US (62/875,095) 2019-07-17

[21] **3,145,313**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/44 (2020.01) A24F 40/95 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **CONCENTRATE ADAPTOR FOR VAPORIZER DEVICE**
[54] **ADAPTATEUR DE CONCENTRE POUR DISPOSITIF VAPORISATEUR**
[72] BUCKNOR, FRANKLYN JR., US
[72] MANOUX, PHILIPE, US
[72] MARTIN, JACE, US
[72] RINGROSE, ALEXANDER, US
[72] RINGROSE, JOHN MAXWELL, US
[72] SARGENT, DANIEL, US
[72] TURGEL, ARIEL DAVID, US
[72] MAKAY, MICHAEL CHAD, US
[72] HEARN, MARK EDWARD, US
[72] VERHEUL, RICARDO, US
[72] VAN DE HEY, HALLE ANN, US
[71] JUUL LABS, INC., US
[85] 2021-12-23
[86] 2020-07-17 (PCT/US2020/042651)
[87] (WO2021/016121)
[30] US (62/876,527) 2019-07-19
[30] US (62/876,523) 2019-07-19
[30] US (62/876,522) 2019-07-19
[30] US (62/899,626) 2019-09-12
[30] US (62/929,715) 2019-11-01
[30] US (62/962,887) 2020-01-17
[30] US (63/019,198) 2020-05-01

[21] **3,145,314**
[13] A1
[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/73 (2006.01) B01D 53/81 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR UTILIZING CALCIUM COMPOUND FROM CALCINED LIMESTONE**
[54] **PROCEDES ET SYSTEMES PERMETTANT D'UTILISER UN COMPOSE DE CALCIUM A PARTIR DE CALCAIRE CALCINE**
[72] WEISS, MICHAEL JOSEPH, US
[72] GILLIAM, RYAN, US
[71] ARELAC, INC., US
[85] 2021-12-23
[86] 2020-07-20 (PCT/US2020/042810)
[87] (WO2021/016200)
[30] US (62/876,711) 2019-07-21

[21] **3,145,315**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A47C 21/00 (2006.01) A47C 31/00 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **LONG TERM SENSING OF SLEEP PHENOMENA**
[54] **DETECTION A LONG TERME DE PHENOMENES DE SOMMEIL**
[72] SAYADI, OMID, US
[72] SIYAHJANI, FARZAD, US
[71] SLEEP NUMBER CORPORATION, US
[85] 2021-12-23
[86] 2020-07-23 (PCT/US2020/043184)
[87] (WO2021/021539)
[30] US (62/879,121) 2019-07-26

[21] **3,145,316**
[13] A1
[51] **Int.Cl. E06B 9/384 (2006.01)**
[25] EN
[54] **WINDOW BLIND SLAT ATTACHMENT**
[54] **FIXATION DE LAME DE STORE DE FENETRE**
[72] KIRBY, DAVID A., US
[72] LAVERTY IV, GLENN S., US
[72] WU, MAILING REN, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2021-12-23
[86] 2020-07-24 (PCT/US2020/043433)
[87] (WO2021/016532)
[30] US (62/878,106) 2019-07-24

[21] **3,145,317**
[13] A1
[51] **Int.Cl. C08G 61/02 (2006.01) C08G 73/00 (2006.01) C08G 73/22 (2006.01) G01N 33/533 (2006.01) G01N 33/543 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **POLYMER DOTS**
[54] **POINTS POLYMERES**
[72] BELISLE, CHRISTOPHER, US
[72] GARIMELLA, PRAVEENA D., US
[72] RANIS, LEILA AMERY, US
[71] BIO-RAD LABORATORIES, INC., US
[85] 2021-12-23
[86] 2020-08-07 (PCT/US2020/045307)
[87] (WO2021/030160)
[30] US (62/884,706) 2019-08-09

[21] **3,145,318**
[13] A1
[51] **Int.Cl. C10G 9/38 (2006.01) C10G 21/00 (2006.01) C10G 45/00 (2006.01) C10G 47/26 (2006.01) C10G 65/12 (2006.01) C10G 67/04 (2006.01) C10G 69/06 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS FOR UPGRADING HEAVY HYDROCARBONS**
[54] **APPAREIL ET PROCEDE DE VALORISATION D'HYDROCARBURES LOURDS**
[72] SHEN, ERIC B., US
[72] KOVVALI, ANJANEYA S., US
[72] RAMKRISHNAN, ARUNA, US
[72] SHARMA, ARUN K., US
[72] CADY, SAMUEL J., US
[72] BROWN, STEPHEN H., US
[72] BILLIMORIA, RUSTOM M., US
[72] RAICH, BRENDA A., US
[72] PATEL, BRYAN A., US
[72] SCHOCH, PHILLIP K., US
[72] DELLA MORA, JOHN, CA
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2021-12-23
[86] 2020-08-14 (PCT/US2020/046268)
[87] (WO2021/045882)
[30] US (62/896,153) 2019-09-05

[21] **3,145,319**
[13] A1
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6811 (2018.01) C12Q 1/682 (2018.01)**
[25] EN
[54] **MULTI-SITE ENRICHMENT OF DELETIONS IN DNA MICROSATELLITES**
[54] **ENRICHISSEMENT MULTI-SITE DE DELETIONS DANS DES MICROSATELLITES D'ADN**
[72] MAKRIGIORGOS, GERASSIMOS, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2021-12-23
[86] 2020-08-20 (PCT/US2020/047098)
[87] (WO2021/034999)
[30] US (62/889,960) 2019-08-21

[21] **3,145,320**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01)**
[25] EN
[54] **NEUROSLEEVE FOR CLOSED LOOP EMG-FES BASED CONTROL OF PATHOLOGICAL TREMORS**
[54] **NEUROMANCHON DE MAITRISE DE TREMBLEMENTS PATHOLOGIQUES A BASE D'EMG-FES EN BOUCLE FERMEE**
[72] SHARMA, GAURAV, US
[72] GANZER, PATRICK, US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2021-12-23
[86] 2020-09-21 (PCT/US2020/048748)
[87] (WO2021/262206)
[30] US (PCT/US2020/039802) 2020-06-26

[21] **3,145,321**
[13] A1
[51] **Int.Cl. B60S 1/48 (2006.01)**
[25] EN
[54] **FLUID DEPOSITION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DEPOT DE FLUIDE**
[72] DELLAL, DAVID, US
[72] CASTILLO, HECTOR, US
[72] GUILLAUME, MITCHELL, US
[71] FLOE, INC., US
[85] 2021-12-23
[86] 2020-09-08 (PCT/US2020/049655)
[87] (WO2021/046511)
[30] US (62/897,345) 2019-09-08

[21] **3,145,322**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) B01J 19/00 (2006.01)**
[25] EN
[54] **FLOW CELLS**
[54] **CUVES DE CIRCULATION**
[72] HONG, SAHNGKI, US
[72] BOWEN, M. SHANE, US
[72] KRAFT, LEWIS J., US
[71] ILLUMINA, INC., US
[85] 2021-12-23
[86] 2020-12-18 (PCT/US2020/065889)
[87] (WO2021/127357)
[30] US (62/951,780) 2019-12-20

[21] **3,145,323**
[13] A1
[51] **Int.Cl. G10L 25/51 (2013.01) G10L 15/22 (2006.01) G10L 25/21 (2013.01) G10L 15/18 (2013.01)**
[25] EN
[54] **AUTOMATED WORD CORRECTION IN SPEECH RECOGNITION SYSTEMS**
[54] **CORRECTION DE MOT AUTOMATIQUE DANS DES SYSTEMES DE RECONNAISSANCE DE LA PAROLE**
[72] AHER, ANKUR ANIL, IN
[72] ROBERT JOSE, JEFFRY COPPS, IN
[71] ROVI GUIDES, INC., US
[85] 2021-12-23
[86] 2020-12-23 (PCT/US2020/066977)
[87] (WO2021/173220)
[30] US (16/804,201) 2020-02-28

[21] **3,145,324**
[13] A1
[51] **Int.Cl. G16C 20/30 (2019.01) G06N 20/00 (2019.01) G16C 20/70 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCING A PRODUCT**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION D'UN PRODUIT**
[72] PAPPAS, IRAKLIS, US
[72] LUCZYNSKI, BARTOSZ, US
[72] WU, DONGHUI, US
[72] KIM, DONG HYUN, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2021-12-23
[86] 2020-06-03 (PCT/US2020/070111)
[87] (WO2020/264547)
[30] US (16/452,214) 2019-06-25

[21] **3,145,325**
[13] A1
[51] **Int.Cl. B60S 1/40 (2006.01) B60S 1/38 (2006.01)**
[25] EN
[54] **MULTIPLE WIPER BLADE ADAPTER FOR WIPER BLADE ASSEMBLY**
[54] **ADAPTATEUR DE BALAI D'ESSUIE-GLACE MULTIPLE POUR ENSEMBLE BALAI D'ESSUIE-GLACE**
[72] PINA CABELLO, RICARDO, US
[72] KOWAL, ALEXANDER, US
[72] BRUNSMAN, KOLE, US
[72] NEMETH, NICHOLAS, US
[72] POLOCOSER, MITICA, US
[72] FINATERI, NICHOLAS, US
[71] TRICO PRODUCTS CORPORATION, US
[85] 2021-12-23
[86] 2020-06-29 (PCT/US2020/070214)
[87] (WO2020/264586)
[30] US (62/868,221) 2019-06-28

[21] **3,145,326**
[13] A1
[51] **Int.Cl. G16B 30/20 (2019.01) G16B 20/20 (2019.01)**
[25] EN
[54] **HARDWARE ACCELERATED K-MER GRAPH GENERATION**
[54] **GENERATION DE GRAPHE K-MERE ACCELEREE PAR MATERIEL**
[72] RUEHLE, MICHAEL, US
[71] ILLUMINA, INC., US
[85] 2021-12-23
[86] 2021-04-07 (PCT/US2021/026242)
[87] (WO2021/207403)
[30] US (63/006,668) 2020-04-07

[21] **3,145,327**
[13] A1
[51] **Int.Cl. A47J 37/07 (2006.01) F24C 3/02 (2006.01)**
[25] EN
[54] **MULTI-USE COOKING APPARATUS**
[54] **APPAREIL DE CUISSON POLYVALENT**
[72] CARDINALI, MARC, CA
[71] CARDINALI, MARC, CA
[85] 2021-12-24
[86] 2020-06-25 (PCT/CA2020/050883)
[87] (WO2020/257934)
[30] US (62/866,145) 2019-06-25

[21] **3,145,328**
[13] A1
[51] **Int.Cl. G01N 21/78 (2006.01) G01N 21/00 (2006.01) G01N 21/01 (2006.01)**
[25] EN
[54] **DEVICES FOR INSPECTING ADEQUATE EXPOSURE OF A TISSUE SAMPLE TO A TREATMENT MEDIUM AND METHODS AND USES THEREFOR**
[54] **DISPOSITIFS D'INSPECTION D'UNE EXPOSITION ADEQUATE D'UN ECHANTILLON DE TISSU A UN MILIEU DE TRAITEMENT ET PROCEDES ET UTILISATIONS DE CEUX-CI**
[72] HOSSEINZADEH, DANOUSH, CA
[72] YAKEEMOVICH, NATALI, CA
[71] PATHCORE INC., CA
[71] HOSSEINZADEH, DANOUSH, CA
[85] 2021-12-24
[86] 2020-06-26 (PCT/CA2020/050890)
[87] (WO2020/257939)
[30] SE (19507938) 2019-06-26

[21] **3,145,329**
[13] A1
[51] **Int.Cl. C10L 3/08 (2006.01) A62D 3/30 (2007.01) C01B 3/12 (2006.01) C01B 3/34 (2006.01) C10L 3/10 (2006.01) C02F 9/04 (2006.01)**
[25] EN
[54] **PROCESS FOR REDUCING AN ORGANIC MATERIAL TO PRODUCE METHANE AND/OR HYDROGEN**
[54] **PROCEDE DE REDUCTION D'UNE MATIERE ORGANIQUE POUR PRODUIRE DU METHANE ET/OU DE L'HYDROGENE**
[72] HALLETT, DOUGLAS JOHN FREDERICK, CA
[72] WILLIS, DAVID JONATHAN, CA
[71] HALLETT, DOUGLAS JOHN FREDERICK, CA
[71] WILLIS, DAVID JONATHAN, CA
[85] 2021-12-24
[86] 2020-06-26 (PCT/CA2020/050899)
[87] (WO2020/257946)
[30] US (62/867,788) 2019-06-27

[21] **3,145,330**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) H02J 3/00 (2006.01) H02J 7/02 (2016.01)**
[25] EN
[54] **ELECTRIC LOAD BALANCING DEVICE**
[54] **DISPOSITIF D'EQUILIBRAGE DE CHARGE ELECTRIQUE**
[72] CAIRNS, TANER-JAY, CA
[71] CAIRNS, TANER-JAY, CA
[85] 2021-12-24
[86] 2020-06-29 (PCT/CA2020/050907)
[87] (WO2020/257951)
[30] US (62/868,845) 2019-06-28

[21] **3,145,331**
[13] A1
[51] **Int.Cl. H01M 10/056 (2010.01) C08G 65/48 (2006.01)**
[25] EN
[54] **POLYACID-BASED ELECTROLYTE CONDUCTOR MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF**
[54] **MATERIAU CONDUCTEUR D'ELECTROLYTE A BASE DE POLYACIDE ET PROCEDE DE PREPARATION ET APPLICATION ASSOCIES**
[72] ZHENG, ZHAO, CN
[72] CAI, LINKUN, CN
[72] YIN, PANCHAO, CN
[71] SOUTH CHINA UNIVERSITY OF TECHNOLOGY, CN
[85] 2021-12-24
[86] 2019-10-18 (PCT/CN2019/112054)
[87] (WO2020/258605)
[30] CN (201910566176.6) 2019-06-27

[21] **3,145,332**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **SIDELINK DATA TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**
[54] **PROCEDE DE TRANSMISSION DE DONNEES DE LIAISON LATERALE, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] ZHAO, ZHENSHAN, CN
[72] LU, QIANXI, CN
[72] LIN, HUEI-MING, AU
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-12-24
[86] 2019-11-22 (PCT/CN2019/120399)
[87] (WO2021/008056)
[30] CN (PCT/CN2019/095684) 2019-07-12

[21] **3,145,333**
[13] A1
[51] **Int.Cl. F21S 9/02 (2006.01) F21S 10/04 (2006.01) F21V 14/00 (2018.01) F21V 23/00 (2015.01)**
[25] EN
[54] **LED CANDLE LIGHT**
[54] **LAMPE A BOUGIE A DEL**
[72] CHAN, CHIKO JECKLE, CA
[72] DELEO, JOE, AU
[72] YE, SHUAISI, CN
[71] AURORA INTERNATIONAL LIMITED, CN
[85] 2021-12-24
[86] 2020-03-11 (PCT/CN2020/078746)
[87] (WO2021/000596)
[30] CN (201921027974.3) 2019-07-03

[21] **3,145,334**
[13] A1
[51] **Int.Cl. A61L 9/01 (2006.01) A61Q 13/00 (2006.01) C11B 9/00 (2006.01)**
[25] FR
[54] **USE IN AN ELECTRIC PERFUME DIFFUSER OF AN AQUEOUS PERFUME COMPOSITION CONTAINING A SURFACTANT AND A PRESERVATIVE**
[54] **UTILISATION DANS UN DIFFUSEUR ELECTRIQUE DE PARFUM D'UNE COMPOSITION AQUEUSE DE PARFUM CONTENANT UN AGENT TENSIO-ACTIF ET UN AGENT CONSERVATEUR**
[72] HERAMBERT, CELINE, FR
[72] GERARD, CORINNE, FR
[71] PRODUITS BERGER, FR
[85] 2021-12-24
[86] 2020-06-30 (PCT/FR2020/051137)
[87] (WO2021/014063)
[30] FR (FR1908306) 2019-07-22

[21] **3,145,335**
[13] A1
[51] **Int.Cl. C23C 16/455 (2006.01) C23C 16/02 (2006.01) C23C 16/40 (2006.01) C23C 16/44 (2006.01) C23C 16/442 (2006.01) A61K 9/14 (2006.01) A61K 9/50 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **APPARATUS FOR FORMING A PLURALITY OF COATED PARTICLES, METHOD FOR FORMING A PLURALITY OF COATED PARTICLES, COATED PARTICLES**
[54] **APPAREIL DE FORMATION D'UNE PLURALITE DE PARTICULES REVETUES, PROCEDE DE FORMATION D'UNE PLURALITE DE PARTICULES REVETUES, PARTICULES REVETUES**
[72] JOHANSSON, ANDERS, SE
[72] ROOTH, MARTEN, SE
[72] HELLRUP, JOEL, SE
[71] NANEXA AB, SE
[85] 2021-12-24
[86] 2020-05-14 (PCT/GB2020/051177)
[87] (WO2020/260852)
[30] GB (1909314.5) 2019-06-28
[30] GB (1917727.8) 2019-12-04

[21] **3,145,336**
[13] A1
[51] **Int.Cl. G16B 5/00 (2019.01) G16B 15/00 (2019.01) A61K 39/00 (2006.01) C07K 14/135 (2006.01)**
[25] EN
[54] **IMMUNOGEN**
[54] **IMMUNOGENE**
[72] CORREIA, BRUNO, CH
[72] SESTERHENN, FABIAN, CH
[72] YANG, CHE, CH
[72] BONET, JAUME, CH
[71] ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL), CH
[85] 2021-12-24
[86] 2020-07-01 (PCT/GB2020/051581)
[87] (WO2020/260910)
[30] EP (19183026.4) 2019-06-27

[21] **3,145,337**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) A61F 13/42 (2006.01) A61F 13/44 (2006.01) C12M 1/34 (2006.01) C12Q 1/04 (2006.01) G01J 3/443 (2006.01) G01N 21/00 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTION OF BACTERIA IN FAECES**
[54] **PROCEDE DE DETECTION DE BACTERIES DANS DES MATIERES FECALES**
[72] VOJNOVIC, BORIVOJ, GB
[71] OXFORD OPTRONIX LTD, GB
[85] 2021-12-24
[86] 2020-07-06 (PCT/EP2020/069024)
[87] (WO2021/013523)
[30] GB (1910655.8) 2019-07-25

[21] **3,145,338**
[13] A1
[51] **Int.Cl. A61K 31/5383 (2006.01) A61K 31/542 (2006.01) A61P 25/00 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **NEW HETEROCYCLIC COMPOUNDS**
[54] **NOUVEAUX COMPOSES HETEROCYCLIQUES**
[72] KROLL, CARSTEN, CH
[72] REGGIANI, FLORE, CH
[72] KOSAR, MIROSLAV, CH
[72] BIEDERMANN, MAURICE, CH
[72] KUHN, BERND, CH
[72] HORNSPERGER, BENOIT, CH
[72] GRETHER, UWE, CH
[72] O`HARA, FIONN, CH
[72] RICHTER, HANS, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-24
[86] 2020-07-07 (PCT/EP2020/069074)
[87] (WO2021/005034)
[30] EP (19185088.2) 2019-07-09

[21] **3,145,340**
[13] A1
[51] **Int.Cl. A61K 38/08 (2019.01) C07K 7/08 (2006.01) C07K 14/81 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **COMPOUNDS COMPRISING A FIBROBLAST ACTIVATION PROTEIN LIGAND AND USE THEREOF**
[54] **COMPOSES COMPRENANT UN LIGAND PROTEIQUE D'ACTIVATION DES FIBROBLASTES ET LEUR UTILISATION**
[72] OSTERKAMP, FRANK, DE
[72] ZBORALSKI, DIRK, DE
[72] SCHNEIDER, EBERHARD, DE
[72] HAASE, CHRISTIAN, DE
[72] PASCHKE, MATTHIAS, DE
[72] HOHNE, AILEEN, DE
[72] UNGEWISS, JAN, DE
[72] SMERLING, CHRISTIANE, DE
[72] REINEKE, ULRICH, DE
[72] BREDENBECK, ANNE, DE
[71] 3B PHARMACEUTICALS GMBH, DE
[85] 2021-12-24
[86] 2020-07-08 (PCT/EP2020/069298)
[87] (WO2021/005125)
[30] EP (19000325.1) 2019-07-08
[30] EP (19198813.8) 2019-09-20

[21] **3,145,341**
[13] A1
[51] **Int.Cl. A01N 43/78 (2006.01) C07D 417/12 (2006.01)**
[25] EN
[54] **PESTICIDAL PYRAZOLE AND TRIAZOLE DERIVATIVES**
[54] **DERIVES PYRAZOLES ET TRIAZOLES ANTIPARASITAIRES**
[72] MAITY, PULAKESH, IN
[72] NARINE, ARUN, DE
[72] CHAUDHURI, RUPSHA, IN
[72] GARZA SANCHEZ, ROSARIO ALEYDA, DE
[72] SAMBASIVAN, SUNDERRAMAN, IN
[72] ADISECHAN, ASHOKKUMAR, IN
[72] SHAIKH, RIZWAN SHABBIR, IN
[71] BASF SE, DE
[85] 2021-12-24
[86] 2020-07-09 (PCT/EP2020/069378)
[87] (WO2021/013561)
[30] EP (19187200.1) 2019-07-19

[21] **3,145,342**
[13] A1
[51] **Int.Cl. G06F 30/13 (2020.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DISPLAYING ITEM INFORMATION IN CURRENT SPACE, AND MEDIUM**
[54] **PROCEDE ET APPAREIL D'AFFICHAGE D'INFORMATIONS D'ARTICLE DANS UN ESPACE ACTUEL, ET SUPPORT**
[72] YANG, BIN, CN
[72] YANG, LI, CN
[72] SU, CHONG, CN
[72] YIN, WEILAN, CN
[72] YANG, YUKE, CN
[72] XIN, CHENGCONG, CN
[72] HU, YILANG, CN
[72] ZHU, YI, CN
[72] WANG, YIDING, CN
[71] KE.COM (BEIJING) TECHNOLOGY CO., LTD., CN
[85] 2021-12-24
[86] 2020-06-28 (PCT/CN2020/098593)
[87] (WO2020/259694)
[30] CN (201910570131.6) 2019-06-27
[30] CN (201910570127.X) 2019-06-27

[21] **3,145,343**
[13] A1
[51] **Int.Cl. A61K 31/137 (2006.01) A61K 31/138 (2006.01) A61K 31/215 (2006.01) A61K 31/343 (2006.01) A61K 31/381 (2006.01) A61K 31/395 (2006.01) A61K 31/416 (2006.01) A61K 31/4406 (2006.01) A61K 31/445 (2006.01) A61K 31/4453 (2006.01) A61K 31/451 (2006.01) A61K 31/496 (2006.01) A61K 31/5415 (2006.01) A61K 31/55 (2006.01) A61P 25/28 (2006.01) A61P 31/00 (2006.01) A61P 43/00 (2006.01)**
[25] FR
[54] **NOVEL PFAR-INHIBITING COMPOUNDS**
[54] **NOUVEAUX COMPOSES INHIBITEURS DE LA PFAR**
[72] SIMONELIG, MARTINE, FR
[72] BIHEL, FREDERIC, FR
[72] VOISSET, CECILE, FR
[72] TROLLET, CAPUCINE, FR
[71] UNIVERSITE DE BRETAGNE OCCIDENTALE (UBO), FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR
[71] UNIVERSITE DE MONTPELLIER, FR
[71] UNIVERSITE DE STRASBOURG, FR
[71] CENTRE HOSPITALIER REGIONAL ET UNIVERSITAIRE DE BREST, FR
[71] SORBONNE UNIVERSITE, FR
[71] ETABLISSEMENT FRANCAIS DU SANG, FR
[71] ASSOCIATION INSTITUT DE MYOLOGIE, FR
[71] ASSOCIATION FRANCAISE CONTRE LES MYOPATHIES, FR
[85] 2021-12-24
[86] 2020-07-09 (PCT/EP2020/069466)
[87] (WO2021/005189)
[30] EP (19315064.6) 2019-07-09
[30] EP (19201179.9) 2019-10-02

[21] **3,145,344**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PYRAZOLOPYRIMIDINE COMPOUND, PREPARATION METHOD FOR SAME AND APPLICATIONS THEREOF**
[54] **COMPOSE DE PYRAZOLOPYRIMIDINE, SON PROCEDE DE PREPARATION ET SES APPLICATIONS**
[72] WANG, QIAN, CN
[72] SHU, SIJIE, CN
[72] XIA, GUANGXIN, CN
[72] GE, HUI, CN
[72] ZHANG, BINGBIN, CN
[72] HUO, GUOYONG, CN
[72] ZHANG, LIN, CN
[72] SHI, CHEN, CN
[72] LOU, JIANGSONG, CN
[72] ZHANG, CHI, CN
[72] ZHANG, ZHIHUI, CN
[72] MAO, YU, CN
[72] YU, JIANXIN, CN
[72] KE, YING, CN
[72] LIU, YANJUN, CN
[71] SHANGHAI PHARMACEUTICALS HOLDING CO., LTD., CN
[85] 2021-12-24
[86] 2020-06-28 (PCT/CN2020/098611)
[87] (WO2020/259703)
[30] CN (201910579671.0) 2019-06-28

[21] **3,145,345**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/705 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **CANINIZED ANTIBODIES AGAINST CANINE CTLA-4**
[54] **ANTICORPS CANINISES CONTRE LE CTLA-4 CANIN**
[72] MORSEY, MOHAMAD, US
[72] ZHANG, YUANZHENG, US
[72] TARPEY, IAN, GB
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2021-12-24
[86] 2020-07-15 (PCT/EP2020/069923)
[87] (WO2021/009187)
[30] US (62/874287) 2019-07-15
[30] US (62/926047) 2019-10-25
[30] US (63/048873) 2020-07-07

[21] **3,145,348**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **PYRAZOLONE AND PYRIMIDINE COMPOUND, AND PREPARATION METHOD AND USE THEREFOR**
[54] **COMPOSE DE PYRAZOLONE ET DE PYRIMIDINE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WANG, QIAN, CN
[72] HUO, GUOYONG, CN
[72] XIA, GUANGXIN, CN
[72] LOU, JIANGSONG, CN
[72] SHU, SIJIE, CN
[72] GE, HUI, CN
[72] ZHANG, LIN, CN
[72] SHI, CHEN, CN
[72] ZHANG, ZHIHUI, CN
[72] MAO, YU, CN
[72] ZHANG, BINGBIN, CN
[72] YU, JIANXIN, CN
[72] LIU, YANJUN, CN
[72] ZHANG, CHI, CN
[72] KE, YING, CN
[71] SHANGHAI PHARMACEUTICALS HOLDING CO., LTD., CN
[85] 2021-12-24
[86] 2020-08-28 (PCT/CN2020/112034)
[87] (WO2020/259724)
[30] CN (201910578299.1) 2019-06-28

[21] **3,145,349**
[13] A1
[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/00 (2006.01) F16L 15/06 (2006.01)**
[25] EN
[54] **THREADED CONNECTION HAVING A DISSYMMETRICAL HELICAL PROFILE**
[54] **RACCORD FILETE AYANT UN PROFIL HELICOIDAL DISSYMETRIQUE**
[72] FOULOGNE, ANTHONY, FR
[72] MARTIN, PIERRE, FR
[71] VALLOUREC OIL AND GAS FRANCE, FR
[71] NIPPON STEEL CORPORATION, JP
[85] 2021-12-24
[86] 2020-07-15 (PCT/EP2020/069948)
[87] (WO2021/013645)
[30] FR (FR1908204) 2019-07-19

[21] **3,145,350**
[13] A1
[51] **Int.Cl. A61K 31/57 (2006.01) A61K 39/395 (2006.01) A61P 31/00 (2006.01) A61P 31/06 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **APPLICATION OF PROGESTIN IN PREPARATION OF DRUG INHIBITING CYTOKINE STORM**
[54] **APPLICATION DE PROGESTINE DANS LA PREPARATION D'UN MEDICAMENT INHIBANT LE CHOC CYTOKINIQUE**
[72] DU, TAO TOM, CN
[72] DU, XIN, CN
[71] SHENZHEN EVERGREEN THERAPEUTICS CO., LTD., CN
[85] 2021-12-24
[86] 2021-03-25 (PCT/CN2021/082899)
[87] (WO2021/218506)
[30] CN (202010350632.6) 2020-04-28

[21] **3,145,351**
[13] A1
[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/00 (2006.01) F16L 15/06 (2006.01)**
[25] EN
[54] **THREADED CONNECTION FOR CASING STRING OF AN OIL WELL**
[54] **RACCORD FILETE POUR COLONNE DE TUBAGE D'UN PUITS DE PETROLE**
[72] FOULOGNE, ANTHONY, FR
[72] MARTIN, PIERRE, FR
[72] ABDEDDAIM, MALIC, FR
[72] PUSARD, MICKAEL, FR
[71] VALLOUREC OIL AND GAS FRANCE, FR
[71] NIPPON STEEL CORPORATION, JP
[85] 2021-12-24
[86] 2020-07-15 (PCT/EP2020/069949)
[87] (WO2021/013646)
[30] FR (FR1908203) 2019-07-19

[21] **3,145,353**
[13] A1
[51] **Int.Cl. A23G 1/32 (2006.01) A23G 1/48 (2006.01)**
[25] EN
[54] **PRODUCT CONTAINING COCOA AND ONE OR MORE SWEETENING AGENTS, METHOD FOR THE PRODUCTION OF SUCH PRODUCTS, IN PARTICULAR CHOCOLATE PRODUCTS OR CHOCOLATE-LIKE PRODUCTS, USE OF PRODUCTS OF SAID TYPE, FOR EXAMPLE TO MAKE CHOCOLATE PRODUCTS OR CHOCOLATE-LIKE PRODUCTS**
[54] **PRODUIT CONTENANT DU CACAO ET UNE OU PLUSIEURS SUBSTANCES EDULCORANTES, PROCEDE DE FABRICATION DE PRODUITS DE CE TYPE, EN PARTICULIER DE PRODUITS A BASE DE CHOCOLAT OU PRODUITS DE TYPE CHOCOLAT, UTILISATION D'UN PRODUIT DE CE TYPE, PAR EXEMPLE POUR FABRIQUER DES PRODUITS A BASE DE CHOCOLAT OU DES PRODUITS DE TYPE CHOCOLAT**
[72] KRAHENMANN, URSINA, CH
[72] WINDHAB, ERICH, CH
[71] KOA SWITZERLAND GMBH, CH
[71] ETH ZURICH, CH
[85] 2021-12-24
[86] 2020-06-05 (PCT/EP2020/000110)
[87] (WO2020/259864)
[30] DE (102019004355.3) 2019-06-24

[21] **3,145,354**
[13] A1
[51] **Int.Cl. B01D 15/04 (2006.01) B01J 20/18 (2006.01) B01J 20/28 (2006.01) B01J 39/14 (2006.01) C02F 1/28 (2006.01) C02F 1/42 (2006.01) C01B 39/00 (2006.01)**
[25] EN
[54] **MODIFIED ZEOLITE FOR HEAVY METAL REMOVAL**
[54] **ZEOLITE MODIFIEE POUR ELIMINATION DE METAUX LOURDS**
[72] KELLER, TOBIAS, CH
[72] RENTSCH, SAMUEL, CH
[71] OMYA INTERNATIONAL AG, CH
[85] 2021-12-24
[86] 2020-08-18 (PCT/EP2020/073128)
[87] (WO2021/032754)
[30] EP (19193114.6) 2019-08-22

[21] **3,145,355**
[13] A1
[51] **Int.Cl. E04H 15/62 (2006.01) F16B 37/04 (2006.01)**
[25] EN
[54] **A RELEASABLE FASTENING DEVICE**
[54] **DISPOSITIF DE FIXATION LIBERABLE**
[72] NORMANN SEKKESATER, KARE, NO
[72] ROSSING, INGER HELENE, NO
[72] PAVELS PETTERSEN, ERIK, NO
[71] BAG'IN AS, NO
[85] 2021-12-23
[86] 2020-06-26 (PCT/NO2020/050183)
[87] (WO2020/263107)
[30] NO (20190803) 2019-06-27

[21] **3,145,358**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01) A01B 35/28 (2006.01)**
[25] EN
[54] **FURROW OPENER, ROW UNIT, AGRICULTURAL IMPLEMENT AND METHOD OF OPERATING A FURROW OPENER**
[54] **DISPOSITIF D'OUVERTURE DE SILLON, UNITE DE RANGEE, OUTIL AGRICOLE ET PROCEDE DE FONCTIONNEMENT D'UN DISPOSITIF D'OUVERTURE DE SILLON**
[72] COLLIN, MORGAN, SE
[71] VADERSTAD HOLDING AB, SE
[85] 2021-12-23
[86] 2020-07-02 (PCT/SE2020/050700)
[87] (WO2021/002798)
[30] SE (1950842-3) 2019-07-04
[30] SE (2050538-4) 2020-05-08

[21] **3,145,360**
[13] A1
[51] **Int.Cl. A61K 31/551 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR USE IN THE PROPHYLACTIC AND/OR THERAPEUTIC TREATMENT OF L-DOPA-INDUCED DYSKINESIA**
[54] **COMPOSITION PHARMACEUTIQUE DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT PROPHYLACTIQUE ET/OU THERAPEUTIQUE DE DYSKINESIES INDUITES PAR LA L-DOPA**
[72] MUNOZ PATINO, ANA M., ES
[72] LABANDEIRA GARCIA, JOSE LUIS, ES
[72] LOPEZ LOPEZ, ANDREA, ES
[71] UNIVERSIDADE DE SANTIAGO DE COMPOSTELA, ES
[85] 2021-12-24
[86] 2020-07-24 (PCT/ES2020/070482)
[87] (WO2021/019116)
[30] ES (P201930713) 2019-07-31

[21] **3,145,362**
[13] A1
[51] **Int.Cl. E02D 3/115 (2006.01) E02D 5/28 (2006.01) E02D 7/26 (2006.01) E02D 7/28 (2006.01) E02D 15/08 (2006.01) E02D 27/52 (2006.01)**
[25] EN
[54] **PILE AND METHOD FOR INSTALLING A PILE**
[54] **PILE ET PROCEDE D'INSTALLATION DE PILE**
[72] TRASKELIN, OLAVI, FI
[72] AJOSMAKI, ANTTI, FI
[72] OJA, SAKARI, FI
[71] ELOMATIC OY, FI
[85] 2021-12-24
[86] 2020-07-22 (PCT/FI2020/050500)
[87] (WO2021/014052)
[30] FI (20195650) 2019-07-24

[21] **3,145,363**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 39/21 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 14/15 (2006.01)**
[25] EN
[54] **MAMMARY TUMOR VIRUS VACCINE**
[54] **VACCIN CONTRE LE VIRUS DE LA TUMEUR MAMMAIRE**
[72] BARTSICH, SOPHIE, US
[71] VIRAGO VAX INC., US
[85] 2021-12-23
[86] 2019-07-02 (PCT/US2019/040361)
[87] (WO2021/002855)

[21] **3,145,364**
[13] A1
[51] **Int.Cl. G01N 1/38 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **DIFFERENTIAL DISPENSING METHOD**
[54] **PROCEDE DE DISTRIBUTION DIFFERENTIELLE**
[72] BASTON, FLORENT, FR
[72] LEVEAU, MAXIME, FR
[71] BIT GROUP FRANCE, FR
[85] 2021-12-24
[86] 2019-07-26 (PCT/IB2019/000795)
[87] (WO2021/019267)

[21] **3,145,366**
[13] A1
[51] **Int.Cl. F03D 1/06 (2006.01) F03D 13/10 (2016.01) F03D 80/50 (2016.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SERVICING A JOINTED ROTOR BLADE OF A WIND TURBINE**
[54] **SYSTEME ET PROCEDE D'INTERVENTION SUR UNE PALE DE ROTOR SEGMENTEE D'EOLIENNE**
[72] YARBROUGH, AARON ALPHEUS, US
[72] HUTH, SCOTT JACOB, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2021-12-23
[86] 2019-07-31 (PCT/US2019/044366)
[87] (WO2021/021160)

[21] **3,145,367**
[13] A1
[51] **Int.Cl. B05B 16/00 (2018.01) B05B 13/02 (2006.01) B28B 11/04 (2006.01) B28D 1/00 (2006.01) B65G 57/30 (2006.01) B65G 59/06 (2006.01) C04B 41/45 (2006.01)**
[25] EN
[54] **MACHINE FOR THE SURFACE PROCESSING OF PRODUCTS**
[54] **MACHINE DESTINEE AU TRAITEMENT DE SURFACE DE PRODUITS**
[72] NOE', ALESSIO, IT
[71] ASTRO S.R.L., IT
[85] 2021-12-24
[86] 2020-06-25 (PCT/IB2020/056016)
[87] (WO2020/261172)
[30] IT (102019000010422) 2019-06-28

[21] **3,145,368**
[13] A1
[51] **Int.Cl. C08L 23/06 (2006.01) C08J 3/24 (2006.01) C08K 5/3492 (2006.01)**
[25] EN
[54] **PIPE MADE OF PEROXIDE-CROSSLINKED POLYETHYLENE OF HIGH UV STABILITY**
[54] **TUYAU EN POLYETHYLENE RETICULE AU PEROXYDE A HAUTE STABILITE AUX UV**
[72] RUEMER, FRANZ, AT
[72] GARD, REINHOLD, SE
[72] DRECKOETTER, STEFAN, DE
[71] BOREALIS AG, AT
[85] 2021-12-24
[86] 2020-06-16 (PCT/EP2020/066582)
[87] (WO2021/001143)
[30] EP (19183634.5) 2019-07-01

[21] **3,145,370**
[13] A1
[51] **Int.Cl. G06T 7/11 (2017.01) G16H 30/40 (2018.01) G16H 50/20 (2018.01) G06V 10/764 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MESOTHELIOMA FEATURE DETECTION AND ENHANCED PROGNOSIS OR RESPONSE TO TREATMENT**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE CARACTERISTIQUES DE MESOTHELIOME ET PRONOSTIC OU REPONSE AMELIORE(E) A UN TRAITEMENT**
[72] WAINRIB, GILLES, FR
[72] CLOZEL, THOMAS, US
[72] COURTIOL, PIERRE, FR
[72] MAUSSION, CHARLES, FR
[72] BLAY, JEAN-YVES, FR
[72] GALATEAU SALLE, FRANCOISE, FR
[71] OWKIN INC., US
[71] OWKIN FRANCE SAS, FR
[71] CENTRE LEON BERARD, FR
[85] 2021-12-24
[86] 2020-06-25 (PCT/IB2020/056030)
[87] (WO2020/261179)
[30] EP (19305839.3) 2019-06-25

[21] **3,145,371**
[13] A1
[51] **Int.Cl. G06V 10/764 (2022.01) G06T 7/11 (2017.01) G06V 10/20 (2022.01) G06V 10/40 (2022.01) G06V 10/82 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMAGE PREPROCESSING**
[54] **SYSTEMES ET PROCEDES DE PRETRAITEMENT D'IMAGE**
[72] WAINRIB, GILLES, FR
[72] COURTIOL, PIERRE, FR
[72] MOINDROT, OLIVIER, FR
[72] SAILLARD, CHARLIE, FR
[72] MAUSSION, CHARLES, FR
[72] SCHMAUCH, BENOIT, FR
[71] OWKIN INC., US
[71] OWKIN FRANCE SAS, FR
[85] 2021-12-24
[86] 2020-06-25 (PCT/IB2020/056037)
[87] (WO2020/261183)
[30] EP (19305840.1) 2019-06-25

[21] **3,145,372**
[13] A1
[51] **Int.Cl. A61K 31/717 (2006.01) A61K 35/10 (2015.01) A61P 1/00 (2006.01)**
[25] EN
[54] **DECONSTRUCTED SOIL**
[54] **TERRAIN DECONSTRUIT**
[72] RAA, JAN, NO
[72] TROSVIK, PAL, NO
[72] DE MUINCK, ERIC, NO
[71] EDERAGEN AS, NO
[85] 2021-12-24
[86] 2020-06-25 (PCT/EP2020/067901)
[87] (WO2020/260498)
[30] NO (20190820) 2019-06-28

[21] **3,145,374**
[13] A1
[51] **Int.Cl. C08L 27/06 (2006.01) C08J 3/18 (2006.01) F16L 11/04 (2006.01)**
[25] EN
[54] **PLASTICIZED PVC HOSE AND METHOD FOR MANUFACTURING THEREOF**
[54] **TUYAU PVC PLASTIFIE ET SON PROCEDE DE FABRICATION**
[72] BATTAGLIA, LUCA, IT
[71] FITT S.P.A., IT
[85] 2021-12-24
[86] 2020-07-14 (PCT/IB2020/056592)
[87] (WO2021/014270)
[30] IT (102019000012819) 2019-07-24

[21] **3,145,375**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **DETERMINING INDIVIDUAL HLA PATTERNS, USE AS PROGNOSTICATORS, TARGET GENES AND THERAPEUTIC AGENTS**
[54] **DETERMINATION DE MOTIFS DE HLA INDIVIDUELS, UTILISATION EN TANT QU'OUTILS PRONOSTIQUES, GENES CIBLES ET AGENTS THERAPEUTIQUES**
[72] WURFEL, WOLFGANG, DE
[72] WIRTZ, RALPH M., DE
[72] WINTERHALTER, CHRISTOPH, DE
[71] INTELLEXON GMBH, DE
[85] 2021-12-24
[86] 2020-07-03 (PCT/EP2020/068814)
[87] (WO2021/004934)
[30] DE (10 2019 004 747.8) 2019-07-05

[21] **3,145,376**
[13] A1
[51] **Int.Cl. A01N 63/30 (2020.01) A01P 3/00 (2006.01)**
[25] EN
[54] **PLANT DISEASE CONTROL AGENT AND PLANT DISEASE CONTROL METHOD**
[54] **AGENT DE LUTTE CONTRE LES MALADIES DES PLANTES ET PROCEDE DE LUTTE CONTRE LES MALADIES DES PLANTES**
[72] TSUKAGOSHI, YUKI, JP
[71] IDEMITSU KOSAN CO., LTD., JP
[85] 2021-12-24
[86] 2020-06-26 (PCT/JP2020/025223)
[87] (WO2020/262612)
[30] JP (2019-120198) 2019-06-27
[30] JP (2020-003941) 2020-01-14

[21] **3,145,378**
[13] A1
[51] **Int.Cl. A01N 25/00 (2006.01) A01N 37/06 (2006.01) A01N 37/36 (2006.01) A01N 41/02 (2006.01) A01N 41/04 (2006.01) A01N 43/08 (2006.01) A01N 43/10 (2006.01) A01N 43/20 (2006.01) A01N 43/36 (2006.01) A01N 43/40 (2006.01) A01N 43/60 (2006.01) A01N 43/78 (2006.01) A01N 43/80 (2006.01) A01N 47/06 (2006.01) A01N 47/12 (2006.01) A01N 47/16 (2006.01) A01N 47/22 (2006.01) A01N 47/24 (2006.01) A01N 55/10 (2006.01) A01P 3/00 (2006.01) A01P 7/00 (2006.01) A01P 13/00 (2006.01) A01P 17/00 (2006.01) C07C 69/712 (2006.01) C07C 69/734 (2006.01) C07C 69/736 (2006.01) C07C 69/75 (2006.01) C07C 69/78 (2006.01) C07C 69/96 (2006.01) C07C 251/40 (2006.01) C07C 251/50 (2006.01) C07C 255/13 (2006.01) C07C 255/54 (2006.01) C07C 271/44 (2006.01) C07C 271/56 (2006.01) C07C 271/58 (2006.01) C07C 307/02 (2006.01) C07C 309/65 (2006.01) C07C 309/73 (2006.01) C07C 333/04 (2006.01) C07C 381/00 (2006.01) C07D 207/08 (2006.01) C07D 213/30 (2006.01) C07D 213/61 (2006.01) C07D 213/78 (2006.01) C07D 241/16 (2006.01) C07D 261/18 (2006.01) C07D 277/24 (2006.01) C07D 295/088 (2006.01) C07D 295/205 (2006.01) C07D 303/23 (2006.01) C07D 303/24 (2006.01) C07D 307/12 (2006.01) C07D 333/16 (2006.01) C07F 7/08 (2006.01)**
[25] EN
[54] **ACRYLATE DERIVATIVE, USE AND PRODUCTION INTERMEDIATE COMPOUND OF**

THE SAME
[54] **DERIVE D'ESTER (METH)ACRYLIQUE, ET APPLICATION ET INTERMEDIAIRE DE PRODUCTION DE CELUI-CI**
[72] TAMASHIMA, HIROTO, JP
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2021-12-24
[86] 2020-06-26 (PCT/JP2020/025341)
[87] (WO2020/262648)
[30] JP (2019-120901) 2019-06-28
[30] JP (2020-015184) 2020-01-31

---

[21] **3,145,379**
[13] A1
[51] **Int.Cl. A23L 33/105 (2016.01) A61K 31/122 (2006.01) A61K 36/9066 (2006.01) A61P 9/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR INHIBITING TNF-A OR IL-6 PRODUCTION**
[54] **COMPOSITION PERMETTANT D'INHIBER LA PRODUCTION DE TNF-A OU D'IL-6**
[72] UCHIO, RYUSEI, JP
[72] MUROYAMA, KOUTAROU, JP
[72] KAWASAKI, KENGO, JP
[72] MUROSAKI, SHINJI, JP
[71] HOUSE WELLNESS FOODS CORPORATION, JP
[85] 2021-12-24
[86] 2020-06-29 (PCT/JP2020/025570)
[87] (WO2021/002334)
[30] JP (2019-122941) 2019-07-01

---

[21] **3,145,381**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **VETERINARY SERVICES SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE SERVICES VETERINAIRES**
[72] HORBAL, APRYLE, US
[72] KELLY, EVAN, US
[72] CARRAWAY, TYLER, US
[72] FARQUHAR, DANIEL, US
[71] VETNOW, LLC, US
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/040201)
[87] (WO2020/264533)
[30] US (62/868,481) 2019-06-28

---

[21] **3,145,382**
[13] A1
[51] **Int.Cl. A23L 33/18 (2016.01) A61K 9/70 (2006.01) A61K 38/00 (2006.01) A61P 37/08 (2006.01) C07K 14/735 (2006.01)**
[25] EN
[54] **POLYPEPTIDE DIMER WITH HIGH SIALIC ACID CONTENT, COMPRISING EXTRACELLULAR DOMAIN OF ALPHA SUBUNIT OF IGE FC RECEPTOR, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME**
[54] **DIMERE POLYPEPTIDIQUE A HAUTE TENEUR EN ACIDE SIALIQUE, COMPRENANT UN DOMAINE EXTRACELLULAIRE DE SOUS-UNITE ALPHA DU RECEPTEUR FC D'IGE, ET COMPOSITION PHARMACEUTIQUE LE COMPRENANT**
[72] JANG, MYOUNG HO, KR
[72] YANG, BO-GIE, KR
[72] LEE, KYUNGWHA, KR
[71] GI INNOVATION, INC., KR
[85] 2021-12-24
[86] 2020-07-07 (PCT/KR2020/008855)
[87] (WO2021/006599)
[30] KR (10-2019-0082217) 2019-07-08

---

[21] **3,145,383**
[13] A1
[51] **Int.Cl. B62D 21/15 (2006.01) B60R 19/32 (2006.01) B60R 19/36 (2006.01) B60R 19/40 (2006.01) E01F 15/14 (2006.01)**
[25] EN
[54] **IMPACT FEATURES**
[54] **CARACTERISTIQUES DE CHOC**
[72] CHARBONNEAU, ALEXI, US
[72] LYU, NAESUNG, US
[72] CHINCHANI, MAHESH SURESH, US
[72] KHAN, SALMAN, US
[72] LONG, YUFENG, US
[72] KIANI, MORTEZA, US
[72] MCCARRON, DANIEL GEORGE, US
[72] ROHR, WILLIAM J., US
[72] RANADE, ANIRUDDHA, US
[71] CANOO TECHNOLOGIES INC., US
[85] 2021-12-24
[86] 2020-07-02 (PCT/US2020/040788)
[87] (WO2021/167645)
[30] US (62/869,823) 2019-07-02

---

[21] **3,145,384**
[13] A1
[51] **Int.Cl. A23L 33/105 (2016.01) A61K 31/353 (2006.01) A61P 1/16 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **HEPATIC FIBROSIS-INHIBITING AGENT AND BROWN FAT CELL-ACTIVATING AGENT CONTAINING TAXIFOLIN**
[54] **AGENT INHIBITEUR DE FIBROSE HEPATIQUE ET AGENT ACTIVATEUR DE CELLULES ADIPEUSES BRUNES CONTENANT DE LA TAXIFOLINE**
[72] ASAHARA, NORIKO, JP
[72] INOUE, TAKAYUKI, JP
[72] TANAKA, MASASHI, JP
[72] IHARA, MASAFUMI, JP
[72] SAITO, SATOSHI, JP
[71] FOUNDATION FOR BIOMEDICAL RESEARCH AND INNOVATION AT KOBE, JP
[71] NATIONAL HOSPITAL ORGANIZATION, JP
[71] NATIONAL CEREBRAL AND CARDIOVASCULAR CENTER, JP
[71] ADVANCED INNOVATION DEVELOPMENT CO. LTD., JP
[85] 2021-12-24
[86] 2020-06-24 (PCT/JP2020/025740)
[87] (WO2020/262703)
[30] JP (2019-117229) 2019-06-25

---

[21] **3,145,385**
[13] A1
[51] **Int.Cl. C07K 16/12 (2006.01) C07K 14/195 (2006.01)**
[25] EN
[54] **ANTIBODY COMPOSITIONS FOR DISRUPTING BIOFILMS**
[54] **COMPOSITIONS D'ANTICORPS POUR DETRUIRE DES BIOFILMS**
[72] GOODMAN, STEVEN D., US
[72] BAKALETZ, LAUREN O., US
[71] RESEARCH INSTITUTE OF NATIONWIDE CHILDREN'S HOSPITAL, US
[85] 2021-12-24
[86] 2020-07-07 (PCT/US2020/041082)
[87] (WO2021/007260)
[30] US (63/033,109) 2020-06-01
[30] US (62/871,457) 2019-07-08

[21] **3,145,386**
[13] A1
[51] **Int.Cl. H01J 3/02 (2006.01) H01J 37/073 (2006.01) H01J 37/26 (2006.01)**
[25] FR
[54] **PULSED GENERATOR OF ELECTRICALLY CHARGED PARTICLES AND METHOD OF USE OF A PULSED GENERATOR OF ELECTRICALLY CHARGED PARTICLES**
[54] **GENERATEUR PULSE DE PARTICULES CHARGEES ELECTRIQUEMENT ET PROCEDE D'UTILISATION D'UN GENERATEUR PULSE DE PARTICULES CHARGEES ELECTRIQUEMENT**
[72] GELEOC, MARIE, FR
[72] RENAULT, JEAN-PHILIPPE, FR
[72] OKSENHENDLER, THOMAS, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2021-12-24
[86] 2020-06-30 (PCT/EP2020/068427)
[87] (WO2021/001383)
[30] FR (FR1907324) 2019-07-02

[21] **3,145,388**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61K 9/70 (2006.01)**
[25] EN
[54] **NON-SEDATING DEXMEDETOMIDINE TREATMENT REGIMENS**
[54] **REGIMES DE TRAITEMENT NON SEDATIFS A BASE DE DEXMEDETOMIDINE**
[72] KAKUMANU, VASUKUMAR, US
[72] HANLEY, DAVID CHRISTIAN, US
[72] YOCCA, FRANK, US
[72] LATHIA, CHETAN DALPATBHAI, US
[72] BARNHART, SCOTT DAVID, US
[72] RAJACHANDRAN, LAVANYA, US
[72] RISINGER, ROBERT, US
[71] BIOXCEL THERAPEUTICS, INC., US
[71] ARX, LLC, US
[85] 2021-12-24
[86] 2020-07-17 (PCT/US2020/042618)
[87] (WO2021/016112)
[30] US (62/876,371) 2019-07-19
[30] US (62/877,056) 2019-07-22
[30] US (62/943,022) 2019-12-03
[30] US (62/963,769) 2020-01-21
[30] US (62/970,411) 2020-02-05
[30] US (62/977,554) 2020-02-17
[30] US (63/037,759) 2020-06-11

[21] **3,145,389**
[13] A1
[51] **Int.Cl. H04N 19/109 (2014.01) H04N 19/122 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01) H04N 19/44 (2014.01) H04N 19/503 (2014.01)**
[25] EN
[54] **IMAGE ENCODING/DECODING METHOD, APPARATUS AND METHOD FOR TRANSMITTING BITSTREAM USING MAXIMUM SIZE LIMITATION OF CHROMA TRANSFORM BLOCK**
[54] **PROCEDE ET APPAREIL POUR CODER/DECODER UNE VIDEO EN UTILISANT UNE LIMITATION DE TAILLE MAXIMALE DE BLOC DE TRANSFORMEE DE SATURATION, ET PROCEDE DE TRANSMISSION DE FLUX BINAIRE**
[72] LI, LING, KR
[72] NAM, JUNG HAK, KR
[71] LG ELECTRONICS INC., KR
[85] 2021-12-24
[86] 2020-06-24 (PCT/KR2020/008233)
[87] (WO2020/262962)
[30] US (62/865,951) 2019-06-24

[21] **3,145,390**
[13] A1
[51] **Int.Cl. A01G 7/04 (2006.01) H05B 47/105 (2020.01)**
[25] EN
[54] **TEMPORAL, IRRADIANCE-CONTROLLED PHOTOACCLIMATION**
[54] **PHOTOACCLIMATATION TEMPORELLE COMMANDEE PAR ECLAIREMENT ENERGETIQUE**
[72] GRAVES, STEVEN, US
[72] HOVAGIM, GREGORY, US
[72] HIGGINBOTHAM, M. TRAVIS, US
[71] FLUENCE BIOENGINEERING, INC., US
[85] 2021-12-24
[86] 2020-06-03 (PCT/US2020/035999)
[87] (WO2020/263521)
[30] US (16/454,409) 2019-06-27
[30] US (16/751,930) 2020-01-24

[21] **3,145,391**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR TREATING ACUTE MYELOID LEUKEMIA, CONTAINING FLT3 INHIBITOR AND CHEMOTHERAPEUTIC AGENTS**
[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT DE LA LEUCEMIE MYELOIDE AIGUE CONTENANT UN INHIBITEUR DE FLT3 ET DES AGENTS DE CHIMIOTHERAPIE**
[72] BAE, IN HWAN, KR
[72] SONG, JI YOUNG, KR
[72] CHOI, JAE YUL, KR
[72] AHN, YOUNG GIL, KR
[71] HANMI PHARM. CO., LTD., KR
[85] 2021-12-24
[86] 2020-06-25 (PCT/KR2020/008258)
[87] (WO2020/262974)
[30] KR (10-2019-0077302) 2019-06-27

[21] **3,145,392**
[13] A1
[51] **Int.Cl. F01D 15/10 (2006.01) F03B 17/00 (2006.01) F03G 7/10 (2006.01)**
[25] EN
[54] **ENERGY CONVERSION APPARATUS**
[54] **APPAREIL DE CONVERSION D'ENERGIE**
[72] KIM, BYEONGSIK, KR
[71] KIM, BYEONGSIK, KR
[85] 2021-12-24
[86] 2020-06-25 (PCT/KR2020/008263)
[87] (WO2020/262975)
[30] KR (10-2019-0077110) 2019-06-27

[21] **3,145,394**
[13] A1
[51] **Int.Cl. C07C 237/06 (2006.01) A61K 31/165 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **A NOVEL AMINOALKANOIC ACID DERIVATIVE CONTAINING A BIPHENYL GROUP AND AN ANTIFUNGAL PHARMACEUTICAL COMPOSITION COMPRISING THE SAME**
[54] **COMPOSE DERIVE INTRODUISANT UN GROUPE BIPHENYLE DANS UN NOUVEL ACIDE AMINOALCANOIQUE ET COMPOSITION PHARMACEUTIQUE ANTIFONGIQUE LE COMPRENANT**
[72] PARK, KI DUK, KR
[72] PARK, JONG HYUN, KR
[72] KIM, HYEON JI, KR
[72] LEE, YE RIM, KR
[72] KIM, SIWON, KR
[72] CHOI, JI WON, KR
[72] YEON, SEUL KI, KR
[72] LEE, JONG-SEUNG, KR
[72] BAHN, YONG-SUN, KR
[72] CHEONG, EUNJI, KR
[72] LEE, KYUNG-TAE, KR
[72] HONG, JOOHYEON, KR
[71] AMTIXBIO CO., LTD., KR
[85] 2021-12-24
[86] 2020-06-25 (PCT/KR2020/008306)
[87] (WO2020/262996)
[30] KR (10-2019-0075893) 2019-06-25

[21] **3,145,395**
[13] A1
[51] **Int.Cl. A61J 1/05 (2006.01) A61J 1/10 (2006.01) A61J 15/00 (2006.01)**
[25] EN
[54] **FEEDING SET AND ENTERAL FEEDING PUMP ASSEMBLY**
[54] **ENSEMBLE D'ALIMENTATION ET ENSEMBLE POMPE D'ALIMENTATION ENTERALE**
[72] BAUER, LISA, US
[72] KOMANDT, DOUGLAS, US
[72] URIDIL, MORGAN, US
[72] STEVENS, LUKE, US
[72] TURTURRO, MICHAEL, US
[72] LOWKIS, PAULINA, US
[71] MEDLINE INDUSTRIES, LP, US
[85] 2021-12-24
[86] 2020-06-04 (PCT/US2020/036099)
[87] (WO2021/002997)
[30] US (16/458,900) 2019-07-01

[21] **3,145,396**
[13] A1
[51] **Int.Cl. G05B 15/02 (2006.01) A45C 11/20 (2006.01) F25B 29/00 (2006.01) G05B 1/02 (2006.01)**
[25] EN
[54] **A MODULAR LUNCH BOX**
[54] **BOITE A DEJEUNER MODULAIRE**
[72] PATEL, MONDISHKUMAR DINESHKUMAR, KE
[72] AKSHAY, ., IN
[72] ROKDE, PRAYAS, IN
[72] MUKESHBHAI, DARJI BHAVARTH, IN
[72] BHANDARI, SAUMIL, IN
[72] SUDHIR, SANANDAN, IN
[71] PATEL, MONDISHKUMAR DINESHKUMAR, KE
[71] AKSHAY, ., IN
[85] 2021-12-26
[86] 2020-03-18 (PCT/IB2020/052457)
[87] (WO2020/260961)
[30] IN (201911025735) 2019-06-27

[21] **3,145,397**
[13] A1
[51] **Int.Cl. A61P 25/28 (2006.01) C07K 14/475 (2006.01) C12N 5/00 (2006.01) C12N 9/22 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR TREATING HUNTINGTON'S DISEASE**
[54] **PROCEDES ET MATERIAUX POUR LE TRAITEMENT DE LA MALADIE DE HUNTINGTON**
[72] CHEN, GONG, US
[72] WU, ZHENG, US
[72] GUO, ZIYUAN, US
[72] CHEN, YUCHEN, US
[72] PEI, ZIFEI, US
[71] THE PENN STATE RESEARCH FOUNDATION, US
[85] 2021-12-24
[86] 2020-06-17 (PCT/US2020/038050)
[87] (WO2020/263639)
[30] US (62/868,499) 2019-06-28

[21] **3,145,398**
[13] A1
[51] **Int.Cl. H04W 74/08 (2009.01)**
[25] EN
[54] **BEAM FAILURE RECOVERY FOR SECONDARY CELL**
[54] **REPRISE SUR DEFAILLANCE DE FAISCEAU POUR CELLULE SECONDAIRE**
[72] DONG, FEI, CN
[72] HUANG, HE, CN
[72] SHI, XIAOJUAN, CN
[72] GAO, BO, CN
[71] ZTE CORPORATION, CN
[85] 2021-12-28
[86] 2019-06-28 (PCT/CN2019/093811)
[87] (WO2020/258279)

[21] **3,145,399**
[13] A1
[51] **Int.Cl. C12Q 1/06 (2006.01) A61K 35/741 (2015.01) A23K 10/18 (2016.01) A23K 50/60 (2016.01) A01K 67/02 (2006.01) A01K 67/027 (2006.01) A61K 35/74 (2015.01)**
[25] EN
[54] **BACTERIAL POPULATIONS FOR DESIRABLE TRAITS IN RUMINATING ANIMALS**
[54] **POPULATIONS BACTERIENNES POUR DES CARACTERISTIQUES SOUHAITABLES CHEZ DES ANIMAUX RUMINANTS**
[72] MIZRAHI, ITZHAK, IL
[72] SASSON, GOOR, IL
[71] THE NATIONAL INSTITUTE FOR BIOTECHNOLOGY IN THE NEGEV LTD., IL
[85] 2021-12-28
[86] 2020-07-02 (PCT/IL2020/050742)
[87] (WO2021/001834)
[30] US (62/869,616) 2019-07-02

[21] **3,145,400**
[13] A1
[51] **Int.Cl. F03B 13/00 (2006.01) H02K 7/18 (2006.01) H02K 21/24 (2006.01)**
[25] EN
[54] **ELECTRIC POWER GENERATION DEVICE**
[54] **DISPOSITIF DE PRODUCTION D'ENERGIE ELECTRIQUE**
[72] SCHMIDT, SIDNEI, BR
[71] SCHMIDT, SIDNEI, BR
[85] 2021-12-29
[86] 2019-08-23 (PCT/BR2019/050349)
[87] (WO2020/227790)
[30] BR (BR 10 2019 010055 9) 2019-05-16

[21] **3,145,401**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/00 (2006.01) A61P 31/14 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **ATTENUATED DENGUE VIRUSES**
[54] **VIRUS DE LA DENGUE ATTENUES**
[72] MUELLER, STEFFEN, US
[72] COLEMAN, JOHN ROBERT, US
[72] STAUFT, CHARLES, US
[72] WANG, YING, US
[71] CODAGENIX INC., US
[85] 2021-12-24
[86] 2020-06-23 (PCT/US2020/039166)
[87] (WO2020/263850)
[30] US (62/866,477) 2019-06-25

[21] **3,145,402**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) B65D 71/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING SHIPPING OF ORDERS IN AN ORDER FULFILLMENT CENTER**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'EXPEDITION DE COMMANDES DANS UN CENTRE D'EXECUTION DE COMMANDES**
[72] VELAGAPUDI, PRASANNA, US
[72] GEYER, CHRISTOPHER, US
[72] COHEN, BENJAMIN, US
[72] ROMANO, JOSEPH, US
[72] MASON, MATTHEW T., US
[71] BERKSHIRE GREY, INC., US
[85] 2021-12-24
[86] 2020-06-24 (PCT/US2020/039313)
[87] (WO2020/263942)
[30] US (62/865,596) 2019-06-24

[21] **3,145,404**
[13] A1
[51] **Int.Cl. A47J 37/07 (2006.01) F24C 1/16 (2021.01) F24C 3/14 (2021.01)**
[25] EN
[54] **PORTABLE BBQ GRILL**
[54] **BARBECUE-GRIL PORTATIF**
[72] THIBAULT, GERARD, CA
[72] MCMULLIN, DAVID ANDREW, CA
[72] DICKE, WILLIAM, CA
[71] TIBOGRILL INC, CA
[85] 2021-12-29
[86] 2021-05-18 (PCT/CA2021/000044)
[87] (WO2021/232137)
[30] US (63/026,838) 2020-05-19

[21] **3,145,410**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **ANTIBODY TO LEPTIN RECEPTOR**
[54] **ANTICORPS DIRIGE CONTRE LE RECEPTEUR DE LA LEPTINE**
[72] YANG, GUANG, CN
[72] TAO, PINGDONG, CN
[71] SHANGHAITECH UNIVERSITY, CN
[85] 2021-12-29
[86] 2019-07-02 (PCT/CN2019/094352)
[87] (WO2021/000251)

[21] **3,145,411**
[13] A1
[51] **Int.Cl. B01J 8/24 (2006.01)**
[25] EN
[54] **FLUIDIZED BED REACTOR SYSTEM ALLOWING PARTICLE SAMPLING DURING AN ONGOING REACTION**
[54] **SYSTEME DE REACTEUR A LIT FLUIDISE PERMETTANT UN ECHANTILLONNAGE DE PARTICULES PENDANT UNE REACTION EN COURS**
[72] KIM, HOWARD TAERY, US
[71] X ENERGY, LLC, US
[85] 2021-12-24
[86] 2020-06-25 (PCT/US2020/039541)
[87] (WO2020/264104)
[30] US (16/453,571) 2019-06-26

[21] **3,145,412**
[13] A1
[51] **Int.Cl. A61K 8/36 (2006.01) A61K 8/362 (2006.01) A61K 8/365 (2006.01) A61K 8/368 (2006.01) A61K 8/37 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61Q 5/06 (2006.01) A61Q 5/10 (2006.01)**
[25] EN
[54] **ADDITIVES FOR COLORING AGENTS AND METHODS OF USE THEREOF**
[54] **ADDITIFS POUR AGENTS DE COLORATION ET LEURS PROCEDES D'UTILISATION**
[72] KANG, SOO-YOUNG, US
[72] JI, ZHAOXIA, US
[72] VILLANUEVA, DINARA A., US
[72] ABEYRATHNA, NAWODI, US
[71] LIVING PROOF, INC., US
[85] 2021-12-24
[86] 2020-06-26 (PCT/US2020/039759)
[87] (WO2020/264257)
[30] US (62/868,210) 2019-06-28

[21] **3,145,413**
[13] A1
[51] **Int.Cl. B25C 1/04 (2006.01)**
[25] EN
[54] **FASTENER TOOL WITH LOCKING MECHANISM**
[54] **OUTIL DE FIXATION DOTE D'UN MECANISME DE VERROUILLAGE**
[72] LIN, HAI LING, CN
[72] HE, XI, CN
[72] TAN, YING XIANG, CN
[71] TECHTRONIC CORDLESS GP, US
[85] 2021-12-29
[86] 2019-11-29 (PCT/CN2019/121922)
[87] (WO2021/102894)

[21] **3,145,415**
[13] A1
[51] **Int.Cl. G01S 13/42 (2006.01) G01S 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVED RADAR SCANNING COVERAGE AND EFFICIENCY**
[54] **SYSTEMES ET PROCEDE D'AMELIORATION DE LA COUVERTURE ET DE L'EFFICACITE D'UN BALAYAGE RADAR**
[72] CHARPENTIER, ALBERT, US
[72] BOYLAN, MICHAEL, US
[72] LUONG, TUOC, US
[72] PHAM, HOA V., VN
[72] NGUYEN, LONG, VN
[72] NGUYEN, HAI, VN
[72] VU, TUNG V., VN
[71] BODIDATA, INC., US
[85] 2021-12-29
[86] 2020-07-14 (PCT/US2020/041919)
[87] (WO2021/011530)
[30] US (62/874,618) 2019-07-16

[21] **3,145,416**
[13] A1
[51] **Int.Cl. C12P 7/62 (2022.01) C12N 15/64 (2006.01)**
[25] EN
[54] **STRAIN AND METHOD FOR PRODUCING ROSMARINIC ACID**
[54] **SOUCHE ET PROCEDE DE PRODUCTION D'ACIDE ROSMARINIQUE**
[72] CAI, YUJIE, CN
[72] YAN, YI, CN
[72] DING, YANRUI, CN
[72] BAI, YAJUN, CN
[72] ZHENG, XIAOHUI, CN
[71] HONGTAOSIM RESEARCH INSTITUTE OF ANALYCAL SCIENCE AND TECHNOLOGY LTD. CO., CN
[85] 2021-12-29
[86] 2020-02-24 (PCT/CN2020/076363)
[87] (WO2020/258896)
[30] CN (201910554108.8) 2019-06-25

[21] **3,145,417**
[13] A1
[51] **Int.Cl. H04W 16/28 (2009.01) H04W 72/04 (2009.01)**
[25] EN
[54] **TERMINAL AND COMMUNICATION METHOD**
[54] **TERMINAL ET PROCEDE DE COMMUNICATION**
[72] TAKAHASHI, HIDEAKI, JP
[72] MATSUMURA, YUKI, JP
[71] NTT DOCOMO, INC., JP
[85] 2021-12-24
[86] 2019-08-14 (PCT/JP2019/031982)
[87] (WO2021/029050)

[21] **3,145,418**
[13] A1
[51] **Int.Cl. A61K 31/14 (2006.01) A61K 31/20 (2006.01) A61K 31/201 (2006.01) A61K 31/202 (2006.01) A61K 31/685 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **USE OF CERTAIN PHOSPHATIDYLCHOLINES CONTAINING LONG CHAIN POLYUNSATURATED FATTY ACIDS AS NEUROPROTECTIVE AGENTS**
[54] **UTILISATION DE CERTAINES PHOSPHATIDYLCHOLINES CONTENANT DES ACIDES GRAS POLYINSATURES A LONGUE CHAINE EN TANT QU'AGENTS NEUROPROTECTEURS**
[72] BRENNEMAN, DOUGLAS E., US
[72] KINNEY, WILLIAM A., US
[72] CLEMENT, JASON, US
[72] PETKANAS, DEAN, US
[71] KANNALIFE SCIENCES, INC., US
[85] 2021-12-24
[86] 2020-06-26 (PCT/US2020/039860)
[87] (WO2020/264324)
[30] US (62/866,938) 2019-06-26

[21] **3,145,419**
[13] A1
[51] **Int.Cl. G06F 9/445 (2018.01)**
[25] EN
[54] **METHOD FOR MIGRATING VIRTUAL MACHINE AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE MIGRATION VERS UNE MACHINE VIRTUELLE**
[72] GONG, LEI, CN
[72] HUANG, ZHICHAO, CN
[72] YANG, HONGYANG, CN
[72] LIU, JINSONG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-12-29
[86] 2020-06-03 (PCT/CN2020/094202)
[87] (WO2021/000689)
[30] CN (201910581208.X) 2019-06-29

[21] **3,145,420**
[13] A1
[51] **Int.Cl. B07B 1/28 (2006.01) B07B 1/46 (2006.01) B07B 1/48 (2006.01) B07B 13/16 (2006.01)**
[25] EN
[54] **APPARATUSES, METHODS, AND SYSTEMS FOR VIBRATORY SCREENING**
[54] **APPAREILS, PROCEDES ET SYSTEMES DESTINES AU CRIBLAGE VIBRATOIRE**
[72] COLGROVE, JAMES R., US
[72] PERESAN, MICHAEL L., US
[71] DERRICK CORPORATION, US
[85] 2021-12-29
[86] 2020-07-02 (PCT/US2020/040696)
[87] (WO2021/003390)
[30] US (16/460,764) 2019-07-02

[21] **3,145,421**
[13] A1
[51] **Int.Cl. E04B 1/10 (2006.01) E04B 1/66 (2006.01) E04B 2/00 (2006.01) E04B 2/74 (2006.01) E04C 2/16 (2006.01) E04C 2/24 (2006.01) E04C 2/52 (2006.01)**
[25] EN
[54] **WARP RESISTANT PANELS**
[54] **PANNEAUX RESISTANT A LA DEFORMATION**
[72] GOSLING, GEOFF W., CA
[71] DIRTT ENVIRONMENTAL SOLUTIONS LTD., CA
[85] 2021-12-24
[86] 2020-07-28 (PCT/US2020/043850)
[87] (WO2021/021793)
[30] US (62/880,373) 2019-07-30

[21] **3,145,423**
[13] A1
[51] **Int.Cl. A61K 31/12 (2006.01) A23L 33/105 (2016.01) A61K 36/9066 (2006.01) A61P 3/02 (2006.01) A61P 25/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR IMPROVING OR MAINTAINING QUALITY OF LIFE**
[54] **COMPOSITION PERMETTANT D'AMELIORER OU DE PRESERVER LA QUALITE DE VIE**
[72] UCHIO, RYUSEI, JP
[72] MUROYAMA, KOUTAROU, JP
[72] KAWASAKI, KENGO, JP
[72] MUROSAKI, SHINJI, JP
[71] HOUSE WELLNESS FOODS CORPORATION, JP
[85] 2021-12-24
[86] 2019-06-28 (PCT/JP2019/025840)
[87] (WO2020/261539)

[21] **3,145,425**
[13] A1
[51] **Int.Cl. C07C 215/18 (2006.01) A61K 9/127 (2006.01) A61K 47/44 (2017.01) C07C 213/08 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **CATIONIC LIPIDS AND USES THEREOF**
[54] **LIPIDES CATIONIQUES ET LEURS UTILISATIONS**
[72] ANGEL, MATTHEW, US
[72] KOSTAS, FRANKLIN, US
[72] ROHDE, CHRISTOPHER, US
[71] FACTOR BIOSCIENCE INC., US
[85] 2021-12-29
[86] 2020-07-03 (PCT/US2020/040813)
[87] (WO2021/003462)
[30] US (62/870,245) 2019-07-03
[30] US (62/880,435) 2019-07-30
[30] US (63/023,654) 2020-05-12

[21] **3,145,426**
[13] A1
[51] **Int.Cl. A61K 47/60 (2017.01) A61K 9/19 (2006.01) A61K 38/51 (2006.01) A61K 47/26 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **PEGYLATED CYSTATHIONINE BETA SYNTHASE FOR ENZYME THERAPY FOR TREATMENT OF HOMOCYSTINURIA**
[54] **CYSTATHIONINE BETA SYNTHASE PEGYLEE POUR UNE ENZYMOTHERAPIE POUR LE TRAITEMENT DE L'HOMOCYSTINURIE**
[72] KRAUS, JAN P. (DECEASED), US
[72] WANNER, RANDY, DE
[72] BUBLIL, EREZ, IL
[72] GLAVIN, FRANK, US
[72] SELLOS-MOURA, MARCIA, US
[72] MAJTAN, TOMAS, US
[72] CAUSEVIC, ORHAN, DE
[71] TRAVERE THERAPEUTICS SWITZERLAND GMBH, CH
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[85] 2021-12-24
[86] 2020-06-26 (PCT/US2020/039870)
[87] (WO2020/264333)
[30] US (62/866,810) 2019-06-26
[30] US (62/983,860) 2020-03-02

[21] **3,145,427**
[13] A1
[51] **Int.Cl. C07D 309/10 (2006.01) A61K 31/35 (2006.01) A61K 31/351 (2006.01) A61P 3/10 (2006.01) C07H 7/04 (2006.01) C07H 9/04 (2006.01)**
[25] EN
[54] **GLUCOPYRANOSYL DERIVATIVES AND THEIR USES**
[54] **DERIVES DE GLUCOPYRANOSYLE ET LEURS UTILISATIONS**
[72] GU, ZHENG, CN
[72] WU, WUYONG, CN
[72] KANG, PANPAN, CN
[72] WANG, WEIHUA, CN
[72] LIU, JIANYU, CN
[72] DENG, XINSHAN, CN
[71] SUNSHINE LAKE PHARMA CO., LTD., CN
[85] 2021-12-29
[86] 2020-07-09 (PCT/CN2020/101014)
[87] (WO2021/004498)
[30] CN (201910618876.5) 2019-07-10

[21] **3,145,428**
[13] A1
[51] **Int.Cl. F17C 1/16 (2006.01)**
[25] EN
[54] **CORRUGATIONS FOR INFLATION AGAINST RIGID SHAPE**
[54] **ONDULATIONS POUR GONFLEMENT CONTRE UNE FORME RIGIDE**
[72] COLLINS, CAROLINE, US
[72] SCHLOTTERBECK, BRIAN, US
[71] LINAMAR CORPORATION, CA
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/070203)
[87] (WO2020/264582)
[30] US (62/867,914) 2019-06-28

[21] **3,145,429**
[13] A1
[51] **Int.Cl. A24D 1/02 (2006.01) A24C 5/46 (2006.01)**
[25] EN
[54] **CONICAL FILTER SLEEVE WITH A FILTER COMPRISING ACTIVATED CARBON**
[54] **TUBE CONIQUE AVEC FILTRE, MUNI D'UN FILTRE CONTENANT DU CHARBON ACTIF**
[72] MULLER-PROVENZANO, MARKUS, DE
[72] ESSER, ELISABETH, DE
[71] GIZEH RAUCHERBEDARF GMBH, DE
[85] 2021-12-29
[86] 2020-06-04 (PCT/EP2020/065432)
[87] (WO2021/004701)
[30] DE (10 2019 118 292.1) 2019-07-05

[21] **3,145,430**
[13] A1
[51] **Int.Cl. A61L 2/24 (2006.01) A61B 90/80 (2016.01) G16H 40/20 (2018.01) A47K 7/04 (2006.01) B08B 7/04 (2006.01) G08B 21/24 (2006.01)**
[25] EN
[54] **MONITORING SURFACE CLEANING OF MEDICAL SURFACES USING VIDEO STREAMING**
[54] **SURVEILLANCE DU NETTOYAGE DE SURFACE DE SURFACES MEDICALES A L'AIDE D'UNE DIFFUSION VIDEO EN CONTINU**
[72] FERRANTE, JOSEPH, US
[72] GROSS, KELSEY J., US
[72] SWART, ELLIOT, US
[71] DIGITAL DIAGNOSTICS INC., US
[85] 2021-12-24
[86] 2020-06-26 (PCT/US2020/039918)
[87] (WO2020/264367)
[30] US (62/868,243) 2019-06-28
[30] US (82868243) 2019-06-28

[21] **3,145,431**
[13] A1
[51] **Int.Cl. E21B 47/10 (2012.01) G01F 1/84 (2006.01)**
[25] EN
[54] **DETERMINATION OF RHEOLOGY OF FLUID IN AN OIL OR GAS WELL**
[54] **DETERMINATION DE LA RHEOLOGIE D'UN FLUIDE DANS UN PUITS DE PETROLE OU DE GAZ**
[72] NESHEIM, GUNVALD, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2021-12-29
[86] 2020-07-02 (PCT/US2020/040652)
[87] (WO2021/003362)
[30] US (62/870,290) 2019-07-03
[30] US (16/919,277) 2020-07-02

[21] **3,145,432**
[13] A1
[51] **Int.Cl. F17C 13/06 (2006.01)**
[25] EN
[54] **LINER COLLAPSE MITIGATIONS FOR TYPE IV CONFORMABLE PRESSURE VESSELS**
[54] **ATTENUATION D'AFFAISSEMENT DE DOUBLURE POUR RECIPIENTS SOUS PRESSION ADAPTABLES DE TYPE IV**
[72] WEXLER, JASON, US
[72] SANCHES, JORDAN, US
[72] KOVALESKY, VLADIMIR, US
[71] LINAMAR CORPORATION, CA
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/070211)
[87] (WO2020/264583)
[30] US (62/868,269) 2019-06-28

[21] **3,145,434**
[13] A1
[51] **Int.Cl. H01M 4/1391 (2010.01) H01M 4/131 (2010.01) H01M 4/62 (2006.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **PROCESS FOR MAKING AN AT LEAST PARTIALLY COATED ELECTRODE ACTIVE MATERIAL**
[54] **PROCEDE DE FABRICATION DE MATERIAU ACTIF D'ELECTRODE AU MOINS PARTIELLEMENT REVETU**
[72] SOMMER, HEINO, DE
[72] ERK, CHRISTOPH, DE
[72] SCHAUB, THOMAS, DE
[71] BASF SE, DE
[85] 2021-12-29
[86] 2020-06-17 (PCT/EP2020/066808)
[87] (WO2021/001153)
[30] EP (19183616.2) 2019-07-01

[21] **3,145,436**
[13] A1
[51] **Int.Cl. F17C 1/06 (2006.01)**
[25] EN
[54] **STRATEGIES FOR SAFE FAST-FILL OF COMPRESSED GAS TANKS**
[54] **STRATEGIES DE REMPLISSAGE RAPIDE SUR DE RESERVOIRS DE GAZ COMPRIME**
[72] SAADE, MARIA ELIZABETH SAADE, US
[72] WEXLER, JASON, US
[71] LINAMAR CORPORATION, CA
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/070212)
[87] (WO2020/264584)
[30] US (62/867,913) 2019-06-28

[21] **3,145,437**
[13] A1
[51] **Int.Cl. C12N 9/00 (2006.01) A01H 6/46 (2018.01) A01H 5/00 (2018.01) C12N 15/52 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **GLUTAMINE SYNTHETASE MUTANT HAVING GLUFOSINATE AMMONIUM RESISTANCE AND APPLICATION THEREOF AND CULTIVATION METHOD THEREFOR**
[54] **MUTANT DE GLUTAMINE SYNTHETASE AYANT UNE RESISTANCE AU GLUFOSINATE-AMMONIUM ET SON APPLICATION ET SON PROCEDE DE CULTURE**
[72] DENG, LONGQUN, CN
[72] ZHANG, ZHEN, CN
[72] LU, YUANGEN, CN
[72] FU, YINGZHAO, CN
[72] TANG, YI, CN
[72] XIANG, RUHUA, CN
[72] FENG, XIAORONG, CN
[72] XU, NANFEI, CN
[71] GEVOTO LLC, CN
[85] 2021-12-29
[86] 2020-06-30 (PCT/CN2020/099568)
[87] (WO2021/000870)
[30] CN (201910585719.9) 2019-07-01

[21] **3,145,439**
[13] A1
[51] **Int.Cl. A61N 1/05 (2006.01)**
[25] EN
[54] **IMPROVED ELECTRODE AND PERCUTANEOUS LEAD AND METHOD OF USE**
[54] **ELECTRODE AMELIOREE ET FIL PERCUTANE ET PROCEDE D'UTILISATION**
[72] WOLF II, ERICH W., US
[71] WAVEGATE CORPORATION, US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/070225)
[87] (WO2021/003497)
[30] US (62/869,377) 2019-07-01
[30] US (62/869,372) 2019-07-01
[30] US (62/869,397) 2019-07-01
[30] US (16/946,714) 2020-07-01
[30] US (16/946,716) 2020-07-01
[30] US (16/946,715) 2020-07-01

[21] **3,145,440**
[13] A1
[51] **Int.Cl. F16J 12/00 (2006.01) F17C 1/00 (2006.01) F17C 13/00 (2006.01)**
[25] EN
[54] **END BOSS FOR TYPE IV PRESSURE VESSEL**
[54] **PROTUBERANCE TERMINALE POUR RECIPIENT SOUS PRESSION DE TYPE IV**
[72] KOVALESKY, VLADIMIR, US
[72] SANCHES, JORDAN, US
[71] LINAMAR CORPORATION, CA
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/070213)
[87] (WO2020/264585)
[30] US (62/867,910) 2019-06-28

[21] **3,145,441**
[13] A1
[51] **Int.Cl. G06V 40/12 (2022.01) G06V 10/26 (2022.01) G06V 10/44 (2022.01) G06V 40/13 (2022.01)**
[25] EN
[54] **SLAP SEGMENTATION OF CONTACTLESS FINGERPRINT IMAGES**
[54] **SEGMENTATION PAR DIVISION FORCEE D'IMAGES D'EMPREINTES DIGITALES SANS CONTACT**
[72] DING, YI, FR
[72] WANG, ANNE JINSONG, FR
[72] LI, SONGTAO LESTER, FR
[71] THALES DIS FRANCE SAS, FR
[85] 2021-12-29
[86] 2020-06-29 (PCT/EP2020/068289)
[87] (WO2021/001322)
[30] US (16/458,955) 2019-07-01

[21] **3,145,442**
[13] A1
[51] **Int.Cl. A01C 1/06 (2006.01) A23L 3/02 (2006.01) A23L 3/06 (2006.01) A23L 3/16 (2006.01) A23L 3/18 (2006.01) A47J 27/04 (2006.01) A47J 27/16 (2006.01)**
[25] EN
[54] **MIXING AND DRYING CONVEYOR**
[54] **TRANSPORTEUR DE MELANGE ET DE SECHAGE**
[72] EDELMAN, MATTHEW, US
[72] KAEB, JASON, US
[72] KAEB, PAUL, US
[71] KSI CONVEYOR INC, US
[85] 2021-12-24
[86] 2020-07-29 (PCT/US2020/070324)
[87] (WO2021/022298)
[30] US (62/879,940) 2019-07-29

[21] **3,145,443**
[13] A1
[51] **Int.Cl. G06V 40/12 (2022.01) G06T 7/194 (2017.01) G06V 10/20 (2022.01) G06V 10/25 (2022.01) G06V 40/13 (2022.01)**
[25] EN
[54] **METHOD TO GENERATE A SLAP/FINGERS FOREGROUND MASK**
[54] **PROCEDE DE GENERATION D'UN MASQUE D'AVANT-PLAN A CLAP/DOIGTS**
[72] DING, YI, FR
[72] WANG, ANNE JINSONG, FR
[71] THALES DIS FRANCE SAS, FR
[85] 2021-12-29
[86] 2020-06-29 (PCT/EP2020/068297)
[87] (WO2021/001323)
[30] US (16/458,804) 2019-07-01

[21] **3,145,444**
[13] A1
[51] **Int.Cl. G10L 19/008 (2013.01) H04S 7/00 (2006.01)**
[25] EN
[54] **METHODS, APPARATUS AND SYSTEMS FOR REPRESENTATION, ENCODING, AND DECODING OF DISCRETE DIRECTIVITY DATA**
[54] **PROCEDES, APPAREILS ET SYSTEMES DE REPRESENTATION, DE CODAGE ET DE DECODAGE DE DONNEES DE DIRECTIVITE DISCRETES**
[72] TERENTIV, LEON, DE
[72] FERSCH, CHRISTOF, DE
[72] FISCHER, DANIEL, DE
[71] DOLBY INTERNATIONAL AB, NL
[85] 2021-12-29
[86] 2020-06-30 (PCT/EP2020/068380)
[87] (WO2021/001358)
[30] US (62/869,622) 2019-07-02
[30] EP (19183862.2) 2019-07-02

[21] **3,145,445**
[13] A1
[51] **Int.Cl. C12Q 1/6869 (2018.01)**
[25] EN
[54] **METHODS FOR SEQUENCING POLYNUCLEOTIDES**
[54] **PROCEDES DE SEQUENCAGE DE POLYNUCLEOTIDES**
[72] PEACE, JARED, US
[72] BOJANOVIC MACHADO, KLARA, US
[72] MCINERNEY, PETER, US
[72] BOUTELL, JONATHAN MARK, GB
[71] ILLUMINA, INC., US
[85] 2021-12-29
[86] 2021-03-09 (PCT/EP2021/055939)
[87] (WO2021/180733)
[30] US (62/987,035) 2020-03-09

[21] **3,145,446**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 25/28 (2006.01) C12N 9/20 (2006.01)**
[25] EN
[54] **CPLA2E INDUCING AGENTS AND USES THEREOF**
[54] **AGENTS INDUISANT LA CPLA2E ET LEURS UTILISATIONS**
[72] GARCIA OSTA, ANA MARIA, ES
[72] CUADRADO TEJEDOR, MARIA DEL MAR, ES
[72] PEREZ GONZALEZ, MARTA, ES
[71] FUNDACION PARA LA INVESTIGACION MEDICA APLICADA, ES
[71] UNIVERSIDAD DE NAVARRA, ES
[85] 2021-12-29
[86] 2020-06-30 (PCT/EP2020/068414)
[87] (WO2021/001377)
[30] EP (19382563.5) 2019-07-02

[21] **3,145,447**
[13] A1
[51] **Int.Cl. G16H 10/40 (2018.01) A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/1495 (2006.01) A61B 10/00 (2006.01) B01L 3/00 (2006.01) G01N 33/48 (2006.01) G01N 33/487 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **BIOLOGICAL FLUID ANALYSIS AND PERSONALIZED HYDRATION ASSESSMENT SYSTEMS**
[54] **ANALYSE DE FLUIDE BIOLOGIQUE ET SYSTEMES PERSONNALISES D'EVALUATION D'HYDRATATION**
[72] HUYNH, DUC HAU, AU
[72] ERLICHSTER, MICHAEL, AU
[72] NGUYEN, THANH CONG, AU
[72] NGUYEN, DUC PHUONG, AU
[72] SKAFIDAS, EFSTRATIOS, AU
[72] MING, HSIEN, AU
[72] CHANA, GURSHARAN, AU
[72] LEE, TING TING, AU
[72] ABEYRATHNE, CHATHURIKA DARSHANI, AU
[72] LIANG, YOU, AU
[72] KILPATRICK, TREVOR JOHN, AU
[72] LUTHER, MICHAEL, US
[72] LUTHER, ALAN DAYVAULT, US
[71] MX3 DIAGNOSTICS, INC., US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/040523)
[87] (WO2021/003286)
[30] US (62/876,263) 2019-07-19
[30] US (62/957,527) 2020-01-06
[30] US (62/869,210) 2019-07-01

[21] **3,145,448**
[13] A1
[51] **Int.Cl. H01M 10/6568 (2014.01) H01M 10/0525 (2010.01) H01M 10/613 (2014.01) H01M 10/6552 (2014.01) H01M 10/6556 (2014.01) H01M 50/383 (2021.01)**
[25] EN
[54] **FIRE SUPPRESSION ARRANGEMENT**
[54] **AGENCEMENT D'EXTINCTION D'INCENDIE**
[72] SVENSSON, ANDREAS, SE
[71] A. SVENSSON INTERNATIONAL AB, SE
[85] 2021-12-29
[86] 2020-07-01 (PCT/EP2020/068548)
[87] (WO2021/004860)
[30] EP (19184696.3) 2019-07-05

[21] **3,145,449**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 31/175 (2006.01) A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **HYDROPHILIC LINKERS FOR MULTIVALENT PEPTIDE CONJUGATES**
[54] **LIEURS HYDROPHILES POUR CONJUGUES PEPTIDIQUES MULTIVALENTS**
[72] JACKSON, WESLEY M., US
[72] TWITE, AMY A., US
[72] BRIER, LIVIA WILZ, US
[71] VALITOR, INC., US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/040430)
[87] (WO2021/003223)
[30] US (62/869,233) 2019-07-01
[30] US (62/898,967) 2019-09-11

[21] **3,145,450**
[13] A1
[51] **Int.Cl. A61N 1/362 (2006.01) A61M 25/02 (2006.01) A61M 39/12 (2006.01) A61N 1/375 (2006.01) A61N 1/39 (2006.01)**
[25] EN
[54] **FASTENING SYSTEM FOR AN ELECTRICAL STIMULATION GENERATOR**
[54] **SYSTEME DE FIXATION POUR UN GENERATEUR DE STIMULATION ELECTRIQUE**
[72] VICENTE MIRALLES, RAIMUNDO, ES
[71] VICENTE MIRALLES, RAIMUNDO, ES
[71] FUNDACION UNIVERSITAS MIGUEL HERNANDEZ DE LA COMUNITAT VALENCIANA, ES
[85] 2021-12-29
[86] 2020-07-17 (PCT/ES2020/070464)
[87] (WO2021/023901)
[30] ES (P201930723) 2019-08-02

[21] **3,145,453**
[13] A1
[51] **Int.Cl. A61P 37/06 (2006.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTI-CD154 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-CD154 ET LEURS UTILISATIONS**
[72] LEDERMAN, SETH, US
[71] TONIX PHARMA LIMITED, IE
[85] 2021-12-29
[86] 2020-07-01 (PCT/EP2020/068589)
[87] (WO2021/001458)
[30] US (62/869,489) 2019-07-01
[30] US (63/018,123) 2020-04-30

[21] **3,145,454**
[13] A1
[51] **Int.Cl. A01K 61/13 (2017.01) C02F 1/00 (2006.01) C02F 1/50 (2006.01)**
[25] EN
[54] **AQUA FARMING SYSTEM AND TREATMENT OF WATER MOULD, BACTERIAL COLDWATER DISEASE, RAINBOW TROUT FRY SYNDROME AND COLUMNARIS DISEASE**
[54] **SYSTEME D'AQUACULTURE ET TRAITEMENT D'UN CHAMPIGNON AQUATIQUE, D'UNE MALADIE DES EAUX FROIDES BACTERIENNE, D'UN SYNDROME D'ALEVINS DE TRUITE ARC-EN-CIEL ET D'UNE MYXOBACTERIOSE A FLEXIBACTER COLUMNARIS**
[72] YLI-SEPPALA, HENRIK, FI
[72] ALHA, KARI, FI
[71] PREMIX OY, FI
[85] 2021-12-29
[86] 2020-06-17 (PCT/FI2020/050439)
[87] (WO2021/001596)
[30] FI (20195608) 2019-07-03

[21] **3,145,455**
[13] A1
[51] **Int.Cl. B25J 9/00 (2006.01)**
[25] FR
[54] **COMPACT DEVICE DESIGNED TO BE POSITIONED CLOSE TO A JOINT AND GENERAL SYSTEM COMPRISING SUCH A COMPACT DEVICE**
[54] **DISPOSITIF COMPACT DESTINE A ETRE POSITIONNE A PROXIMITE D'UNE ARTICULATION ET SYSTEME GENERAL COMPORTANT UN TEL DISPOSITIF COMPACT**
[72] GRENIER, JORDANE, FR
[72] LAROSE, PASCAL, CA
[71] SAFRAN ELECTRONICS & DEFENSE, FR
[85] 2021-12-29
[86] 2020-07-02 (PCT/EP2020/068717)
[87] (WO2021/001497)
[30] FR (FR1907331) 2019-07-02

[21] **3,145,456**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/50 (2006.01) A61K 31/55 (2006.01)**
[25] EN
[54] **METHODS FOR ADMINISTERING (R)-N-[4-(1,4,5,6-TETRAHYDRO-6-OXO-3-PYRIDAZINYL)PHENYL]ACETA MIDE**
[54] **PROCEDES D'ADMINISTRATION DE(R)-N-[4-(1,4,5,6-TETRAHYDRO-6-OXO-3-PYRIDAZINYL)PHENYL]ACETA MIDE**
[72] LEVIJOKI, JOUKO, FI
[72] PAPPINEN, SARI, FI
[72] SALORANTA, LASSE, FI
[71] ORION CORPORATION, FI
[85] 2021-12-29
[86] 2020-06-30 (PCT/FI2020/050475)
[87] (WO2021/001601)
[30] FI (20195595) 2019-07-01

[21] **3,145,457**
[13] A1
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/128 (2006.01)**
[25] EN
[54] **EXPANDING AND COLLAPSING APPARATUS WITH SEAL PRESSURE EQUALIZATION**
[54] **APPAREIL EXTENSIBLE ET RETRACTABLE A EGALISATION DE PRESSION D'ETANCHEITE**
[72] BROWN, GARETH, GB
[72] FRY, OLIVER, GB
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2021-12-29
[86] 2020-07-02 (PCT/US2020/040735)
[87] (WO2021/003415)
[30] US (62/869,773) 2019-07-02
[30] US (62/908,104) 2019-09-30
[30] US (62/908,157) 2019-09-30
[30] US (62/908,213) 2019-09-30
[30] US (62/908,237) 2019-09-30

[21] **3,145,458**
[13] A1
[51] **Int.Cl. C23C 14/32 (2006.01) C23C 14/34 (2006.01) H01J 37/32 (2006.01) H01J 37/34 (2006.01)**
[25] EN
[54] **CATHODIC ARC SOURCE**
[54] **SOURCE D'ARC CATHODIQUE**
[72] KRASSNITZER, SIEGFRIED, AT
[72] HAGMANN, JURG, CH
[72] TREUHOLZ, ANDREAS PETER, CH
[71] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH
[85] 2021-12-29
[86] 2020-07-03 (PCT/EP2020/068828)
[87] (WO2021/001536)
[30] CH (00877/19) 2019-07-03

[21] **3,145,459**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION OF DAROLUTAMIDE**
[54] **COMPOSITION PHARMACEUTIQUE DE DAROLUTAMIDE**
[72] ILMONEN, SUSANNA, FI
[72] LINTUNEN, JUHA, FI
[72] LYYTINEN, PETTERI, FI
[72] SAALASTI, MARKO, FI
[71] ORION CORPORATION, FI
[85] 2021-12-29
[86] 2020-07-02 (PCT/FI2020/050478)
[87] (WO2021/001603)
[30] FI (20195601) 2019-07-02

[21] **3,145,460**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 50/22 (2018.01) G06Q 50/26 (2012.01) G16H 10/00 (2018.01) G16H 20/10 (2018.01) A61B 5/00 (2006.01)**
[25] EN
[54] **LOCATION-INDEPENDENT INGESTION CONTROL**
[54] **CONTROLE DE PRISE REALISE INDEPENDAMMENT DU LIEU**
[72] WETZKE, MONIKA, DE
[71] RUMA GMBH, DE
[85] 2021-12-29
[86] 2020-07-03 (PCT/EP2020/068899)
[87] (WO2021/001560)
[30] EP (PCT/EP2019/067956) 2019-07-04

[21] **3,145,461**
[13] A1
[51] **Int.Cl. H04W 56/00 (2009.01) H04W 4/02 (2018.01) H04W 48/16 (2009.01) H04W 4/46 (2018.01) H04W 4/70 (2018.01)**
[25] EN
[54] **DISTRIBUTED EVENT-BASED COORDINATION MODEL**
[54] **MODELE DE COORDINATION DISTRIBUE BASE SUR DES EVENEMENTS**
[72] CHEN, YANWEN, GB
[71] SEYO LIMITED, GB
[85] 2021-12-29
[86] 2020-07-02 (PCT/GB2020/051590)
[87] (WO2021/001655)
[30] GB (1909545.4) 2019-07-02

[21] **3,145,462**
[13] A1
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/128 (2006.01)**
[25] EN
[54] **EXPANDING AND COLLAPSING APPARATUS AND METHODS OF USE**
[54] **APPAREIL EXTENSIBLE ET RETRACTABLE ET PROCEDES D'UTILISATION**
[72] BROWN, GARETH, GB
[72] FRY, OLIVER, GB
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2021-12-29
[86] 2020-07-02 (PCT/US2020/040732)
[87] (WO2021/003412)
[30] US (62/869,773) 2019-07-02
[30] US (62/908,104) 2019-09-30
[30] US (62/908,157) 2019-09-30
[30] US (62/908,213) 2019-09-30
[30] US (62/908,237) 2019-09-30

[21] **3,145,463**
[13] A1
[51] **Int.Cl. H05K 1/02 (2006.01) H05K 1/18 (2006.01) H01L 23/00 (2006.01) H05K 3/34 (2006.01)**
[25] FR
[54] **SECURE ELECTRONIC CIRCUIT AND CORRESPONDING ASSEMBLY PROCESS**
[54] **CIRCUIT ELECTRONIQUE SECURISE ET PROCEDE D'ASSEMBLAGE CORRESPONDANT**
[72] ROSSIGNOL, MICHEL, FR
[72] LAMBERT, XAVIER, FR
[72] VASSY, LILIAN, FR
[72] CURINIER, CHRISTOPHE, FR
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[85] 2021-12-29
[86] 2020-07-08 (PCT/EP2020/069233)
[87] (WO2021/008965)
[30] FR (FR1907842) 2019-07-12

[21] **3,145,465**
[13] A1
[51] **Int.Cl. C12N 9/16 (2006.01) C08J 11/18 (2006.01) C11D 3/386 (2006.01) C11D 7/42 (2006.01) C12N 15/55 (2006.01) C12P 7/00 (2006.01)**
[25] EN
[54] **NOVEL ESTERASES AND USES THEREOF**
[54] **NOUVELLES ESTERASES ET LEURS UTILISATIONS**
[72] TOURNIER, VINCENT, FR
[71] CARBIOS, FR
[85] 2021-12-29
[86] 2020-07-10 (PCT/EP2020/069506)
[87] (WO2021/005199)
[30] EP (19185796.0) 2019-07-11

[21] **3,145,466**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6874 (2018.01) C12N 15/10 (2006.01) C12Q 1/6837 (2018.01)**
[25] EN
[54] **IMPROVEMENTS IN NUCLEIC ACID SEQUENCING**
[54] **AMELIORATIONS POUR LE SEQUENCAGE D'ACIDE NUCLEIQUE**
[72] PEACE, JARED, US
[72] MONTANO, JEANINE, US
[72] NIZIOLEK, MICHAEL, US
[72] SILBERGLEIT, ARK, US
[72] CAPEK, PETR, US
[72] MCINERNEY, PETER, US
[71] ILLUMINA, INC., US
[85] 2021-12-29
[86] 2021-03-09 (PCT/EP2021/055922)
[87] (WO2021/180724)
[30] US (62/987,047) 2020-03-09

[21] **3,145,467**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **THREADING DEVICES AND METHODS OF MANUFACTURE THEREOF**
[54] **DISPOSITIFS D'ENFILAGE ET LEURS PROCEDES DE FABRICATION**
[72] ALMODOVAR, LUIS JOSE, US
[71] ERGOSURGICAL GROUP CORP., US
[85] 2021-12-29
[86] 2020-07-03 (PCT/US2020/040831)
[87] (WO2021/003472)
[30] US (62/870,407) 2019-07-03

[21] **3,145,517**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **NOVEL ANTI-TCR DELTA VARIABLE 1 ANTIBODIES**
[54] **NOUVEAUX ANTICORPS ANTI-DOMAINE VARIABLE 1 DE TCR DELTA**
[72] POLYAKOVA, OXANA, GB
[72] MOUNT, NATALIE, GB
[72] NUSSBAUMER, OLIVER, GB
[71] GAMMADELTA THERAPEUTICS LIMITED, GB
[85] 2021-12-29
[86] 2020-08-14 (PCT/GB2020/051955)
[87] (WO2021/032960)
[30] GB (1911799.3) 2019-08-16
[30] GB (2010760.3) 2020-07-13

[21] **3,145,518**
[13] A1
[51] **Int.Cl. E21D 9/10 (2006.01)**
[25] EN
[54] **A MINING MACHINE AND A METHOD FOR ROCK EXCAVATION**
[54] **MACHINE POUR EXPLOITATION MINIERE ET PROCEDE D'EXCAVATION DE ROCHES**
[72] KERFSTEDT, HANS, SE
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE
[85] 2021-12-29
[86] 2020-08-17 (PCT/SE2020/050793)
[87] (WO2021/040599)
[30] SE (1950972-8) 2019-08-26

[21] **3,145,519**
[13] A1
[51] **Int.Cl. C22C 38/26 (2006.01) C07C 273/04 (2006.01) C22C 38/02 (2006.01) C22C 38/22 (2006.01)**
[25] EN
[54] **FERRITIC STEEL PARTS IN UREA PLANTS**
[54] **PIECES D'ACIER FERRITIQUE DANS DES USINES D'UREE**
[72] OFEI, KIRK ANGUAH, NL
[72] SCHEERDER, ALEXANDER ALEIDA ANTONIUS, NL
[71] STAMICARBON B.V., NL
[85] 2021-12-29
[86] 2020-07-03 (PCT/NL2020/050438)
[87] (WO2021/006729)
[30] EP (19184798.7) 2019-07-05

[21] **3,145,520**
[13] A1
[51] **Int.Cl. H01M 10/6551 (2014.01) H01M 10/613 (2014.01) H01M 10/6569 (2014.01)**
[25] EN
[54] **ELECTRIC BATTERIES COOLING SYSTEM**
[54] **SYSTEME DE REFROIDISSEMENT DE BATTERIES ELECTRIQUES**
[72] EADELSON, NAHSHON, IL
[71] CARRAR LTD, IL
[85] 2021-12-29
[86] 2020-07-22 (PCT/IL2020/050809)
[87] (WO2021/014441)
[30] US (62/876,953) 2019-07-22

[21] **3,145,522**
[13] A1
[51] **Int.Cl. B28B 1/30 (2006.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 70/00 (2020.01) B29C 64/112 (2017.01) B29C 64/118 (2017.01) B29C 64/188 (2017.01) B29C 64/209 (2017.01)**
[25] EN
[54] **MOLD PREPARATION AND PASTE FILLING**
[54] **PREPARATION DE MOULE ET REMPLISSAGE DE PATE**
[72] BEN-ZUR, OFER, IL
[72] KEDAR, ELI, IL
[72] FELDMAN, ALON, IL
[71] TRITONE TECHNOLOGIES LTD., IL
[85] 2021-12-29
[86] 2020-07-10 (PCT/IL2020/050777)
[87] (WO2021/009748)
[30] US (62/873,909) 2019-07-14

[21] **3,145,523**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **THERAPEUTIC USES OF ANTI-TCR DELTA VARIABLE 1 ANTIBODIES**
[54] **UTILISATIONS THERAPEUTIQUES D'ANTICORPS ANTI-DOMAINE VARIABLE 1 DE TCR DELTA**
[72] MOUNT, NATALIE, GB
[72] POLYAKOVA, OXANA, GB
[72] GOOD, ROBERT, GB
[72] UDEN, MARK, GB
[71] GAMMADELTA THERAPEUTICS LIMITED, GB
[85] 2021-12-29
[86] 2020-08-14 (PCT/GB2020/051959)
[87] (WO2021/032963)
[30] GB (1911799.3) 2019-08-16
[30] GB (2010760.3) 2020-07-13

[21] **3,145,525**
[13] A1
[51] **Int.Cl. F04B 49/06 (2006.01) F04B 23/02 (2006.01) F04B 49/025 (2006.01) F04B 49/04 (2006.01) G05B 13/00 (2006.01)**
[25] EN
[54] **BASEMENT SUMP CONTROL SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE PUISARD DE SOUS-SOL**
[72] ANDRAS, STEPHEN, US
[71] DNI REALTY, LLC, US
[85] 2021-12-24
[86] 2020-06-27 (PCT/US2020/040022)
[87] (WO2020/264452)
[30] US (62/868,375) 2019-06-28

[21] **3,145,526**
[13] A1
[51] **Int.Cl. H01L 27/146 (2006.01) G02B 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR HIGH-MAGNIFICATION HIGH-RESOLUTION PHOTOGRAPHY USING A SMALL IMAGING SYSTEM**
[54] **SYSTEMES ET PROCEDES POUR PHOTOGRAPHIE HAUTE RESOLUTION A FORT GROSSISSEMENT UTILISANT UN PETIT SYSTEME D'IMAGERIE**
[72] WAKS, EDO, US
[72] SHAPIRO, BENJAMIN, US
[71] LUMENUITY, LLC, US
[85] 2021-12-24
[86] 2020-06-28 (PCT/US2020/040025)
[87] (WO2020/264454)
[30] US (62/868,489) 2019-06-28

[21] **3,145,527**
[13] A1
[51] **Int.Cl. H04W 84/12 (2009.01) H04W 84/22 (2009.01) H04W 88/16 (2009.01)**
[25] EN
[54] **WIRELESS BACKBONE AND STRUCTURED WIRELESS**
[54] **DORSALE SANS FIL ET SANS FIL STRUCTURE**
[72] ANSLEY, CAROL J., US
[72] CHEEVERS, CHARLES PETER, US
[72] WHEELOCK, IAN G., IE
[72] GRAVELY, THOMAS B., US
[71] ARRIS ENTERPRISES LLC, US
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/040117)
[87] (WO2020/264493)
[30] US (62/868,583) 2019-06-28
[30] US (62/896,608) 2019-09-06

[21] **3,145,528**
[13] A1
[51] **Int.Cl. A61K 31/4166 (2006.01) A61K 9/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **INTRANASAL DANTROLENE ADMINISTRATION FOR TREATMENT OF ALZHEIMER'S DISEASE**
[54] **ADMINISTRATION INTRANASALE DE DANTROLENE POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] WEI, HUAFENG, US
[72] MENG, QING CHENG, US
[72] LIANG, GE, US
[72] FAZEN ECKENHOLL, MARYELLEN, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2021-12-24
[86] 2020-06-29 (PCT/US2020/040198)
[87] (WO2020/264531)
[30] US (62/868,820) 2019-06-28

[21] **3,145,530**
[13] A1
[51] **Int.Cl. A61K 39/04 (2006.01)**
[25] EN
[54] **WIDE-SPECTRUM ANTIBACTERIAL PHARMACEUTICAL FORMULATIONS COMPRISING LYSOZYME AND METHODS OF USING THE SAME**
[54] **FORMULATIONS PHARMACEUTIQUES ANTIBACTERIENNES A LARGE SPECTRE COMPRENANT LE LYSOZYME, ET METHODES D'UTILISATION DE CELLES-CI**
[72] AYBAR-BATISTA, DIOGENES, DO
[71] AYBAR ECOTECHNOLOGIES CORP., DO
[85] 2021-12-29
[86] 2020-05-28 (PCT/IB2020/055083)
[87] (WO2020/240472)
[30] US (62/853,215) 2019-05-28

[21] **3,145,531**
[13] A1
[51] **Int.Cl. D21H 21/16 (2006.01) B32B 27/10 (2006.01) D21H 11/18 (2006.01) D21H 17/18 (2006.01) D21H 21/18 (2006.01) D21H 27/30 (2006.01) C08B 3/08 (2006.01) D21H 17/11 (2006.01) D21H 17/14 (2006.01)**
[25] EN
[54] **PAPERBOARD AND LAMINATE COMPRISING A BIO-BARRIER**
[54] **CARTON ET STRATIFIE COMPRENANT UNE BARRIERE BIOLOGIQUE**
[72] HANSSON, SUSANNE, SE
[72] BADENLID, RAIJA, SE
[72] BACKFOLK, KAJ, SE
[71] STORA ENSO OYJ, FI
[85] 2021-12-29
[86] 2020-06-30 (PCT/IB2020/056159)
[87] (WO2021/005451)
[30] SE (1950872-0) 2019-07-09

[21] **3,145,532**
[13] A1
[51] **Int.Cl. G07C 5/00 (2006.01) G07B 15/06 (2011.01)**
[25] EN
[54] **SYSTEM COMPRISING AN ON-BOARD UNIT FOR TELEMATIC TRAFFIC SERVICES**
[54] **SYSTEME COMPRENANT UNE UNITE EMBARQUEE POUR DES SERVICES DE CIRCULATION TELEMATIQUES**
[72] SPECIALE, EMILIO, IT
[72] FRANCIOLI, FABIO, IT
[71] TELEPASS S.P.A., IT
[85] 2021-12-29
[86] 2020-07-02 (PCT/IB2020/056246)
[87] (WO2021/001776)
[30] IT (102019000010758) 2019-07-03

[21] **3,145,534**
[13] A1
[51] **Int.Cl. B02C 13/04 (2006.01) B02C 13/28 (2006.01) B02C 13/282 (2006.01) B02C 13/284 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR GRINDING HETEROGENEOUS MATRICES**
[54] **PROCEDE ET APPAREIL DE BROYAGE DE MATRICES HETEROGENES**
[72] LA PIETRA, GIUSEPPE, IT
[72] DI SALVIA, GRAZIA, IT
[72] MALAVASI, MASSIMO PIETRO, IT
[72] MOIOLI, EDOARDO, IT
[72] BASSIGNANO, ALVISE ACHILLE, IT
[71] ITEA S.P.A., IT
[85] 2021-12-29
[86] 2020-07-06 (PCT/IB2020/056340)
[87] (WO2021/005490)
[30] IT (102019000011376) 2019-07-10

[21] **3,145,536**
[13] A1
[51] **Int.Cl. G01N 3/08 (2006.01) G01N 3/40 (2006.01) G01N 3/56 (2006.01)**
[25] EN
[54] **MEASURING DEFORMATION THRESHOLD OF PRODUCE**
[54] **MESURE DU SEUIL DE DEFORMATION D'UN PRODUIT**
[72] NASCHITZ, SHAUL, IL
[71] MIGAL GALILEE RESEARCH INSTITUTE LTD., IL
[85] 2021-12-29
[86] 2020-07-01 (PCT/IL2020/050731)
[87] (WO2021/001824)
[30] US (62/869,102) 2019-07-01

[21] **3,145,537**
[13] A1
[51] **Int.Cl. G01N 1/10 (2006.01) B01L 3/00 (2006.01) B01L 3/16 (2006.01) G01N 1/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **ASSAY DEVICE AND RECEIVING DEVICE**
[54] **DISPOSITIF DE MESURE ET DISPOSITIF DE RECEPTION**
[72] BAILEY, TODD, US
[72] HONG, LIANG, CN
[71] PREMIER BIOTECH, INC., US
[85] 2021-12-29
[86] 2020-07-27 (PCT/IB2020/057053)
[87] (WO2021/019416)
[30] CN (201910699245.0) 2019-07-31
[30] US (62/880,777) 2019-07-31

[21] **3,145,538**
[13] A1
[51] **Int.Cl. H04N 21/235 (2011.01) H04N 21/81 (2011.01) H04N 21/84 (2011.01) H04N 21/845 (2011.01) H04N 19/597 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **DYNAMIC ADAPTATION OF VOLUMETRIC CONTENT COMPONENT SUB-BITSTREAMS IN STREAMING SERVICES**
[54] **ADAPTATION DYNAMIQUE DES SOUS-TRAINS BINAIRES A COMPOSANTE DE CONTENU VOLUMETRIQUE DANS DES SERVICES DE DIFFUSION EN CONTINU**
[72] HAMZA, AHMED, CA
[71] VID SCALE, INC., US
[85] 2021-12-29
[86] 2020-07-02 (PCT/US2020/040667)
[87] (WO2021/003371)
[30] US (62/869,705) 2019-07-02

[21] **3,145,539**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6844 (2018.01)**
[25] EN
[54] **KITS FOR GENOTYPING**
[54] **KITS POUR LE GENOTYPAGE**
[72] SLATTER, ANDREW, GB
[72] VERMAAS, ERIC HANS, US
[71] ILLUMINA, INC., US
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2021-12-29
[86] 2021-02-24 (PCT/US2021/019410)
[87] (WO2021/173666)
[30] US (62/981,866) 2020-02-26

[21] **3,145,540**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6834 (2018.01) C12N 15/10 (2006.01)**
[25] EN
[54] **KIT, SYSTEM, AND FLOW CELL**
[54] **KIT, SYSTEME ET CUVE OPTIQUE**
[72] CHEN, TYLER, US
[72] DAGGUMATI, PALLAVI, US
[72] KHURANA, TARUN KUMAR, US
[72] WU, YIR-SHYUAN, US
[71] ILLUMINA, INC., US
[85] 2021-12-29
[86] 2021-01-25 (PCT/US2021/014919)
[87] (WO2021/154648)
[30] US (62/966,351) 2020-01-27

[21] **3,145,541**
[13] A1
[51] **Int.Cl. C08G 65/26 (2006.01) C02F 1/20 (2006.01) C02F 1/54 (2006.01) C07C 67/00 (2006.01) C08L 71/02 (2006.01) C22B 3/04 (2006.01) C22B 3/08 (2006.01) C22B 3/20 (2006.01)**
[25] EN
[54] **AGENTS FOR USE IN HYDROMETALLURGICAL PROCESS STREAMS**
[54] **AGENTS DESTINES A ETRE UTILISES DANS DES FLUX DE TRAITEMENT HYDROMETALLURGIQUE**
[72] DEUTSCHER, KEN, AU
[72] BOSKOVIC, SASHA, AU
[72] COVENEY, ANDREW, AU
[72] HONG, JASON, AU
[72] LAZZARO, SALVATORE, AU
[72] TILDESLEY, KATE, AU
[71] INDORAMA VENTURES OXIDES AUSTRALIA PTY LIMITED, AU
[85] 2021-12-30
[86] 2020-08-27 (PCT/AU2020/000092)
[87] (WO2021/035282)
[30] AU (2019903141) 2019-08-28

[21] **3,145,542**
[13] A1
[51] **Int.Cl. C05F 1/00 (2006.01) C05B 1/02 (2006.01) C05B 1/04 (2006.01) C05B 7/00 (2006.01) C05B 13/02 (2006.01) C05B 17/00 (2006.01) C05F 1/02 (2006.01) C05F 11/02 (2006.01) C05G 1/00 (2006.01) C05G 3/00 (2020.01) C05G 5/00 (2020.01) C10B 53/02 (2006.01) C10B 57/06 (2006.01) C10B 57/14 (2006.01)**
[25] EN
[54] **IMPROVED FERTILISER**
[54] **ENGRAIS AMELIORE**
[72] WALKER, CHARLES NORMAN, AU
[72] HOGAN, NICHOLAS, AU
[72] DURACK, ELLEN, AU
[72] KHALIL, ROYA, AU
[72] HUGHES, TIMOTHY, AU
[71] INCITEC FERTILIZERS PTY LIMITED, AU
[85] 2021-12-16
[86] 2020-07-03 (PCT/AU2020/050701)
[87] (WO2021/000023)
[30] AU (2019902376) 2019-07-04
[30] AU (2020900981) 2020-03-31

[21] **3,145,543**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/24 (2006.01) G06F 1/16 (2006.01) G06F 3/041 (2006.01)**
[25] EN
[54] **TOUCH SCREEN DISPLAY SURFACE SANITIZATION USING ANTIMICROBIAL LIGHT**
[54] **NETTOYAGE DE SURFACE D'AFFICHAGE A ECRAN TACTILE A L'AIDE D'UNE LUMIERE ANTIMICROBIENNE**
[72] KRAUS, PAUL R., US
[72] BABEKIR, AMANI, US
[72] MCDOWELL, GINA, US
[72] PODTBURG, TERESA C., US
[71] ECOLAB USA INC., US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/040508)
[87] (WO2021/003276)
[30] US (62/870,267) 2019-07-03

[21] **3,145,544**
[13] A1
[51] **Int.Cl. C08L 33/04 (2006.01) B29C 65/40 (2006.01) B29C 65/54 (2006.01) C08J 3/24 (2006.01)**
[25] EN
[54] **THIOL-BASED ADHESIVE FORMULATIONS FOR REPAIRING WINDSHIELDS**
[54] **FORMULATIONS ADHESIVES A BASE DE THIOL POUR LA REPARATION DE PARES-BRISE**
[72] CHATTERTON, PENNY, US
[71] MONDOFIX INC., CA
[85] 2021-12-30
[86] 2020-07-10 (PCT/CA2020/050964)
[87] (WO2021/007658)
[30] US (62/873,208) 2019-07-12

[21] **3,145,546**
[13] A1
[51] **Int.Cl. F16H 9/18 (2006.01) F16H 55/56 (2006.01) F16H 61/662 (2006.01)**
[25] EN
[54] **UNIFORM CLAMP ACTUATED SHIFT INFINITELY VARIABLE TRANSMISSION SYSTEM**
[54] **SYSTEME DE TRANSMISSION A VARIATION CONTINUE ET A DECALAGE ACTIONNE PAR SERRAGE UNIFORME**
[72] BONHAM, BRANDON R., US
[72] OKESON, SHANE CLAIR, US
[71] TEAM INDUSTRIES, INC., US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/040442)
[87] (WO2021/003232)
[30] US (62/869,181) 2019-07-01

[21] **3,145,547**
[13] A1
[51] **Int.Cl. E21C 27/24 (2006.01) E21D 9/10 (2006.01)**
[25] EN
[54] **CUTTING APPARATUS**
[54] **APPAREIL DE COUPE**
[72] GIMPEL, MARTIN, AT
[72] KARGL, HUBERT, AT
[72] EBNER, BERNHARD, AT
[72] STABER, GUENTHER, AT
[71] SANDVIK MINING AND CONSTRUCTION G.M.B.H., AT
[85] 2021-12-30
[86] 2019-07-31 (PCT/EP2019/070578)
[87] (WO2021/018390)

[21] **3,145,548**
[13] A1
[51] **Int.Cl. F24F 7/06 (2006.01) F04D 29/70 (2006.01) F24F 7/007 (2006.01)**
[25] EN
[54] **COMPACT, HIGH-EFFICIENCY AIR HANDLING UNIT FOR RESIDENTIAL HVAC SYSTEMS**
[54] **UNITE DE TRAITEMENT D'AIR COMPACTE ET A HAUT RENDEMENT POUR SYSTEMES DE CVCA RESIDENTIELS**
[72] SARIMURAT, MEHMET NASIR, US
[72] DANG, THONG QUOC, US
[71] SYRACUSE UNIVERSITY, US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/040411)
[87] (WO2021/003211)
[30] US (62/869,172) 2019-07-01

[21] **3,145,550**
[13] A1
[51] **Int.Cl. D21C 3/20 (2006.01) C04B 24/04 (2006.01) C08F 22/26 (2006.01)**
[25] EN
[54] **KRAFT PULP MILL SCALE CONTROL WITH END GROUP MODIFIED POLYCARBOXYLATES**
[54] **REGULATION DES BATTITURES DE PATE KRAFT AVEC DES POLYCARBOXYLATES MODIFIES PAR DES GROUPES TERMINAUX**
[72] NICHOLSON, DANIEL JOSEPH, US
[72] BAKEEV, KIRILL N., US
[71] SOLENIS TECHNOLOGIES CAYMAN, L.P., KY
[85] 2021-12-29
[86] 2020-06-30 (PCT/US2020/040221)
[87] (WO2021/003115)
[30] US (62/869,235) 2019-07-01

[21] **3,145,551**
[13] A1
[51] **Int.Cl. A61B 1/05 (2006.01)**
[25] EN
[54] **AN ENDOSCOPE**
[54] **ENDOSCOPE**
[72] ZHANG, YI, CN
[71] SCIVITA MEDICAL TECHNOLOGY CO., LTD., CN
[85] 2021-12-30
[86] 2019-11-13 (PCT/CN2019/117812)
[87] (WO2021/000490)
[30] CN (201910600626.9) 2019-07-04

[21] **3,145,553**
[13] A1
[51] **Int.Cl. C09D 101/04 (2006.01) C09D 7/20 (2018.01) C09D 7/40 (2018.01) C09D 5/00 (2006.01) C09D 5/36 (2006.01) C09D 201/06 (2006.01) C09D 201/08 (2006.01)**
[25] EN
[54] **EFFECT PAINT FOR AUTOMOBILE**
[54] **MATERIAU DE REVETEMENT BRILLANT POUR AUTOMOBILE**
[72] SAKAI, KENJI, JP
[72] NARITA, NOBUHIKO, JP
[71] KANSAI PAINT CO., LTD., JP
[85] 2021-12-29
[86] 2020-06-17 (PCT/JP2020/023683)
[87] (WO2021/002196)
[30] JP (2019-124125) 2019-07-03
[30] JP (2020-010590) 2020-01-27

[21] **3,145,555**
[13] A1
[51] **Int.Cl. C07D 261/04 (2006.01) A61K 31/42 (2006.01) C07D 413/04 (2006.01) C07D 413/10 (2006.01) C07D 413/12 (2006.01) C07D 417/10 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS OF USE THEREOF AS ANTIBACTERIAL AGENTS**
[54] **COMPOSES ET LEURS PROCEDES D'UTILISATION EN TANT QU'AGENTS ANTIBACTERIENS**
[72] CROWLEY, BRENDAN M., US
[72] NANTERMET, PHILIPPE, US
[72] OLSEN, DAVID, US
[72] SUZUKI, TAKAO, CN
[71] MERCK SHARP & DOHME CORP., US
[85] 2021-12-30
[86] 2020-06-02 (PCT/CN2020/093887)
[87] (WO2021/000684)
[30] CN (PCT/CN2019/094601) 2019-07-03

[21] **3,145,558**
[13] A1
[51] **Int.Cl. G02C 7/04 (2006.01)**
[25] FR
[54] **SPIRAL DIOPTRE WITH MERIDIANS OF DIFFERENT OPTICAL POWER**
[54] **DIOPTRE SPIRALE A MERIDIENS DE PUISSANCES OPTIQUES DIFFERENTES**
[72] GALINIER, LAURENT, FR
[71] SPIRAL, FR
[85] 2021-12-29
[86] 2020-06-29 (PCT/EP2020/068196)
[87] (WO2020/260679)
[30] FR (FR1907112) 2019-06-28

[21] **3,145,562**
[13] A1
[51] **Int.Cl. A61B 10/02 (2006.01) A61B 17/00 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **HARVESTING CANCELLOUS BONE AND BONE MARROW USING BONE PRESS APPARATUS**
[54] **RECOLTE D'OS SPONGIEUX ET DE MOELLE OSSEUSE A L'AIDE D'UN APPAREIL DE PRESSE A OS**
[72] HIGHLANDER, PETER D., US
[72] HENSLER, ROBERT SEAN, US
[71] H & M INNOVATIONS, LLC, US
[85] 2021-12-29
[86] 2020-06-28 (PCT/US2020/040037)
[87] (WO2020/264463)
[30] US (62/868,855) 2019-06-28
[30] US (62/868,860) 2019-06-28

[21] **3,145,564**
[13] A1
[51] **Int.Cl. G01B 7/26 (2006.01) F17D 5/00 (2006.01) G01B 7/02 (2006.01) G01V 3/08 (2006.01) G01V 3/10 (2006.01) G01V 3/16 (2006.01)**
[25] EN
[54] **DETERMINATION OF THE AVERAGE DISTANCE BETWEEN A MEASUREMENT DEVICE AND A CONDUCTOR**
[54] **DETERMINATION DE LA DISTANCE MOYENNE D'UN EQUIPEMENT DE MESURE A UN CONDUCTEUR**
[72] WEISS, ROLAND, DE
[72] LIEPE, MIKE, DE
[72] WAKOLBINGER, STEFAN, AT
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2021-12-30
[86] 2020-06-16 (PCT/EP2020/066622)
[87] (WO2021/001145)
[30] EP (19183605.5) 2019-07-01

[21] **3,145,565**
[13] A1
[51] **Int.Cl. B29C 64/106 (2017.01) B29C 64/386 (2017.01)**
[25] EN
[54] **ADDITIVE MANUFACTURING OF IMPROVED THERMO-MECHANICAL COMPOSITE MATERIAL**
[54] **FABRICATION ADDITIVE D'UN MATERIAU COMPOSITE THERMOMECANIQUE AMELIORE**
[72] BILETZKY, ALIK, IL
[71] NANO-DIMENSION TECHNOLOGIES, LTD., IL
[85] 2021-12-29
[86] 2020-06-26 (PCT/US2020/039980)
[87] (WO2020/264419)
[30] US (62/866,854) 2019-06-26

[21] **3,145,567**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61K 48/00 (2006.01) A61P 27/16 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **OLIGOMERIC NUCLEIC ACID MOLECULE ACTIVATING ATOH1 GENE AND USE THEREOF**
[54] **MOLECULE D'ACIDE NUCLEIQUE OLIGOMERE ACTIVANT LE GENE ATOH1 ET SON UTILISATION**
[72] LI, LONGCHENG, CN
[72] KANG, MOORIM, CN
[71] RACTIGEN THERAPEUTICS, CN
[85] 2021-12-30
[86] 2020-07-03 (PCT/CN2020/100093)
[87] (WO2021/000928)
[30] CN (201910598221.6) 2019-07-04

[21] **3,145,568**
[13] A1
[51] **Int.Cl. F41J 2/00 (2006.01) F41H 11/02 (2006.01) F41J 9/08 (2006.01)**
[25] EN
[54] **DECOY TARGET, SYSTEM, AND METHOD FOR PROTECTING AN OBJECT**
[54] **CIBLE VIRTUELLE, SYSTEME ET PROCEDE POUR PROTEGER UN OBJET**
[72] MODEREGGER, TOBIAS, DE
[72] FEGG, MARTIN, DE
[71] RHEINMETALL WAFFE MUNITION GMBH, DE
[85] 2021-12-30
[86] 2020-05-20 (PCT/EP2020/064151)
[87] (WO2021/001089)
[30] DE (10 2019 117 801.0) 2019-07-02

[21] **3,145,569**
[13] A1
[51] **Int.Cl. C12N 1/12 (2006.01)**
[25] EN
[54] **METHOD FOR DEODORIZING ALGAE**
[54] **PROCEDE DE DESODORISATION D'ALGUES**
[72] KOFTIS, THEOCHARIS, V., GR
[72] NEOKOSMIDIS, EFSTRATIOS, GR
[72] TERZIDIS, MICHAEL, GR
[72] PANAGIOTIDIS, THEODOROS, GR
[72] ANDREOU, THANOS, GR
[72] VASTARDI, ELLI, GR
[72] ATHANASIADOU, FOTEINI, GR
[71] NANOALGAE SOLUTIONS AG, CH
[85] 2021-12-30
[86] 2020-07-01 (PCT/EP2020/025308)
[87] (WO2021/001058)
[30] EP (PCT/EP2019/025206) 2019-07-02

[21] **3,145,570**
[13] A1
[51] **Int.Cl. A45D 29/00 (2006.01) A45D 31/00 (2006.01) A61K 8/02 (2006.01) A61Q 3/00 (2006.01) A61Q 3/02 (2006.01) B32B 5/02 (2006.01)**
[25] EN
[54] **NAIL PRODUCTS, METHODS OF USE AND KITS**
[54] **PRODUITS A ONGLES, PROCEDES D'UTILISATION ET KITS**
[72] OSBY, TONIA, US
[71] LUCYPOP, INC., US
[85] 2021-12-29
[86] 2020-06-25 (PCT/US2020/039573)
[87] (WO2020/264129)
[30] US (62/866,049) 2019-06-25

[21] **3,145,572**
[13] A1
[51] **Int.Cl. B65D 5/54 (2006.01)**
[25] EN
[54] **SHIPPERS WITH VARIABLE DEPTH**
[54] **CARTON D'EXPEDITION A PROFONDEUR VARIABLE**
[72] SIMPKINS, KEVIN M., US
[71] WESTROCK SHARED SERVICES, LLC, US
[85] 2021-12-29
[86] 2020-06-24 (PCT/US2020/039231)
[87] (WO2020/263885)
[30] US (16/455,215) 2019-06-27

[21] **3,145,573**
[13] A1
[51] **Int.Cl. C23D 5/08 (2006.01) C04B 41/86 (2006.01) C23D 13/00 (2006.01)**
[25] EN
[54] **REPAIR OF DEFECTS IN A GLASS OR GLASS-CERAMIC COATING ON A METALLIC OR CERAMIC SUBSTRATE INCLUDING THE SUBSTRATE SURFACE**
[54] **REPARATION D'IMPERFECTIONS DANS UN VERRE OU UN RECOUVREMENT VITROCERAMIQUE SUR UN SUBSTRAT METALLIQUE OU CERAMIQUE COMPRENANT LA SURFACE DU SUBSTRAT**
[72] KNAUF, OLIVER, DE
[71] OMERAS GMBH OBERFLACHENVEREDELUNG UND METALLVERARBEITUNG, DE
[85] 2021-12-30
[86] 2020-06-29 (PCT/EP2020/068256)
[87] (WO2021/004823)
[30] EP (19184905.8) 2019-07-08

[21] **3,145,575**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01)**
[25] EN
[54] **BIOTIN-STREPTAVIDIN CLEAVAGE COMPOSITION AND LIBRARY FRAGMENT CLEAVAGE**
[54] **COMPOSITION DE CLIVAGE DE BIOTINE-STREPTAVIDINE ET CLIVAGE DE FRAGMENTS DE BIBLIOTHEQUE**
[72] CAO, DAN, US
[72] FISHER, JEFFREY S., US
[72] KAPER, FIONA, US
[72] KHURANA, TARUN KUMAR, US
[72] LIU, TONG, US
[72] OKUMUS, BURAK, US
[72] QUIJANO, VICTOR J., US
[72] WANG, CLIFFORD LEE, US
[72] WU, YIR-SHYUAN, US
[72] XIAO, SHI MIN, US
[72] XU, HONGXIA, US
[71] ILLUMINA, INC., US
[85] 2021-12-29
[86] 2021-02-02 (PCT/US2021/016228)
[87] (WO2021/158556)
[30] US (62/969,440) 2020-02-03

[21] **3,145,576**
[13] A1
[51] **Int.Cl. A61N 1/05 (2006.01)**
[25] EN
[54] **IMPROVED SURGICAL ELECTRODE AND LEAD FOR USE WITH IMPLANTED PULSE GENERATOR AND METHOD OF USE**
[54] **ELECTRODE CHIRURGICALE AMELIOREE ET FIL DESTINE A ETRE UTILISE AVEC UN GENERATEUR D'IMPULSIONS IMPLANTE ET PROCEDE D'UTILISATION**
[72] WOLF II, ERICH W., US
[71] WAVEGATE CORPORATION, US
[85] 2021-12-29
[86] 2020-07-01 (PCT/US2020/070224)
[87] (WO2021/003496)
[30] US (62/869,372) 2019-07-01
[30] US (62/869,397) 2019-07-01
[30] US (62/869,377) 2019-07-01
[30] US (16/946,715) 2020-07-01
[30] US (16/946,716) 2020-07-01
[30] US (16/946,714) 2020-07-01

[21] **3,145,577**
[13] A1
[51] **Int.Cl. H01R 43/042 (2006.01) H01R 43/045 (2006.01)**
[25] EN
[54] **MAGAZINE FOR PROCESSING WIRE TERMINATIONS AND HAND TOOL FOR CRIMPING WIRE TERMINATIONS**
[54] **MAGASIN POUR LE TRAITEMENT DE TERMINAISONS FILAIRES ET OUTIL A MAIN POUR LE CREPAGE DES TERMINAISONS FILAIRES**
[72] KORSMEIER, JONAS, DE
[72] KLAGES, KILIAN, DE
[72] FRISCHEMEIER, JENS, DE
[72] OLDENBURGER, TOBIAS, DE
[71] PHOENIX CONTACT GMBH & CO. KG, DE
[85] 2021-12-30
[86] 2020-06-29 (PCT/EP2020/068288)
[87] (WO2021/001321)
[30] DE (10 2019 117 856.8) 2019-07-02

[21] **3,145,578**
[13] A1
[51] **Int.Cl. E21B 7/06 (2006.01) E21B 17/10 (2006.01)**
[25] EN
[54] **STEERING ACTUATION MECHANISM**
[54] **MECANISME D'ACTIONNEMENT DE DIRECTION**
[72] CHAMBERS, LARRY DELYNN, US
[72] ZHANG, LIZHENG, US
[72] DEOLALIKAR, NEELESH, US
[72] ZHANG, WEI, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-12-29
[86] 2020-09-08 (PCT/US2020/049745)
[87] (WO2021/061395)
[30] US (62/905,800) 2019-09-25
[30] US (17/014,806) 2020-09-08

[21] **3,145,579**
[13] A1
[51] **Int.Cl. C07D 403/04 (2006.01) C07D 498/10 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING (S)-3-HYDROXY-1-(1H-INDOL-5-YL)-2-OXO-PYRROLIDINE-3-CARBOXYLIC ACID 3,5-DIFLUORO-BENZYLAMIDE**
[54] **PROCEDE DE FABRICATION DE 3,5-DIFLUORO-BENZYLAMIDE D'ACIDE (S)-3-HYDROXY-1-(1H-INDOL-5-YL)-2-OXO-PYRROLIDINE-3-CARBOXYLIQUE**
[72] HEINRICH, TIMO, DE
[72] SEENISAMY, JEYAPRAKASHNARAYANAN, IN
[71] MERCK PATENT GMBH, DE
[85] 2021-12-30
[86] 2020-06-30 (PCT/EP2020/068317)
[87] (WO2021/001328)
[30] EP (19184056.0) 2019-07-03

[21] **3,145,580**
[13] A1
[51] **Int.Cl. A61J 3/00 (2006.01) A61K 9/22 (2006.01) A61M 1/00 (2006.01) A61M 3/00 (2006.01) A61M 11/06 (2006.01) A61M 15/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR DELIVERY OF SUBSTANCES WITHIN A PREFILLED SYRINGE**
[54] **DISPOSITIFS ET PROCEDES DE DISTRIBUTION DE SUBSTANCES DANS UNE SERINGUE PRE-REMPLIE**
[72] MEYERS, PAUL F., US
[72] ROE, MICHAEL J., US
[71] KALEO, INC., US
[85] 2021-12-29
[86] 2020-08-07 (PCT/US2020/045467)
[87] (WO2021/030210)
[30] US (62/885,012) 2019-08-09

[21] **3,145,581**
[13] A1
[51] **Int.Cl. A01N 43/80 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITIONS**
[54] **COMPOSITIONS HERBICIDES**
[72] LORENTZ, LOTHAR, DE
[72] HAAF, KLAUS BERNHARD, DE
[72] TRABOLD, KLAUS, DE
[72] MENNE, HUBERT, DE
[72] GATZWEILER, ELMAR, DE
[72] ROSINGER, CHRISTOPHER HUGH, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2021-12-30
[86] 2020-06-26 (PCT/EP2020/068003)
[87] (WO2021/001273)
[30] EP (19184436.4) 2019-07-04

[21] **3,145,582**
[13] A1
[25] EN
[54] **EXTENSION FOR TARGETED INVALIDATION OF CACHED ASSETS**
[54] **EXTENSION POUR INVALIDATION CIBLEE D'ACTIFS MIS EN CACHE**
[72] NEWTON, CHRISTOPHER, US
[71] NETFLIX, INC., US
[85] 2021-12-29
[86] 2020-07-16 (PCT/US2020/042299)
[87] (WO2021/011758)
[30] US (62/875,475) 2019-07-17
[30] US (16/926,555) 2020-07-10

[21] **3,145,587**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **A DAMAGE DETECTION APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE DETECTION DE DOMMAGES**
[72] POPOV, IVAYLO, GB
[72] PACHOV, GEORGI, GB
[72] CLANCY, TOM, GB
[71] OCADO INNOVATION LIMITED, GB
[85] 2021-12-30
[86] 2020-06-30 (PCT/EP2020/068332)
[87] (WO2021/001337)
[30] GB (1909578.5) 2019-07-03

[21] **3,145,592**
[13] A1
[51] **Int.Cl. C07D 333/38 (2006.01) A01N 43/10 (2006.01) A01N 53/00 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **SUBSTITUTED THIOPHENE CARBOXAMIDES AND DERIVATIVES THEREOF AS MICROBICIDES**
[54] **THIOPHENE CARBOXAMIDES SUBSTITUES ET LEURS DERIVES COMME MICROBICIDES**
[72] DUFOUR, JEREMY, FR
[72] NICOLAS, LIONEL, FR
[72] TSUCHIYA, TOMOKI, FR
[72] BERNIER, DAVID, FR
[72] KNOBLOCH, THOMAS, FR
[72] BRUNET, STEPHANE, FR
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2021-12-30
[86] 2020-06-30 (PCT/EP2020/068324)
[87] (WO2021/001331)
[30] EP (19184093.3) 2019-07-03

[21] **3,145,593**
[13] A1
[51] **Int.Cl. B42F 7/12 (2006.01)**
[25] EN
[54] **STACKABLE TRAY AND STACKABLE FOLDER FOR FILING**
[54] **PLATEAU ET CHEMISE EMPILABLES POUR ARCHIVAGE**
[72] CRUZ CERDA, FELIPE ALBERTO, DO
[71] CRUZ CERDA, FELIPE ALBERTO, DO
[85] 2021-12-30
[86] 2020-08-12 (PCT/DO2020/050004)
[87] (WO2021/028004)
[30] DO (P2019-0208) 2019-08-14

[21] **3,145,594**
[13] A1
[51] **Int.Cl. A01N 43/90 (2006.01) A01P 1/00 (2006.01) A41D 13/11 (2006.01) A61L 2/08 (2006.01) D06M 13/188 (2006.01) C09B 47/32 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL DYES FOR FACEMASKS**
[54] **COLORANTS ANTIMICROBIENS POUR MASQUES FACIAUX**
[72] WILKINSON, MARK, GB
[72] WIGHT, PAUL, GB
[71] CHEMICAL INTELLIGENCE LIMITED, GB
[85] 2021-12-30
[86] 2020-07-01 (PCT/EP2020/068558)
[87] (WO2021/001441)
[30] EP (19183701.2) 2019-07-01

[21] **3,145,595**
[13] A1
[51] **Int.Cl. D06P 1/14 (2006.01) A41D 31/30 (2019.01) A41D 13/11 (2006.01) A41D 13/12 (2006.01) A41D 31/02 (2019.01) A61L 2/16 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL DYES FOR HEALTHCARE APPAREL**
[54] **COLORANTS ANTIMICROBIENS POUR VETEMENTS DE SOINS DE SANTE**
[72] WILKINSON, MARK, GB
[72] WIGHT, PAUL, GB
[71] CHEMICAL INTELLIGENCE LIMITED, GB
[85] 2021-12-30
[86] 2020-07-01 (PCT/EP2020/068562)
[87] (WO2021/001445)
[30] EP (19183704.6) 2019-07-01

[21] **3,145,597**
[13] A1
[51] **Int.Cl. A01G 9/20 (2006.01) A01G 9/24 (2006.01) F21S 11/00 (2006.01) F21S 19/00 (2006.01)**
[25] EN
[54] **LIGHTING DEVICE AND LIGHTING METHOD FOR AT LEAST ONE PLANT**
[54] **DISPOSITIF D'ECLAIRAGE ET PROCEDE D'ECLAIRAGE POUR AU MOINS UNE PLANTE**
[72] LANGLE, THOMAS, DE
[72] SEIFFER, DIRK, DE
[72] REIMANN, ANDREAS, DE
[72] VOGEL, SIMON, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2021-12-30
[86] 2020-07-03 (PCT/EP2020/068807)
[87] (WO2021/004932)
[30] DE (10 2019 209 916.5) 2019-07-05

[21] **3,145,601**
[13] A1
[51] **Int.Cl. C12N 5/077 (2010.01) C12N 5/0775 (2010.01) C07K 14/705 (2006.01)**
[25] EN
[54] **METHOD OF DETERMINING OR INFLUENCING THE CHONDROGENIC POTENTIAL OF MESENCHYMAL STROMAL CELLS**
[54] **PROCEDE POUR DETERMINER OU INFLUENCER LE POTENTIEL CHONDROGENIQUE DE CELLULES STROMALES MESENCHYMATEUSES**
[72] STODDART, MARTIN, CH
[72] ALINI, MAURO, CH
[71] AO TECHNOLOGY AG, CH
[85] 2021-12-30
[86] 2020-07-03 (PCT/EP2020/068848)
[87] (WO2021/001542)
[30] EP (19184241.8) 2019-07-03

[21] **3,145,604**
[13] A1
[51] **Int.Cl. B60M 1/13 (2006.01) B60M 1/23 (2006.01)**
[25] EN
[54] **OVERHEAD LINE SYSTEM**
[54] **SYSTEME DE LIGNE AERIENNE**
[72] LEE, BRUN, GB
[71] BRECKNELL, WILLIS & CO. LIMITED, GB
[85] 2021-12-30
[86] 2020-07-02 (PCT/GB2020/051589)
[87] (WO2021/001654)
[30] GB (1909524.9) 2019-07-02

[21] **3,145,612**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **BASE STATION APPARATUS, TERMINAL, AND TRANSMISSION METHOD**
[54] **APPAREIL DE STATION DE BASE, TERMINAL ET METHODE DE TRANSMISSION**
[72] TAKAHASHI, HIDEAKI, JP
[72] MATSUMURA, YUKI, JP
[71] NTT DOCOMO, INC., JP
[85] 2021-12-30
[86] 2019-07-10 (PCT/JP2019/027409)
[87] (WO2021/005763)

[21] **3,145,613**
[13] A1
[51] **Int.Cl. A61K 31/122 (2006.01) A61K 36/9066 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **COMPOSITION FOR LOWERING BLOOD GLUCOSE LEVEL, REDUCING BLOOD HEMOGLOBIN A1C CONTENT, OR INCREASING BLOOD HDL-CHOLESTEROL CONTENT**
[54] **COMPOSITION VISANT A ABAISSER LE TAUX DE GLYCEMIE, REDUIRE LA CONCENTRATION SANGUINE D'HEMOGLOBINE A1C OU AUGMENTER LA CONCENTRATION SANGUINE DE CHOLESTEROL HDL**
[72] UCHIO, RYUSEI, JP
[72] MUROYAMA, KOUTAROU, JP
[72] KAWASAKI, KENGO, JP
[72] MUROSAKI, SHINJI, JP
[71] HOUSE WELLNESS FOODS CORPORATION, JP
[85] 2021-12-30
[86] 2020-06-29 (PCT/JP2020/025571)
[87] (WO2021/002335)
[30] JP (2019-122895) 2019-07-01

[21] **3,145,615**
[13] A1
[51] **Int.Cl. C08G 73/04 (2006.01) C08G 63/91 (2006.01) C08G 69/48 (2006.01) C08G 73/02 (2006.01) C10L 1/238 (2006.01) C10L 10/16 (2006.01) C10M 159/12 (2006.01)**
[25] EN
[54] **POUR POINT DEPRESSANT**
[54] **ABAISSEUR DE POINT D'ECOULEMENT**
[72] OKKEL, ANDREAS, DE
[72] VON HAAREN, JAN, DE
[72] GIEBELHAUS, IRINA, DE
[72] BOMER, JORG, DE
[72] LORENZ, MARKUS, DE
[72] STANNEK, PETER WALTER, DE
[72] SCRANTON, STACY, DE
[72] HEITZER, JENNIFER, DE
[71] BYK-CHEMIE GMBH, DE
[85] 2021-12-30
[86] 2020-07-06 (PCT/EP2020/068953)
[87] (WO2021/004991)
[30] EP (19185035.3) 2019-07-08

[21] **3,145,616**
[13] A1
[51] **Int.Cl. A23J 3/14 (2006.01) A23L 11/00 (2021.01) A23J 1/14 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING MODIFIED PEA PROTEIN**
[54] **PROCEDE DE PRODUCTION D'UNE PROTEINE DE POIS MODIFIEE**
[72] TAKAYANAGI, HIROSHI, JP
[72] NAKAGOSHI, HIROYUKI, JP
[72] ISHIDA, RIKIYA, JP
[71] AJINOMOTO CO., INC., JP
[71] AMANO ENZYME INC., JP
[85] 2021-12-30
[86] 2020-07-02 (PCT/JP2020/026034)
[87] (WO2021/002435)
[30] JP (2019-124836) 2019-07-03
[30] JP (2020-054915) 2020-03-25

[21] **3,145,617**
[13] A1
[51] **Int.Cl. A23J 3/14 (2006.01) A23L 11/00 (2021.01) A23J 1/14 (2006.01)**
[25] EN
[54] **MODIFIED PEA PROTEIN PRODUCTION METHOD**
[54] **PROCEDE DE PRODUCTION DE PROTEINE DE POIS MODIFIEE**
[72] TAKAYANAGI, HIROSHI, JP
[72] NAKAGOSHI, HIROYUKI, JP
[72] ISHIDA, RIKIYA, JP
[71] AJINOMOTO CO., INC., JP
[85] 2021-12-30
[86] 2020-07-02 (PCT/JP2020/026035)
[87] (WO2021/002436)
[30] JP (2019-124835) 2019-07-03

[21] **3,145,619**
[13] A1
[51] **Int.Cl. C07H 15/256 (2006.01) A23L 27/00 (2016.01) A23L 27/30 (2016.01) A23L 33/125 (2016.01) A23L 2/60 (2006.01)**
[25] EN
[54] **NOVEL STEVIOL GLYCOSIDE, METHOD FOR PRODUCING SAME, AND SWEETENER COMPOSITION CONTAINING SAME**
[54] **NOUVEAU GLYCOSIDE DE STEVIOL, SON PROCEDE DE PRODUCTION ET COMPOSITION D'EDULCORANT LE CONTENANT**
[72] URAI, SOICHIRO, JP
[72] IWAKI, KAZUNARI, JP
[72] MIYAGAWA, KATSURO, JP
[72] HIRAI, TADAYOSHI, JP
[72] NAGAO, KOJI, JP
[72] YOKOO, YOSHIAKI, JP
[72] WATANABE, TAKEHIRO, JP
[72] FUJIKAWA, KOHKI, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2021-12-30
[86] 2020-07-30 (PCT/JP2020/029271)
[87] (WO2021/020516)
[30] JP (2019-141627) 2019-07-31

[21] **3,145,620**
[13] A1
[51] **Int.Cl. C12Q 1/6881 (2018.01) A61K 31/713 (2006.01) A61K 39/00 (2006.01) C07K 14/74 (2006.01)**
[25] EN
[54] **HLA-H IN MEDICINE AND DIAGNOSTICS**
[54] **HLA-H EN MEDECINE ET DIAGNOSTIC**
[72] WURFEL, WOLFGANG, DE
[72] WIRTZ, RALPH MARKUS, DE
[72] WINTERHALTER, CHRISTOPH, DE
[72] WURFEL, FRANZISKA, DE
[71] INTELLEXON GMBH, DE
[85] 2021-12-30
[86] 2020-07-06 (PCT/EP2020/068989)
[87] (WO2021/005001)
[30] EP (19184729.2) 2019-07-05

[21] **3,145,622**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01) A61K 38/47 (2006.01) A61K 38/48 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) A61P 43/00 (2006.01) C12N 9/24 (2006.01) C12N 15/52 (2006.01) C12N 15/56 (2006.01) C12N 15/57 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **MODIFIED NEURAMINIDASE**
[54] **NEURAMINIDASE MODIFIEE**
[72] ITOH, KOHJI, JP
[72] TSUKIMOTO, JUN, JP
[71] TOKUSHIMA UNIVERSITY, JP
[85] 2021-12-29
[86] 2020-07-03 (PCT/JP2020/026174)
[87] (WO2021/006202)
[30] JP (2019-126376) 2019-07-05

[21] **3,145,624**
[13] A1
[51] **Int.Cl. B07B 1/28 (2006.01) B07B 1/52 (2006.01) B28B 1/30 (2006.01) B65G 45/18 (2006.01)**
[25] EN
[54] **BUILDING MATERIAL MANUFACTURING APPARATUS**
[54] **APPAREIL DE FABRICATION DE MATERIAU DE CONSTRUCTION**
[72] HATTORI, TAKAHIRO, JP
[72] NISHIOKA, HIDENORI, JP
[71] NICHIHA CORPORATION, JP
[85] 2021-12-30
[86] 2020-08-31 (PCT/JP2020/032819)
[87] (WO2021/059871)
[30] JP (2019-175871) 2019-09-26

[21] **3,145,626**
[13] A1
[51] **Int.Cl. B28D 1/24 (2006.01) B28D 7/04 (2006.01)**
[25] EN
[54] **MANUAL CERAMICS CUTTER WITH DETACHABLE ACCESSORIES**
[54] **CARRELETTE MANUELLE A CERAMIQUE A ACCESSOIRES DEMONTABLES**
[72] MARTINEZ GALINDO, DAVID, ES
[71] GERMANS BOADA, S.A., ES
[85] 2021-12-30
[86] 2020-04-16 (PCT/ES2020/070243)
[87] (WO2021/209651)

[21] **3,145,628**
[13] A1
[51] **Int.Cl. C12N 15/117 (2010.01) A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 39/39 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **NOVEL RIBONUCLEIC ACID AND PHARMACEUTICAL COMPOSITION BASED ON THE SAME**
[54] **NOUVEL ACIDE RIBONUCLEIQUE ET COMPOSITION PHARMACEUTIQUE A BASE DE CELUI-CI**
[72] KIM, DONG HO, KR
[72] KANG, MYUNG SOO, KR
[71] NA VACCINE INSTITUTE, KR
[85] 2021-12-29
[86] 2020-07-01 (PCT/KR2020/008623)
[87] (WO2021/002688)
[30] KR (10-2019-0079470) 2019-07-02
[30] KR (10-2019-0153760) 2019-11-26
[30] KR (10-2020-0037711) 2020-03-27

[21] **3,145,629**
[13] A1
[51] **Int.Cl. A61C 7/04 (2006.01) A61C 7/12 (2006.01)**
[25] EN
[54] **ORTHODONTIC APPLIANCE AND PLIERS FOR ORTHODONTICS**
[54] **APPAREIL ORTHODONTIQUE ET PINCES ORTHODONTIQUES**
[72] ITSUKI, YASUHIRO, JP
[71] ITSUKI, YASUHIRO, JP
[71] OKADA MEDICAL SUPPLY CO., LTD., JP
[85] 2021-12-30
[86] 2021-05-18 (PCT/JP2021/018855)
[87] (WO2021/256148)
[30] JP (2020-106351) 2020-06-19
[30] JP (2020-204729) 2020-12-10

[21] **3,145,630**
[13] A1
[51] **Int.Cl. B28D 1/22 (2006.01) B28D 1/24 (2006.01) B28D 7/04 (2006.01)**
[25] EN
[54] **MANUAL CERAMIC CUTTER WITH ADJUSTABLE SET-SQUARE**
[54] **OUTIL DE COUPE MANUEL DE CERAMIQUE A EQUERRE REGLABLE**
[72] SOLER BALCELLS, JORDI, ES
[71] GERMANS BOADA, S.A., ES
[85] 2021-12-30
[86] 2020-04-27 (PCT/ES2020/070265)
[87] (WO2021/219900)

[21] **3,145,631**
[13] A1
[51] **Int.Cl. A47K 10/32 (2006.01) A47K 10/22 (2006.01) A47K 10/34 (2006.01) A47K 10/38 (2006.01) B65H 23/00 (2006.01)**
[25] EN
[54] **SENSING ARRANGEMENT FOR INDICATING THE DEPLETION OF A CORELESS ROLL OF ABSORBENT PAPER WEB MATERIAL IN A DISPENSER, A DISPENSER AND A METHOD FOR ARRANGING A CORELESS ROLL**
[54] **DISPOSITIF DE DETECTION DE SIGNALEMENT DE FIN DE ROULEAU SANS MANDRIN DE FEUILLE DE PAPIER ABSORBANT CONTINUE DANS UN DISTRIBUTEUR, DISTRIBUTEUR ET PROCEDE D'AGENCEMENT D'UN ROULE AU SANS MANDRIN**
[72] ELLIOTT, ADAM T., US
[72] KASILAG, CHRISTIAN, US
[72] WARD, DON, US
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2021-12-29
[86] 2019-11-18 (PCT/SE2019/051170)
[87] (WO2021/101422)

[21] **3,145,632**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 31/135 (2006.01) A61K 31/192 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **COMBINATION OF IBUPROFEN AND TRAMADOL FOR RELIEVING PAIN**
[54] **COMBINAISON D'IBUPROFENE ET DE TRAMADOL POUR SOULAGER LA DOULEUR**
[72] PORTOLES PEREZ, ANTONIO, ES
[72] SANTE SERNA, LUIS NARCISO, ES
[72] SALAS BUTRON, MARIA DEL ROSARIO, ES
[72] VARGAS CASTRILLON, EMILIO, ES
[72] CALANDRIA PEREZ, CARLOS, ES
[72] HORCAJADA CORDOBA, RAQUEL, ES
[72] MUNOZ RUIZ, ANGEL JOSE, ES
[72] VICARIO DE LA TORRE, MARTA, ES
[72] SANZ MENENDEZ, NURIA, ES
[72] GOMEZ CALVO, ANTONIA, ES
[72] SANCHEZ GARCIA, JOSE ANGEL, ES
[72] DUART GONZALEZ, ESTER, ES
[72] GARCIA ALONSO, FERNANDO, ES
[71] FARMALIDER, S.A., ES
[85] 2021-12-30
[86] 2020-07-08 (PCT/EP2020/069306)
[87] (WO2021/005129)
[30] EP (19382583.3) 2019-07-09

[21] **3,145,633**
[13] A1
[51] **Int.Cl. A61H 31/00 (2006.01) A61G 13/12 (2006.01)**
[25] EN
[54] **DEVICE FOR CARDIO-PULMONARY RESUSCITATION OF A PATIENT**
[54] **DISPOSITIF POUR LA REANIMATION CARDIOPULMONAIRE D'UN PATIENT**
[72] FERRERO LINDLAU, ADOLFO, ES
[71] DISENO Y PRODUCCION DE SISTEMAS RCP S.L., ES
[85] 2021-12-30
[86] 2020-07-13 (PCT/ES2020/070454)
[87] (WO2021/009403)
[30] ES (U201931210) 2019-07-15

[21] **3,145,634**
[13] A1
[51] **Int.Cl. A41D 1/215 (2018.01) A41C 3/04 (2006.01) A61F 13/14 (2006.01)**
[25] EN
[54] **ABSORBENT COMPONENT**
[54] **COMPOSANT ABSORBANT**
[72] KANDEGEDARA, DEEYAYAWATHTHE GEDARA RUMESH MAHELA, LK
[72] UPAMAL, MALNAIDA MARAKKALA AMITHA, LK
[72] DE SILVA, AGAMPODI SHYAMAL AKILA, LK
[71] MAS INNOVATION (PRIVATE) LIMITED, LK
[85] 2021-12-29
[86] 2020-09-07 (PCT/SG2020/050519)
[87] (WO2021/118455)
[30] GB (1918310.2) 2019-12-12

[21] **3,145,635**
[13] A1
[51] **Int.Cl. C12N 9/16 (2006.01) C08J 11/10 (2006.01) C12N 9/18 (2006.01) C12N 15/55 (2006.01) C12P 7/00 (2006.01)**
[25] EN
[54] **ESTERASES AND USES THEREOF**
[54] **ESTERASES ET LEURS UTILISATIONS**
[72] MARTY, ALAIN, FR
[72] TOURNIER, VINCENT, FR
[71] CARBIOS, FR
[85] 2021-12-30
[86] 2020-07-10 (PCT/EP2020/069499)
[87] (WO2021/005198)
[30] EP (19185789.5) 2019-07-11

[21] **3,145,636**
[13] A1
[51] **Int.Cl. E21B 33/072 (2006.01)**
[25] EN
[54] **SELF-CONTAINED WELL INTERVENTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'INTERVENTION DE PUITS AUTONOME**
[72] TURNER, ROBERT JOHN, SA
[72] BOULDIN, BRETT, SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-12-29
[86] 2020-07-09 (PCT/US2020/041362)
[87] (WO2021/011291)
[30] US (16/510,202) 2019-07-12

[21] **3,145,637**
[13] A1
[51] **Int.Cl. C08H 7/00 (2011.01) C08J 3/24 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING STABILIZED LIGNIN HAVING A HIGH SPECIFIC SURFACE**
[54] **PROCEDE DE FABRICATION D'UNE LIGNINE STABILISEE A HAUTE SURFACE SPECIFIQUE**
[72] WITTMANN, TOBIAS, DE
[72] PODSCHUN, JACOB, DE
[71] SUNCOAL INDUSTRIES GMBH, DE
[85] 2021-12-30
[86] 2020-07-10 (PCT/EP2020/069628)
[87] (WO2021/005230)
[30] DE (10 2019 210 199.2) 2019-07-10

[21] **3,145,639**
[13] A1
[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/32 (2006.01) C08L 75/04 (2006.01) C09D 5/08 (2006.01) C09D 175/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR METAL-PRETREATMENT**
[54] **COMPOSITIONS ET PROCEDES DE PRETRAITEMENT DE METAUX**
[72] QIU, XUETING, US
[72] SCHOCK, STUART, US
[71] CHEMETALL GMBH, DE
[85] 2021-12-30
[86] 2020-07-15 (PCT/EP2020/069922)
[87] (WO2021/009186)
[30] EP (19186187.1) 2019-07-15

[21] **3,145,640**
[13] A1
[51] **Int.Cl. A61F 2/44 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **INTERVERTEBRAL IMPLANT FOR QUADRUPEDS**
[54] **IMPLANT INTERVERTEBRAL POUR QUADRUPEDES**
[72] BORDEAUX, JEAN-NOEL, US
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2021-12-30
[86] 2020-06-09 (PCT/IB2020/055426)
[87] (WO2021/001709)
[30] US (16/502,954) 2019-07-03

[21] **3,145,642**
[13] A1
[51] **Int.Cl. B23K 26/342 (2014.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 50/02 (2015.01) B23K 9/04 (2006.01) B23K 10/00 (2006.01) B23K 10/02 (2006.01) B23K 26/04 (2014.01)**
[25] EN
[54] **STANDOFF DISTANCE MONITORING AND CONTROL FOR DIRECTED ENERGY DEPOSITION ADDITIVE MANUFACTURING SYSTEMS**
[54] **SURVEILLANCE ET COMMANDE DE DISTANCE D'ECARTEMENT POUR SYSTEMES DE FABRICATION ADDITIVE PAR DEPOT D'ENERGIE DIRIGEE**
[72] BURLA, AVINASH, NO
[72] FORBORD, JON, NO
[72] REZAPOUR, EHSAN, NO
[72] ALMEIDA, PEDRO, NO
[71] NORSK TITANIUM AS, NO
[85] 2021-12-30
[86] 2020-07-01 (PCT/EP2020/068534)
[87] (WO2021/001429)
[30] US (62/870,289) 2019-07-03

[21] **3,145,643**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01)**
[25] EN
[54] **PROGRESSING ASPIRATION PUMP IN A SURGICAL SYSTEM**
[54] **POMPE D'ASPIRATION PROGRESSIVE DANS UN SYSTEME CHIRURGICAL**
[72] SUSSMAN, MATTHEW A., US
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2021-12-30
[86] 2020-06-29 (PCT/IB2020/056123)
[87] (WO2021/001742)
[30] US (62/869,519) 2019-07-01

[21] **3,145,644**
[13] A1
[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **PARP1 INHIBITORS**
[54] **INHIBITEURS DE PARP1**
[72] PACKER, MARTIN JOHN, GB
[72] JOHANNES, JEFFREY WALLACE, US
[72] HANDE, SUDHIR MAHADEO, US
[72] DEGORCE, SEBASTIEN LOUIS, US
[71] ASTRAZENECA AB, SE
[85] 2021-12-30
[86] 2020-07-17 (PCT/EP2020/070306)
[87] (WO2021/013735)
[30] US (62/876,065) 2019-07-19

[21] **3,145,645**
[13] A1
[51] **Int.Cl. A01K 61/55 (2017.01) A01K 61/54 (2017.01)**
[25] FR
[54] **CASE, COLUMN AND METHOD FOR BREEDING BIVALVES**
[54] **ECRIN, COLONNE ET PROCEDE D'ELEVAGE DE BIVALVES**
[72] CAMBON, PHILIPPE, FR
[72] CAMBON, CHRISTOPHE, FR
[71] EARL CAMBON & FILS, FR
[85] 2021-12-30
[86] 2020-07-01 (PCT/EP2020/068535)
[87] (WO2021/001430)
[30] FR (1907292) 2019-07-01

[21] **3,145,646**
[13] A1
[51] **Int.Cl. C10M 159/22 (2006.01)**
[25] EN
[54] **LUBRICATING OIL COMPOSITION**
[54] **COMPOSITION D'HUILE LUBRIFIANTE**
[72] TANAKA, ISAO, JP
[72] ONOUCHI, HISANARI, JP
[72] MILLER, JOHN ROBERT, US
[71] CHEVRON JAPAN LTD., JP
[71] CHEVRON ORONITE COMPANY LLC, US
[85] 2021-12-30
[86] 2020-07-01 (PCT/IB2020/056211)
[87] (WO2021/005457)
[30] US (62/870,844) 2019-07-05

[21] **3,145,647**
[13] A1
[51] **Int.Cl. D01F 11/02 (2006.01) D04H 1/4258 (2012.01) D01F 2/00 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF LYOCELL STAPLE FIBRES**
[54] **PROCEDE DE PRODUCTION DE FIBRES DISCONTINUES DE LYOCELL**
[72] SCHIRK, CHRISTIAN, AT
[72] SCHREMPF, CHRISTOPH, AT
[72] GUGERELL, FRANZ, AT
[71] LENZING AKTIENGESELLSCHAFT, AT
[85] 2021-12-30
[86] 2020-07-29 (PCT/EP2020/071378)
[87] (WO2021/023594)
[30] EP (19189737.0) 2019-08-02

[21] **3,145,650**
[13] A1
[51] **Int.Cl. E02F 3/92 (2006.01)**
[25] EN
[54] **DREDGING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE DRAGAGE**
[72] WARNER, JEREMY DAVID, GB
[71] HARWICH HAVEN AUTHORITY, GB
[85] 2021-12-30
[86] 2020-10-27 (PCT/EP2020/080155)
[87] (WO2021/099074)
[30] GB (1916776.6) 2019-11-18
[30] GB (2007660.0) 2020-05-22

[21] **3,145,652**
[13] A1
[51] **Int.Cl. D21H 11/20 (2006.01) B31B 50/59 (2017.01) B29C 51/08 (2006.01) B65B 43/08 (2006.01) C08B 1/08 (2006.01) C08L 1/02 (2006.01) D21H 11/02 (2006.01) D21H 11/16 (2006.01) D21H 15/04 (2006.01)**
[25] EN
[54] **MOLDABLE CELLULOSE FIBER BASED MATERIAL**
[54] **MATERIAU MOULABLE A BASE DE FIBRES DE CELLULOSE**
[72] SETALA, HARRI, FI
[72] KAMMIOVIRTA, KARI, FI
[72] LAINE, CHRISTIANE, FI
[72] HARLIN, ALI, FI
[72] HJELT, TUOMO, FI
[72] KOSKELA, HANNA, FI
[72] KETOJA, JUKKA, FI
[71] STORA ENSO OYJ, FI
[85] 2021-12-30
[86] 2020-07-02 (PCT/IB2020/056250)
[87] (WO2021/001779)
[30] SE (1950835-7) 2019-07-03

[21] **3,145,654**
[13] A1
[51] **Int.Cl. B01D 53/62 (2006.01) C01B 32/50 (2017.01) C01B 32/60 (2017.01) B01D 53/73 (2006.01) B01D 53/96 (2006.01) C01B 7/01 (2006.01) C01B 11/14 (2006.01) C01D 3/04 (2006.01) C01D 7/00 (2006.01) C25B 1/34 (2006.01)**
[25] EN
[54] **ALKALI -BASED REMOVAL OF 002 FROM GAS STREAMS WITH CO-GENERATION OF CHEMICALS**
[54] **ELIMINATION A BASE D'ALCALI DE 002 A PARTIR DE FLUX DE GAZ AVEC COGENERATION DE PRODUITS CHIMIQUES**
[72] LU, XIJIA, US
[72] FORREST, BROCK ALAN, US
[72] PALMER, MILES R., US
[71] 8 RIVERS CAPITAL, LLC, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/IB2020/056273)
[87] (WO2021/001787)
[30] US (62/870,187) 2019-07-03

[21] **3,145,655**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/88 (2006.01) A61B 17/90 (2006.01) A61F 2/08 (2006.01)**
[25] EN
[54] **TISSUE REPAIR DEVICE**
[54] **DISPOSITIF DE REPARATION TISSULAIRE**
[72] BEST, JOSHUA J., US
[72] LAVIANO, ANTHONY A., US
[72] JOHNSON, MATTHEW R., US
[72] INGWER, ZACHARY A., US
[72] ROQUE, SAMUEL B., US
[72] HELENBOLT, KENNETH T., US
[72] HOLMES, SILAS WENDELL JR., US
[72] OSIKA, ANDREW K., US
[71] ARTHREX, INC., US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040517)
[87] (WO2021/003281)
[30] US (62/869,806) 2019-07-02

[21] **3,145,656**
[13] A1
[51] **Int.Cl. C07K 1/18 (2006.01) C07K 1/20 (2006.01) C07K 1/22 (2006.01) C07K 14/565 (2006.01)**
[25] EN
[54] **METHOD FOR PURIFYING DIGLYCOSYLATED INTERFERON-BETA PROTEIN**
[54] **PROCEDE DE PURIFICATION D'UNE PROTEINE D'INTERFERON-BETA DIGLYCOSYLEE**
[72] CHOI, JUN YOUNG, KR
[72] KIM, NA YOUNG, KR
[72] HONG, SUNG HYUN, KR
[71] ABION INC., KR
[85] 2021-12-30
[86] 2020-07-07 (PCT/KR2020/008847)
[87] (WO2021/010638)
[30] KR (10-2019-0087244) 2019-07-18

[21] **3,145,657**
[13] A1
[51] **Int.Cl. B60T 13/14 (2006.01) B60T 13/22 (2006.01) B60T 17/22 (2006.01)**
[25] EN
[54] **VEHICLE BRAKING SYSTEM**
[54] **SYSTEME DE FREINAGE DE VEHICULE**
[72] GIEZING, CHRISTIAAN PETRUS, ZA
[72] EDER, LANCE, ZA
[71] COMPACTION TECHNOLOGY (PROPRIETARY) LIMITED, ZA
[85] 2021-12-30
[86] 2020-07-03 (PCT/IB2020/056287)
[87] (WO2021/001795)
[30] ZA (2019/04363) 2019-07-03
[30] ZA (2019/04364) 2019-07-03

[21] **3,145,658**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/506 (2006.01) A61K 9/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION OF IMATINIB.**
[54] **COMPOSITION PHARMACEUTIQUE D'IMATINIB.**
[72] DESAI, JWALANT VIJAYBHAI, IN
[72] SAXENA, MAYANK, IN
[72] JAMLOKI, ASHUTOSH, IN
[72] NAIDU, VENKATARAMANA, IN
[71] INTAS PHARMACEUTICALS LTD., IN
[85] 2021-12-30
[86] 2020-07-15 (PCT/IB2020/056641)
[87] (WO2021/009686)
[30] IN (201921028370) 2019-07-15

[21] **3,145,659**
[13] A1
[51] **Int.Cl. A61B 3/113 (2006.01) A61B 3/10 (2006.01) A61B 3/12 (2006.01)**
[25] EN
[54] **EYE TRACKING FIXATION MONITORING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE FIXATION DE DETECTION OCULAIRE**
[72] GRUNDIG, MARTIN, DE
[72] BIRKNER, SASCHA, DE
[71] ALCON INC., CH
[85] 2021-12-30
[86] 2020-08-12 (PCT/IB2020/057604)
[87] (WO2021/028856)
[30] US (62/886,510) 2019-08-14

[21] **3,145,661**
[13] A1
[51] **Int.Cl. A23L 33/10 (2016.01) A61K 31/665 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **COMPOSITION FOR PREVENTING OR TREATING PARKINSON'S DISEASE COMPRISING O-CYCLIC PHYTOSPHINGOSINE-1-PHOSPHATE**
[54] **COMPOSITION POUR LA PREVENTION OU LE TRAITEMENT DE LA MALADIE DE PARKINSON COMPRENANT DU O-CYCLIC PHYTOSPHINGOSINE-1-PHOSPHATE**
[72] HAN, WON KYO, KR
[72] PARK, YOUNG JUN, KR
[72] CHOI, MYEONG JUN, KR
[71] AXCESO BIOPHARMA CO.,LTD., KR
[85] 2021-12-30
[86] 2020-07-09 (PCT/KR2020/009015)
[87] (WO2021/006663)
[30] KR (10-2019-0083866) 2019-07-11

[21] **3,145,662**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) C12N 9/12 (2006.01) C12N 9/14 (2006.01) C12N 9/24 (2006.01) C12N 15/54 (2006.01) C12N 15/56 (2006.01) C12N 15/85 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **VECTOR COMPOSITIONS AND METHODS OF USING SAME FOR TREATMENT OF LYSOSOMAL STORAGE DISORDERS**
[54] **COMPOSITIONS DE VECTEURS ET LEURS PROCEDES D'UTILISATION POUR LE TRAITEMENT DE TROUBLES DU STOCKAGE LYSOSOMAL**
[72] DO, CUONG, US
[72] LIU, LIN, US
[71] M6P THERAPEUTICS, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040770)
[87] (WO2021/003442)
[30] US (62/869,781) 2019-07-02
[30] US (62/869,808) 2019-07-02

[21] **3,145,664**
[13] A1
[51] **Int.Cl. A61B 3/113 (2006.01) A61B 3/10 (2006.01) A61B 3/12 (2006.01)**
[25] EN
[54] **EYE TRACKING FIXATION MONITORING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE FIXATION DE SUIVI D'□IL**
[72] GRUNDIG, MARTIN, DE
[72] BIRKNER, SASCHA, DE
[71] ALCON INC., CH
[85] 2021-12-30
[86] 2020-08-12 (PCT/IB2020/057607)
[87] (WO2021/028858)
[30] US (62/886,517) 2019-08-14

[21] **3,145,666**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61K 35/644 (2015.01) A61K 36/61 (2006.01) A61P 1/04 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **USE OF A COMPOSITION COMPRISING 3,6,7-TRIMETHYLLUMAZINE FOR PREVENTING, AMELIORATING OR TREATING MMP-9 ASSOCIATED CONDITIONS AND INFLAMMATION**
[54] **UTILISATION D'UNE COMPOSITION COMPRENANT DE LA 3,6,7-TRIMETHYLLUMAZINE POUR PREVENIR, AMELIORER OU TRAITER DES ETATS ASSOCIES A UNE METALLOPROTEINASE MATRICIELLE-9 ET UNE INFLAMMA TION**
[72] THOTA, ROHITH, NZ
[72] BRIMBLE, MARGARET, NZ
[72] EVANS, JACQUELINE CAROL, NZ
[72] STEPHENS, JONATHAN MCDONALD COUNSELL, NZ
[72] LOOMES, KERRY, NZ
[72] LIN, BIN, NZ
[71] COMVITA LIMITED, NZ
[85] 2021-12-30
[86] 2020-07-03 (PCT/NZ2020/050065)
[87] (WO2021/002763)
[30] NZ (755138) 2019-07-04

[21] **3,145,667**
[13] A1
[51] **Int.Cl. C07K 16/24 (2006.01)**
[25] EN
[54] **ANTIBODIES AND ASSAYS FOR CCL14**
[54] **ANTICORPS ET DOSAGES POUR CCL14**
[72] VIJAYENDRAN, RAVI A., US
[72] WANG, HUA, US
[71] ASTUTE MEDICAL, INC., US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040520)
[87] (WO2021/003284)
[30] US (62/869,803) 2019-07-02

[21] **3,145,668**
[13] A1
[51] **Int.Cl. A23L 27/30 (2016.01) A23L 33/21 (2016.01) A23L 2/60 (2006.01)**
[25] EN
[54] **SUGAR SUBSTITUTE COMPOSITIONS**
[54] **COMPOSITIONS DE SUBSTITUT DU SUCRE**
[72] DIZER, DANNY, IL
[71] SWEET BALANCE LTD, IL
[85] 2021-12-30
[86] 2020-06-30 (PCT/IL2020/050725)
[87] (WO2021/001820)
[30] US (62/869,618) 2019-07-02

[21] **3,145,669**
[13] A1
[51] **Int.Cl. G21C 11/08 (2006.01) F16L 59/12 (2006.01)**
[25] EN
[54] **DEVICE FOR INSTALLATION OF THE OUTER HEAT INSULATION OF A NUCLEAR REACTOR VESSEL**
[54] **DISPOSITIF POUR INSTALLER UN CORPS D'ISOLATION THERMIQUE EXTERNE DE REACTEUR NUCLEAIRE**
[72] GUBAIDULOV, TIMUR MURATOVICH, RU
[72] ZHUK, IGOR EVGEN'EVICH, RU
[72] IL'YIN, SERGEI VLADIMIROVICH, RU
[72] KOLUSHOV, ALEKSANDR VASIL'EVICH, RU
[72] STANKEVICH, SVETLANA LEONIDOVNA, RU
[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU
[85] 2021-12-30
[86] 2019-12-31 (PCT/RU2019/001054)
[87] (WO2021/112713)
[30] RU (2019139213) 2019-12-03

[21] **3,145,672**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) A61K 38/47 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **SIALIDASE-CD20-ANTIBODY FUSION PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE FUSION A ANTICORPS ANTI-CD20 ET A SIALIDASE ET LEURS METHODES D'UTILISATION**
[72] PENG, LI, US
[72] NERLE, SUJATA B., US
[72] GATLIN, WAYNE C., US
[71] PALLEON PHARMACEUTICALS INC., US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040814)
[87] (WO2021/003463)
[30] US (62/870,348) 2019-07-03
[30] US (62/956,977) 2020-01-03

[21] **3,145,674**
[13] A1
[51] **Int.Cl. F16F 15/26 (2006.01)**
[25] EN
[54] **HYDROFORMED BALANCE SHAFT**
[54] **ARBRE D'EQUILIBRAGE HYDROFORME**
[72] BIGA, MICHAEL R., US
[72] HALE, ALLEN W., US
[72] KRASSLER, JAN, DE
[72] LINDER, MARLO, DE
[72] HAERTEL, MARKUS, DE
[71] LINAMAR CORPORATION, CA
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040716)
[87] (WO2021/003400)
[30] US (62/869,706) 2019-07-02

[21] **3,145,676**
[13] A1
[51] **Int.Cl. C12N 9/24 (2006.01) A61K 38/47 (2006.01)**
[25] EN
[54] **RECOMBINANT HUMAN SIALIDASES, SIALIDASE FUSION PROTEINS, AND METHODS OF USING THE SAME**
[54] **SIALIDASES HUMAINES RECOMBINANTES, PROTEINES DE FUSION DE SIALIDASES ET LEURS PROCEDES D'UTILISATION**
[72] PENG, LI, US
[72] CAO, LIZHI, US
[72] SHELKE, SANDIP A., US
[72] TURNER, ANDREW S., US
[72] XU, LIHUI, US
[71] PALLEON PHARMACEUTICALS INC., US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040828)
[87] (WO2021/003469)
[30] US (62/870,403) 2019-07-03
[30] US (62/957,011) 2020-01-03

[21] **3,145,679**
[13] A1
[51] **Int.Cl. C11D 1/94 (2006.01) C11D 1/83 (2006.01) C11D 1/04 (2006.01) C11D 1/12 (2006.01) C11D 1/75 (2006.01) C11D 1/90 (2006.01) C11D 1/92 (2006.01)**
[25] EN
[54] **HARD SURFACE CLEANING COMPOSITIONS WITH REDUCED SURFACE TENSION**
[54] **COMPOSITIONS DE NETTOYAGE DE SURFACE DURE AYANT UNE TENSION SUPERFICIELLE REDUITE**
[72] ANDERSON, DERRICK, US
[72] OLSON, ERIK C., US
[72] MARTINEZ-CROWLEY, MELISSA, US
[71] ECOLAB USA INC., US
[85] 2021-12-30
[86] 2020-07-06 (PCT/US2020/040882)
[87] (WO2021/003477)
[30] US (62/870,409) 2019-07-06

[21] **3,145,681**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0775 (2010.01) C12N 5/00 (2006.01)**
[25] EN
[54] **PRIMING MEDIA AND METHODS FOR STEM CELL CULTURE AND THERAPY**
[54] **MILIEU D'AMORCAGE ET PROCEDES POUR LA CULTURE ET LA THERAPIE DE CELLULES SOUCHES**
[72] BUKULMEZ, HULYA, US
[72] CAPLAN, ARNOLD, US
[71] CASE WESTERN RESERVE UNIVERSITY, US
[85] 2021-12-30
[86] 2020-07-06 (PCT/US2020/040931)
[87] (WO2021/007180)
[30] US (62/870,832) 2019-07-05
[30] US (62/908,762) 2019-10-01

[21] **3,145,683**
[13] A1
[51] **Int.Cl. E03C 1/181 (2019.01) E03C 1/182 (2006.01) E03C 1/184 (2006.01) E03C 1/186 (2019.01)**
[25] EN
[54] **SPLASH GUARD**
[54] **PARE-ECLABOUSSURES**
[72] WONG, YIU F., US
[71] WONG, YIU F., US
[85] 2021-12-30
[86] 2020-07-05 (PCT/US2020/040847)
[87] (WO2021/007139)
[30] US (62/871,035) 2019-07-05

[21] **3,145,685**
[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 17/28 (2006.01) A61B 17/285 (2006.01) A61B 17/29 (2006.01) A61B 17/295 (2006.01)**
[25] EN
[54] **REMOVABLE TIP FOR USE WITH ELECTROSURGICAL DEVICES**
[54] **POINTE AMOVIBLE UTILISABLE AVEC DES DISPOSITIFS ELECTROCHIRURGICAUX**
[72] ALEXANDER, JAMISON, US
[71] ALEXANDER, JAMISON, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040599)
[87] (WO2021/003332)
[30] US (16/460,048) 2019-07-02
[30] US (16/598,860) 2019-10-10

[21] **3,145,726**
[13] A1
[51] **Int.Cl. G21C 9/016 (2006.01)**
[25] EN
[54] **GUIDE ASSEMBLY OF THE CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR**
[54] **DISPOSITIF DE GUIDAGE DE SYSTEME DE LOCALISATION ET DE REFROIDISSEMENT DE MASSE EN FUSION DE LA ZONE ACTIVE D'UN REACTEUR NUCLEAIRE**
[72] SIDOROV, ALEKSANDR STALEVICH, RU
[72] DZBANOVSKAYA, TATYANA YAROPOLKOVNA, RU
[72] SIDOROVA, NADEZHDA VASILIEVNA, RU
[71] JOINT STOCK COMPANY "ATOMENERGOPROEKT", RU
[85] 2021-12-30
[86] 2020-12-29 (PCT/RU2020/000763)
[87] (WO2021/188005)
[30] RU (2020111301) 2020-03-18

[21] **3,145,727**
[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) D04H 1/728 (2012.01) D04H 1/736 (2012.01) D01D 5/00 (2006.01) D04H 3/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ACCUMULATING CROSS-ALIGNED FIBER IN AN ELECTROSPINNING DEVICE**
[54] **PROCEDE ET APPAREIL D'ACCUMULATION DE FIBRE A ALIGNEMENT TRANSVERSAL DANS UN DISPOSITIF D'ELECTROFILAGE**
[72] HAFF, MAURICE, US
[71] UNIVERSITY OF CENTRAL OKLAHOMA, US
[85] 2021-12-30
[86] 2020-04-29 (PCT/US2020/030420)
[87] (WO2021/002920)
[30] US (16/460,589) 2019-07-02
[30] US (16/833,116) 2020-03-27

[21] **3,145,728**
[13] A1
[51] **Int.Cl. G01V 5/10 (2006.01) G01T 3/06 (2006.01)**
[25] EN
[54] **NEUTRON TIME OF FLIGHT WELLBORE LOGGING**
[54] **DIAGRAPHIE DE PUITS DE FORAGE A TEMPS DE VOL DE NEUTRONS**
[72] MCCLESKEY, MATTHEW, US
[72] MEKIC, NATASA, US
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2021-12-30
[86] 2020-06-29 (PCT/US2020/040147)
[87] (WO2021/003106)
[30] US (16/460,867) 2019-07-02

[21] **3,145,729**
[13] A1
[51] **Int.Cl. A61B 5/0295 (2006.01) A61B 5/053 (2021.01)**
[25] EN
[54] **DEVICE AND METHOD FOR SENSING SIGNALS FROM A BODY**
[54] **DISPOSITIF ET PROCEDE DE DETECTION DE SIGNAUX A PARTIR D'UN CORPS**
[72] KAPLAN, YOCHAY, IL
[72] LEVY, BARUCH, IL
[72] SCHUSMAN, ELIEZER, IL
[72] DINOUR, MORDECHAI, IL
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2021-12-30
[86] 2020-06-30 (PCT/US2020/040233)
[87] (WO2021/003122)
[30] US (62/869,069) 2019-07-01

[21] **3,145,730**
[13] A1
[51] **Int.Cl. A61M 11/04 (2006.01)**
[25] EN
[54] **AEROSOL DELIVERY DEVICES AND METHODS OF USING SAME**
[54] **DISPOSITIFS DE DISTRIBUTION D'AEROSOL ET LEURS PROCEDES D'UTILISATION**
[72] CONNELLY, BEVERLY, US
[72] WENSLEY, MARTIN, US
[72] LLOYD, PETER, US
[72] WENSLEY, DAVID, US
[71] AIRJA, INC., US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040765)
[87] (WO2021/003438)
[30] US (62/870,612) 2019-07-03

[21] **3,145,731**
[13] A1
[51] **Int.Cl. A61B 5/0295 (2006.01) A61B 5/053 (2021.01)**
[25] EN
[54] **DEVICE AND METHOD FOR SENSING SIGNALS FROM A BODY**
[54] **DISPOSITIF ET PROCEDE DE DETECTION DE SIGNAUX A PARTIR D'UN CORPS**
[72] KAPLAN, YOCHAY, IL
[72] LEVY, BARUCH, IL
[72] SCHUSMAN, ELIEZER, IL
[72] DINOUR, MORDECHAI, IL
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2021-12-30
[86] 2020-06-30 (PCT/US2020/040234)
[87] (WO2021/003123)
[30] US (62/869,066) 2019-07-01

[21] **3,145,732**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) G16B 25/10 (2019.01)**
[25] EN
[54] **IDENTIFICATION OF PATIENTS THAT WILL RESPOND TO CHEMOTHERAPY**
[54] **IDENTIFICATION DE PATIENTS QUI REAGIRONT A UNE CHIMIOTHERAPIE**
[72] MITROFANOVA, ANTONINA, US
[72] EPSI, NUSRAT J., US
[71] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US
[85] 2021-12-30
[86] 2020-06-30 (PCT/US2020/040333)
[87] (WO2021/003176)
[30] US (62/869,499) 2019-07-01

[21] **3,145,733**
[13] A1
[51] **Int.Cl. A61K 45/00 (2006.01) C12Q 1/6883 (2018.01) C12Q 1/6886 (2018.01) A61P 35/00 (2006.01) C12Q 1/68 (2018.01) G01N 33/53 (2006.01)**
[25] EN
[54] **GENOMIC AND EPIGENOMIC COMPARATIVE, INTEGRATIVE PATHWAY DISCOVERY**
[54] **DECOUVERTE DE VOIE INTEGRATIVE, COMPARATIVE, GENOMIQUE ET EPIGENOMIQUE**
[72] MITROFANOVA, ANTONINA, US
[72] EPSI, NUSRAT J., US
[71] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US
[85] 2021-12-30
[86] 2020-06-30 (PCT/US2020/040379)
[87] (WO2021/003197)
[30] US (62/869,503) 2019-07-01

[21] **3,145,734**
[13] A1
[51] **Int.Cl. C09D 127/16 (2006.01) C09D 133/06 (2006.01) C09D 133/12 (2006.01) C08F 220/14 (2006.01)**
[25] EN
[54] **COATING COMPOSITION PROVIDING INCREASED ADHESION AND/OR UV DURABILITY TO A SUBSTRATE**
[54] **COMPOSITION DE REVETEMENT PROCURANT UNE ADHERENCE ACCRUE ET/OU UNE DURABILITE AUX UV A UN SUBSTRAT**
[72] WOODWORTH, BRIAN E., US
[72] CHASSER, ANTHONY M., US
[72] DONALDSON, SUSAN F., US
[72] MUSKOVICH, MEREDITH L., US
[72] REISING, JOHN C., US
[72] SCHNEIDER, JOHN R., US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2021-03-18
[86] 2019-09-12 (PCT/IB2019/057676)
[87] (WO2020/058810)
[30] US (16/138,152) 2018-09-21

[21] **3,145,735**
[13] A1
[51] **Int.Cl. H04W 12/00 (2021.01) H04L 5/00 (2006.01)**
[25] EN
[54] **MODULATION-AGNOSTIC TRANSFORMATIONS USING UNITARY BRAID DIVISIONAL MULTIPLEXING (UBDM)**
[54] **TRANSFORMATIONS NE DEPENDANT PAS DE LA MODULATION A L'AIDE D'UN MULTIPLEXAGE PAR DIVISION DE TRESSE UNITAIRE (UBDM)**
[72] ROBINSON, MATTHEW BRANDON, US
[71] RAMPART COMMUNICATIONS, INC., US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040393)
[87] (WO2021/003204)
[30] US (16/459,254) 2019-07-01
[30] US (16/916,303) 2020-06-30

[21] **3,145,736**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/174 (2017.01) H04N 13/20 (2018.01) H04N 13/271 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR IMAGE GENERATION**
[54] **PROCEDE ET SYSTEME DE GENERATION D'IMAGES**
[72] WONG, KEVIN, US
[72] DAI, QIQIN, GB
[72] LIN, KAIMO, US
[72] TOTTY, BRIAN, US
[72] YIN, JIANFENG, US
[72] ALAMI, YACINE, US
[72] BERNARDO, MICHAEL, US
[72] GAUTHIER, PAUL, US
[72] GUINDI, PHILIP, US
[72] GUO, QING, US
[72] MORALES, LUIS PUIG, US
[72] PUGH, BRIAN, US
[72] LIANOS, NEKTARIOS, US
[72] DORBIE, ANGUS, US
[71] GEOMAGICAL LABS, INC., US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040481)
[87] (WO2021/003263)
[30] US (62/869,222) 2019-07-01

[21] **3,145,737**
[13] A1
[51] **Int.Cl. B65H 23/032 (2006.01) B25J 9/00 (2006.01) B65G 47/90 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD SUITABLE FOR HANDLING AND CORRECTING ELASTIC MATERIALS**
[54] **SYSTEME DE TRANSPORT ET DE CORRECTION DE DEVIATION D'UN MATERIAU ELASTIQUE, ET PROCEDE ASSOCIE**
[72] XIAO, ZHANCHUN, CN
[72] ZHENG, YOULAI, CN
[72] ZHANG, DONGYANG, CN
[72] WANG, YITING, CN
[71] ANJI BATA ROBOT CO., LTD., CN
[85] 2021-12-24
[86] 2020-06-24 (PCT/CN2020/097844)
[87] (WO2020/259521)
[30] CN (201910555750.8) 2019-06-25

[21] **3,145,738**
[13] A1
[51] **Int.Cl. C07C 317/32 (2006.01) A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 31/10 (2006.01) A61K 31/33 (2006.01) A61K 47/06 (2006.01) A61K 47/10 (2017.01) A61P 17/02 (2006.01) C07B 45/04 (2006.01) C07C 315/02 (2006.01) C07C 317/20 (2006.01) C07D 209/48 (2006.01) C07D 215/36 (2006.01) C07D 279/12 (2006.01) C07D 307/64 (2006.01) C07D 333/34 (2006.01) C07D 405/12 (2006.01)**
[25] EN
[54] **DIFLUOROHALOALLYLAMINE SULFONE DERIVATIVE INHIBITORS OF LYSYL OXIDASES, METHODS OF PREPARATION, AND USES THEREOF**
[54] **INHIBITEURS DE DERIVE DE DIFLUOROHALOALLYLAMINE SULFONE DE LYSYL OXYDASES, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS**
[72] HAMPRECHT, DIETER WOLFGANG, AU
[72] FINDLAY, ALISON DOROTHY, AU
[72] TURNER, CRAIG IVAN, AU
[72] DEODHAR, MANDAR, AU
[72] GRECO, ANGELIQUE ELSA, AU
[72] JAROLIMEK, WOLFGANG, AU
[72] ZHOU, WENBIN, AU
[71] PHARMAXIS LTD., AU
[85] 2021-12-31
[86] 2020-07-24 (PCT/AU2020/050759)
[87] (WO2021/012014)
[30] AU (2019902641) 2019-07-25

[21] **3,145,739**
[13] A1
[51] **Int.Cl. A61K 38/10 (2006.01) A61K 31/546 (2006.01) A61K 35/74 (2015.01) A61K 38/08 (2019.01) A61P 31/04 (2006.01) C07D 513/04 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **QUORUM-SENSING INHIBITORS AND/OR POSTBIOTIC METABOLITES AND RELATED METHODS**
[54] **INHIBITEURS DE DETECTION DU QUORUM ET/OU METABOLITES POST-BIOTIQUES ET METHODES ASSOCIEES**
[72] CELLA, MONICA ANGELA, CA
[71] MICROSINTESIS INC., CA
[85] 2021-12-31
[86] 2020-07-02 (PCT/CA2020/050921)
[87] (WO2021/000046)
[30] US (62/869,681) 2019-07-02

[21] **3,145,740**
[13] A1
[51] **Int.Cl. G01S 13/931 (2020.01) G06N 20/00 (2019.01) G01S 13/12 (2006.01) G01S 13/34 (2006.01) G01S 13/48 (2006.01) G06N 3/02 (2006.01) H01Q 3/04 (2006.01) H01Q 21/06 (2006.01)**
[25] EN
[54] **BEAM STEERING RADAR WITH SELECTIVE SCANNING MODE FOR AUTONOMOUS VEHICLES**
[54] **RADAR A ORIENTATION DE FAISCEAU DOTE D'UN MODE DE BALAYAGE SELECTIF POUR VEHICULES AUTONOMES**
[72] ZAIDI, ABDULLAH AHSAN, US
[71] METAWAVE CORPORATION, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040768)
[87] (WO2021/003440)
[30] US (62/869,913) 2019-07-02

[21] **3,145,741**
[13] A1
[51] **Int.Cl. A63C 9/086 (2012.01) A63C 9/08 (2012.01) A63C 9/085 (2012.01)**
[25] EN
[54] **SKI BINDING**
[54] **FIXATION DE SKI**
[72] PRIEST, RYAN, CH
[71] PRIEST, RYAN, CH
[85] 2021-12-31
[86] 2019-07-08 (PCT/CH2019/050013)
[87] (WO2020/010477)
[30] CH (851/18) 2018-07-09
[30] CH (1054/18) 2018-09-04
[30] CH (196/19) 2019-02-17

[21] **3,145,742**
[13] A1
[51] **Int.Cl. H04M 1/725 (2021.01) H04W 4/02 (2018.01)**
[25] EN
[54] **A "ONE-TOUCH CALL" PLATFORM BASED ON A MOBILE INTELLIGENT TERMINAL AND THE IMPLEMENTING METHOD THEREFOR**
[54] **PLATEFORME D'"APPEL EN UNE TOUCHE" BASEE SUR UN TERMINAL MOBILE INTELLIGENT ET SON PROCEDE DE MISE EN □UVRE**
[72] PANG, SULIN, CN
[72] LI, ZHIJIAN, CN
[71] GUANGDONG BANACH BIG DATA TECHNOLOGY CO., LTD., CN
[85] 2021-12-31
[86] 2019-10-25 (PCT/CN2019/113212)
[87] (WO2021/000461)
[30] CN (201910592832.X) 2019-07-03

[21] **3,145,743**
[13] A1
[51] **Int.Cl. B01J 8/18 (2006.01) B01J 8/24 (2006.01) C10G 11/18 (2006.01) C10G 51/02 (2006.01)**
[25] EN
[54] **FLUID CATALYTIC CRACKING PROCESSES AND APPARATUS**
[54] **PROCEDES ET APPAREIL DE CRAQUAGE CATALYTIQUE FLUIDE**
[72] CHEN, LIANG, US
[72] LOEZOS, PETER, US
[72] TOMSULA, BRYAN, US
[72] MARRI, RAMA RAO, US
[72] LIU, ZAN, US
[71] LUMMUS TECHNOLOGY LLC, US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040495)
[87] (WO2021/003269)
[30] US (62/869,748) 2019-07-02

[21] **3,145,747**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) A61K 38/47 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **SIALIDASE-PD-L1-ANTIBODY FUSION PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE FUSION A ANTICORPS ANTI-PDL1 ET A SIALIDASE ET LEURS METHODES D'UTILISATION**
[72] PENG, LI, US
[72] XU, LIHUI, US
[71] PALLEON PHARMACEUTICALS INC., US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040815)
[87] (WO2021/003464)
[30] US (62/870,354) 2019-07-03
[30] US (62/956,957) 2020-01-03

[21] **3,145,750**
[13] A1
[51] **Int.Cl. B32B 25/12 (2006.01) B32B 5/02 (2006.01) C08C 19/06 (2006.01) C08G 63/81 (2006.01)**
[25] EN
[54] **CURATIVE & METHOD**
[54] **AGENT DE DURCISSEMENT ET PROCEDE**
[72] AMSTUTZ, AARON KENNETH, US
[72] HAVERHALS, LUKE MICHAEL, US
[72] AMSTUTZ, ISAIAH, US
[72] CLEMENT, SKYLAR, US
[72] WALKER, PETER FRANCIS, US
[71] NATURAL FIBER WELDING, INC., US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040527)
[87] (WO2021/003289)
[30] US (62/869,393) 2019-07-01
[30] US (62/989,275) 2020-03-13

[21] **3,145,751**
[13] A1
[51] **Int.Cl. C07D 471/00 (2006.01) A61K 31/437 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/00 (2006.01) C07D 487/02 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **PYRROLO[2, 3-B]PYRAZINES AS HPK1 INHIBITOR AND THE USE THEREOF**
[54] **PYRROLO[2, 3-B]PYRAZINES UTILISEES EN TANT QU'INHIBITEUR DE HPK1 ET LEUR UTILISATION**
[72] LI, JING, CN
[72] WANG, ZHIWEI, CN
[72] XU, SANJIA, CN
[71] BEIGENE, LTD., KY
[85] 2021-12-31
[86] 2020-07-03 (PCT/CN2020/100037)
[87] (WO2021/000925)
[30] CN (PCT/CN2019/094749) 2019-07-04
[30] CN (PCT/CN2019/123268) 2019-12-05
[30] CN (PCT/CN2020/089498) 2020-05-09

[21] **3,145,752**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) A61K 38/47 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **SIALIDASE-HER2-ANTIBODY FUSION PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE FUSION D'ANTICORPS-HER2-SIALIDASE ET LEURS PROCEDES D'UTILISATION**
[72] PENG, LI, US
[72] CAO, LIZHI, US
[72] GATLIN, WAYNE C., US
[72] YAO, WEIGUO, US
[72] SIDDIQUEE, ZAKIR B., US
[72] NERLE, SUJATA B., US
[72] CHE, JENNY, US
[72] DAS, ABHISHEK, US
[71] PALLEON PHARMACEUTICALS INC., US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040816)
[87] (WO2021/003465)
[30] US (62/870,341) 2019-07-03
[30] US (62/957,041) 2020-01-03

[21] **3,145,754**
[13] A1
[51] **Int.Cl. A61G 1/003 (2006.01) A61G 1/013 (2006.01) A61G 1/048 (2006.01)**
[25] EN
[54] **DEVICE FOR HOISTING AND TRANSPORTING A PERSON**
[54] **DISPOSITIF DE LEVAGE ET DE TRANSPORT D'UNE PERSONNE**
[72] GUERRIER, SANDRA, FR
[71] CORBEN, FR
[85] 2021-12-31
[86] 2020-07-01 (PCT/EP2020/068452)
[87] (WO2021/013485)
[30] FR (FR1908317) 2019-07-23
[30] FR (FR1908318) 2019-07-23

[21] **3,145,755**
[13] A1
[51] **Int.Cl. H01H 71/50 (2006.01) H01H 73/04 (2006.01)**
[25] EN
[54] **CIRCUIT BREAKER**
[54] **DISJONCTEUR**
[72] HARRER, HUBERT, DE
[72] KOPF, HENDRIK-CHRISTIAN, DE
[72] LOOS, KLAUS, DE
[72] WERNER, KLAUS, DE
[72] ZEBERL, JURGEN, DE
[71] ELLENBERGER & POENSGEN GMBH, DE
[85] 2021-12-31
[86] 2020-04-16 (PCT/EP2020/060729)
[87] (WO2021/001075)
[30] DE (DE 10 2019 209 747.2) 2019-07-03

[21] **3,145,757**
[13] A1
[51] **Int.Cl. F24F 1/031 (2019.01) F24F 1/032 (2019.01) F24F 1/0328 (2019.01) F24F 7/013 (2006.01) F24F 7/08 (2006.01) F24F 12/00 (2006.01)**
[25] EN
[54] **VENTILATION DEVICE**
[54] **DISPOSITIF DE VENTILATION**
[72] CASSITTA, DOMENICO, IT
[72] CASSITTA, GIOVANNI PIERO, IT
[71] RADOFF S.R.L., IT
[85] 2021-12-31
[86] 2020-07-02 (PCT/EP2020/068615)
[87] (WO2021/004867)
[30] IT (102019000010956) 2019-07-05

[21] **3,145,760**
[13] A1
[51] **Int.Cl. A01N 59/00 (2006.01) A01N 25/30 (2006.01) A01N 33/12 (2006.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01) A61K 8/20 (2006.01) A61K 8/41 (2006.01) A61L 2/18 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COMPOSITION**
[54] **COMPOSITION ANTIMICROBIENNE**
[72] POLITOPOULIS, MICHAEL, US
[72] RYAN, AUTUMN N., US
[72] SCANNAPIECO, GUSTAVE J., US
[71] ASEPTIC HEALTH, LLC, US
[85] 2021-12-30
[86] 2020-07-01 (PCT/US2020/040577)
[87] (WO2021/003317)
[30] US (62/869,112) 2019-07-01
[30] US (62/925,997) 2019-10-25
[30] US (63/009,863) 2020-04-14
[30] US (16/894,618) 2020-06-05

[21] **3,145,761**
[13] A1
[51] **Int.Cl. A61H 33/06 (2006.01)**
[25] EN
[54] **THERMAL DEVICE AND METHOD FOR OPERATING SAME**
[54] **DISPOSITIF THERMIQUE ET PROCEDE PERMETTANT DE FAIRE FONCTIONNER LEDIT DISPOSITIF THERMIQUE**
[72] WIRTH, DANIEL, CH
[72] CABALZAR, FLURIN, CH
[71] FIT- & WELLNESS CONCEPT GMBH, CH
[85] 2021-12-31
[86] 2020-03-28 (PCT/EP2020/058879)
[87] (WO2021/001067)
[30] CH (00881/19) 2019-07-04
[30] CH (00138/20) 2020-02-07

[21] **3,145,762**
[13] A1
[51] **Int.Cl. E21B 33/14 (2006.01) E21B 17/08 (2006.01) E21B 33/04 (2006.01) E21B 33/13 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LATERAL CEMENTING OPERATION**
[54] **SYSTEME ET PROCEDE DE FONCTIONNEMENT DE CIMENTATION LATERALE**
[72] REECE, ISAAC, US
[72] GOSWICK, SAM, US
[71] DEVON ENERGY CORPORATION, US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040817)
[87] (WO2021/003466)
[30] US (62/870,652) 2019-07-03

[21] **3,145,763**
[13] A1
[51] **Int.Cl. B01D 15/36 (2006.01) B01J 20/26 (2006.01) B01J 20/281 (2006.01)**
[25] EN
[54] **ANTIBODY DRUG CONJUGATE PURIFICATION**
[54] **PURIFICATION D'UN CONJUGUE ANTICORPS-MEDICAMENT**
[72] SKUDAS, ROMAS, DE
[72] HOLZGREVE, ANNIKA, DE
[72] SCHULTE, MICHAEL, DE
[72] PEECK, LARS, DE
[72] ZORN, DOMINIC, DE
[71] MERCK PATENT GMBH, DE
[85] 2021-12-31
[86] 2020-07-01 (PCT/EP2020/068437)
[87] (WO2021/001387)
[30] EP (19184130.3) 2019-07-03

[21] **3,145,764**
[13] A1
[51] **Int.Cl. B32B 11/02 (2006.01) C09J 7/29 (2018.01) C09J 7/38 (2018.01) B32B 11/04 (2006.01)**
[25] EN
[54] **FLAME-RESISTANT COMPOSITES FOR ROOFING UNDERLAYMENT**
[54] **COMPOSITES IGNIFUGES POUR SOUS-COUCHE DE TOITURE**
[72] CARR, JOSEPH R., US
[72] REYNOLDS, MATTHEW J., US
[71] FIRESTONE BUILDING PRODUCTS COMPANY, LLC, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040590)
[87] (WO2021/003327)
[30] US (62/870,118) 2019-07-03
[30] US (62/872,808) 2019-07-11
[30] US (62/952,853) 2019-12-23

[21] **3,145,765**
[13] A1
[51] **Int.Cl. B01D 15/36 (2006.01) B01J 20/26 (2006.01) B01J 20/281 (2006.01)**
[25] EN
[54] **GLYCOFORM PURIFICATION**
[54] **PURIFICATION DE GLYCOFORMES**
[72] SKUDAS, ROMAS, DE
[72] HOLZGREVE, ANNIKA, DE
[72] STROBEL, ALISA, DE
[71] MERCK PATENT GMBH, DE
[85] 2021-12-31
[86] 2020-07-01 (PCT/EP2020/068439)
[87] (WO2021/001388)
[30] EP (19184130.3) 2019-07-03
[30] EP (20172272.5) 2020-04-30

[21] **3,145,766**
[13] A1
[51] **Int.Cl. F24T 10/30 (2018.01) F24D 11/02 (2006.01) F28D 1/04 (2006.01) F28D 20/00 (2006.01)**
[25] EN
[54] **DEVICE FOR ENERGY TRANSFER AND FOR ENERGY STORAGE IN A LIQUID RESERVOIR**
[54] **DISPOSITIF DE TRANSFERT D'ENERGIE ET DE STOCKAGE D'ENERGIE DANS UN RESERVOIR DE LIQUIDE**
[72] SCHECHNER, ALEXANDER, DE
[72] SCHWENK, GUNTHER, DE
[71] ENVOLA GMBH, DE
[85] 2021-12-31
[86] 2020-07-03 (PCT/EP2020/068821)
[87] (WO2021/004937)
[30] DE (10 2019 118 223.9) 2019-07-05

[21] **3,145,767**
[13] A1
[51] **Int.Cl. C25F 3/02 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUSES OF OSCILLATORY PULSED ELECTROCHEMICAL MACHINING**
[54] **PROCEDES ET APPAREILS D'USINAGE ELECTROCHIMIQUE PULSE OSCILLATOIRE**
[72] HERRINGTON, DANIEL, US
[72] ROUNTREE, ERIC, US
[71] VOXEL INNOVATIONS, INC., US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040819)
[87] (WO2021/086455)
[30] US (62/870,882) 2019-07-05

[21] **3,145,768**
[13] A1
[51] **Int.Cl. A61K 35/12 (2015.01) C12N 5/071 (2010.01) A61K 35/39 (2015.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **METHODS OF FUNCTIONAL VASCULARIZATION OF PANCREATIC ISLETS AND .BETA.-CELL ORGANOIDS**
[54] **PROCEDES DE VASCULARISATION FONCTIONNELLE D'ILOTS PANCREATIQUES ET D'ORGANOIDES DE CELLULES .BETA.**
[72] RAFII, SHAHIN, US
[72] PALIKUQI, BRISA, US
[72] LI, GE, US
[72] RABBANY, SINA, US
[71] CORNELL UNIVERSITY, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040637)
[87] (WO2021/003352)
[30] US (62/870,288) 2019-07-03

[21] **3,145,770**
[13] A1
[51] **Int.Cl. A61G 1/003 (2006.01) A61G 1/013 (2006.01) A61G 1/048 (2006.01)**
[25] EN
[54] **DEVICE FOR LIFTING AND TRANSPORTING A PERSON**
[54] **DISPOSITIF DE LEVAGE ET DE TRANSPORT D'UNE PERSONNE**
[72] GUERRIER, SANDRA, FR
[71] CORBEN, FR
[85] 2021-12-31
[86] 2020-07-01 (PCT/EP2020/068451)
[87] (WO2021/013484)
[30] FR (FR1908318) 2019-07-23
[30] FR (FR1908317) 2019-07-23

[21] **3,145,771**
[13] A1
[51] **Int.Cl. E04B 1/41 (2006.01) E04G 21/18 (2006.01)**
[25] EN
[54] **ANCHORING ELEMENT AND METHOD FOR MOUNTING AN ANCHOR RAIL IN A STRUCTURAL BODY OF CONCRETE**
[54] **ELEMENT D'ANCRAGE ET PROCEDE DE MONTAGE D'UN RAIL D'ANCRAGE DANS UN ELEMENT DE CONSTRUCTION EN BETON**
[72] MODERSOHN, WILHELM JOCHEN PETER, DE
[71] WILHELM MODERSOHN GMBH & CO KG, DE
[85] 2021-12-31
[86] 2020-08-20 (PCT/EP2020/073370)
[87] (WO2021/047876)
[30] DE (10 2019 124 308.4) 2019-09-10

[21] **3,145,772**
[13] A1
[51] **Int.Cl. C12N 9/24 (2006.01) A61K 38/47 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **RECOMBINANT SIALIDASES AND METHODS OF USING THE SAME**
[54] **SIALIDASES RECOMBINANTES ET LEURS PROCEDES D'UTILISATION**
[72] PENG, LI, US
[72] CAO, LIZHI, US
[72] SHELKE, SANDIP A., US
[72] TURNER, ANDREW S., US
[72] XU, LIHUI, US
[72] GATLIN, WAYNE C., US
[72] BRODERICK, JAMES W., US
[72] NORMINGTON, KARL D., US
[72] NERLE, SUJATA B., US
[72] SIDDIQUEE, ZAKIR B., US
[72] DAS, ABHISHEK, US
[71] PALLEON PHARMACEUTICALS INC., US
[85] 2021-12-30
[86] 2020-07-03 (PCT/US2020/040827)
[87] (WO2021/003468)
[30] US (62/870,336) 2019-07-03
[30] US (62/957,027) 2020-01-03

[21] **3,145,773**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/117 (2010.01) A61K 31/713 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USEFUL FOR EBOLA VIRUS INFECTION**
[54] **COMPOSITIONS ET PROCEDES UTILES POUR UNE INFECTION PAR LE VIRUS EBOLA**
[72] STRAYER, DAVID R., US
[72] EQUELS, THOMAS K., US
[71] AIM IMMUNOTECH INC., US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040655)
[87] (WO2021/003365)
[30] US (62/870,384) 2019-07-03
[30] US (62/870,377) 2019-07-03

[21] **3,145,774**
[13] A1
[51] **Int.Cl. C05D 9/02 (2006.01) C05G 1/00 (2006.01) C05B 17/00 (2006.01) C05C 11/00 (2006.01)**
[25] EN
[54] **PRODUCTS PREPARED FROM WASTE GAS STREAMS CONTAINING H2S, SO2, AND/OR NH3**
[54] **PRODUITS PREPARES A PARTIR DE FLUX DE GAZ RESIDUAIRES CONTENANT DU H2S, DU SO2 ET/OU DU NH3**
[72] WAITE, SCOTT, US
[72] KOMINSKI, HARRY CHARLES, US
[72] GHIMIRE, RAJENDRA, US
[72] VAN CAUWENBERGH, JEROEN, BE
[71] TESSENDERLO GROUP NV, BE
[85] 2021-12-30
[86] 2020-07-06 (PCT/US2020/040887)
[87] (WO2021/003479)

[21] **3,145,775**
[13] A1
[51] **Int.Cl. G21C 9/016 (2006.01) G21C 13/10 (2006.01)**
[25] EN
[54] **CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR**
[54] **SYSTEME DE LOCALISATION ET DE REFROIDISSEMENT DE LA MASSE EN FUSION DE LA ZONE ACTIVE D'UN REACTEUR NUCLEAIRE**
[72] SIDOROV, ALEKSANDR STALEVICH, RU
[72] DZBANOVSKAYA, TATYANA YAROPOLKOVNA, RU
[72] SIDOROVA, INNA SERGEEVNA, RU
[71] JOINT STOCK COMPANY "ATOMENERGOPROEKT", RU
[85] 2021-12-30
[86] 2020-12-29 (PCT/RU2020/000764)
[87] (WO2021/188006)
[30] RU (2020111692) 2020-03-20

[21] **3,145,776**
[13] A1
[51] **Int.Cl. A61K 31/4168 (2006.01) A61K 31/4439 (2006.01) A61P 31/14 (2006.01) C07D 233/24 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **ARYL-N-ARYL DERIVATIVES FOR TREATING A RNA VIRUS INFECTION**
[54] **DERIVES ARYL-N-ARYLE DESTINES AU TRAITEMENT D'UNE INFECTION PAR UN VIRUS A ARN**
[72] SCHERRER, DIDIER, FR
[72] MAHUTEAU, FLORENCE, FR
[72] NAJMAN, ROMAIN, FR
[72] TAZI, JAMAL, FR
[72] SANTO, JULIEN, FR
[72] APOLIT, CECILE, FR
[72] LABEGUERE, FREDERIC, FR
[72] SAUTIER, BRICE, FR
[72] BIENVENU, NATACHA, FR
[72] AZZALI, ELISA, IT
[71] ABIVAX, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE MONTPELLIER, FR
[71] INSTITUT CURIE, FR
[85] 2021-12-31
[86] 2020-07-17 (PCT/EP2020/070294)
[87] (WO2021/013733)
[30] EP (19305964.9) 2019-07-19
[30] EP (20305004.2) 2020-01-07

[21] **3,145,777**
[13] A1
[51] **Int.Cl. G21C 9/016 (2006.01)**
[25] EN
[54] **SYSTEM FOR CONFINING AND COOLING MELT FROM THE CORE OF A NUCLEAR REACTOR**
[54] **SYSTEME DE LOCALISATION ET DE REFROIDISSEMENT DE LA MASSE EN FUSION DE LA ZONE ACTIVE D'UN REACTEUR NUCLEAIRE**
[72] SIDOROV, ALEKSANDR STALEVICH, RU
[72] CHIKAN, KRISTIN ALEKSANDROVICH, RU
[72] SIDOROVA, NADEZHDA VASILIEVNA, RU
[71] JOINT STOCK COMPANY "ATOMENERGOPROEKT", RU
[85] 2021-12-30
[86] 2020-12-29 (PCT/RU2020/000765)
[87] (WO2021/188007)
[30] RU (2020111299) 2020-03-18

[21] **3,145,778**
[13] A1
[51] **Int.Cl. A21D 8/04 (2006.01) A21D 2/26 (2006.01) A21D 15/00 (2006.01) C12N 9/52 (2006.01)**
[25] EN
[54] **METHOD OF DOUGH RELAXATION INVOLVING ENDOPEPTIDASES**
[54] **PROCEDE DE RELAXATION DE PATE IMPLIQUANT DES ENDOPEPTIDASES**
[72] MATVEEVA, IRINA VICTOROVNA, RU
[72] PUDER, KATJA, DK
[72] AKBAR, SAJID, IN
[71] NOVOZYMES A/S, DK
[85] 2021-12-31
[86] 2020-08-05 (PCT/EP2020/071984)
[87] (WO2021/023767)
[30] IN (201941031941) 2019-08-07

[21] **3,145,779**
[13] A1
[51] **Int.Cl. F41G 11/00 (2006.01) F41G 1/34 (2006.01) F41G 1/38 (2006.01) H02J 7/35 (2006.01)**
[25] EN
[54] **SOLAR POWERED CAP ASSEMBLY FOR OPTICAL SIGHTING SYSTEMS**
[54] **ENSEMBLE CAPUCHON SOLAIRE DE SYSTEMES DE VISEE OPTIQUE**
[72] SHEETS JR., ROBERT E., US
[71] PRIMARY ARMS, LLC, US
[85] 2021-12-30
[86] 2020-07-09 (PCT/US2020/041438)
[87] (WO2021/007451)
[30] US (62/872,487) 2019-07-10

[21] **3,145,780**
[13] A1
[51] **Int.Cl. G21C 9/016 (2006.01)**
[25] EN
[54] **GUIDE ASSEMBLY OF THE CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR**
[54] **DISPOSITIF DE LOCALISATION DE MASSE FONDUE DANS LA ZONE ACTIVE D'UN REACTEUR NUCLEAIRE**
[72] SIDOROV, ALEKSANDR STALEVICH, RU
[72] DZBANOVSKAYA, TATYANA YAROPOLKOVNA, RU
[72] SIDOROVA, NADEZHDA VASILIEVNA, RU
[71] JOINT STOCK COMPANY "ATOMENERGOPROEKT", RU
[85] 2021-12-30
[86] 2020-12-29 (PCT/RU2020/000766)
[87] (WO2021/182997)
[30] RU (2020110765) 2020-03-13

[21] **3,145,781**
[13] A1
[51] **Int.Cl. E04G 5/04 (2006.01) E04G 3/28 (2006.01) E04G 11/28 (2006.01)**
[25] EN
[54] **ANCHOR FOR A SELF-CLIMBING STRUCTURE**
[54] **ANCRAGE POUR STRUCTURE AUTOGRIMPANTE**
[72] MONTANER FRAGUET, JESUS, ES
[72] PEREZ ABADIA, MARIANO, ES
[72] SORAZU ECHAVE, JOSE MANUEL, ES
[72] MARTINEZ MARTINEZ, AMAIA, ES
[72] SAIZ GARCIA, SERGIO, ES
[72] DIEGO GARAMENDI, RICARDO, ES
[71] HWS CONCRETE TOWERS S.L., ES
[85] 2021-12-31
[86] 2020-07-16 (PCT/ES2020/070463)
[87] (WO2021/019114)
[30] ES (P201930707) 2019-07-30

[21] **3,145,782**
[13] A1
[51] **Int.Cl. A61B 8/00 (2006.01) A61B 8/08 (2006.01)**
[25] EN
[54] **REPRESENTATION OF A TARGET DURING AIMING OF AN ULTRASOUND PROBE**
[54] **REPRESENTATION D'UNE CIBLE LORS DE LA VISEE D'UNE SONDE ULTRASONORE**
[72] DOUGLAS, MARION, US
[71] VERATHON INC., US
[85] 2021-12-30
[86] 2020-07-10 (PCT/US2020/041607)
[87] (WO2021/011380)
[30] US (62/873,564) 2019-07-12

[21] **3,145,784**
[13] A1
[51] **Int.Cl. G21C 9/016 (2006.01)**
[25] EN
[54] **CORIUM LOCALIZING AND COOLING SYSTEM OF A NUCLEAR REACTOR**
[54] **SYSTEME DE LOCALISATION ET DE REFROIDISSEMENT DE LA MASSE EN FUSION DE LA ZONE ACTIVE D'UN REACTEUR NUCLEAIRE**
[72] SIDOROV, ALEKSANDR STALEVICH, RU
[72] DZBANOVSKAYA, TATYANA YAROPOLKOVNA, RU
[72] SIDOROVA, INNA SERGEEVNA, RU
[71] JOINT STOCK COMPANY "ATOMENERGOPROEKT", RU
[85] 2021-12-30
[86] 2020-12-29 (PCT/RU2020/000767)
[87] (WO2021/188008)
[30] RU (2020111695) 2020-03-20

[21] **3,145,785**
[13] A1
[51] **Int.Cl. G06F 3/0488 (2022.01) G06F 3/04886 (2022.01) G06F 1/16 (2006.01) H04M 1/02 (2006.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR ASSISTING INPUT TO A VIRTUAL KEYPAD OR KEYBOARD ON AN ELECTRONIC DEVICE**
[54] **SYSTEME MIS EN □UVRE PAR ORDINATEUR ET PROCEDE D'AIDE A LA SAISIE SUR UN PAVE OU CLAVIER VIRTUEL D'UN DISPOSITIF ELECTRONIQUE**
[72] PIKE, JUSTIN, GB
[71] LICENTIA GROUP LIMITED, GB
[71] MYPINPAD LIMITED, GB
[85] 2021-12-31
[86] 2020-07-27 (PCT/GB2020/051804)
[87] (WO2021/014177)
[30] GB (1910621.0) 2019-07-25

[21] **3,145,788**
[13] A1
[51] **Int.Cl. A47K 10/36 (2006.01) A47K 10/38 (2006.01)**
[25] EN
[54] **DISPENSER FOR ROLLS OF ABSORBENT PAPER MATERIAL**
[54] **DISTRIBUTEUR DE ROULEAUX DE MATERIAU EN PAPIER ABSORBANT**
[72] ELLIOTT, ADAM T., US
[72] KASILAG, CHRISTIAN, US
[72] WEINGARTH, BRIAN, US
[72] PAVKOV, AARON, US
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2021-12-30
[86] 2019-10-30 (PCT/SE2019/051083)
[87] (WO2021/086239)

[21] **3,145,789**
[13] A1
[51] **Int.Cl. A62B 35/04 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **ENERGY ABSORBING DEVICE FOR FALL PROTECTION SYSTEM**
[54] **DISPOSITIF D'ABSORPTION D'ENERGIE POUR SYSTEME DE PROTECTION CONTRE LES CHUTES**
[72] TUSHAUS, JOHN T., US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2021-12-31
[86] 2020-06-15 (PCT/IB2020/055586)
[87] (WO2021/001711)
[30] US (62/870,330) 2019-07-03

[21] **3,145,790**
[13] A1
[51] **Int.Cl. E04B 1/24 (2006.01) E04B 1/348 (2006.01)**
[25] EN
[54] **MULTI-FUNCTIONAL CONNECTOR**
[54] **CONNECTEUR MULTIFONCTIONNEL**
[72] CLARK, DAVID, GB
[72] ILLINGSWORTH, ANTHONY, GB
[72] CROSBY, RICHARD, GB
[72] COWELL, JAMES, GB
[72] HOGGARTH, CHRIS, GB
[72] HARVEY, MARTIN, GB
[71] ELLIOT GROUP LIMITED, GB
[71] MCAVOY GROUP LIMITED, IE
[71] MOONSHINE INVESTMENT HOLDINGS LIMITED, GB
[85] 2021-12-31
[86] 2020-07-09 (PCT/IB2020/056486)
[87] (WO2021/005561)
[30] GB (1909855.7) 2019-07-09

[21] **3,145,791**
[13] A1
[51] **Int.Cl. A61K 39/21 (2006.01) C07K 14/16 (2006.01)**
[25] EN
[54] **HIV VACCINES AND METHODS OF MAKING AND USING**
[54] **VACCINS CONTRE LE VIH ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] LIU, XINAN, CN
[72] MAKADZANGE, AZURE T., US
[72] MARTIN, STEPHEN R., US
[72] SHEHATA, HESHAM, US
[72] SVAROVSKAIA, EVGUENIA, US
[71] GILEAD SCIENCES, INC., US
[85] 2021-12-30
[86] 2020-07-14 (PCT/US2020/041945)
[87] (WO2021/011544)
[30] US (62/874,712) 2019-07-16

[21] **3,145,792**
[13] A1
[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/49 (2006.01) A61L 15/16 (2006.01)**
[25] EN
[54] **WATER-DISPERSIBLE AND BIODEGRADABLE FILMS FOR THE PACKAGING OF LIQUIDS AND MOISTURE-SENSITIVE MATERIALS**
[54] **FILMS DISPERSIBLES DANS L'EAU ET BIODEGRADABLES POUR L'EMBALLAGE DE LIQUIDES ET DE MATERIAUX SENSIBLES A L'HUMIDITE**
[72] MIRANDA, NATHANAEL, US
[72] JAKUBOWSKI, JONATHAN R., US
[72] GIAMMANCO, GIUSEPPE E., US
[71] SMARTSOLVE INDUSTRIES LLC, US
[85] 2021-12-30
[86] 2020-07-30 (PCT/US2020/044180)
[87] (WO2021/021995)
[30] US (62/880,140) 2019-07-30
[30] US (16/942,946) 2020-07-30

[21] **3,145,793**
[13] A1
[51] **Int.Cl. B64G 1/36 (2006.01) B64G 1/66 (2006.01) G01S 3/786 (2006.01)**
[25] EN
[54] **SATELLITE MODULE FOR ATTITUDE DETERMINATION**
[54] **MODULE SATELLITE POUR DETERMINATION D'ATTITUDE**
[72] FERRARIO, LORENZO, IT
[72] BEVILACQUA, MARCO, IT
[72] ZORZI, LUCA, IT
[72] GRIMOLDI, GIORGIO, IT
[71] D-ORBIT S.P.A., IT
[85] 2021-12-31
[86] 2020-07-16 (PCT/IB2020/056693)
[87] (WO2021/014293)
[30] IT (102019000012498) 2019-07-22

[21] **3,145,794**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/485 (2006.01) A61P 1/00 (2006.01) A61P 1/04 (2006.01)**
[25] EN
[54] **NALTREXONE FORMULATION**
[54] **FORMULATION DE NALTREXONE**
[72] PATEL, ALKESHKUMAR NARAYANBHAI, IN
[72] PATEL, MANISH MAVJIBHAI, IN
[72] CHAUHAN, MANISHKUMAR JAYANTIBHAI, IN
[72] NAIDU, VENKATARAMANA, IN
[71] INTAS PHARMACEUTICALS LTD., IN
[85] 2021-12-24
[86] 2020-07-07 (PCT/IB2020/056364)
[87] (WO2021/005501)
[30] IN (201921027547) 2019-07-10

[21] **3,145,796**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/675 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **STABLE ORAL COMPOSITION OF CYCLOPHOSPHAMIDE**
[54] **COMPOSITION ORALE STABLE DE CYCLOPHOSPHAMIDE**
[72] NAIDU, VENKATARAMANA, IN
[72] DESAI, JWALANT VIJAYBHAI, IN
[72] SAXENA, MAYANK, IN
[72] JAMLOKI, ASHUTOSH, IN
[71] INTAS PHARMACEUTICALS LTD., IN
[85] 2021-12-24
[86] 2020-07-09 (PCT/IB2020/056450)
[87] (WO2021/005544)
[30] IN (201921027551) 2019-07-10

[21] **3,145,797**
[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01) G16H 30/40 (2018.01) A61B 5/00 (2006.01) A61B 5/055 (2006.01) A61B 6/03 (2006.01)**
[25] EN
[54] **COMPUTATIONAL SIMULATIONS OF ANATOMICAL STRUCTURES AND BODY SURFACE ELECTRODE POSITIONING**
[54] **SIMULATIONS INFORMATIQUES DE STRUCTURES ANATOMIQUES ET POSITIONNEMENT D'ELECTRODE DE SURFACE CORPORELLE**
[72] KRUMMEN, DAVID, US
[72] VILLONGCO, CHRISTOPHER, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] VEKTOR MEDICAL, INC., US
[85] 2021-12-31
[86] 2019-07-05 (PCT/US2019/040740)
[87] (WO2020/010339)
[30] US (62/694,401) 2018-07-05

[21] **3,145,798**
[13] A1
[51] **Int.Cl. H01H 1/54 (2006.01)**
[25] EN
[54] **ELECTRICAL SWITCHING SYSTEM**
[54] **SYSTEME DE COMMUTATION ELECTRIQUE**
[72] HARRER, HUBERT, DE
[72] KOPF, HENDRIK-CHRISTIAN, DE
[72] LOOS, KLAUS, DE
[72] WERNER, KLAUS, DE
[72] ZEBERL, JURGEN, DE
[71] ELLENBERGER & POENSGEN GMBH, DE
[85] 2021-12-30
[86] 2020-04-16 (PCT/EP2020/060671)
[87] (WO2021/001074)
[30] DE (10 2019 209 745.6) 2019-07-03

[21] **3,145,799**
[13] A1
[51] **Int.Cl. H01L 21/66 (2006.01)**
[25] EN
[54] **ADAPTIVE LANE DETECTION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE VOIE ADAPTATIVE**
[72] HUMPHREY, PATRICK G., US
[71] LI-COR, INC., US
[85] 2021-12-31
[86] 2020-06-30 (PCT/US2020/040249)
[87] (WO2021/003131)
[30] US (62/869,361) 2019-07-01
[30] US (16/911,898) 2020-06-25

[21] **3,145,800**
[13] A1
[51] **Int.Cl. A61K 35/50 (2015.01) C12N 5/073 (2010.01) A61P 19/02 (2006.01) C12N 5/02 (2006.01) C12N 13/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS DERIVED FROM HUMAN AMNION CELLS & RELATED METHODS**
[54] **COMPOSITIONS DERIVEES DE CELLULES D'AMNIOS HUMAIN ET PROCEDES ASSOCIES**
[72] KELLAR, ROBERT S., US
[72] DILLER, ROBERT B., US
[72] AUDET, ROBERT G., US
[72] LEE, ERIC T., US
[72] VO, ANDREW T., US
[71] AXOLOTL BIOLOGIX, INC., US
[85] 2021-12-30
[86] 2020-08-10 (PCT/US2020/045664)
[87] (WO2021/030292)
[30] US (62/884,987) 2019-08-09
[30] US (62/895,444) 2019-09-03

[21] **3,145,801**
[13] A1
[51] **Int.Cl. F23H 7/08 (2006.01) F23H 1/02 (2006.01) F23H 11/18 (2006.01) F27D 3/12 (2006.01)**
[25] EN
[54] **GRATE BLOCK FOR A COMBUSTION GRATE**
[54] **BLOC DE GRILLE POUR UNE GRILLE DE COMBUSTION**
[72] WALDNER, MAURICE HENRI, CH
[71] HITACHI ZOSEN INOVA AG, CH
[85] 2021-12-31
[86] 2020-07-01 (PCT/EP2020/068504)
[87] (WO2021/004852)
[30] EP (19184560.1) 2019-07-05

[21] **3,145,802**
[13] A1
[51] **Int.Cl. E21B 19/084 (2006.01) E21B 17/20 (2006.01)**
[25] EN
[54] **STRUCTURE FOR TRANSPORT AND ORGANIZATION OF LARGE POWER CABLES ON A WELL SITE**
[54] **STRUCTURE POUR LE TRANSPORT ET L'ORGANISATION DE GROS CABLES D'ALIMENTATION SUR UN SITE DE PUITS**
[72] LUCAS, BRUCE CARL, US
[72] MILLICAN, CONNOR DAVID, US
[72] HUNTER, TIMOTHY HOLIMAN, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-12-30
[86] 2020-05-07 (PCT/US2020/031852)
[87] (WO2021/021266)
[30] US (62/881,903) 2019-08-01
[30] US (16/862,134) 2020-04-29

[21] **3,145,803**
[13] A1
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/14 (2006.01) A61F 13/06 (2006.01)**
[25] FR
[54] **DEVICE FOR PROTECTING THE PLANTAR PADDING**
[54] **DISPOSITIF DE PROTECTION DU CAPITON PLANTAIRE**
[72] LAURENT, HUGO, FR
[72] FONTAINE, THIERRY, FR
[72] TREPIER-LE BELLER, MARIA-LUISA, FR
[72] MARTIN, OCEANE, FR
[71] MILLET INNOVATION, FR
[85] 2021-12-24
[86] 2020-07-15 (PCT/IB2020/056647)
[87] (WO2021/009691)
[30] FR (19 08129) 2019-07-18

[21] **3,145,804**
[13] A1
[51] **Int.Cl. A62B 35/00 (2006.01) A62B 35/04 (2006.01)**
[25] EN
[54] **FALL-PROTECTION APPARATUS WITH MULTIMODAL INDUCTIVE SENSING**
[54] **APPAREIL DE PROTECTION CONTRE LES CHUTES AVEC DETECTION INDUCTIVE MULTIMODALE**
[72] LEPP, JONATHAN J., US
[72] BRIGHAM, SCOTT E., US
[72] SAFE, NATHAN W., US
[72] SHAVER, STEPHEN D., US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2021-12-31
[86] 2020-07-02 (PCT/IB2020/056252)
[87] (WO2021/005467)
[30] US (62/872,545) 2019-07-10

[21] **3,145,806**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12N 15/09 (2006.01) C12N 15/10 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **CAPTURE AND ANALYSIS OF TARGET GENOMIC REGIONS**
[54] **CAPTURE ET ANALYSE DE REGIONS GENOMIQUES CIBLES**
[72] NEVES, LEANDRO GOMIDE, US
[71] RAPID GENOMICS LLC, US
[85] 2021-12-30
[86] 2020-05-13 (PCT/US2020/032615)
[87] (WO2020/232081)
[30] US (62/846,988) 2019-05-13

[21] **3,145,807**
[13] A1
[51] **Int.Cl. A61N 1/00 (2006.01) A61N 1/05 (2006.01) A61N 1/18 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01)**
[25] EN
[54] **NEURAL BLOCK BY SUPER-THRESHOLD LOW FREQUENCY ELECTRICAL STIMULATION**
[54] **BLOCAGE NEURONAL PAR UNE STIMULATION ELECTRIQUE A BASSE FREQUENCE SUPERIEURE AU SEUIL**
[72] TAI, CHANGFENG, US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2021-12-31
[86] 2020-06-30 (PCT/US2020/040288)
[87] (WO2021/003151)
[30] US (62/870,230) 2019-07-03

[21] **3,145,809**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01) H04L 27/12 (2006.01) H04L 27/26 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS AND APPARATUSES FOR MODULATION-AGNOSTIC UNITARY BRAID DIVISION MULTIPLEXING SIGNAL TRANSFORMATION**
[54] **SYSTEMES, PROCEDES ET APPAREILS DE TRANSFORMATION DE SIGNAUX PAR MULTIPLEXAGE PAR DIVISION EN TRESSE UNITAIRE NE DEPENDANT PAS DE LA MODULATION**
[72] ROBINSON, MATTHEW BRANDON, US
[71] RAMPART COMMUNICATIONS, INC., US
[85] 2021-12-30
[86] 2020-06-25 (PCT/US2020/039606)
[87] (WO2021/003054)
[30] US (16/459,245) 2019-07-01
[30] US (16/889,324) 2020-06-01

[21] **3,145,810**
[13] A1
[51] **Int.Cl. C12N 5/02 (2006.01) C12N 5/071 (2010.01) C12N 5/04 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING CULTURE MEDIUM COMPOSITION FOR SUSPENSION CULTURING ADHERENT CELLS**
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION DE MILIEU DE CULTURE POUR LA CULTURE EN SUSPENSION DE CELLULES ADHERENTES**
[72] HATANAKA, DAISUKE, JP
[72] KANAKI, TATSURO, JP
[72] HAYASHI, HISATO, JP
[71] NISSAN CHEMICAL CORPORATION, JP
[85] 2021-12-31
[86] 2020-07-03 (PCT/JP2020/026130)
[87] (WO2021/002448)
[30] JP (2019-125536) 2019-07-04

[21] **3,145,812**
[13] A1
[51] **Int.Cl. G06Q 50/18 (2012.01)**
[25] EN
[54] **ANALYSIS OF INTELLECTUAL-PROPERTY DATA IN RELATION TO PRODUCTS AND SERVICES**
[54] **ANALYSE DE DONNEES DE PROPRIETE INTELLECTUELLE EN RELATION AVEC DES PRODUITS ET DES SERVICES**
[72] LEE, LEWIS C., US
[72] CROUSE, DANIEL, US
[72] ANDREWS, DAVID CRAIG, US
[72] FLEMING, SAMUEL CAMERON, US
[71] AON RISK SERVICES, INC. OF MARYLAND, US
[85] 2021-12-31
[86] 2020-06-30 (PCT/US2020/040357)
[87] (WO2021/003187)
[30] US (16/503,144) 2019-07-03
[30] US (16/503,187) 2019-07-03
[30] US (16/503,107) 2019-07-03
[30] US (16/503,164) 2019-07-03
[30] US (16/503,126) 2019-07-03

[21] **3,145,813**
[13] A1
[51] **Int.Cl. A61K 31/69 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07F 5/02 (2006.01)**
[25] EN
[54] **CHEMICAL COMPOUNDS**
[54] **COMPOSES CHIMIQUES**
[72] ZHOU, YASHEEN, US
[72] LIU, CHUN, YU, US
[72] LIU, CHUNLIANG, US
[72] ZHANG, YONG-KANG, US
[71] BORAH, INC., US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/070234)
[87] (WO2021/003501)
[30] US (62/870,537) 2019-07-03
[30] US (62/916,697) 2019-10-17
[30] US (62/916,700) 2019-10-17
[30] US (62/949,280) 2019-12-17
[30] US (62/949,301) 2019-12-17

[21] **3,145,814**
[13] A1
[51] **Int.Cl. G01S 19/03 (2010.01) G01S 19/21 (2010.01) H04K 3/00 (2006.01)**
[25] EN
[54] **A DEVICE, A SYSTEM, A METHOD AND COMPUTER PROGRAM PRODUCT FOR IDENTIFYING INTERFERING DEVICES IN POSITION MEASUREMENTS**
[54] **DISPOSITIF, SYSTEME, PROCEDE ET PRODUIT PROGRAMME INFORMATIQUE POUR IDENTIFIER DES DISPOSITIFS D'INTERFERENCE DANS DES MESURES DE POSITION**
[72] SEIBERT, JOACHIM ULRICH, NL
[72] PASTERNAK, MICHAEL, NL
[71] FNV IP B.V., NL
[85] 2021-12-31
[86] 2020-06-30 (PCT/NL2020/050430)
[87] (WO2021/002746)
[30] NL (2023416) 2019-07-01

[21] **3,145,816**
[13] A1
[51] **Int.Cl. A01N 43/40 (2006.01) A01N 25/00 (2006.01) A01P 1/00 (2006.01) C09D 5/14 (2006.01)**
[25] EN
[54] **DISINFECTANT COMPOSITION**
[54] **COMPOSITION DESINFECTANTE**
[72] HAYWARD, ADAM SIMON, GB
[72] PEREZ-PRAT VINUESA, EVA MARIA, GB
[71] THE PROCTOR & GAMBLE COMPANY, US
[85] 2021-12-31
[86] 2020-07-17 (PCT/US2020/070289)
[87] (WO2021/022290)
[30] EP (19188867.6) 2019-07-29

[21] **3,145,817**
[13] A1
[51] **Int.Cl. C10M 133/16 (2006.01) C10M 133/06 (2006.01) C10M 159/20 (2006.01) C10M 163/00 (2006.01)**
[25] EN
[54] **BASIC ASHLESS ADDITIVES AND LUBRICATING COMPOSITIONS CONTAINING SAME**
[54] **ADDITIFS BASIQUES SANS CENDRES ET COMPOSITIONS LUBRIFIANTES LES CONTENANT**
[72] SACCOMANDO, DANIEL J., GB
[72] BARTON, WILLIAM R.S., GB
[72] STONELY, AMELIA, GB
[72] ZHANG, YANSHI, US
[72] DELBRIDGE, EWAN E., US
[71] THE LUBRIZOL CORPORATION, US
[85] 2021-12-31
[86] 2020-07-01 (PCT/US2020/040485)
[87] (WO2021/003265)
[30] US (62/869,229) 2019-07-01

[21] **3,145,818**
[13] A1
[51] **Int.Cl. G02B 27/01 (2006.01)**
[25] EN
[54] **IMAGE WAVEGUIDE WITH SYMMETRIC BEAM MULTIPLICATION**
[54] **GUIDE D'ONDES D'IMAGE A MULTIPLICATION DE FAISCEAU SYMETRIQUE**
[72] RONEN, EITAN, IL
[72] CHRIKI, RONEN, IL
[72] MICHAELS, DANIEL, IL
[71] LUMUS LTD., IL
[85] 2022-01-03
[86] 2020-07-05 (PCT/IL2020/050753)
[87] (WO2021/001841)
[30] US (62/870,699) 2019-07-04

[21] **3,145,821**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07B 59/00 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS KINASE INHIBITORS**
[54] **COMPOSES HETEROCYCLIQUES EN TANT QU'INHIBITEURS DE KINASE**
[72] PHAM, SON MINH, US
[72] CHAKRAVARTY, SARVAJIT, US
[72] KANKANALA, JAYAKANTH, US
[72] PUJALA, BRAHMAM, IN
[72] SHETE, AMIT, IN
[72] GANGAR, MUKESH, IN
[72] BHATT, BHAWANA, IN
[72] MILLER, CHRIS P., US
[72] PETTIGREW, JEREMY D., CA
[71] NUVATION BIO INC., US
[85] 2021-12-31
[86] 2020-07-01 (PCT/US2020/040574)
[87] (WO2021/003314)
[30] US (62/870,021) 2019-07-02

[21] **3,145,822**
[13] A1
[51] **Int.Cl. A61F 6/00 (2006.01) A61F 6/04 (2006.01) B65B 5/04 (2006.01)**
[25] EN
[54] **A SEPARABLE PACKAGE**
[54] **EMBALLAGE SEPARABLE**
[72] PLATT, WILLIAM D., US
[72] ORYNIAK, CARYN CULLETON, US
[72] GILBERT, RICHARD JAMES ELLIOTT, US
[72] WHARTON, JONATHAN ANDREW, US
[72] HUY, GERHART P., US
[72] PINCHIAROLI, MICHAEL T., US
[72] RANJAN, RAJESH, US
[72] SCOYOC, VELISSA VAN, US
[72] SCHWEITZER, DAVID, US
[72] TAYLOR, JACOB, DANIEL, US
[71] CHURCH & DWIGHT CO., INC., US
[85] 2021-12-31
[86] 2020-06-30 (PCT/US2020/040304)
[87] (WO2021/011188)
[30] US (62/873,424) 2019-07-12

[21] **3,145,823**
[13] A1
[51] **Int.Cl. C08F 2/04 (2006.01) C08F 4/00 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **HIGH TEMPERATURE SOLUTION PROCESS FOR THE COPOLYMERIZATION OF A-OLEFINS**
[54] **PROCEDE EN SOLUTION HAUTE TEMPERATURE POUR LA COPOLYMERISATION D'A-OLEFINES**
[72] AL-HAJ ALI, MOHAMMAD, FI
[72] AJELLAL, NOUREDDINE, FI
[71] BOREALIS AG, AT
[85] 2022-01-04
[86] 2020-07-08 (PCT/EP2020/069209)
[87] (WO2021/005094)
[30] EP (19185479.3) 2019-07-10

[21] **3,145,824**
[13] A1
[51] **Int.Cl. A61K 31/7084 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR ENHANCING THERAPEUTIC COMPLIANCE OF THE ANTI-CANCER COMPOUND E7766**
[54] **SYSTEME PERMETTANT D'AMELIORER L'OBSERVANCE THERAPEUTIQUE DU COMPOSE ANTI-CANCEREUX E7766**
[72] JIANG, RONGRONG, US
[72] DIXIT, VAISHALI, US
[71] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2021-12-31
[86] 2020-07-01 (PCT/US2020/040515)
[87] (WO2021/003279)
[30] US (62/869,389) 2019-07-01

[21] **3,145,825**
[13] A1
[51] **Int.Cl. B05B 11/00 (2006.01) B65D 1/02 (2006.01) B65D 25/34 (2006.01) B65D 85/84 (2006.01)**
[25] EN
[54] **DISPENSING BOTTLE**
[54] **BOUTEILLE DE DISTRIBUTION**
[72] TILK, JASON, US
[72] COX, PETER, IE
[72] DOOGAN, GLEN, IE
[72] O'SULLIVAN, PETER, IE
[72] PAYUMO, MAYNARD, US
[71] HENKEL IP & HOLDING GMBH, DE
[85] 2022-01-03
[86] 2020-07-01 (PCT/US2020/040448)
[87] (WO2021/003237)
[30] US (16/458,957) 2019-07-01

[21] **3,145,826**
[13] A1
[51] **Int.Cl. E04B 2/88 (2006.01) E04B 2/90 (2006.01)**
[25] EN
[54] **FACADE PANEL WITH INTEGRATED WINDOW SYSTEM**
[54] **PANNEAU DE FACADE AVEC SYSTEME DE FENETRE INTEGRE**
[72] LANG, OLIVER, CA
[72] WILSON, CYNTHIA, CA
[72] BLACKMAN, CLAYTON, CA
[72] KRIEG, OLIVER DAVID, CA
[71] INTELLIGENT CITY INC., CA
[85] 2022-01-04
[86] 2020-07-02 (PCT/CA2020/050919)
[87] (WO2021/007653)
[30] US (62/874,070) 2019-07-15

[21] **3,145,827**
[13] A1
[51] **Int.Cl. C07D 213/64 (2006.01) C07D 213/69 (2006.01) C07D 213/70 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS BET INHIBITORS**
[54] **COMPOSES HETEROCYCLIQUES UTILISES EN TANT QU'INHIBITEURS DE BET**
[72] PHAM, SON MINH, US
[72] CHAKRAVARTY, SARVAJIT, US
[72] KANKANALA, JAYAKANTH, US
[72] CHEN, JIYUN, US
[72] MILLER, CHRIS P., US
[72] PETTIGREW, JEREMY D., CA
[72] NAYAK, ANJAN KUMAR, IN
[72] BARDE, ANUP, IN
[71] NUVATION BIO INC., US
[85] 2021-12-31
[86] 2020-07-01 (PCT/US2020/040566)
[87] (WO2021/003310)
[30] US (62/870,020) 2019-07-02
[30] US (63/017,547) 2020-04-29

[21] **3,145,828**
[13] A1
[51] **Int.Cl. F27B 14/10 (2006.01) B60L 50/60 (2019.01) C09K 5/06 (2006.01) C09K 5/12 (2006.01)**
[25] EN
[54] **CONTAINER DEVICE FOR MOLTEN METAL AND VEHICLE**
[54] **DISPOSITIF FORMANT RECIPIENT POUR METAUX EN FUSION ET VEHICULE**
[72] ALTSTEDDE KLEIN, MIRKO, DE
[72] KRAFT, WERNER, DE
[72] LANZ, TIM, DE
[72] SHI, YUAN, DE
[72] JILG, VERONIKA, DE
[72] KOCH, DIETMAR, DE
[71] DEUTSCHES ZENTRUM FUR LUFT- UND RAUMFAHRT E.V., DE
[85] 2022-01-04
[86] 2020-06-18 (PCT/EP2020/066983)
[87] (WO2021/001163)
[30] DE (10 2019 118 105.4) 2019-07-04

[21] **3,145,829**
[13] A1
[51] **Int.Cl. H04N 7/10 (2006.01) G06Q 40/00 (2012.01) H04N 7/025 (2006.01)**
[25] EN
[54] **INTEGRATED SEARCHING OF DATA IN CAMPAIGN PLANNING**
[54] **RECHERCHE INTEGREE DE DONNEES DANS UNE PLANIFICATION DE CAMPAGNE**
[72] PERLMAN, JENNIFER WERTHER, US
[72] PAQUETTE, CHRISTOPHER T., US
[71] DEEPINTENT, INC., US
[85] 2021-12-30
[86] 2020-06-25 (PCT/US2020/039688)
[87] (WO2021/003060)
[30] US (16/503,256) 2019-07-03

[21] **3,145,830**
[13] A1
[51] **Int.Cl. A61K 31/01 (2006.01) A61K 31/045 (2006.01) A61K 31/352 (2006.01)**
[25] EN
[54] **HEMP EXTRACT FOR TREATMENT OF PAIN, CANCER AND EPILEPSY IN ANIMALS**
[54] **EXTRAIT DE CHANVRE POUR LE TRAITEMENT DE LA DOULEUR, DU CANCER ET DE L'EPILEPSIE CHEZ LES ANIMAUX**
[72] KJAER, CHRISTIAN, US
[72] HOWLAND, AMANDA, US
[72] WAKSHLAG, JOE, US
[71] ELLEVET SCIENCES, US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040614)
[87] (WO2021/003341)
[30] US (62/870,043) 2019-07-02
[30] US (62/962,114) 2020-01-16

[21] **3,145,831**
[13] A1
[51] **Int.Cl. E01F 9/60 (2016.01) E04B 1/24 (2006.01) E04H 12/22 (2006.01) F16B 9/02 (2006.01) F16B 37/00 (2006.01)**
[25] EN
[54] **POST SUPPORT AND RELATED METHODS**
[54] **SUPPORT DE POTEAU ET PROCEDES ASSOCIES**
[72] SHEDDEN, TIMOTHY, AU
[72] SHEDDEN, JAMIE, AU
[72] SHEDDEN, JASON, AU
[71] TOPAZ TRADING PTY LTD, AU
[85] 2022-01-04
[86] 2020-07-03 (PCT/AU2020/050698)
[87] (WO2021/003524)
[30] AU (2019902393) 2019-07-05

[21] **3,145,832**
[13] A1
[51] **Int.Cl. H04B 7/0413 (2017.01) H04B 7/06 (2006.01) H04L 1/06 (2006.01) H04L 5/00 (2006.01) H04L 27/26 (2006.01)**
[25] EN
[54] **COMMUNICATION SYSTEM AND METHOD USING LAYERED CONSTRUCTION OF ARBITRARY UNITARY MATRICES**
[54] **SYSTEME ET PROCEDE DE COMMUNICATION UTILISANT UNE STRUCTURE EN COUCHES DE MATRICES UNITAIRES ARBITRAIRES**
[72] ROBINSON, MATTHEW BRANDON, US
[71] RAMPART COMMUNICATIONS, INC., US
[85] 2021-12-30
[86] 2020-06-26 (PCT/US2020/039879)
[87] (WO2021/003072)
[30] US (16/459,262) 2019-07-01

[21] **3,145,833**
[13] A1
[51] **Int.Cl. A61K 39/21 (2006.01) A61P 37/00 (2006.01) C12N 15/861 (2006.01) C12N 15/863 (2006.01)**
[25] EN
[54] **HIV ANTIGENS AND MHC COMPLEXES**
[54] **ANTIGENES DU VIH ET COMPLEXES DU CMH**
[72] YELENSKY, ROMAN, US
[72] SUN, JAMES XIN, US
[72] KLEIN, JOSHUA, US
[72] JOOSS, KARIN, US
[72] SCALLAN, CIARAN DANIEL, US
[72] GITLIN, LEONID, US
[71] GRITSTONE BIO, INC., US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040630)
[87] (WO2021/003348)
[30] US (62/869,877) 2019-07-02
[30] US (63/029,981) 2020-05-26

[21] **3,145,834**
[13] A1
[51] **Int.Cl. A45F 5/10 (2006.01)**
[25] EN
[54] **CAMERA CARRYING SYSTEM WITH LOCKABLE STRAP AND TRIPOD ADAPTER**
[54] **SYSTEME DE SUPPORT DE CAMERA AVEC SANGLE VERROUILLABLE ET ADAPTATEUR DE TREPIED**
[72] CURSLEY, JIM, US
[71] JINX INNOVATIONS, LLC, US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040764)
[87] (WO2021/003437)
[30] US (62/869,733) 2019-07-02

[21] **3,145,835**
[13] A1
[51] **Int.Cl. F16C 7/00 (2006.01) F24S 25/13 (2018.01) F24S 25/70 (2018.01) E04B 1/38 (2006.01) F16C 9/00 (2006.01) F16S 3/08 (2006.01) F16B 43/00 (2006.01)**
[25] FR
[54] **TIE ROD FOR AN IN PARTICULAR TRELLIS STRUCTURE**
[54] **TIRANT POUR STRUCTURE NOTAMMENT EN TREILLIS**
[72] TORDO, JEROME, FR
[72] VIENNOIS, FABIEN, FR
[71] NEXANS, FR
[85] 2022-01-04
[86] 2020-06-16 (PCT/FR2020/051036)
[87] (WO2021/009425)
[30] FR (FR1907919) 2019-07-15

[21] **3,145,836**
[13] A1
[51] **Int.Cl. A23P 10/30 (2016.01) A61K 9/50 (2006.01) B01J 13/10 (2006.01) B01J 13/14 (2006.01)**
[25] EN
[54] **ENCAPSULATION OF LIPOPHILIC ACTIVES WHICH ARE SENSITIVE TO ACID DEGRADATION**
[54] **ENCAPSULATION D'AGENTS ACTIFS LIPOPHILES SENSIBLES A LA DEGRADATION DES ACIDES**
[72] KRILL, JOHN DAVID, CH
[72] TANG, QIONG, CH
[71] DSM IP ASSETS B.V., NL
[85] 2022-01-04
[86] 2020-07-17 (PCT/EP2020/070237)
[87] (WO2021/013710)
[30] EP (19187183.9) 2019-07-19

[21] **3,145,837**
[13] A1
[51] **Int.Cl. A47J 37/07 (2006.01) A47J 33/00 (2006.01)**
[25] EN
[54] **ADAPTABLE COOKING GRATE CONFIGURATION**
[54] **CONFIGURATION DE GRILLE DE CUISSON ADAPTABLE**
[72] HAMILTON, ANTHONY, US
[72] RAHMANI, RAMIN KHOSRAVI, US
[72] ROBERTS, BRUCE, US
[72] AHMED, MALLIK, US
[72] ABDALLAH, SLEIMAN, US
[71] W.C. BRADLEY CO., US
[85] 2021-12-31
[86] 2020-07-06 (PCT/US2020/040904)
[87] (WO2021/003481)

[21] **3,145,838**
[13] A1
[51] **Int.Cl. A61K 31/165 (2006.01) A61P 25/04 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) C07C 259/06 (2006.01)**
[25] FR
[54] **N-FORMYLHYDROXYLAMINES AS NEPRILYSIN (NEP) INHIBITORS, IN PARTICULAR AS MIXED INHIBITORS OF AMINOPEPTIDASE N (APN) AND NEPRILYSIN (NEP)**
[54] **N-FORMYLHYDROXYLAMINES EN TANT QU'INHIBITEURS DE LA NEPRILYSINE (NEP), EN PARTICULIER EN TANT QU'INHIBITEURS MIXTES DE L'AMINOPEPTIDASE N (APN) ET DE LA NEPRILYSINE (NEP)**
[72] PORAS, HERVE, FR
[72] FOURNIE-ZALUSKI, MARIE-CLAUDE, FR
[72] ROQUES, BERNARD, FR
[71] PHARMALEADS, FR
[85] 2022-01-04
[86] 2020-07-06 (PCT/FR2020/051190)
[87] (WO2021/005294)
[30] FR (1907537) 2019-07-05

[21] **3,145,839**
[13] A1
[51] **Int.Cl. C22C 1/03 (2006.01) B22D 7/02 (2006.01) C22C 24/00 (2006.01)**
[25] EN
[54] **PROCESS OF PREPARING A LITHIUM ALUMINUM ALLOY**
[54] **PROCEDE DE PREPARATION D'UN ALLIAGE LITHIUM-ALUMINIUM**
[72] SINA, YOUNES, US
[72] GREETER, WILLIAM ARTHUR, US
[72] MCGEORGE, BARRY, US
[71] LIVENT USA CORP., US
[85] 2021-12-31
[86] 2020-07-22 (PCT/US2020/043019)
[87] (WO2021/021510)
[30] US (62/879,308) 2019-07-26
[30] US (16/933,312) 2020-07-20

[21] **3,145,841**
[13] A1
[51] **Int.Cl. A23B 4/037 (2006.01) A23L 3/375 (2006.01) A23L 3/42 (2006.01) A23L 3/44 (2006.01)**
[25] FR
[54] **METHOD FOR DEHYDRATING LIQUID, SEMI-LIQUID OR PASTELIKE PRODUCTS, INCLUDING A PRESSURE CRYOGENIC STEP AND A LYOPHILIZATION STEP**
[54] **PROCEDE DE DESHYDRATATION DE PRODUITS LIQUIDES, SEMI-LIQUIDES OU PATEUX COMPRENANT UNE ETAPE DE CRYOGENIE SOUS PRESSION ET UNE ETAPE DE LYOPHILISATION**
[72] DESJARDINS-LAVISSE, ISABELLE, FR
[72] GILLET, GUILLAUME, FR
[71] GENIALIS, FR
[85] 2022-01-04
[86] 2020-07-06 (PCT/FR2020/051196)
[87] (WO2021/005298)
[30] FR (1907562) 2019-07-05

[21] **3,145,842**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 3/04 (2006.01)**
[25] EN
[54] **BIOREACTOR AND BIOREACTOR SYSTEM FOR CELL AND TISSUE GROWTH**
[54] **SYSTEME DE BIOREACTEUR POUR LA CULTURE CELLULAIRE ET TISSULAIRE**
[72] WRZESINSKI, KRZYSZTOF W., DK
[72] FEY, STEPHEN JOHN, DK
[71] CELVIVO APS, DK
[85] 2022-01-04
[86] 2020-07-02 (PCT/EP2020/068632)
[87] (WO2021/001472)
[30] EP (19184469.5) 2019-07-04

[21] **3,145,843**
[13] A1
[51] **Int.Cl. B65B 11/02 (2006.01) B65B 11/04 (2006.01) B65B 57/04 (2006.01) B65B 57/12 (2006.01)**
[25] EN
[54] **STRETCH WRAPPING MACHINE SUPPORTING MULTIPLE DISCRETE PRE-STRETCH AMOUNTS**
[54] **MACHINE D'EMBALLAGE SOUS FILM ETIRABLE SUPPORTANT DE MULTIPLES QUANTITES DISCRETES DE FILM PRE-ETIRE**
[72] MARTIN, CURTIS W., US
[71] LANTECH.COM, LLC, US
[85] 2021-12-31
[86] 2020-07-15 (PCT/US2020/042184)
[87] (WO2021/030000)
[30] US (62/884,832) 2019-08-09

[21] **3,145,845**
[13] A1
[51] **Int.Cl. A23F 5/32 (2006.01) A23F 5/28 (2006.01) A23F 5/30 (2006.01) A23F 5/34 (2006.01) A23F 5/38 (2006.01) A23F 5/40 (2006.01)**
[25] FR
[54] **HIGH-QUALITY LYOPHILIZED COFFEE AND METHOD FOR PREPARING SAME**
[54] **CAFE LYOPHILISE DE QUALITE SUPERIEURE ET SON PROCEDE DE PREPARATION**
[72] DESJARDINS-LAVISSE, ISABELLE, FR
[72] GILLET, GUILLAUME, FR
[71] GENIALIS, FR
[85] 2022-01-04
[86] 2020-07-06 (PCT/FR2020/051198)
[87] (WO2021/005300)
[30] FR (FR1907563) 2019-07-05

[21] **3,145,846**
[13] A1
[51] **Int.Cl. G02B 6/12 (2006.01) G02B 6/122 (2006.01) G02B 6/14 (2006.01)**
[25] EN
[54] **ASSEMBLY OF AN ACTIVE SEMICONDUCTOR COMPONENT AND OF A SILICON-BASED PASSIVE OPTICAL COMPONENT**
[54] **ASSEMBLAGE D'UN COMPOSANT SEMI-CONDUCTEUR ACTIF ET D'UN COMPOSANT OPTIQUE PASSIF A BASE DE SILICIUM**
[72] DEBREGEAS, HELENE, FR
[72] LELARGE, FRANCOIS, FR
[72] CARRARA, DAVID, FR
[71] ALMAE TECHNOLOGIES, FR
[85] 2022-01-04
[86] 2020-07-03 (PCT/EP2020/068800)
[87] (WO2021/004930)
[30] FR (1907521) 2019-07-05

[21] **3,145,847**
[13] A1
[51] **Int.Cl. A23L 33/16 (2016.01) C01G 9/02 (2006.01) C03C 1/00 (2006.01) C03C 8/04 (2006.01) C08K 3/00 (2018.01) C09C 1/04 (2006.01)**
[25] FR
[54] **METHOD FOR PREPARING MICROSPHERULES OF AN OXYGENATED ZINC COMPOUND**
[54] **PROCEDE DE PREPARATION DE MICROSPHERULES D'UN COMPOSE OXYGENE DE ZINC**
[72] ROUMACHE, OLIVIER, BE
[71] SOCIETE INDUSTRIELLE LIEGEOISE DES OXYDES SA, BE
[85] 2022-01-04
[86] 2020-07-30 (PCT/EP2020/071486)
[87] (WO2021/019002)
[30] BE (BE2019/5499) 2019-07-31

[21] **3,145,848**
[13] A1
[51] **Int.Cl. F17C 13/00 (2006.01) C10L 3/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING A FUEL FROM BIOGAS**
[54] **PROCEDE ET SYSTEME DE PRODUCTION D'UN COMBUSTIBLE A PARTIR DE BIOGAZ**
[72] DECHMAN, JOHN, CA
[72] FOODY, BRIAN, CA
[72] FOODY, PATRICK J., CA
[71] IOGEN CORPORATION, CA
[85] 2022-01-04
[86] 2020-07-06 (PCT/CA2020/050936)
[87] (WO2021/003564)
[30] US (62/872,007) 2019-07-09

[21] **3,145,851**
[13] A1
[51] **Int.Cl. H04L 9/06 (2006.01) H04L 9/08 (2006.01)**
[25] EN
[54] **ENHANCED SECURE ENCRYPTION AND DECRYPTION SYSTEM**
[54] **SYSTEME DE CHIFFREMENT ET DE DECHIFFREMENT SECURISE AMELIORE**
[72] HART, BRANDON, US
[72] ROACH, COURTNEY, US
[71] EVERYTHING BLOCKCHAIN TECHNOLOGY CORP., US
[85] 2021-12-31
[86] 2020-07-23 (PCT/US2020/043283)
[87] (WO2021/016459)
[30] US (62/878,637) 2019-07-25
[30] US (16/935,941) 2020-07-22

[21] **3,145,853**
[13] A1
[51] **Int.Cl. A23L 33/105 (2016.01) A61K 9/00 (2006.01) A61K 31/4425 (2006.01) A61K 36/48 (2006.01) A61K 36/74 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 13/12 (2006.01) A61P 25/22 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 27/16 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS USING TRIGONELLINE TO PRODUCE INTRACELLULAR NICOTINAMIDE ADENINE DINUCLEOTIDE (NAD+) FOR TREATING OR PREVENTING PHYSIOLOGICAL DISORDERS OR STATES**
[54] **COMPOSITIONS ET PROCEDES UTILISANT DE LA TRIGONELLINE POUR PRODUIRE DU NICOTINAMIDE ADENINE DINUCLEOTIDE (NAD+) INTRACELLULAIRE POUR TRAITER OU PREVENIR DES TROUBLES OU DES ETATS PHYSIOLOGIQUES**
[72] FEIGE, JEROME, CH
[72] MEMBREZ, MATHIEU, CH
[72] SORRENTINO, VINCENZO, CH
[72] CHRISTEN, STEFAN, CH
[72] GINER, MARIA PILAR, CH
[72] MOCO, SOFIA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-04
[86] 2020-07-03 (PCT/EP2020/068788)
[87] (WO2021/004922)
[30] US (62/870,986) 2019-07-05

[21] **3,145,854**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 31/00 (2006.01) A61K 35/00 (2006.01) A61K 47/02 (2006.01) A61L 27/00 (2006.01) A61P 19/00 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF A GEL-FORMING COMPOSITION**
[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION GELIFIANTE**
[72] BASTIANELLI, ENRICO, BE
[72] WINAND, JULIE, BE
[72] ENA, SABRINA, BE
[72] ZEIPPEN, CAROLINE, BE
[71] THERAVET SA, BE
[85] 2022-01-04
[86] 2020-07-07 (PCT/EP2020/069142)
[87] (WO2021/005069)
[30] EP (19184936.3) 2019-07-08

[21] **3,145,857**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 7/06 (2006.01) C07K 16/18 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-NEW YORK ESOPHAGEAL SQUAMOUS CELL CARCINOMA 1 (NY-ESO-1) ANTIGEN-BINDING PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE LIAISON A L'ANTIGENE DE CARCINOME 1 A CELLULES SQUAMEUSES DE L'□SOPHAGE ANTI-NEW YORK (NY-ESO-1) ET LEURS PROCEDES D'UTILISATION**
[72] BRAY, KEVIN A., US
[72] DELFINO, FRANK, US
[72] DILILLO, DAVID, US
[72] FRANKLIN, MATTHEW C., US
[72] KIRSHNER, JESSICA, US
[72] MACDONALD, DOUGLAS, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040642)
[87] (WO2021/003357)
[30] US (62/870,232) 2019-07-03
[30] US (63/020,177) 2020-05-05
[30] US (63/021,826) 2020-05-08

[21] **3,145,858**
[13] A1
[51] **Int.Cl. B61L 25/02 (2006.01) B61L 1/16 (2006.01)**
[25] EN
[54] **DEVICE FOR DETECTING A WHEEL ON A RAIL TRACK**
[54] **DISPOSITIF DE DETECTION D'UNE ROUE SUR UNE VOIE FERREE**
[72] VAN DER SCHRIECK, MAARTEN PIM, NL
[72] HEERES, REINIER WILLEM, FR
[72] KRANENBURG, WICHERT JAN, NL
[71] BUILD CONNECTED B.V., NL
[85] 2022-01-04
[86] 2020-06-25 (PCT/EP2020/067836)
[87] (WO2021/004800)
[30] NL (2023451) 2019-07-05

[21] **3,145,859**
[13] A1
[51] **Int.Cl. A62C 33/04 (2006.01)**
[25] FR
[54] **DEVICE FOR ASSISTING THE MANOEUVRES OF AT LEAST ONE PIPE**
[54] **DISPOSITIF D'ASSISTANCE AUX MANOEUVRES D'AU MOINS UN TUYAU**
[72] BOUKHILI, ABDELBAST, FR
[71] BOUKHILI, ABDELBAST, FR
[85] 2022-01-04
[86] 2020-07-02 (PCT/EP2020/068666)
[87] (WO2021/004883)
[30] FR (1907526) 2019-07-05

[21] **3,145,860**
[13] A1
[51] **Int.Cl. G01W 1/00 (2006.01)**
[25] EN
[54] **ANTENNA FOR USE WITH LIGHTNING DETECTION SENSOR**
[54] **ANTENNE POUR UTILISATION AVEC UN CAPTEUR DE DETECTION DE FOUDRE**
[72] STOCK, MICHAEL, US
[72] LAPIERRE, JEFF, US
[72] SONNENFELD, RICHARD, US
[72] GENEROUS, CURTIS, US
[71] EARTH NETWORKS, INC., US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040660)
[87] (WO2021/003367)
[30] US (62/870,248) 2019-07-03

[21] **3,145,862**
[13] A1
[51] **Int.Cl. G06F 3/01 (2006.01) A61B 5/11 (2006.01) G06K 11/00 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **MYOELECTRIC WEARABLE SYSTEM FOR FINGER MOVEMENT RECOGNITION**
[54] **SYSTEME PORTABLE MYOELECTRIQUE POUR LA RECONNAISSANCE DU MOUVEMENT DES DOIGTS**
[72] LLOYD, ERIK, CA
[72] JIANG, NING, CA
[72] HE, JIAYUAN, CA
[72] KOH, AUGUSTE, CA
[72] CHOPRA, TUSHAR, CA
[71] BRINK BIONICS INC., CA
[85] 2022-01-03
[86] 2020-07-03 (PCT/CA2020/050935)
[87] (WO2021/000056)
[30] US (62/870,626) 2019-07-03

[21] **3,145,863**
[13] A1
[51] **Int.Cl. A01H 6/46 (2018.01) C12N 15/113 (2010.01) A01H 1/00 (2006.01) A01H 1/06 (2006.01) A01H 5/00 (2018.01) C12N 9/02 (2006.01) C12N 15/09 (2006.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHOD FOR INCREASING YIELD IN PLANTS**
[54] **PROCEDE POUR AUGMENTER LE RENDEMENT DANS DES PLANTES**
[72] HIREL, BERTRAND, FR
[72] LASSAGNE, HERVE, FR
[72] PRAUD, SEBASTIEN, FR
[72] TIXIER, MARIE-HELENE, FR
[72] TERCE-LAFORGUE, THERESE, FR
[71] LIMAGRAIN EUROPE, FR
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2022-01-04
[86] 2020-07-03 (PCT/EP2020/068825)
[87] (WO2021/004938)
[30] EP (19305924.3) 2019-07-05

[21] **3,145,864**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 3/10 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **TYROSINE KINASE NON-RECEPTOR 1 (TNK1) INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE TYROSINE KINASE NON RECEPTEUR 1 (TNK1) ET LEURS UTILISATIONS**
[72] SIDDIQUI-JAIN, ADAM, US
[72] SEENISAMY, JEYAPRAKASHNARAYANAN, IN
[72] WARNER, STEVEN L., US
[72] WHATCOTT, CLIFFORD J., US
[72] BEARSS, DAVID J., US
[71] SUMITOMO DAINIPPON PHARMA ONCOLOGY, INC., US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040737)
[87] (WO2021/003417)
[30] US (62/870,415) 2019-07-03
[30] US (62/888,149) 2019-08-16
[30] US (62/934,167) 2019-11-12

[21] **3,145,865**
[13] A1
[51] **Int.Cl. B64D 11/00 (2006.01) B60R 5/00 (2006.01) B64D 9/00 (2006.01)**
[25] EN
[54] **AIRCRAFT OVERHEAD LUGGAGE BIN AND METHOD OF MODIFYING SAME**
[54] **PORTE-BAGAGES SUPERIEUR D'AERONEF ET SON PROCEDE DE MODIFICATION**
[72] RHEAUME, MICHEL, CA
[72] RUGGI, ELIO, CA
[71] MHI RJ AVIATION ULC, CA
[85] 2022-01-04
[86] 2020-09-23 (PCT/CA2020/051268)
[87] (WO2021/062524)
[30] US (62/909,945) 2019-10-03

[21] **3,145,867**
[13] A1
[51] **Int.Cl. A61K 31/138 (2006.01) A61P 35/00 (2006.01) C07C 217/18 (2006.01) C07C 217/54 (2006.01)**
[25] EN
[54] **SUSTAINED RELEASE COMPOSITIONS OF ENDOXIFEN**
[54] **COMPOSITIONS D'ENDOXIFENE A LIBERATION PROLONGEE**
[72] QUAY, STEVEN C., US
[72] VUTUKURU, NARESH KUMAR REDDY, US
[72] SHANMUGAM, SRINIVASAN, US
[71] ATOSSA THERAPEUTICS, INC., US
[85] 2021-12-31
[86] 2020-07-02 (PCT/US2020/040757)
[87] (WO2021/003433)
[30] US (62/870,656) 2019-07-03
[30] US (62/989,342) 2020-03-13
[30] US (63/021,549) 2020-05-07

[21] **3,145,868**
[13] A1
[51] **Int.Cl. A61K 31/407 (2006.01) A61K 31/438 (2006.01) A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 471/08 (2006.01) C07D 471/10 (2006.01) C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 487/10 (2006.01)**
[25] EN
[54] **N-METHYL, N-(6-(METHOXY)PYRIDAZIN-3-YL) AMINE DERIVATIVES AS AUTOTAXI N (ATX) MODULATORS FOR THE TREATMENT OF INFLAMMATORY AIRWAY OR FIBROTIC DISEASES**
[54] **DERIVES DE N-METHYL, N-(6-(METHOXY)PYRIDAZIN-3-YL) AMINE SERVANT DE MODULATEURS DE L'AUTOTAXINE (ATX) POUR LE TRAITEMENT DE MALADIES INFLAMMATOIRES DES VOIES RESPIRATOIRES OU FIBR OTIQUES**
[72] KUTTRUFF, CHRISTIAN ANDREAS, DE
[72] BRETSCHNEIDER, TOM, DE
[72] GODBOUT, CEDRICKX, DE
[72] KOOLMAN, HANNES FIEPKO, DE
[72] MARTYRES, DOMNIC, DE
[72] ROTH, GERALD JUERGEN, DE
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2022-01-04
[86] 2020-07-21 (PCT/EP2020/070547)
[87] (WO2021/013830)
[30] EP (19187617.6) 2019-07-22

[21] **3,145,869**
[13] A1
[51] **Int.Cl. G16H 20/13 (2018.01) G16H 40/60 (2018.01)**
[25] EN
[54] **DRUG DELIVERY DEVICE WITH ELECTRONICS AND POWER MANAGEMENT**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT DOTE D'ELECTRONIQUE ET A GESTION DE PUISSANCE**
[72] CALDERON OLIVERAS, ENRIQUE, ES
[72] KESTEN, AMIR, IL
[71] NORTON (WATERFORD) LIMITED, IE
[85] 2021-12-31
[86] 2020-07-06 (PCT/US2020/040879)
[87] (WO2021/007154)
[30] US (62/870,894) 2019-07-05

[21] **3,145,872**
[13] A1
[51] **Int.Cl. C07K 7/08 (2006.01) A61K 38/08 (2019.01) C07K 7/06 (2006.01) C07K 14/81 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **COMPOUNDS COMPRISING A FIBROBLAST ACTIVATION PROTEIN LIGAND AND USE THEREOF**
[54] **COMPOSES COMPRENANT UN LIGAND DE PROTEINE D'ACTIVATION DES FIBROBLASTES ET LEUR UTILISATION**
[72] OSTERKAMP, FRANK, DE
[72] ZBORALSKI, DIRK, DE
[72] SCHNEIDER, EBERHARD, DE
[72] HAASE, CHRISTIAN, DE
[72] PASCHKE, MATTHIAS, DE
[72] HOHNE, AILEEN, DE
[72] UNGEWISS, JAN, DE
[72] SMERLING, CHRISTIANE, DE
[72] REINEKE, ULRICH, DE
[72] BREDENBECK, ANNE, DE
[71] 3B PHARMACEUTICALS GMBH, DE
[85] 2022-01-04
[86] 2020-07-08 (PCT/EP2020/069308)
[87] (WO2021/005131)
[30] EP (19000325.1) 2019-07-08
[30] EP (19198810.4) 2019-09-20

[21] **3,145,873**
[13] A1
[51] **Int.Cl. A63B 21/04 (2006.01) A63B 21/055 (2006.01)**
[25] EN
[54] **STRAP CONNECTION SYSTEMS, QUICK CONNECTORS, AND RELATED SYSTEMS AND METHODS**
[54] **SYSTEMES D'ATTACHE DE SANGLE, ATTACHES RAPIDES ET SYSTEMES ET PROCEDES ASSOCIES**
[72] BUGEAUD, JASON P., CA
[72] IVANOV, SASHA KRISTOPHER, CA
[71] RUBBER RECON INC., CA
[85] 2022-01-04
[86] 2020-07-02 (PCT/CA2020/050923)
[87] (WO2021/000048)
[30] CA (3048519) 2019-07-02

[21] **3,145,877**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **IMMUNOTHERAPY TARGETING CELL SURFACE MARKER CD72 FOR THE TREATMENT OF B-CELL MALIGNANCIES**
[54] **IMMUNOTHERAPIE CIBLANT LE MARQUEUR DE SURFACE CELLULAIRE CD72 POUR LE TRAITEMENT DE MALIGNITES DES LYMPHOCYTES B**
[72] NIX, MATTHEW, US
[72] WIITA, ARUN, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-12-30
[86] 2020-07-02 (PCT/US2020/040749)
[87] (WO2021/003428)
[30] US (62/870,463) 2019-07-03

[21] **3,145,878**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/164 (2006.01) A61K 31/4168 (2006.01) A61K 31/728 (2006.01) A61K 33/06 (2006.01) A61K 33/14 (2006.01) A61K 35/16 (2015.01) A61K 45/06 (2006.01) A61K 47/36 (2006.01) A61L 27/12 (2006.01) A61L 27/54 (2006.01) A61L 27/56 (2006.01) A61L 27/58 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **A COMPOSITION, A KIT AND USE THEREOF**
[54] **COMPOSITION, KIT ET UTILISATION ASSOCIEE**
[72] BASTIANELLI, ENRICO, BE
[72] WINAND, JULIE, BE
[72] ZEIPPEN, CAROLINE, BE
[72] ENA, SABRINA, BE
[71] THERAVET SA, BE
[85] 2022-01-04
[86] 2020-07-07 (PCT/EP2020/069134)
[87] (WO2021/005064)
[30] EP (19184942.1) 2019-07-08

[21] **3,145,883**
[13] A1
[51] **Int.Cl. B62D 5/04 (2006.01) B62D 1/00 (2006.01)**
[25] EN
[54] **INTEGRATED VEHICLE GUIDANCE AND STEERING SYSTEM**
[54] **SYSTEME INTEGRE DE GUIDAGE ET DE DIRECTION DE VEHICULE**
[72] MCMICKELL, MICHAEL BRETT, US
[72] VILLELA, MARK ALAN, US
[72] KREIDER, THOMAS R., US
[72] BAKER, JONATHAN L., US
[72] RAMM, ANDREAS F., US
[71] AGJUNCTION LLC, US
[85] 2022-01-04
[86] 2020-01-28 (PCT/US2020/015484)
[87] (WO2021/021245)
[30] US (62/881,209) 2019-07-31

[21] **3,145,884**
[13] A1
[51] **Int.Cl. B65D 55/14 (2006.01) A61J 1/14 (2006.01) E05B 73/00 (2006.01) F25D 29/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR SECURITY AND TRACKING OF ITEMS**
[54] **DISPOSITIFS ET PROCEDES DE SECURITE ET DE SUIVI D'ARTICLES**
[72] LAFAUCI, MICHAEL A., US
[72] WAHL, JEFFREY R., US
[72] PINSKY, JONATHAN, US
[71] MIDAS HEALTHCARE SOLUTIONS, INC., US
[85] 2022-01-04
[86] 2020-07-08 (PCT/US2020/041257)
[87] (WO2021/007353)
[30] US (62/872,176) 2019-07-09
[30] US (62/873,614) 2019-07-12

[21] **3,145,886**
[13] A1
[51] **Int.Cl. A41D 27/00 (2006.01) A41D 27/10 (2006.01)**
[25] EN
[54] **LAYERED THUMBHOLE STRUCTURE**
[54] **STRUCTURE PASSE-POUCE EN COUCHES**
[72] FEAZELL, MICHELLE L., US
[72] HORNER, STEWART D., US
[72] KOSHKAROFF, IUSTINIA, US
[72] NORDSTROM, MATTHEW D, US
[71] NIKE INNOVATE C.V, US
[85] 2022-01-04
[86] 2020-08-20 (PCT/US2020/047104)
[87] (WO2021/041136)
[30] US (16/552,676) 2019-08-27

[21] **3,145,887**
[13] A1
[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/105 (2014.01) H04N 19/44 (2014.01) H04N 19/46 (2014.01)**
[25] EN
[54] **VIDEO CODING BITSTREAM EXTRACTION WITH IDENTIFIER SIGNALING**
[54] **EXTRACTION DE FLUX BINAIRE POUR UN CODAGE VIDEO AVEC SIGNALISATION D'IDENTIFIANTS**
[72] WANG, YE-KUI, US
[72] HENDRY, FNU, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-01-04
[86] 2020-06-15 (PCT/US2020/037780)
[87] (WO2021/006998)
[30] US (62/870,892) 2019-07-05

[21] **3,145,889**
[13] A1
[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/61 (2017.01) A61K 47/69 (2017.01) A61P 35/00 (2006.01) C07H 21/02 (2006.01)**
[25] EN
[54] **TRANS-CYCLOOCTENE BIOORTHOGONAL AGENTS AND USES IN CANCER AND IMMUNOTHERAPY**
[54] **AGENTS BIOORTHOGONAUX DE TRANS-CYCLOOCTENE ET LEURS UTILISATIONS DANS LE TRAITEMENT DU CANCER ET L'IMMUNOTHERAPIE**
[72] MEJIA ONETO, JOSE MANUEL, US
[72] YEE, NATHAN A., US
[72] SRINIVASAN, SANGEETHA, US
[72] ZAKHARIAN, MICHAEL, US
[71] TAMBO, INC., US
[85] 2022-01-04
[86] 2020-07-06 (PCT/US2020/040891)
[87] (WO2021/007160)
[30] US (62/871,051) 2019-07-05
[30] US (62/971,196) 2020-02-06
[30] US (62/981,401) 2020-02-25

[21] **3,145,890**
[13] A1
[51] **Int.Cl. B60P 7/08 (2006.01) B60P 7/12 (2006.01) B60P 7/14 (2006.01) A01D 87/12 (2006.01)**
[25] EN
[54] **TRANSPORT CART FOR PIECE GOODS**
[54] **CHARIOT DE TRANSPORT POUR CHARGE ISOLEE**
[72] HORNUNG, HUBERT, DE
[71] AGRARSYSTEME HORNUNG GMBH & CO. KG, DE
[85] 2022-01-04
[86] 2020-07-01 (PCT/EP2020/068487)
[87] (WO2021/001413)
[30] DE (10 2019 118 107.0) 2019-07-04

[21] **3,145,891**
[13] A1
[51] **Int.Cl. G01S 19/23 (2010.01) A01B 69/04 (2006.01) A01B 76/00 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **USING SMART-PHONES AND OTHER HAND-HELD MOBILE DEVICES IN PRECISION AGRICULTURE**
[54] **UTILISATION DE TELEPHONES INTELLIGENTS ET D'AUTRES DISPOSITIFS MOBILES PORTATIFS EN AGRICULTURE DE PRECISION**
[72] RAMACHANDRAN, SUBRAMANIAN R., US
[72] VILLELA, MARK ALAN, US
[71] AGJUNCTION LLC, US
[85] 2022-01-04
[86] 2020-07-24 (PCT/US2020/043605)
[87] (WO2021/021675)
[30] US (62/879,252) 2019-07-26

[21] **3,145,894**
[13] A1
[51] **Int.Cl. C07K 7/00 (2006.01) C07K 7/06 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **CELL PENETRATING PEPTIDES FOR INTRACELLULAR DELIVERY OF MOLECULES**
[54] **PEPTIDES PENETRANT LES CELLULES POUR ADMINISTRATION INTRACELLULAIRE DE MOLECULES**
[72] POYET, JEAN-LUC, FR
[72] MARIE-CARDINE, ANNE, FR
[72] HABAULT, JUSTINE, FR
[72] FRASER, CLAIRE, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] UNIVERSITE DE PARIS, FR
[85] 2022-01-04
[86] 2020-07-03 (PCT/EP2020/068790)
[87] (WO2021/004923)
[30] EP (19315060.4) 2019-07-05

[21] **3,145,896**
[13] A1
[51] **Int.Cl. A61L 2/20 (2006.01) A61L 2/06 (2006.01) A61L 2/26 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR STERILIZING MATERIAL**
[54] **APPAREIL ET PROCEDE DE STERILISATION DE MATERIEL**
[72] EVELAND, RANDAL W., US
[71] AMERICAN STERLIZER COMPANY, US
[85] 2022-01-04
[86] 2020-07-29 (PCT/US2020/043993)
[87] (WO2021/045853)
[30] US (16/562,516) 2019-09-06

[21] **3,145,899**
[13] A1
[51] **Int.Cl. C05C 11/00 (2006.01) A01G 22/15 (2018.01) A01G 7/06 (2006.01) A01G 31/00 (2018.01)**
[25] EN
[54] **METHOD FOR ENHANCING HYDROPONIC PLANT PRODUCTIVITY USING GLYCINE BETAINE**
[54] **PROCEDE D'AMELIORATION DE LA PRODUCTIVITE D'UNE PLANTE HYDROPONIQUE A L'AIDE DE GLYCINE BETAINE**
[72] DOUTRELUINGNE, THOMAS, FR
[71] DANSTAR FERMENT AG, CH
[85] 2022-01-04
[86] 2020-07-03 (PCT/EP2020/068816)
[87] (WO2021/001531)
[30] EP (19290050.4) 2019-07-04

[21] **3,145,901**
[13] A1
[51] **Int.Cl. C11D 3/14 (2006.01) C11D 11/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **STABLE ANHYDROUS DISH SOAP AND METHOD OF MAKING SAME**
[54] **SAVON A VAISSELLE ANHYDRE STABLE ET SON PROCEDE DE FABRICATION**
[72] NAQVI, SYED HUMZA, US
[71] ONE HOME BRANDS, INC., US
[85] 2021-10-13
[86] 2020-04-07 (PCT/US2020/027089)
[87] (WO2020/214455)
[30] US (62/836,298) 2019-04-19
[30] US (62/929,322) 2019-11-01

[21] **3,145,904**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A61K 35/742 (2015.01) A23L 33/135 (2016.01) A61K 9/19 (2006.01) A61P 25/00 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING BACTERIAL STRAINS**
[54] **COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES**
[72] MULDER, IMKE ELISABETH, GB
[72] REICHARDT, NICOLE, GB
[72] SAVIGNAC, HELENE, GB
[72] CHETAL, SASHA, GB
[72] DINAN, TED, IE
[72] CRYAN, JOHN, IE
[72] YUILLE, SAMANTHA, GB
[71] 4D PHARMA RESEARCH LIMITED, GB
[85] 2022-01-04
[86] 2020-07-03 (PCT/EP2020/068867)
[87] (WO2021/004958)
[30] EP (19184768.0) 2019-07-05
[30] GB (2000437.0) 2020-01-13
[30] EP (20156697.3) 2020-02-11

[21] **3,145,911**
[13] A1
[51] **Int.Cl. B82Y 10/00 (2011.01) G06N 10/00 (2022.01) G02B 3/00 (2006.01) G02B 19/00 (2006.01) G02B 21/32 (2006.01) G02B 27/09 (2006.01)**
[25] EN
[54] **MULTICHANNEL OPTOMECHANICAL ADDRESSING UNIT**
[54] **UNITE D'ADRESSAGE OPTOMECANIQUE A MULTIPLES CANAUX**
[72] WACHTER, CHRISTOPH, DE
[72] HOFER, BERND, DE
[72] SCHREIBER, PETER, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2022-01-04
[86] 2020-07-06 (PCT/EP2020/068966)
[87] (WO2021/004994)
[30] DE (10 2019 210 041.4) 2019-07-08

[21] **3,145,960**
[13] A1
[51] **Int.Cl. A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **N-METHYL, N-(6-(METHOXY)PYRIDAZIN-3-YL) AMINE DERIVATIVES AS AUTOTAXIN (ATX) MODULATORS FOR THE TREATMENT OF INFLAMMATORY AIRWAY OR FIBROTIC DISEASES**
[54] **DERIVES DE N-METHYL, N-(6-(METHOXY)PYRIDAZIN-3-YL) AMINE SERVANT DE MODULATEURS DE L'AUTOTAXINE (ATX) POUR LE TRAITEMENT DE MALADIES INFLAMMATOIRES DES VOIES RESPIRATOIRES OU FIBROTIQUES**
[72] KUTTRUFF, CHRISTIAN ANDREAS, DE
[72] GODBOUT, CEDRICKX, DE
[72] KOOLMAN, HANNES FIEPKO, DE
[72] ROTH, GERALD JUERGEN, DE
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2022-01-04
[86] 2020-07-21 (PCT/EP2020/070553)
[87] (WO2021/013833)
[30] EP (19187616.8) 2019-07-22

[21] **3,145,961**
[13] A1
[51] **Int.Cl. A61B 17/80 (2006.01)**
[25] EN
[54] **FRACTURE FIXATION PLATE FOR APPLICATION TO THE PROXIMAL HUMERUS**
[54] **PLAQUE DE FIXATION DE FRACTURE POUR L'APPLICATION SUR L'HUMERUS PROXIMAL**
[72] SCHALLBERGER, ALEX, CH
[72] BURKI, PATRICK, CH
[72] MOOR, BEAT KASPAR, CH
[72] GERBER, CHRISTIAN, CH
[71] BONEBRIDGE AG, CH
[85] 2022-01-04
[86] 2019-07-11 (PCT/CH2019/000020)
[87] (WO2021/003583)

[21] **3,145,962**
[13] A1
[51] **Int.Cl. F16L 37/23 (2006.01)**
[25] FR
[54] **MALE ELEMENT FOR A FLUIDIC COUPLING, FLUIDIC COUPLING COMPRISING SUCH A MALE ELEMENT, AND METHOD FOR ASSEMBLING SUCH A MALE ELEMENT**
[54] **ELEMENT MALE DE RACCORD FLUIDIQUE, RACCORD FLUIDIQUE COMPRENANT UN TEL ELEMENT MALE ET PROCEDE D'ASSEMBLAGE D'UN TEL ELEMENT MALE**
[72] TIBERGHIEN, ALAIN-CHRISTOPHE, FR
[72] DURIEUX, CHRISTOPHE, FR
[72] MOREL, FREDERIC, FR
[71] STAUBLI FAVERGES, FR
[85] 2022-01-04
[86] 2020-07-24 (PCT/EP2020/070926)
[87] (WO2021/018759)
[30] FR (FR1908526) 2019-07-26

[21] **3,145,963**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01) H04W 72/04 (2009.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RECEIVING SHARED CHANNELS FOR MULTI TRP TRANSMISSION**
[54] **SYSTEME ET PROCEDE DE RECEPTION DE CANAUX PARTAGES POUR TRANSMISSION A TRP MULTIPLE**
[72] JIANG, CHUANGXIN, CN
[72] LU, ZHAOHUA, CN
[72] LI, YU NGOK, CN
[72] ZHANG, SHUJUAN, CN
[72] XIAO, HUAHUA, CN
[71] ZTE CORPORATION, CN
[85] 2022-01-04
[86] 2019-07-04 (PCT/CN2019/094720)
[87] (WO2021/000324)

[21] **3,145,964**
[13] A1
[51] **Int.Cl. B33Y 30/00 (2015.01) H01J 3/02 (2006.01) H01J 37/065 (2006.01) H01J 37/075 (2006.01) H01J 37/305 (2006.01)**
[25] EN
[54] **ELECTRON GUN CATHODE TECHNOLOGY**
[54] **TECHNOLOGIE DE CATHODE DE CANON A ELECTRONS**
[72] LJUNGBLAD, ULRIC, SE
[72] STEPHANSEN, ROBIN, SE
[71] FREEMELT AB, SE
[85] 2022-01-04
[86] 2020-09-23 (PCT/EP2020/076485)
[87] (WO2021/058513)
[30] SE (1951071-8) 2019-09-23

[21] **3,145,965**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 31/485 (2006.01) A61P 25/36 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR NASAL DELIVERY**
[54] **COMPOSITION PHARMACEUTIQUE POUR ADMINISTRATION PAR VOIE NASALE**
[72] SAVMARKER, JONAS, SE
[72] RONN, ROBERT, SE
[72] FISCHER, ANDREAS, SE
[71] OREXO AB, SE
[85] 2022-01-04
[86] 2020-05-18 (PCT/GB2020/051207)
[87] (WO2021/005325)
[30] US (16/506,023) 2019-07-09

[21] **3,145,967**
[13] A1
[51] **Int.Cl. B29C 64/124 (2017.01) B33Y 10/00 (2015.01) B29C 64/314 (2017.01) B33Y 70/10 (2020.01)**
[25] EN
[54] **PROCESS**
[54] **PROCEDE**
[72] EDGAR, JONATHAN, GB
[72] MARIGO, MICHELE, GB
[72] MERCIER, GINA, IE
[71] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB
[85] 2022-01-04
[86] 2020-07-15 (PCT/GB2020/051698)
[87] (WO2021/009508)
[30] GB (1910106.2) 2019-07-15

[21] **3,145,968**
[13] A1
[51] **Int.Cl. C04B 41/85 (2006.01) F01N 3/022 (2006.01) F01N 3/023 (2006.01)**
[25] EN
[54] **TREATMENT OF PARTICULATE FILTERS**
[54] **TRAITEMENT DE FILTRES A PARTICULES**
[72] BURMESTER, SABINA, GB
[72] HOTCHKISS, THOMAS, GB
[72] MARVELL, DAVID, GB
[72] TURNER, JOHN, GB
[71] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB
[85] 2022-01-04
[86] 2020-08-13 (PCT/GB2020/051936)
[87] (WO2021/028691)
[30] GB (1911704.3) 2019-08-15

[21] **3,145,970**
[13] A1
[51] **Int.Cl. B01J 21/12 (2006.01) B01J 23/72 (2006.01) C04B 35/195 (2006.01) C04B 35/565 (2006.01) C04B 38/00 (2006.01) C04B 41/45 (2006.01)**
[25] EN
[54] **PARTICULATE FILTERS**
[54] **FILTRES A PARTICULES**
[72] BELLHAM, PETER, GB
[72] CHIFFEY, ANDREW, GB
[72] CLOWES, LUCY, GB
[72] HOTCHKISS, THOMAS, GB
[72] MARVELL, DAVID, GB
[72] TURNER, JOHN, GB
[72] WARREN, SARAH, GB
[71] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB
[85] 2022-01-04
[86] 2020-08-13 (PCT/GB2020/051937)
[87] (WO2021/028692)
[30] GB (1911702.7) 2019-08-15

[21] **3,145,972**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) A23L 7/00 (2016.01) A23L 33/185 (2016.01) A21D 13/064 (2017.01) A01H 6/46 (2018.01) A01H 5/00 (2018.01) A21D 2/26 (2006.01) A23J 1/12 (2006.01) C12N 15/29 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **DE-EPITOPED ALPHA GLIADIN AND USE OF SAME FOR THE MANAGEMENT OF CELIAC DISEASE AND GLUTEN SENSITIVITY**
[54] **ALPHA GLIADINE SANS EPITOPE ET SON UTILISATION POUR LA GESTION DE LA MALADIE COELIAQUE ET DE LA SENSIBILITE AU GLUTEN**
[72] OFRAN, YANAY, IL
[72] BEN-DAVID, MOSHE, IL
[72] BIRAN, ASSAF, IL
[72] ZAKIN, SHIRI, IL
[72] MARCU GARBER, ORLY, IL
[72] CHUPRIN, ANNA, IL
[71] UKKO INC., US
[85] 2022-01-04
[86] 2020-07-02 (PCT/IB2020/056263)
[87] (WO2021/001784)
[30] US (62/870,695) 2019-07-04

[21] **3,145,973**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61K 31/52 (2006.01) A61K 31/5377 (2006.01) A61K 31/538 (2006.01) A61K 31/675 (2006.01) A61P 35/00 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 473/00 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **HPK1 INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE HPK1 ET LEURS UTILISATIONS**
[72] ZHONG, WENGE, US
[72] ZHU, XIAOTIAN, US
[72] FENG, SONG, CN
[72] WU, LEI, CN
[72] HUANG, WEI, CN
[72] LIU, HAO, US
[72] LIU, RONGQIANG, US
[72] WEN, KATE XIN, CN
[72] ZHOU, HUA, CN
[71] QILU REGOR THERAPEUTICS INC., CN
[85] 2022-01-04
[86] 2020-07-03 (PCT/CN2020/100134)
[87] (WO2021/000935)
[30] CN (PCT/CN2019/094634) 2019-07-04

[21] **3,145,974**
[13] A1
[51] **Int.Cl. A61K 33/20 (2006.01) A61P 17/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC USES OF OXIDISING HYPOTONIC ACID SOLUTIONS**
[54] **UTILISATIONS THERAPEUTIQUES DE SOLUTIONS ACIDES OXYDANTES HYPOTONIQUES**
[72] REINER, GIORGIO, IT
[72] GALFETTI, PAOLO, CH
[72] DE NONI, ROBERTO, CH
[71] APR APPLIED PHARMA RESEARCH, S.A., CH
[85] 2022-01-04
[86] 2020-07-02 (PCT/IB2020/056277)
[87] (WO2021/001789)
[30] US (62/870,096) 2019-07-03
[30] US (62/870,100) 2019-07-03
[30] US (62/935,283) 2019-11-14
[30] US (62/937,884) 2019-11-20
[30] US (62/937,885) 2019-11-20

[21] **3,145,976**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/745 (2015.01)**
[25] EN
[54] **BIFIDOBACTERIUM BIFIDUM BACTERIAL STRAIN, THE COMPOSITIONS THEREOF AND RELATED USES**
[54] **SOUCHE BACTERIENNE DE BIFIDOBACTERIUM BIFIDUM, COMPOSITIONS ASSOCIEES ET UTILISATIONS ASSOCIEES**
[72] GUGLIELMETTI, SIMONE DOMENICO, IT
[72] TAVERNITI, VALENTINA, IT
[72] BIFFI, ANDREA, IT
[72] FIORE, WALTER, IT
[71] SOFAR S.P.A., IT
[85] 2022-01-04
[86] 2020-07-08 (PCT/IB2020/056423)
[87] (WO2021/005529)
[30] IT (102019000011193) 2019-07-08

[21] **3,145,977**
[13] A1
[51] **Int.Cl. A61N 1/05 (2006.01)**
[25] EN
[54] **AUTOMATED WEARABLE BELT CARDIAC DEFIBRILLATOR**
[54] **DEFIBRILLATEUR CARDIAQUE AUTOMATISE VESTIMENTAIRE SE PORTANT COMME UNE CEINTURE**
[72] STROMMER, GERA, IL
[72] BRODER, AVRAHAM, IL
[72] FISHEL, ROBERT, US
[72] SHMARAK, ITZIK, IL
[71] NEWPACE LTD., IL
[85] 2022-01-04
[86] 2020-08-26 (PCT/IB2020/057988)
[87] (WO2021/038471)
[30] US (62/892,090) 2019-08-27

[21] **3,145,979**
[13] A1
[51] **Int.Cl. A01N 43/50 (2006.01) A01P 21/00 (2006.01)**
[25] EN
[54] **PLANT GROWTH REGULATOR AND METHOD FOR PROMOTING PLANT GROWTH**
[54] **REGULATEUR DE CROISSANCE VEGETALE ET PROCEDE POUR FAVORISER LA CROISSANCE VEGETALE**
[72] KOSHIYAMA, TATSUYUKI, JP
[72] EIZUKA, TAKAYOSHI, JP
[71] KUREHA CORPORATION, JP
[85] 2022-01-04
[86] 2020-06-15 (PCT/JP2020/023333)
[87] (WO2021/005970)
[30] JP (2019-128636) 2019-07-10

[21] **3,145,980**
[13] A1
[51] **Int.Cl. H04W 92/00 (2009.01) H04W 24/02 (2009.01) H04W 92/04 (2009.01)**
[25] EN
[54] **METHOD FOR SUPPORTING PORT CONTROL AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE PRISE EN CHARGE DE COMMANDE DE PORT**
[72] KE, XIAOWAN, CN
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2022-01-04
[86] 2020-07-03 (PCT/CN2020/100161)
[87] (WO2021/004393)
[30] CN (201910606117.7) 2019-07-05

[21] **3,145,981**
[13] A1
[51] **Int.Cl. B23K 37/02 (2006.01) B23K 9/095 (2006.01) B23K 9/12 (2006.01) B23K 9/127 (2006.01)**
[25] EN
[54] **WELDING CONTROL METHOD AND WELDING CONTROL DEVICE FOR PORTABLE WELDING ROBOT, PORTABLE WELDING ROBOT, AND WELDING SYSTEM**
[54] **PROCEDE DE COMMANDE DE SOUDAGE ET DISPOSITIF DE COMMANDE DE SOUDAGE POUR ROBOT DE SOUDAGE PORTABLE, ROBOT DE SOUDAGE PORTABLE, ET SYSTEME DE SOUDAGE**
[72] YASHIMA, TAKASHI, JP
[72] KODAMA, MASARU, JP
[72] TODA, SHINOBU, JP
[72] KAWASAKI, HIROFUMI, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL., LTD.), JP
[71] KOBELCO ROBOTIX CO., LTD., JP
[85] 2022-01-04
[86] 2020-03-17 (PCT/JP2020/011678)
[87] (WO2021/024540)
[30] JP (2019-145780) 2019-08-07

[21] **3,145,983**
[13] A1
[51] **Int.Cl. A61K 6/887 (2020.01) C08F 220/34 (2006.01) C08F 220/60 (2006.01)**
[25] EN
[54] **ANTIBACTERIAL POLYMER PARTICLES, COMPOSITION, AND ARTICLE**
[54] **PARTICULES POLYMERES ANTIBACTERIENNES, COMPOSITION ET ARTICLE**
[72] TAKAHASHI, MAKOTO, JP
[72] KONO, TOMOKI, JP
[72] MIYAGAWA, AZUSA, JP
[72] FUKUYO, YURI, JP
[71] GC CORPORATION, JP
[85] 2022-01-04
[86] 2020-06-29 (PCT/JP2020/025572)
[87] (WO2021/010154)
[30] JP (2019-130228) 2019-07-12

[21] **3,145,985**
[13] A1
[51] **Int.Cl. A23B 7/148 (2006.01) F24F 8/95 (2021.01) A01F 25/00 (2006.01) A01F 25/22 (2006.01) A23L 3/3418 (2006.01) B65D 88/74 (2006.01) F25D 13/00 (2006.01) F25D 17/04 (2006.01)**
[25] EN
[54] **INTERIOR AIR-CONDITIONING DEVICE**
[54] **DISPOSITIF DE CONDITIONNEMENT D'AIR INTERIEUR**
[72] NISHIMOTO, MOTOMI, JP
[72] TANAKA, NAOHIRO, JP
[71] DAIKIN INDUSTRIES, LTD., JP
[85] 2022-01-04
[86] 2020-07-09 (PCT/JP2020/026842)
[87] (WO2021/006312)
[30] JP (2019-128406) 2019-07-10

[21] **3,145,986**
[13] A1
[51] **Int.Cl. A45C 7/00 (2006.01) B65D 33/16 (2006.01) B65D 33/24 (2006.01) B65D 33/25 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A COMPRESSIBLE POUCH**
[54] **SYSTEMES ET PROCEDES POUR UNE POCHE COMPRESSIBLE**
[72] KURI, ISABEL, US
[72] KURI, ISABEL, US
[71] POKETINS LLC, US
[71] KURI, ISABEL, US
[85] 2022-01-04
[86] 2020-04-02 (PCT/US2020/026284)
[87] (WO2021/002906)

[21] **3,145,987**
[13] A1
[25] EN
[54] **SEAMLESS MULTI-CLOUD SDWAN DISASTER RECOVERY USING ORCHESTRATION PLANE**
[54] **REPRISE SUR SINISTRE DANS UN SD-WAN MULTICLOUD SANS COUPURE VIA UN PLAN ORCHESTRATION**
[72] AGGARWAL, MOHIT, US
[72] KHARE, MOHIL, US
[72] PRABHU, VINAY, US
[72] DEV, KAPIL, US
[72] JOHN, GINO, US
[72] GOWDA, PRADEEP BUDANURU KENCHE, US
[72] MOSHILI, FARQAD, US
[71] CISCO TECHNOLOGY, INC., US
[85] 2022-01-04
[86] 2020-06-30 (PCT/US2020/040344)
[87] (WO2021/007074)
[30] US (62/872,125) 2019-07-09
[30] US (16/806,750) 2020-03-02

[21] **3,145,988**
[13] A1
[51] **Int.Cl. H04W 74/08 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] YANG, MAO, CN
[72] LI, BO, CN
[72] LI, YUNBO, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-01-04
[86] 2020-07-03 (PCT/CN2020/100211)
[87] (WO2021/004396)
[30] CN (201910606607.7) 2019-07-05

[21] **3,145,989**
[13] A1
[51] **Int.Cl. A01K 1/01 (2006.01)**
[25] EN
[54] **URINAL FOR PETS**
[54] **URINOIR POUR ANIMAUX DE COMPAGNIE**
[72] LOSANTOS CALVO, JESUS ANGEL, ES
[71] STOCK GARDEN GROUP, S.L., ES
[85] 2022-01-04
[86] 2019-07-10 (PCT/ES2019/070483)
[87] (WO2021/005248)

[21] **3,145,990**
[13] A1
[51] **Int.Cl. A61K 38/16 (2006.01) A61P 31/04 (2006.01) C07K 14/01 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL, BACTERIOPHAGE-DERIVED POLYPEPTIDES AND THEIR USE AGAINST GRAM-NEGATIVE AND ACID-FAST BACTERIA**
[54] **POLYPEPTIDES ANTIMICROBIENS, DERIVES DE BACTERIOPHAGE ET LEUR UTILISATION CONTRE DES BACTERIES GRAM-NEGATIVES ET ACIDO-RESISTANTES**
[72] SCHUCH, RAYMOND, US
[71] CONTRAFECT CORPORATION, US
[85] 2022-01-04
[86] 2020-07-02 (PCT/US2020/040714)
[87] (WO2021/007107)
[30] US (62/870,908) 2019-07-05
[30] US (62/892,783) 2019-08-28
[30] US (62/911,900) 2019-10-07
[30] US (62/948,052) 2019-12-13
[30] US (62/964,743) 2020-01-23

[21] **3,145,992**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) A61K 8/14 (2006.01) A61K 39/395 (2006.01) A61P 21/00 (2006.01) C07H 21/00 (2006.01)**
[25] EN
[54] **NON-VIRAL IMMUNO-TARGETING**
[54] **IMMUNO-CIBLAGE NON VIRAL**
[72] FROEHNER, STANLEY C., US
[72] WHITEHEAD, NICHOLAS P., US
[71] UNIVERSITY OF WASHINGTON, US
[85] 2022-01-04
[86] 2020-07-09 (PCT/US2020/041441)
[87] (WO2021/007453)
[30] US (62/872,425) 2019-07-10

[21] **3,145,993**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **SOLID-STATE FORMS OF RELUGOLIX**
[54] **FORMES A L'ETAT SOLIDE DE RELUGOLIX**
[72] PASCHALIDES, NICHOLAS, US
[71] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB
[85] 2022-01-04
[86] 2020-07-31 (PCT/US2020/044553)
[87] (WO2021/026011)
[30] US (62/882,297) 2019-08-02

[21] **3,145,995**
[13] A1
[51] **Int.Cl. G01N 21/78 (2006.01) G01N 31/22 (2006.01) G01N 33/52 (2006.01) G01N 33/53 (2006.01) G01N 33/94 (2006.01)**
[25] EN
[54] **ARYLALKYLAMINE, PYRROLE, INDOLE AND OPIATE DERIVATIVE CONCENTRATION DETERMINATION METHOD AND TEST KIT USING SAID METHOD**
[54] **PROCEDE POUR DETERMINER LA CONCENTRATION EN DERIVES D'ARYLALKYLAMINE, DE PYRROLE, D'INDOLE ET D'OPIACES ET TROUSSE D'ANALYSE UTILISANT CE PROCEDE**
[72] BLEI, FELIX, DE
[71] BLEI, FELIX, DE
[85] 2022-01-04
[86] 2020-06-30 (PCT/DE2020/100566)
[87] (WO2021/000997)
[30] DE (10 2019 117 739.1) 2019-07-01

[21] **3,145,996**
[13] A1
[51] **Int.Cl. C08J 11/06 (2006.01) B29B 17/02 (2006.01) C08J 3/12 (2006.01) C08J 11/02 (2006.01) C08L 23/06 (2006.01) C08L 23/12 (2006.01)**
[25] EN
[54] **ALDEHYDE CONTENT REDUCTION PROCESS AND RECYCLED POLYOLEFIN WITH LOW ALDEHYDE CONTENT**
[54] **PROCEDE DE REDUCTION DE LA TENEUR EN ALDEHYDES ET POLYOLEFINE RECYCLEE A FAIBLE TENEUR EN ALDEHYDES**
[72] VIJAY, SAMEER, AT
[71] BOREALIS AG, AT
[85] 2022-01-04
[86] 2020-07-06 (PCT/EP2020/068985)
[87] (WO2021/004999)
[30] EP (19184976.9) 2019-07-08

[21] **3,145,997**
[13] A1
[51] **Int.Cl. A61K 9/50 (2006.01) A61K 31/44 (2006.01) A61K 31/4418 (2006.01) A61K 31/519 (2006.01) A61K 47/36 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **DOSE DUMPING RESISTANT PHARMACEUTICAL COMPOSITIONS COMRISING VERINURAD**
[54] **COMPOSITIONS PHARMACEUTIQUES RESISTANTES A LA DECHARGE DE DOSE COMPRENANT DU VERINURAD**
[72] VON CORSWANT, CHRISTIAN, SE
[72] MALEKI, LALEH, SE
[71] ASTRAZENECA AB, SE
[85] 2022-01-04
[86] 2020-07-15 (PCT/EP2020/069941)
[87] (WO2021/009197)
[30] US (62/874,691) 2019-07-16

[21] **3,146,000**
[13] A1
[51] **Int.Cl. A61L 9/00 (2006.01) A61L 9/01 (2006.01) A61L 9/02 (2006.01) A61L 9/12 (2006.01) A61L 9/14 (2006.01) A61Q 15/00 (2006.01) B41J 2/045 (2006.01)**
[25] EN
[54] **METHOD OF ATOMIZING A FLUID COMPOSITION**
[54] **PROCEDE DE PULVERISATION D'UNE COMPOSITION DE FLUIDE**
[72] GIBSON, BRUCE DAVID, US
[72] BUSH, STEPHAN GARY, US
[72] NWACHUKWU, CHISOMAGA UGOCHI, US
[72] HOLLINGSHEAD, JUDITH ANN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-01-04
[86] 2020-07-15 (PCT/US2020/070273)
[87] (WO2021/011961)
[30] US (62/875,098) 2019-07-17

[21] **3,146,002**
[13] A1
[51] **Int.Cl. F03D 13/40 (2016.01) B60P 3/40 (2006.01)**
[25] EN
[54] **ROTATABLE SUPPORT FIXTURE FOR WIND TURBINE BLADES**
[54] **MONTURE DE SUPPORT ROTATIVE POUR PALES D'EOLIENNE**
[72] ALVAREZ, ALBERTO J., US
[72] SULLIVAN, ANDREW J., US
[71] BNSF LOGISTICS, LLC, US
[85] 2022-01-04
[86] 2020-08-14 (PCT/US2020/046373)
[87] (WO2021/041055)
[30] US (16/552,625) 2019-08-27

[21] **3,146,003**
[13] A1
[51] **Int.Cl. B24D 5/06 (2006.01)**
[25] EN
[54] **ABRASIVE SEGMENT FOR AN ABRASIVE ROLL, GRINDING MACHINE AND USE**
[54] **SEGMENT ABRASIF POUR UN ROULEAU DE PONCAGE, PONCEUSE ET UTILISATION**
[72] ANKERSEN, BENT, DK
[71] TYROLIT - SCHLEIFMITTELWERKE SWAROVSKI K.G., AT
[85] 2022-01-05
[86] 2020-07-09 (PCT/AT2020/060266)
[87] (WO2021/007603)
[30] AT (A 50642/2019) 2019-07-16

[21] **3,146,005**
[13] A1
[51] **Int.Cl. G06F 21/55 (2013.01) H04L 12/40 (2006.01)**
[25] EN
[54] **CAN BUS PROTECTION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE PROTECTION DE BUS CAN**
[72] WEE, COLIN, US
[72] LOVERDE, IAN, US
[72] THORNTON, DOUGLAS A., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2022-01-04
[86] 2020-07-22 (PCT/US2020/042995)
[87] (WO2021/016307)
[30] US (62/878,419) 2019-07-25

[21] **3,146,006**
[13] A1
[51] **Int.Cl. H04W 12/00 (2021.01) H04W 4/48 (2018.01)**
[25] EN
[54] **MULTI-STATE MESSENGING ANOMALY DETECTION FOR SECURING A BROADCAST NETWORK**
[54] **DETECTION D'ANOMALIE DE MESSAGERIE A ETATS MULTIPLES POUR SECURISER UN RESEAU DE DIFFUSION**
[72] MCCANTY, AARON, US
[72] GOODMAN, JASON, US
[72] THORNTON, DOUGLAS A., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2022-01-04
[86] 2020-07-22 (PCT/US2020/042963)
[87] (WO2021/016290)
[30] US (62/878,432) 2019-07-25

[21] **3,146,007**
[13] A1
[51] **Int.Cl. G06Q 50/18 (2012.01) G06Q 20/06 (2012.01) G06Q 20/00 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD OF ENFORCING AND MONITORING CONTRACTS**
[54] **SYSTEME ET PROCEDE D'APPLICATION ET DE SURVEILLANCE DE CONTRATS**
[72] OPOKU-WARE, ROMEO, CA
[72] RAPPARD, MATTHEW R., CA
[71] THREE LEFTS INC., CA
[85] 2022-01-05
[86] 2019-07-04 (PCT/CA2019/050925)
[87] (WO2020/006639)
[30] US (62/694,330) 2018-07-05

[21] **3,146,008**
[13] A1
[51] **Int.Cl. B01D 63/00 (2006.01) B01D 65/00 (2006.01) B01J 19/24 (2006.01) C02F 1/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FEEDING IMMERSED MEMBRANE UNITS**
[54] **SYSTEME ET PROCEDE D'ALIMENTATION D'UNITES DE MEMBRANE IMMERGEES**
[72] BENEDEK, DIANA, US
[72] BENNETT, CHARLES, CA
[72] LAKGHOMI, BABAK, CA
[71] FIBRACAST LTD., CA
[85] 2022-01-05
[86] 2019-07-16 (PCT/CA2019/050980)
[87] (WO2021/007646)

[21] **3,146,009**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06F 8/10 (2018.01)**
[25] EN
[54] **ORGANIZATION FRAMEWORK FOR NON-FUNCTIONAL REQUIREMENTS**
[54] **STRUCTURE ORGANISATIONNELLE POUR EXIGENCES NON FONCTIONNELLES**
[72] BHALLA, NISCHAL, CA
[72] SETHI, ROHIT KUMAR, CA
[72] SIVARANJAN, RAMANAN, CA
[72] FOROUGHI, EHSAN, CA
[72] WHITTINGTON, GEOFFREY CHARLES, CA
[72] MONTOPOLI, LETA, CA
[72] THAM, EMIN, CA
[72] VIRANI, HANIF, CA
[71] 1230604 BC LTD., CA
[85] 2022-01-05
[86] 2020-07-17 (PCT/CA2020/050994)
[87] (WO2021/007679)
[30] US (62/875,591) 2019-07-18

[21] **3,146,010**
[13] A1
[51] **Int.Cl. C11D 1/12 (2006.01) C11D 1/66 (2006.01) C11D 1/75 (2006.01) C11D 1/90 (2006.01) C11D 1/92 (2006.01) C11D 3/04 (2006.01) C11D 3/37 (2006.01) C11D 11/00 (2006.01) C11D 17/00 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **REDUCED MIST ALKALINE CLEANER VIA THE USE OF ALKALI SOLUBLE EMULSION POLYMERS**
[54] **AGENT DE NETTOYAGE ALCALIN A BUEE REDUITE PAR L'UTILISATION DE POLYMERES EN EMULSION SOLUBLES DANS LES ALCALIS**
[72] EMIRU, HILINA, US
[72] MAN, VICTOR FUK-PONG, US
[71] ECOLAB USA INC., US
[85] 2022-01-04
[86] 2020-07-13 (PCT/US2020/041772)
[87] (WO2021/011451)
[30] US (62/873,276) 2019-07-12

[21] **3,146,011**
[13] A1
[51] **Int.Cl. A61H 1/02 (2006.01) A61H 3/04 (2006.01) A63B 23/04 (2006.01)**
[25] EN
[54] **CAM AND NON-CIRCULAR GEAR PAIR FOR UNPOWERED MULTI-JOINT SYNCHRONOUS TRAINING DEVICE, MANUFACTURING METHOD THEREOF, TRANSMISSION MECHANISM USING THE SAME, AND UNPOWERED MULTI-JOINT SYNCHRONOUS TRAINING DEVICE**
[54] **PAIRE D'ENGRENAGES A CAME ET NON CIRCULAIRES POUR DISPOSITIF D'ENTRAINEMENT SYNCHRONE MULTIARTICULE NON ALIMENTE, SA METHODE DE FABRICATION, MECANISME DE TRANSMISSION L'UTILISANT, ET DISPOSITIF D'ENTRAINEMENT SYNCHRONE MULTIARTICULE NON ALIMENTE**
[72] SHUAI, MEI, CN
[71] BEIJING AI-ROBOTICS TECHNOLOGY CO., LTD., CN
[85] 2022-01-05
[86] 2019-09-06 (PCT/CN2019/104720)
[87] (WO2021/003835)
[30] CN (PCT/CN2019/095130) 2019-07-08

[21] **3,146,013**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **ENGINEERED REGULATORY T CELLS**
[54] **LYMPHOCYTES T REGULATEURS MODIFIES**
[72] YANKEE, THOMAS (DECEASED), US
[72] SENG, AMARA, US
[72] SZAREJKO, JOHN, US
[72] MARKIEWICZ, MARY, US
[72] FISCHER, RYAN, US
[71] THE CHILDREN'S MERCY HOSPITAL, US
[71] THE UNIVERSITY OF KANSAS, US
[85] 2022-01-04
[86] 2020-07-09 (PCT/US2020/041338)
[87] (WO2021/007396)
[30] US (62/871,946) 2019-07-09

[21] **3,146,016**
[13] A1
[51] **Int.Cl. H04N 19/132 (2014.01) H04N 19/159 (2014.01) H04N 19/61 (2014.01)**
[25] EN
[54] **VIRTUAL PREDICTION BUFFER FOR INTRA BLOCK COPY IN VIDEO CODING**
[54] **TAMPON DE PREDICTION VIRTUELLE POUR COPIE DE BLOC INTRA DANS UN CODAGE VIDEO**
[72] XU, JIZHENG, US
[72] ZHANG, LI, US
[72] ZHANG, KAI, US
[72] LIU, HONGBIN, CN
[72] WANG, YUE, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[71] BYTEDANCE INC., US
[85] 2022-01-05
[86] 2020-07-01 (PCT/CN2020/099702)
[87] (WO2021/004348)
[30] CN (PCT/CN2019/094957) 2019-07-06
[30] CN (PCT/CN2019/095297) 2019-07-09

[21] **3,146,017**
[13] A1
[51] **Int.Cl. G05D 23/19 (2006.01) G05B 13/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING THE TEMPERATURE OF A ROOM**
[54] **PROCEDE ET SYSTEME DE REGULATION DE LA TEMPERATURE D'UNE PIECE**
[72] SZARVAS, PETER, HU
[72] MIKE, SZABOLCS, HU
[71] CHAMELEON SMART HOME ZRT., HU
[85] 2022-01-04
[86] 2020-07-13 (PCT/HU2020/050030)
[87] (WO2021/009527)
[30] HU (P1900250) 2019-07-12

[21] **3,146,019**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **ANTI-DLL3 CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF**
[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES ANTI-DLL3 ET LEURS UTILISATIONS**
[72] ZHAO, TAO, CN
[72] PENG, YUANYUAN, CN
[72] TANG, AN, CN
[72] WANG, SUJUAN, CN
[72] YANG, SHUAI, CN
[72] ZHANG, WANG, CN
[72] WU, SHU, CN
[72] HAO, RUIDONG, CN
[71] NANJING LEGEND BIOTECH CO., LTD., CN
[85] 2022-01-05
[86] 2020-07-17 (PCT/CN2020/102717)
[87] (WO2021/008610)
[30] CN (PCT/CN2019/096360) 2019-07-17
[30] CN (PCT/CN2020/090587) 2020-05-15

[21] **3,146,020**
[13] A1
[51] **Int.Cl. C22C 38/12 (2006.01) C22C 38/00 (2006.01)**
[25] EN
[54] **HIGH-MAGNETIC-INDUCTION ORIENTED SILICON STEEL AND MANUFACTURING MATHOD THEREFOR**
[54] **ACIER AU SILICIUM ORIENTE A INDUCTION MAGNETIQUE ELEVEE ET SON PROCEDE DE FABRICATION**
[72] ZHANG, HUABING, CN
[72] LI, GUOBAO, CN
[72] SHEN, KANYI, CN
[72] LIU, BAOJUN, CN
[72] HOU, CHANGJUN, CN
[72] ZHANG, XINQIANG, CN
[72] CHEN, JIANBING, CN
[72] WU, MEIHONG, CN
[72] MA, CHANGSONG, CN
[72] LIU, DESHENG, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2022-01-05
[86] 2020-08-11 (PCT/CN2020/108333)
[87] (WO2021/027797)
[30] CN (201910743291.6) 2019-08-13

[21] **3,146,021**
[13] A1
[51] **Int.Cl. B26D 3/26 (2006.01) B26D 7/06 (2006.01)**
[25] EN
[54] **HYDRO-MECHANICAL CUTTER**
[54] **DISPOSITIF DE COUPE HYDROMECANIQUE**
[72] HOWARD, GRAYDEN, US
[72] MONK, SAMUEL, US
[72] WONDERS, TAYLER, US
[72] FOW, MARK ALAN, US
[72] VAN DIJK, DIRK JACOB, NL
[71] LAMB WESTON, INC., US
[71] LAMB-WESTON/MEIJER V.O.F., NL
[85] 2022-01-04
[86] 2020-07-09 (PCT/US2020/041330)
[87] (WO2021/007393)
[30] US (62/871,911) 2019-07-09
[30] US (16/924,453) 2020-07-09

[21] **3,146,023**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) C12N 15/13 (2006.01) C12Q 1/68 (2018.01) C40B 30/04 (2006.01)**
[25] EN
[54] **ANTIBODIES BINDING IGC2 OF IGSF11 (VSIG3) AND USES THEREOF**
[54] **ANTICORPS DE LIANT A L'IGC2 DE L'IGSF11 (VSIG3) ET LEURS UTILISATIONS**
[72] ZANTOW, JONAS, DE
[72] URLINGER, STEFANIE, DE
[72] REGULA, JOERG THOMAS, DE
[72] GENSSLER, SABRINA, DE
[72] AIGNER, MAXIMILIAN, DE
[72] BRAENDLE, SIMONE, DE
[72] BISSINGER, STEFAN, DE
[72] MICHELS, TILLMAN, DE
[72] KHANDELWAL, NISIT, DE
[71] IOMX THERAPEUTICS AG, DE
[85] 2022-01-05
[86] 2020-07-06 (PCT/EP2020/069014)
[87] (WO2021/005009)
[30] EP (19184708.6) 2019-07-05

[21] **3,146,024**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/495 (2006.01) A61K 47/04 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01) A61P 25/24 (2006.01)**
[25] EN
[54] **COATED GRANULE, SOLID DISPERSION, AND PREPARATION CONTAINING VORTIOXETINE HYDROBROMIDE FOR ORAL TASTE MASKING**
[54] **GRANULE ENROBE, DISPERSION SOLIDE ET PREPARATION CONTENANT DU BROMHYDRATE DE VORTIOXETINE POUR MASQUAGE DU GOUT PAR VOIE ORALE**
[72] JIA, QIANG, CN
[72] HUANG, FA, CN
[72] WANG, RU, CN
[72] YANG, JINJIN, CN
[72] WEI, YOUBING, CN
[72] MA, TIANHUA, CN
[72] WANG, YUNZHONG, CN
[72] HU, YANYUN, CN
[72] CHU, CHANGHU, CN
[71] SEASONS BIOTECHNOLOGY (TAIZHOU) CO., LTD., CN
[85] 2022-01-05
[86] 2020-09-03 (PCT/CN2020/113341)
[87] (WO2021/043227)
[30] CN (201910571194.3) 2019-09-04

[21] **3,146,025**
[13] A1
[51] **Int.Cl. B60R 21/16 (2006.01) B60R 21/235 (2006.01) D01F 6/60 (2006.01) D03D 1/02 (2006.01) D03D 15/00 (2021.01)**
[25] EN
[54] **AIRBAG FABRIC**
[54] **TISSU DE COUSSIN GONFLABLE DE SECURITE**
[72] BONGARTZ, MARIANNE, DE
[72] FLACHENECKER, ANDREAS, DE
[72] VIETH, CHRISTIAN, DE
[72] SIEJAK, VOLKER, DE
[71] PHP FIBERS GMBH, DE
[85] 2022-01-05
[86] 2020-07-07 (PCT/EP2020/069107)
[87] (WO2021/008942)
[30] EP (19185915.6) 2019-07-12

[21] **3,146,026**
[13] A1
[51] **Int.Cl. A61K 31/36 (2006.01) A61K 38/17 (2006.01) A61K 45/06 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **USE OF IMMUNE MODULATORS TO IMPROVE NERVE REGENERATION**
[54] **UTILISATION DE MODULATEURS IMMUNITAIRES POUR AMELIORER LA REGENERATION NERVEUSE**
[72] KEEFER, EDWARD, US
[72] CHENG, JONATHAN, US
[72] VASUDEVAN, SRIKANTH, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[71] KEEFER, EDWARD, US
[85] 2022-01-04
[86] 2020-07-07 (PCT/US2020/040960)
[87] (WO2021/007192)
[30] US (62/871,552) 2019-07-08

[21] **3,146,028**
[13] A1
[51] **Int.Cl. A44B 11/25 (2006.01) A62B 35/00 (2006.01) B64D 25/06 (2006.01)**
[25] EN
[54] **BELT BUCKLE, BELT BUCKLE SYSTEM AND AIRCRAFT SAFETY BELT**
[54] **BOUCLE DE CEINTURE, SYSTEME DE BOUCLE DE CEINTURE ET CEINTURE DE SECURITE D'AVION**
[72] BEERMANN, ANDREAS, DE
[71] AIRCRAFT CABIN MODIFICATION GMBH, DE
[85] 2022-01-05
[86] 2020-07-01 (PCT/EP2020/068485)
[87] (WO2021/004848)
[30] EP (19185016.3) 2019-07-08

[21] **3,146,029**
[13] A1
[51] **Int.Cl. A23L 33/00 (2016.01) A23L 33/15 (2016.01) A23L 33/16 (2016.01) A23L 33/21 (2016.01) A61P 3/04 (2006.01)**
[25] EN
[54] **FOOD COMPOSITIONS FOR WEIGHT MANAGEMENT**
[54] **COMPOSITIONS ALIMENTAIRES POUR LA GESTION DU POIDS**
[72] SAMUEL, TINU MARY, CH
[72] WANG, DANTONG, CH
[72] FLEITH, MATHILDE, CH
[72] DRAPER, COLLEEN FOGARTY, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-05
[86] 2020-07-08 (PCT/EP2020/069188)
[87] (WO2021/005088)
[30] EP (19185652.5) 2019-07-11

[21] **3,146,030**
[13] A1
[51] **Int.Cl. G06K 7/01 (2006.01)**
[25] EN
[54] **PAYMENT CARD READING SYSTEM HAVING A PROTECTIVE FLAP**
[54] **SYSTEME DE LECTURE DE CARTE DE TRANSACTION AVEC VOLET DE PROTECTION**
[72] ALLIROT, RICHARD, FR
[72] MOREL, PIERRE, FR
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[85] 2022-01-05
[86] 2020-07-03 (PCT/EP2020/068767)
[87] (WO2021/008895)
[30] FR (FR1908008) 2019-07-16

[21] **3,146,032**
[13] A1
[51] **Int.Cl. A61L 2/28 (2006.01) G01N 31/22 (2006.01) A61B 90/70 (2016.01)**
[25] EN
[54] **COMPOSITION FOR PRODUCTION OF A TEST SOIL FOR ASSESSMENT OF THE CLEANING ACTION OF CLEANING DEVICES AND USE THEREOF**
[54] **COMPOSITION PERMETTANT DE PRODUIRE UNE SOUILLURE TEST POUR EVALUER L'ACTION DE NETTOYAGE DE DISPOSITIFS DE NETTOYAGE ET UTILISATION DE LADITE COMPOSITION**
[72] HOFER, MARTIN, DE
[72] SIMUNDIC, MARIO, DE
[71] MEIKO MASCHINENBAU GMBH & CO. KG, DE
[85] 2022-01-05
[86] 2020-07-08 (PCT/EP2020/069257)
[87] (WO2021/005111)
[30] DE (10 2019 210 089.9) 2019-07-09

[21] **3,146,033**
[13] A1
[51] **Int.Cl. G01S 7/41 (2006.01) G01S 13/90 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING OPERATIONAL PARAMETERS OF A SYNTHETIC APERTURE RADAR**
[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE PARAMETRES FONCTIONNELS D'UN RADAR A SYNTHESE D'OUVERTURE**
[72] NUTINI, JULIE, CA
[72] DE VOS, JAKLYN, CA
[72] FOX, PETER ALLEN, CA
[72] MACEDO JR., IVES JOSE DE ALBUQUERQUE, CA
[71] URTHECAST CORP., CA
[85] 2022-01-04
[86] 2020-07-06 (PCT/US2020/040921)
[87] (WO2021/086456)
[30] US (62/870,917) 2019-07-05

[21] **3,146,034**
[13] A1
[51] **Int.Cl. C02F 11/00 (2006.01)**
[25] EN
[54] **TREATMENT OF POLLUTED AQUEOUS LIQUIDS**
[54] **TRAITEMENT DE LIQUIDES AQUEUX POLLUES**
[72] BOROWSKI, BRIAN, US
[72] RUEHL, PAUL, US
[71] HOLCIM TECHNOLOGY LTD, CH
[85] 2022-01-05
[86] 2020-07-09 (PCT/EP2020/069390)
[87] (WO2021/005163)
[30] US (16/506,110) 2019-07-09

[21] **3,146,036**
[13] A1
[51] **Int.Cl. C21B 13/00 (2006.01) F27D 7/02 (2006.01) F27D 7/06 (2006.01) F27D 15/00 (2006.01)**
[25] EN
[54] **SEALING A REDUCTION ASSEMBLY**
[54] **ETANCHEIFICATION D'UNE UNITE DE REDUCTION**
[72] MILLNER, ROBERT, AT
[72] ROTHBERGER, JOHANNES, AT
[72] SATTLER, HANS THOMAS, AT
[71] PRIMETALS TECHNOLOGIES AUSTRIA GMBH, AT
[85] 2022-01-05
[86] 2020-07-03 (PCT/EP2020/068774)
[87] (WO2021/004914)
[30] EP (19184964.5) 2019-07-08

[21] **3,146,037**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/50 (2020.01) A61M 15/00 (2006.01)**
[25] EN
[54] **AEROSOL GENERATION DEVICE**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] BOUCHUIGUIR, LAYTH SLIMAN, CH
[72] PLEVNIK, MARKO, GB
[72] INOUE, NORIHIKO, GB
[71] JT INTERNATIONAL SA, CH
[85] 2022-01-05
[86] 2020-08-07 (PCT/EP2020/072306)
[87] (WO2021/023879)
[30] EP (19190866.4) 2019-08-08

[21] **3,146,040**
[13] A1
[51] **Int.Cl. A61K 31/4245 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **SUBSTITUTED CYANOPYRROLIDINES WITH ACTIVITY AS USP30 INHIBITORS**
[54] **CYANOPYRROLIDINES SUBSTITUEES AYANT UNE ACTIVITE EN TANT QU'INHIBITEURS DE L'USP30**
[72] THOMPSON, PAUL WILLIAM, GB
[72] LUCKHURST, CHRISTOPHER ANDREW, GB
[72] KEMP, MARK IAN, GB
[71] MISSION THERAPEUTICS LIMITED, GB
[85] 2022-01-05
[86] 2020-09-03 (PCT/EP2020/074540)
[87] (WO2021/043870)
[30] GB (1912674.7) 2019-09-04

[21] **3,146,042**
[13] A1
[51] **Int.Cl. E02D 17/08 (2006.01) E02D 17/12 (2006.01)**
[25] EN
[54] **TRENCH SHORING APPARATUS**
[54] **APPAREIL D'ETAYAGE DE TRANCHEE**
[72] MOLYNEUX, GLENN, GB
[71] SECURE GROUND SOLUTIONS LTD, GB
[85] 2022-01-05
[86] 2020-07-01 (PCT/GB2020/051579)
[87] (WO2021/009479)
[30] GB (1910006.4) 2019-07-12

[21] **3,146,043**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 9/24 (2006.01)**
[25] EN
[54] **SOFT CHEWABLE VETERINARY DOSAGE FORM**
[54] **FORME GALENIQUE VETERINAIRE A MACHER MOLLE**
[72] NORTHRUP, LAURA ANN, US
[72] FREEHAUF, KEITH, US
[72] WALDRON, NIKI, US
[72] SUSKO, TIMOTHY, US
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2022-01-05
[86] 2020-07-21 (PCT/EP2020/070527)
[87] (WO2021/013825)
[30] US (62/877070) 2019-07-22

[21] **3,146,045**
[13] A1
[51] **Int.Cl. G01J 5/20 (2006.01) G01J 5/04 (2006.01)**
[25] FR
[54] **PROCESS FOR PRODUCING A MICROBOLOMETER COMPRISING A VANADIUM-OXIDE-BASED SENSITIVE MATERIAL**
[54] **PROCEDE DE FABRICATION D'UN MICROBOLOMETRE COMPORTANT UN MATERIAU SENSIBLE A BASE D'OXYDE DE VANADIUM**
[72] PELENC, DENIS, FR
[72] BADANO, GIACOMO, FR
[72] CARDOSO, ALEXI, FR
[72] GUILLAUMONT, MARC, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[71] LYNRED, FR
[85] 2022-01-05
[86] 2020-07-27 (PCT/EP2020/071170)
[87] (WO2021/018856)
[30] FR (FR1908688) 2019-07-30

[21] **3,146,046**
[13] A1
[51] **Int.Cl. E04D 1/20 (2006.01) E04D 1/26 (2006.01) E04D 1/28 (2006.01) E04D 1/34 (2006.01)**
[25] EN
[54] **BITUMINOUS TILE WITH SEALING ENGAGEMENT DEVICES DELIMITING POSITIONING AREAS OF THE ANCHORING NAILS**
[54] **TUILE BITUMINEUSE DOTEE DE DISPOSITIFS DE MISE EN PRISE ETANCHE DELIMITANT DES ZONES DE POSITIONNEMENT DE CLOUS D'ANCRAGE**
[72] GRAZIANO, PETERLE, IT
[71] TEGOLA CANADESE SRL, IT
[85] 2022-01-05
[86] 2019-07-10 (PCT/IB2019/000571)
[87] (WO2021/005388)

[21] **3,146,050**
[13] A1
[51] **Int.Cl. A61K 31/48 (2006.01) A61K 36/00 (2006.01) A61K 36/06 (2006.01) A61K 36/24 (2006.01) A61K 36/33 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METERED DOSING COMPOSITIONS AND METHODS OF USE OF PSYCHEDELIC COMPOUNDS**
[54] **COMPOSITIONS DE DOSAGE ET PROCEDES D'UTILISATION DE COMPOSES PSYCHEDELIQUES**
[72] ARNOLD, CRAIG MICHAEL, US
[72] BHATT, PARAG, US
[72] SLAY, SCOTT, US
[72] HARTMAN, MICHAEL S., US
[71] SW HOLDINGS, INC., US
[85] 2022-01-04
[86] 2020-07-03 (PCT/US2020/040826)
[87] (WO2021/003467)
[30] US (62/870,722) 2019-07-04

[21] **3,146,051**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01)**
[25] EN
[54] **AUGMENTED REALITY GAME SYSTEM AND METHOD THEREOF**
[54] **SYSTEME DE JEU A REALITE AUGMENTEE ET PROCEDE ASSOCIE**
[72] ADAMS, KARRIEM, US
[71] PURE REALITY LLC, US
[85] 2022-01-05
[86] 2020-07-30 (PCT/IB2020/000687)
[87] (WO2021/005418)
[30] US (62/870,861) 2019-07-05
[30] US (16/850,430) 2020-04-16

[21] **3,146,053**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/40 (2014.01) A63F 1/00 (2006.01) A63F 1/10 (2006.01)**
[25] EN
[54] **CARD READER FOR AUGMENTED REALITY GAME SYSTEM**
[54] **LECTEUR DE CARTE DE SYSTEME DE JEU A REALITE AUGMENTEE**
[72] ADAMS, KARRIEM, US
[71] PURE REALITY LLC, US
[85] 2022-01-05
[86] 2020-07-30 (PCT/IB2020/000688)
[87] (WO2021/005419)
[30] US (62/870,859) 2019-07-05
[30] US (16/850,448) 2020-04-16

[21] **3,146,054**
[13] A1
[51] **Int.Cl. H02K 9/00 (2006.01) C10M 129/72 (2006.01) H02K 9/19 (2006.01)**
[25] EN
[54] **LUBRICANTS FOR ELECTRIC AND HYBRID VEHICLE APPLICATIONS**
[54] **LUBRIFIANTS POUR DES APPLICATIONS DE VEHICULE ELECTRIQUE ET HYBRIDE**
[72] KWAK, YUNGWAN, US
[71] AFTON CHEMICAL CORPORATION, US
[85] 2022-01-04
[86] 2020-07-01 (PCT/US2020/040440)
[87] (WO2021/011194)
[30] US (16/509,845) 2019-07-12

[21] **3,146,055**
[13] A1
[51] **Int.Cl. A61M 1/28 (2006.01) B01D 15/04 (2006.01) B01D 61/24 (2006.01) B01J 39/02 (2006.01) B01J 39/10 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **PROCESS FOR REMOVING HG2+ FROM BODILY FLUIDS**
[54] **PROCEDE D'ELIMINATION DE HG2+ DE FLUIDES CORPORELS**
[72] LEWIS, GREGORY JOHN, US
[72] JAKUBCZAK, PAULINA, US
[72] MARTE, JULIO C., US
[72] SHEETS, WILLIAM CHRISTOPHER, US
[71] UOP LLC, US
[85] 2022-01-04
[86] 2020-06-30 (PCT/US2020/040238)
[87] (WO2021/007066)
[30] US (16/506,419) 2019-07-09

[21] **3,146,058**
[13] A1
[51] **Int.Cl. B23K 26/03 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS FOR THE SURFACE PROCESSING OF CYLINDRICAL BODIES, IN PARTICULAR LAMINATION CYLINDERS**
[54] **APPAREIL ET PROCEDE DE TRAITEMENT DE SURFACE DE CORPS CYLINDRIQUES, EN PARTICULIER DE CYLINDRES DE LAMINAGE**
[72] BOSELLI, GIOVANNI, IT
[72] GABOARDI, PAOLO, IT
[72] GARIANO, ANDREA, IT
[72] PERASSOLO, MASSIMO, IT
[72] TREVISAN, CLAUDIO, IT
[71] TENOVA S.P.A., IT
[85] 2022-01-05
[86] 2020-07-06 (PCT/IB2020/056336)
[87] (WO2021/005489)
[30] IT (102019000011283) 2019-07-09

[21] **3,146,059**
[13] A1
[51] **Int.Cl. A61K 33/08 (2006.01) A61M 1/18 (2006.01) A61P 39/04 (2006.01)**
[25] EN
[54] **PROCESS FOR REMOVING COBALT, LEAD, CADMIUM AND CHROMIUM IONS FROM BODILY FLUIDS USING METALLATE ION EXCHANGE COMPOSITIONS**
[54] **PROCEDE D'ELIMINATION DE COBALT, DE PLOMB, DE CADMIUM ET D'IONS CHROME DANS DES FLUIDES CORPORELS A L'AIDE DE COMPOSITIONS ECHANGEUSES D'IONS METALLATES**
[72] LEWIS, GREGORY JOHN, US
[72] JAKUBCZAK, PAULINA, US
[72] MARTE, JULIO C., US
[72] SHEETS, WILLIAM CHRISTOPHER, US
[71] UOP LLC, US
[85] 2022-01-04
[86] 2020-06-29 (PCT/US2020/040113)
[87] (WO2021/007062)
[30] US (16/506,377) 2019-07-09

[21] **3,146,061**
[13] A1
[51] **Int.Cl. C08C 19/20 (2006.01) C08F 36/00 (2006.01)**
[25] EN
[54] **PROCESS FOR HIGH SULFUR CONTENT COPOLYMER PREPARATION**
[54] **PROCEDE DE PREPARATION D'UN COPOLYMERE A HAUTE TENEUR EN SOUFRE**
[72] BELLUSSI, GIUSEPPE, IT
[72] DE ANGELIS, ALBERTO RENATO, IT
[72] CARROZZA, CHIARA, IT
[72] BOGGIONI, LAURA, IT
[71] ENI S.P.A., IT
[85] 2022-01-05
[86] 2020-07-07 (PCT/IB2020/056383)
[87] (WO2021/005511)
[30] IT (102019000011121) 2019-07-08

[21] **3,146,063**
[13] A1
[51] **Int.Cl. G01M 15/14 (2006.01) F01D 21/00 (2006.01) F01D 21/02 (2006.01) G05B 23/02 (2006.01)**
[25] EN
[54] **METHOD FOR SPEED EXCURSION DATA ACQUISITION**
[54] **PROCEDE POUR UNE ACQUISITION DE DONNEES D'EXCURSION DE VITESSE**
[72] BRAVO, EDUARDO, US
[72] TAYLOR, BRIAN J., US
[72] BOWEN, JOHN S., US
[72] STRUCK, BRUNO E., US
[72] KIM, HYUN D., US
[72] LORENZ, FREDERICK B., US
[71] SOLAR TURBINES INCORPORATED, US
[85] 2022-01-04
[86] 2020-06-19 (PCT/US2020/038583)
[87] (WO2021/011148)
[30] US (16/510,752) 2019-07-12

[21] **3,146,066**
[13] A1
[51] **Int.Cl. H04B 10/40 (2013.01) H04B 10/50 (2013.01) H04B 10/61 (2013.01) H04J 14/02 (2006.01) H04L 7/00 (2006.01) H04L 7/033 (2006.01)**
[25] EN
[54] **SYNCHRONIZATION FOR SUBCARRIER COMMUNICATION**
[54] **SYNCHRONISATION POUR COMMUNICATION DE SOUS-PORTEUSE**
[72] SUN, HAN H., US
[72] WU, KUANG-TSAN, US
[72] MCNICOL, JOHN D., US
[71] INFINERA CORPORATION, US
[85] 2022-01-04
[86] 2020-03-20 (PCT/US2020/023871)
[87] (WO2020/214330)
[30] US (62/836,354) 2019-04-19
[30] US (16/578,081) 2019-09-20
[30] US (16/577,948) 2019-09-20
[30] US (16/577,960) 2019-09-20

[21] **3,146,068**
[13] A1
[51] **Int.Cl. A47J 31/24 (2006.01) A47J 31/44 (2006.01) A47J 31/46 (2006.01) A47J 31/60 (2006.01)**
[25] EN
[54] **DELIVERY ASSEMBLY FOR A COFFEE BEVERAGE AND CORRESPONDING DELIVERY MACHINE**
[54] **ENSEMBLE DE DISTRIBUTION POUR UNE BOISSON AU CAFE ET MACHINE DE DISTRIBUTION CORRESPONDANTE**
[72] PIRAS, RICCARDO, IT
[72] BULIGATTO, ELEONORA, IT
[72] CESCUTTI, FRANCESCO, IT
[72] ROCCAFORTE, FILIPPO, IT
[71] ILLYCAFFE' S.P.A., IT
[85] 2022-01-04
[86] 2020-07-01 (PCT/IT2020/050168)
[87] (WO2021/001865)
[30] IT (102019000010914) 2019-07-04

[21] **3,146,069**
[13] A1
[51] **Int.Cl. B01J 13/00 (2006.01) C08K 3/00 (2018.01) C09K 21/00 (2006.01)**
[25] EN
[54] **A MULTILAYER COMPOSITE FLAME BARRIER AND ITS PRODUCTION METHOD**
[54] **BARRIERE ANTI-FLAMME COMPOSITE MULTICOUCHE ET SON PROCEDE DE PRODUCTION**
[72] BASOGLU, HALIL IBRAHIM, TR
[71] BASOGLU KABLO VE PROFIL SANAYI VE TICARET ANONIM SIRKETI, TR
[85] 2022-01-04
[86] 2020-09-25 (PCT/TR2020/050890)
[87] (WO2021/061083)
[30] TR (2019/14698) 2019-09-26

[21] **3,146,073**
[13] A1
[51] **Int.Cl. C22B 58/00 (2006.01) C22B 3/08 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF A GALLATE SOLUTION**
[54] **PROCEDE DE PRODUCTION DE SOLUTION DE GALLATE**
[72] DAMASKIN, ALEKSANDR ALEKSANDROVICH, RU
[72] SUSS, ALEKSANDR GENNADIEVICH, RU
[72] PECHENKIN, MAKSIM NIKOLAEVICH, RU
[72] DAMASKINA, ANNA ALEKSANDROVNA, RU
[71] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR", RU
[85] 2022-01-04
[86] 2020-07-10 (PCT/RU2020/050155)
[87] (WO2021/010868)
[30] RU (2019122382) 2019-07-12

[21] **3,146,107**
[13] A1
[51] **Int.Cl. G21C 11/08 (2006.01) F16L 59/12 (2006.01)**
[25] EN
[54] **EXTERNAL THERMAL INSULATION FOR A NUCLEAR REACTOR VESSEL AND SYSTEM FOR INSTALLING SAME**
[54] **ISOLATION THERMIQUE EXTERNE DE CORPS DE REACTEUR NUCLEAIRE ET SYSTEME D'INSTALLATION**
[72] GABAIDULOV, TIMUR MARATOVICH, RU
[72] IL'YIN, SERGEI VLADIMIROVICH, RU
[72] ZHUK, IGOR EVGEN'EVICH, RU
[72] MARKIN, VLADIMIR VASIL'EVICH, RU
[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU
[85] 2021-12-30
[86] 2020-01-24 (PCT/RU2020/000029)
[87] (WO2021/112714)
[30] RU (2019139212) 2019-12-03

[21] **3,146,109**
[13] A1
[51] **Int.Cl. A61K 31/422 (2006.01) A61P 11/00 (2006.01) C07D 413/10 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **SUBSTITUTED 1,3-PHENYL HETEROARYL DERIVATIVES AND THEIR USE IN THE TREATMENT OF DISEASE**
[54] **DERIVES DE 1,3-PHENYL HETEROARYLE SUBSTITUES ET LEUR UTILISATION DANS LE TRAITEMENT D'UNE MALADIE**
[72] ADCOCK, CLAIRE, US
[72] AXFORD, JAKE, US
[72] HOU, YING, US
[72] KIM, HYUNGCHUL, US
[72] SHEN, YIPING, US
[72] SMITH, NICHOLA, US
[72] SOLOVAY, CATHERINE, US
[72] SUNG, MOO JE, US
[72] LIGHTFOOT, MEGAN, GB
[72] MAZZACANI, ALESSANDRO, GB
[72] STANLEY, EMILY, GB
[72] WHITEHEAD, LEWIS, US
[71] NOVARTIS AG, CH
[85] 2022-01-05
[86] 2020-08-24 (PCT/IB2020/057905)
[87] (WO2021/038426)
[30] US (62/892,664) 2019-08-28

[21] **3,146,111**
[13] A1
[51] **Int.Cl. G06F 21/00 (2013.01)**
[25] EN
[54] **DATA ANALYTICS SYSTEM AND METHOD FOR PROCESSING HEALTH INSURANCE CLAIMS AND TARGETED ADVERTISEMENT -BASED HEALTHCARE MANAGEMENT**
[54] **SYSTEME ET PROCEDE D'ANALYSE DE DONNEES POUR TRAITER DES DEMANDES DE REGLEMENTS D'ASSURANCE MALADIE ET GESTION DE SOINS DE SANTE FONDEE SUR UNE PUBLICITE CIBLEE**
[72] ZELOCCHI, ENZO, US
[71] ZELOCCHI, ENZO, US
[85] 2022-01-05
[86] 2019-07-23 (PCT/US2019/043100)
[87] (WO2021/006918)
[30] US (16/509,477) 2019-07-11

[21] **3,146,113**
[13] A1
[51] **Int.Cl. C10C 3/00 (2006.01) C10C 3/06 (2006.01)**
[25] EN
[54] **HEAT TREATMENT PROCESS AND SYSTEM FOR INCREASED PITCH YIELDS**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT THERMIQUE POUR DES RENDEMENTS ACCRUS DE BRAI**
[72] MALMQVIST, MICHAEL BECH, DK
[72] CAIRNS, BILLY, JAY, US
[72] MUELLER, CARL CAMILLE, US
[72] BARON, JOHN THOMAS, US
[72] DIETZ, JAMES T., US
[71] KOPPERS DELAWARE, INC., US
[85] 2022-01-05
[86] 2020-03-13 (PCT/US2020/022692)
[87] (WO2021/015824)
[30] US (16/520,135) 2019-07-23

[21] **3,146,116**
[13] A1
[51] **Int.Cl. E21B 44/02 (2006.01) E21B 41/00 (2006.01) E21B 47/12 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MITIGATING STICK-SLIP**
[54] **SYSTEME ET PROCEDE POUR ATTENUER UN GLISSEMENT SACCADE**
[72] SUN, ZHIJIE, US
[72] HUANG, SUJIAN, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-01-05
[86] 2020-03-19 (PCT/US2020/023531)
[87] (WO2021/055010)
[30] US (62/902,097) 2019-09-18
[30] US (16/822,944) 2020-03-18

[21] **3,146,118**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING ALZHEIMER'S DISEASE**
[54] **METHODES ET COMPOSITIONS POUR TRAITER LA MALADIE D'ALZHEIMER**
[72] ZOU, YIMIN, US
[72] FENG, BO, US
[72] TIAN, RUNYI, US
[72] FREITAS, ANDIARA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-01-05
[86] 2020-06-23 (PCT/US2020/039194)
[87] (WO2020/263862)
[30] US (62/868,407) 2019-06-28
[30] US (63/019,970) 2020-05-04

[21] **3,146,121**
[13] A1
[51] **Int.Cl. B65H 3/08 (2006.01) B65H 3/34 (2006.01) B65H 3/52 (2006.01) B65H 5/14 (2006.01)**
[25] EN
[54] **AEROGRIPPER APPARATUS, SYSTEM, AND METHODS**
[54] **APPAREIL, SYSTEME ET PROCEDES D'AERO-PREHENSION**
[72] BALABANOV, DEMITRI, US
[72] STEWARD, DEWAYNE, US
[71] THE NORTH FACE APPAREL CORP., US
[85] 2022-01-05
[86] 2020-06-30 (PCT/US2020/040269)
[87] (WO2021/003141)
[30] US (62/869,783) 2019-07-02

[21] **3,146,124**
[13] A1
[51] **Int.Cl. A23N 12/08 (2006.01) A23F 5/04 (2006.01) A47J 31/42 (2006.01) A47J 37/06 (2006.01)**
[25] EN
[54] **FLUID BED COFFEE ROASTING SYSTEM**
[54] **SYSTEME DE TORREFACTION DE CAFE A LIT FLUIDISE**
[72] HART, DAVID DOUGLAS, US
[72] ABDON, ERNIE ARQUERO, US
[71] ASHE INDUSTRIES, LLC, US
[85] 2022-01-05
[86] 2020-07-01 (PCT/US2020/040507)
[87] (WO2021/007086)
[30] US (16/503,777) 2019-07-05

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,144,436**
[13] A1
[51] **Int.Cl. B65D 25/20 (2006.01) B65D 21/032 (2006.01) B65D 25/28 (2006.01) B65D 25/38 (2006.01) B67D 1/04 (2006.01) B67D 1/08 (2006.01) F16K 21/00 (2006.01) F16K 27/00 (2006.01) F17C 1/00 (2006.01)**
[25] EN
[54] **PRESSURIZABLE FLUID CONTAINER AND VALVING STRUCTURE THEREOF**
[54] **RECIPIENT DE FLUIDE POUVANT ETRE MIS SOUS PRESSION ET SURFACE DE DISTRIBUTION ASSOCIEE**
[72] STOCKTON, BOB, CA
[72] KOBELKA, MELANIE, CA
[71] FIRST ELEMENT PACKAGING INC., CA
[22] 2020-05-12
[41] 2020-12-30
[62] 3,113,859
[30] US (62/867,673) 2019-06-27
[30] US (62/869,764) 2019-07-02

---

[21] **3,144,442**
[13] A1
[25] EN
[54] **GRAFT WITH EXPANDABLE REGION AND METHODS OF MAKING AND USING THE SAME**
[54] **GREFFON PRESENTANT UNE ZONE EXPANSIBLE ET PROCEDES DE FABRICATION ET D'UTILISATION DU GREFFON**
[72] SCUTTI, JAMES J., US
[72] CULP, DAVID G., US
[72] DAGHER, IBRAHIM E., US
[72] PENN, KEVIN W., US
[71] ATRIUM MEDICAL CORPORATION, US
[22] 2014-07-22
[41] 2015-01-29
[62] 2,918,936
[30] US (61/857,181) 2013-07-22

---

[21] **3,144,493**
[13] A1
[25] EN
[54] **LIPID CONTAINING FORMULATIONS**
[54] **FORMULATIONS CONTENANT UN LIPIDE**
[72] MANOHARAN, MUTHIAH, US
[72] RAJEEV, KALLANTHOTTAHIL G., US
[72] AKINC, AKIN, US
[72] JAYAPRAKASH, K. NARAYANANNAIR, US
[72] JAYRAMAN, MUTHUSAMY, US
[72] MAIER, MARTIN A., US
[71] ARBUTUS BIOPHARMA CORPORATION, CA
[22] 2007-10-03
[41] 2008-04-10
[62] 2,927,045
[30] US (60/828,022) 2006-10-03
[30] US (60/870,457) 2006-12-18

---

[21] **3,144,602**
[13] A1
[25] EN
[54] **NICOTINE LIQUID FORMULATIONS FOR AEROSOL DEVICES AND METHODS THEREOF**
[54]
[72] BOWEN, ADAM, US
[72] XING, CHENYUE, US
[71] JUUL LABS, INC., US
[22] 2014-11-07
[41] 2015-06-11
[62] 2,932,464
[30] US (61/912,507) 2013-12-05

---

[21] **3,144,627**
[13] A1
[51] **Int.Cl. F24T 10/20 (2018.01) E21B 7/00 (2006.01) E21B 33/138 (2006.01) E21B 44/00 (2006.01)**
[25] EN
[54] **OPERATIONAL PROTOCOL FOR HARVESTING A THERMALLY PRODUCTIVE FORMATION**
[54] **PROTOCOLE OPERATIONNEL POUR LA RECOLTE D'UNE FORMATION A PRODUCTION THERMIQUE**
[72] TOEWS, MATTHEW, CA
[72] SCHWARZ, BAILEY, CA
[72] RIDDELL, DEREK, CA
[72] CAIRNS, PAUL, CA
[72] REDFERN, JOHN, CA
[72] CURTIS-SMITH, ANDREW, CA
[72] HALE, JONATHAN, CA
[72] ANDREWS, PETER, CA
[71] EAVOR TECHNOLOGIES INC., CA
[22] 2020-06-15
[41] 2020-12-27
[62] 3,083,575
[30] US (62/867,313) 2019-06-27
[30] US (62/965,833) 2020-01-25
[30] US (63/012,952) 2020-04-21

---

[21] **3,144,655**
[13] A1
[25] EN
[54] **COMPACT HEAD-MOUNTED DISPLAY SYSTEM**
[54] **SYSTEME DE VISIOCASQUE COMPACT**
[72] AMITAI, YAAKOV, IL
[71] LUMUS LTD, IL
[22] 2015-04-21
[41] 2015-10-29
[62] 2,946,704
[30] IL (232197) 2014-04-23

[21] **3,144,657**
[13] A1
[51] **Int.Cl. G06N 3/02 (2006.01) G06N 3/04 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **ATTENTION-BASED SEQUENCE TRANSDUCTION NEURAL NETWORKS**
[54] **RESEAUX NEURONAUX DE TRANSDUCTION DE SEQUENCE BASES SUR L'ATTENTION**
[72] SHAZEER, NOAM M., US
[72] GOMEZ, AIDAN NICHOLAS, US
[72] KAISER, LUKASZ MIECZYSLAW, US
[72] USZKOREIT, JAKOB D., US
[72] JONES, LLION OWEN, US
[72] PARMAR, NIKI J., US
[72] POLOSUKHIN, LLLIA, US
[72] VASWANI, ASHISH TEKU, US
[71] GOOGLE LLC, US
[22] 2018-05-23
[41] 2018-11-29
[62] 3,050,334
[30] US (62/510,256) 2017-05-23
[30] US (62/541,594) 2017-08-04

[21] **3,144,672**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD OF AMPLIFYING SOLAR PANEL OUTPUT**
[54]
[72] CRAMER, GUY, CA
[71] HYPERSTEALTH BIOTECHNOLOGY CORPORATION, CA
[22] 2018-12-21
[41] 2019-06-27
[62] 3,086,351
[30] US (62/609,425) 2017-12-22

[21] **3,144,674**
[13] A1
[25] EN
[54] **ATTENTION-BASED SEQUENCE TRANSDUCTION NEURAL NETWORKS**
[54] **RESEAUX NEURONAUX DE TRANSDUCTION DE SEQUENCE BASES SUR L'ATTENTION**
[72] SHAZEER, NOAM M., US
[72] GOMEZ, AIDAN NICHOLAS, US
[72] KAISER, LUKASZ MIECZYSLAW, US
[72] USZKOREIT, JAKOB D., US
[72] JONES, LLION OWEN, US
[72] PARMAR, NIKI J., US
[72] POLOSUKHIN, LLLIA, US
[72] VASWANI, ASHISH TEKU, US
[71] GOOGLE LLC, US
[22] 2018-05-23
[41] 2018-11-29
[62] 3,050,334
[30] US (62/510,256) 2017-05-23
[30] US (62/541,594) 2017-08-04

[21] **3,144,684**
[13] A1
[25] EN
[54] **THERMORESPONSIVE HYDROGEL CONTAINING POLYMER MICROPARTICLES FOR NONINVASIVE OCULAR DRUG DELIVERY**
[54] **HYDROGEL THERMOSENSIBLE CONTENANT DES MICROPARTICULES POLYMERES POUR L'ADMINISTRATION DE MEDICAMENT OCULAIRE NON INVASIVE**
[72] FEDORCHAK, MORGAN, V., US
[72] LITTLE, STEPHEN, R., US
[72] SCHUMAN, JOEL, S., US
[72] CUGINI, ANTHONY, US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[22] 2014-03-04
[41] 2014-09-12
[62] 2,939,952
[30] US (61/773,076) 2013-03-05

[21] **3,144,697**
[13] A1
[25] EN
[54] **CONJUGATES OF AN IL-2 MOIETY AND A POLYMER**
[54] **CONJUGUES D'UNE FRACTION IL-2 ET D'UN POLYMERE**
[72] BOSSARD, MARY J., US
[72] ALI, CHERIE F., US
[72] LIU, XIAOFENG, US
[72] CHARYCH, DEBORAH H., US
[72] ZAPPE, HAROLD, US
[72] WANG, YUJUN, US
[72] HUANG, JICAI, US
[71] NEKTAR THERAPEUTICS, US
[22] 2011-11-11
[41] 2012-05-18
[62] 2,816,722
[30] US (61/413,236) 2010-11-12

[21] **3,144,738**
[13] A1
[25] EN
[54] **CONTAINER WITH CRUSH RESISTANT SPOUT**
[54] **RECIPIENT DOTE D'UN BEC VERSEUR RESISTANT A L'ECRASEMENT**
[72] PALMER, JOEY, US
[71] ALTIUM PACKAGING LP, US
[22] 2018-03-16
[41] 2018-09-20
[62] 3,053,992
[30] US (62/472,974) 2017-03-17

[21] **3,144,743**
[13] A1
[51] **Int.Cl. A47J 31/44 (2006.01) A23L 2/40 (2006.01) A23L 2/54 (2006.01) A47J 31/40 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **CAPSULE FOR A SYSTEM AND A METHOD FOR PRODUCING SPARKLING DRINKS**
[54] **CAPSULE POUR UN SYSTEME ET METHODE DE PRODUCTION DE BREUVAGES GAZEIFIES**
[72] SHALEV, PINCHAS, IL
[71] SO SPARK LTD., IL
[22] 2013-08-18
[41] 2014-03-06
[62] 3,080,765
[30] US (61/693,820) 2012-08-28
[30] US (13/685,050) 2012-11-26

[21] **3,144,824**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/465 (2020.01)**
[25] EN
[54] **INDUCTION COIL ARRANGEMENT**
[54] **AGENCEMENT DE BOBINE D'INDUCTION**
[72] FALLON, GARY, GB
[72] HORROD, MARTIN DANIEL, GB
[72] WHITE, JULIAN DARRYN, GB
[72] AOUN, WALID ABI, GB
[71] NICOVENTURES TRADING LIMITED, GB
[22] 2018-03-27
[41] 2018-10-04
[62] 3,057,901
[30] GB (1705259.8) 2017-03-31

[21] **3,144,924**
[13] A1
[51] **Int.Cl. B65H 75/40 (2006.01) A44B 15/00 (2006.01) A45F 5/02 (2006.01) B65H 75/44 (2006.01)**
[25] EN
[54] **EQUIPMENT TETHER**
[54] **CABLE D'ATTACHE D'EQUIPEMENT**
[72] BESSAC, GRANT DENTON, US
[72] HARTZELL, CHARLES, US
[71] FISKARS BRANDS, INC., US
[22] 2018-01-22
[41] 2018-08-02
[62] 3,050,261
[30] US (62/451,522) 2017-01-27

[21] **3,144,926**
[13] A1
[51] **Int.Cl. E21B 43/116 (2006.01) E21B 23/08 (2006.01) E21B 43/26 (2006.01) E21B 47/09 (2012.01)**
[25] EN
[54] **PERFORATING SYSTEMS AND FLOW CONTROL FOR USE WITH WELL COMPLETIONS**
[54] **SYSTEMES DE PERFORATION ET REGULATION D'ECOULEMENT DESTINES A ETRE UTILISES AVEC DES COMPLETIONS DE PUITS**
[72] SCHULTZ, ROGER L., US
[72] TOLMAN, RANDY C., US
[72] FERGUSON, ANDREW M., US
[71] THRU TUBING SOLUTIONS, INC., US
[22] 2019-04-04
[41] 2019-10-17
[62] 3,095,181
[30] US (62/655,875) 2018-04-11

[21] **3,144,927**
[13] A1
[25] EN
[54] **PERFORATING SYSTEMS AND FLOW CONTROL FOR USE WITH WELL COMPLETIONS**
[54] **SYSTEMES DE PERFORATION ET REGULATION D'ECOULEMENT DESTINES A ETRE UTILISES AVEC DES COMPLETIONS DE PUITS**
[72] SCHULTZ, ROGER L., US
[72] TOLMAN, RANDY C., US
[72] FERGUSON, ANDREW M., US
[71] THRU TUBING SOLUTIONS, INC., US
[22] 2019-04-04
[41] 2019-10-17
[62] 3,095,181
[30] US (62/655,875) 2018-04-11

[21] **3,144,929**
[13] A1
[25] EN
[54] **PERFORATING SYSTEMS AND FLOW CONTROL FOR USE WITH WELL COMPLETIONS**
[54] **SYSTEMES DE PERFORATION ET REGULATION D'ECOULEMENT DESTINES A ETRE UTILISES AVEC DES COMPLETIONS DE PUITS**
[72] SCHULTZ, ROGER L., US
[72] TOLMAN, RANDY C., US
[72] FERGUSON, ANDREW M., US
[71] THRU TUBING SOLUTIONS, INC., US
[22] 2019-04-04
[41] 2019-10-17
[62] 3,095,181
[30] US (62/655,875) 2018-04-11

[21] **3,144,936**
[13] A1
[25] EN
[54] **SNAP TOGETHER TUBE ASSEMBLY AND MANUFACTURING PROCESS**
[54] **ENSEMBLE TUBE A ENCLIQUETAGE ET PROCEDE DE FABRICATION**
[72] MORTON, PHILIP G., US
[71] DECEUNINCK NORTH AMERICA, LLC, US
[22] 2017-10-16
[41] 2018-04-26
[62] 3,039,687
[30] US (62/408,997) 2016-10-17

[21] **3,144,938**
[13] A1
[25] EN
[54] **SWEETENER COMPOSITION AND METHODS OF MAKING IT**
[54] **COMPOSITION D'EDULCORANT ET SES PROCEDES DE PRODUCTION**
[72] SAHI, CARL R., US
[72] POLIDORO, JOHN M., US
[72] KETNER, MARK ENNIS, US
[72] DEVANGA CHINTA, DAKSHINAMURTHY, US
[71] EBIO NUTRITIONAL SCIENCES LLC, US
[22] 2018-08-08
[41] 2019-02-14
[62] 3,072,327
[30] US (62/542,524) 2017-08-08

[21] **3,144,939**
[13] A1
[51] **Int.Cl. B62D 11/14 (2006.01) B62D 55/14 (2006.01)**
[25] EN
[54] **TRACKED ALL-TERRAIN VEHICLE**
[54] **VEHICULE TOUT TERRAIN A CHENILLES**
[72] BENNETT, JEFFREY D., US
[72] MALONE, AMBER P., US
[72] SAFRANSKI, BRIAN, US
[72] WENGER, URS, US
[72] KOHLER, BEAT R., US
[72] JENNI, HANS-RUDOLF, US
[72] BATES, RICHARD H. JR., US
[72] BORUD, ERIC U., US
[72] BRACHT, BRADLEY A., US
[72] SYTSMA, COLE A., US
[72] MCGUIRE, MATTHEW P., US
[71] POLARIS INDUSTRIES INC., US
[22] 2014-03-25
[41] 2014-10-02
[62] 3,076,966
[30] US (61/805,113) 2013-03-25

[21] **3,144,943**
[13] A1
[25] EN
[54] **OPTICAL FILTER AND SENSOR SYSTEM**
[54] **FILTRE OPTIQUE ET SYSTEME DE CAPTEUR**
[72] HENDRIX, KAREN, DENISE, US
[72] BRADLEY, RICHARD, A., JR., US
[72] GRIGONIS. MARIUS, US
[72] OCKENFUSS, GEORG, US
[71] VIAVI SOLUTIONS INC., US
[22] 2013-07-16
[41] 2014-01-23
[62] 2,879,363
[30] US (61/672,164) 2012-07-16

[21] **3,144,994**
[13] A1
[25] EN
[54] **TILED RETROREFLECTOR WITH MULTI-STAGE DICING**
[54] **RETRO-REFLECTEUR EN CARREAUX A DECOUPAGE EN DES A MULTIPLES ETAGES**
[72] CHAPMAN, STEVEN R., US
[72] GALICIA, ETHELBERT, US
[72] WU, FENG, US
[71] AVERY DENNISON CORPORATION, US
[22] 2015-11-18
[41] 2016-05-26
[62] 2,967,946
[30] US (62/082,179) 2014-11-20

[21] **3,145,008**
[13] A1
[51] **Int.Cl. B29D 11/00 (2006.01)**
[25] EN
[54] **TILED RETROREFLECTOR WITH MULTI-STAGE DICING**
[54] **RETRO-REFLECTEUR EN CARREAUX A DECOUPAGE EN DES A MULTIPLES ETAGES**
[72] CHAPMAN, STEVEN R., US
[72] WU, FENG, US
[72] GALICIA, ETHELBERT, US
[71] AVERY DENNISON CORPORATION, US
[22] 2015-11-18
[41] 2016-05-26
[62] 2,967,946
[30] US (62/082,179) 2014-11-20

[21] **3,145,014**
[13] A1
[25] EN
[54] **MOTORIZED DOOR ASSEMBLY WITH SAFETY FEATURES FOR HEATED CABINET**
[54] **ENSEMBLE DE PORTES MOTORISEES A CARACTERISTIQUES DE SECURITE POUR ARMOIRE CHAUFFEE**
[72] WHITAKER, CRAIG, US
[72] WEAVER, EDWARD LEONARD, II, US
[72] ZIEKER, SCOTT A., US
[72] WARNER, CHARLES ELDON, US
[72] KNOLLMAN, RONALD G., US
[71] APEX INDUSTRIAL TECHNOLOGIES LLC, US
[22] 2018-05-15
[41] 2018-11-22
[62] 3,062,864
[30] US (62/506,493) 2017-05-15

[21] **3,145,020**
[13] A1
[51] **Int.Cl. B29D 11/00 (2006.01)**
[25] EN
[54] **TILED RETROREFLECTOR WITH MULTI-STAGE DICING**
[54] **RETRO-REFLECTEUR EN CARREAUX A DECOUPAGE EN DES A MULTIPLES ETAGES**
[72] CHAPMAN, STEVEN R., US
[72] WU, FENG, US
[72] GALICIA, ETHELBERT, US
[71] AVERY DENNISON CORPORATION, US
[22] 2015-11-18
[41] 2016-05-26
[62] 2,967,946
[30] US (62/082,179) 2014-11-20

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,145,023**
[13] A1
[51] **Int.Cl. B29D 11/00 (2006.01)**
[25] EN
[54] **TILED RETROREFLECTOR WITH MULTI-STAGE DICING**
[54] **RETRO-REFLECTEUR EN CARREAUX A DECOUPAGE EN DES A MULTIPLES ETAGES**
[72] CHAPMAN, STEVEN R., US
[72] WU, FENG, US
[72] GALICIA, ETHELBERT, US
[71] AVERY DENNISON CORPORATION, US
[22] 2015-11-18
[41] 2016-05-26
[62] 2,967,946
[30] US (62/082,179) 2014-11-20

[21] **3,145,034**
[13] A1
[51] **Int.Cl. F21K 9/237 (2016.01) F21V 29/70 (2015.01) F21K 9/00 (2016.01) F21K 9/232 (2016.01) A47G 1/06 (2006.01) F21S 4/28 (2016.01) F21V 33/00 (2006.01)**
[25] EN
[54] **LED LIGHT SOURCE**
[54] **SOURCE DE LUMIERE A DEL**
[72] CONRAD, WAYNE ERNEST, CA
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA
[22] 2018-04-09
[41] 2018-10-25
[62] 3,060,093
[30] US (15/491,273) 2017-04-19
[30] US (15/491,238) 2017-04-19
[30] US (15/491,199) 2017-04-19
[30] US (15/491,167) 2017-04-19
[30] US (15/491,124) 2017-04-19

[21] **3,145,071**
[13] A1
[51] **Int.Cl. B29C 64/153 (2017.01)**
[25] EN
[54] **THREE-DIMENSIONAL MOLDING METHOD**
[54] **METHODE DE MOULAGE TRIDIMENSIONNEL**
[72] MATSUDA, YUYA, JP
[72] MIDORIKAWA, TETSUSHI, JP
[72] MORISHITA, KAZUYUKI, JP
[71] FUKUI PREFECTURAL GOVERNMENT, JP
[71] MATSUURA MACHINERY CORPORATION, JP
[22] 2018-07-25
[41] 2018-10-02
[62] 3,012,318
[30] JP (2017-148397) 2017-07-31

[21] **3,145,082**
[13] A1
[25] EN
[54] **METHODS FOR TREATING POST-TRAUMATIC STRESS DISORDER**
[54] **PROCEDES DE TRAITEMENT DU TROUBLE DE STRESS POST TRAUMATIQUE**
[72] HEATON, AMY L., US
[72] FRIEDLANDER, MITCHELL K., US
[72] GAY, DENNIS W., US
[71] QUALITY IP HOLDINGS, LLC, US
[22] 2013-09-19
[41] 2014-03-27
[62] 2,885,570
[30] US (13/623,101) 2012-09-19
[30] US (13/623,097) 2012-09-19

[21] **3,145,087**
[13] A1
[51] **Int.Cl. A47K 10/16 (2006.01)**
[25] EN
[54] **HIGH SOFTNESS, HIGH DURABILITY BATH TISSUE WITH TEMPORARY WET STRENGTH**
[54] **PAPIER HYGIENIQUE PRESENTANT UN NIVEAU ELEVE DE DURABILITE ET DE DOUCEUR ET UNE RESISTANCE TEMPORAIRE A L'HUMIDITE**
[72] MILLER, JOSEPH H., US
[72] SUMNICHT, DANIEL, US
[72] ORIARAN, T. PHILIPS, US
[72] SCHUH, BRIAN J., US
[72] RAMIREZ, ALBERTO J, US
[72] LEE, JEFFREY A., US
[71] GPCP IP HOLDINGS LLC, US
[22] 2012-07-23
[41] 2013-01-31
[62] 3,098,839
[30] US (61/457,991) 2011-07-28
[30] US (13/548,600) 2012-07-13

[21] **3,145,122**
[13] A1
[51] **Int.Cl. F16L 3/10 (2006.01) B05B 15/60 (2018.01) A62C 35/68 (2006.01)**
[25] EN
[54] **ADJUSTABLE BRACKET AND HUB FOR FLEXIBLE HOSE SUPPORT**
[54]
[72] MITCHELL, STEPHEN, US
[72] DOOLEY, MIKE, US
[72] DAFONSECA, ODAIR, US
[72] RINGER, YORAM, US
[71] ASC ENGINEERED SOLUTIONS, LLC, US
[22] 2015-06-26
[41] 2015-12-27
[62] 3,089,250
[30] US (62/017,911) 2014-06-27
[30] US (62/087,295) 2014-12-04

[21] **3,145,123**
[13] A1
[25] EN
[54] **QUIET LATCH FOR A LOCKING DEVICE**
[54] **LOQUET SILENCIEUX POUR DISPOSITIF DE VERROUILLAGE**
[72] YALAMATI, BHARGAV, IN
[72] CHETAN, V, IN
[72] SHETTY, SACHIN, CHANDRA, IN
[72] YADAV, PRABHAT, KUMAR, IN
[71] SCHLAGE LOCK COMPANY LLC, US
[22] 2017-11-29
[41] 2018-06-07
[62] 3,050,084
[30] US (15/363,180) 2016-11-29

[21] **3,145,167**
[13] A1
[25] EN
[54] **SEALING DEVICE AND DELIVERY SYSTEM**
[54]
[72] GOBLE, JACOB A., US
[72] LURIE, BRANDON A., US
[72] MASTERS, STEVEN J., US
[72] MATHENA, SCOT K., US
[72] MCCLURE, RICHARD L., US
[71] W. L. GORE & ASSOCIATES, INC., US
[22] 2014-01-17
[41] 2014-07-24
[62] 3,053,123
[30] US (61/754,504) 2013-01-18
[30] US (13/838,166) 2013-03-15

[21] **3,145,217**
[13] A1
[25] EN
[54] **TRANSMITTING APPARATUS, RECEIVING APPARATUS, AND CONTROLLING METHODS THEREOF**
[54]
[72] HWANG, SUNG-OH, KR
[72] MOURAD, ALAIN, GB
[72] YANG, HYUN-KOO, KR
[72] HWANG, SUNG-HEE, KR
[71] SAMSUNG ELECTRONICS CO., LTD., KR
[22] 2014-08-05
[41] 2015-02-12
[62] 2,920,150
[30] US (61/862,168) 2013-08-05
[30] US (61/873,493) 2013-09-04
[30] KR (10-2014-0062575) 2014-05-23

[21] **3,145,238**
[13] A1
[25] EN
[54] **AUTOINJECTOR APPARATUS**
[54] **APPAREIL AUTO-INJECTEUR**
[72] DENZER, MICHAEL, US
[72] SWIFT, ROBERT W., US
[72] JOHNSTON, NEAL, US
[72] GANZITTI, GABRIELE, IT
[72] EWING, KENNETH R., US
[72] KRISHNA, SUHAS, US
[71] AMGEN INC., US
[22] 2012-04-20
[41] 2012-10-26
[62] 3,021,845
[30] US (61/477553) 2011-04-20

[21] **3,145,249**
[13] A1
[25] EN
[54] **MODULAR GLARE SCREEN SYSTEM**
[54] **SYSTEME D'ECRAN ANTI-EBLOUISSEMENT MODULAIRE**
[72] STUKEL, WILLIAM A., US
[72] CLARK, DAVID S, US
[71] AMERICAN LOUVER COMPANY, US
[22] 2014-02-14
[41] 2014-08-21
[62] 2,901,010
[30] US (61/765,168) 2013-02-15
[30] US (14/180,175) 2014-02-13

[21] **3,145,277**
[13] A1
[25] EN
[54] **APPARATUS AND METHODS FOR MINIMALLY INVASIVE DISSECTION AND MODIFICATION OF TISSUES**
[54] **APPAREIL, SYSTEMES ET PROCEDES POUR LA DISSECTION MINI-INVASIVE DE TISSUS**
[72] WEBER, PAUL, CH
[71] WEBER, PAUL, CH
[22] 2020-05-21
[41] 2020-09-24
[62] 3,106,619
[30] US (62/821,985) 2019-03-21
[30] US (16/688,827) 2019-11-19

[21] **3,145,339**
[13] A1
[25] EN
[54] **METHOD OF FORMING A SPORTING IMPLEMENT**
[54] **METHODE DE FABRICATION D`ARTICLE DE SPORT**
[72] DUCHARME, MATHIEU, CA
[72] CHAMBERT, MARTIN, CA
[72] CARON KARDOS, JEAN-FREDERIK, CA
[71] BAUER HOCKEY LTD., CA
[22] 2019-09-11
[41] 2020-03-12
[62] 3,055,154
[30] US (62/730,232) 2018-09-12

[21] **3,145,468**
[13] A1
[25] EN
[54] **TREATMENT OF CD47+ DISEASE CELLS WITH SIRP ALPHA-FC FUSIONS**
[54] **TRAITEMENT DE CELLULES TUMORALES A CD47+ AVEC DES FUSIONS SIRP ALPHA/FC**
[72] UGER, ROBERT ADAM, CA
[72] SLAVOVA-PETROVA, PENKA SLAVTCHEVA, CA
[72] PANG, XINLI, CA
[71] TRILLIUM THERAPEUTICS INC., CA
[22] 2013-12-17
[41] 2014-06-26
[62] 2,894,245
[30] US (61/738,008) 2012-12-17

[21] **3,145,494**
[13] A1
[51] **Int.Cl. G06F 9/50 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **A COMPUTER CLUSTER ARRANGEMENT FOR PROCESSING A COMPUTATION TASK AND METHOD FOR OPERATION THEREOF**
[54] **AGENCEMENT DE GRAPPE D'ORDINATEURS POUR LE TRAITEMENT D'UNE TACHE DE CALCUL ET SON PROCEDE DE FONCTIONNEMENT**
[72] LIPPERT, THOMAS, DE
[71] PARTEC CLUSTER COMPETENCE CENTER GMBH, DE
[22] 2011-10-13
[41] 2012-04-19
[62] 3,027,973
[30] EP (10187436.0) 2010-10-13

[21] **3,145,500**
[13] A1
[25] EN
[54] **PROCESSOR-BASED CIRCUIT INTERRUPTING DEVICES**
[54] **DISPOSITIFS D'INTERRUPTION DE CIRCUIT BASES SUR UN PROCESSEUR**
[72] OSTROVSKY, MICHAEL, US
[71] LEVITON MANUFACTURING CO., INC., US
[22] 2013-09-24
[41] 2014-04-10
[62] 2,886,374
[30] US (13/632,524) 2012-10-01

---

[21] **3,145,603**
[13] A1
[51] **Int.Cl. F24C 1/14 (2021.01) A47J 37/00 (2006.01) F24C 15/16 (2006.01)**
[25] EN
[54] **COMBINATION TOASTER AND PIZZA OVEN**
[54]
[72] CONRAD, WAYNE ERNEST, CA
[72] PETERSEN, DAVE, CA
[72] CONRAD, NINA, CA
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA
[22] 2018-10-04
[41] 2019-04-11
[62] 3,076,938
[30] US (62/569,057) 2017-10-06

---

[21] **3,145,673**
[13] A1
[51] **Int.Cl. F24F 1/0328 (2019.01) F24F 1/03 (2019.01) F24F 8/22 (2021.01) B66B 7/00 (2006.01)**
[25] EN
[54] **ELEVATOR SYSTEM VENTILATION**
[54]
[72] MANDY, DALTON JOHN, US
[72] MANDY, TERRY ROY, US
[72] SANDOVAL, JOSE JESUS, US
[71] MAN-D-TEC, INC., US
[22] 2021-05-14
[41] 2021-11-14
[30] US (63/024,927) 2020-05-14
[30] US (63/025/946) 2020-05-15
[30] US (63/026,683) 2020-05-18
[30] US (63/028,119) 2020-05-21
[30] US (63/038,509) 2020-06-12

---

[21] **3,145,716**
[13] A1
[51] **Int.Cl. F01M 9/06 (2006.01) F16H 57/04 (2010.01) F16N 7/28 (2006.01)**
[25] EN
[54] **GEAR & ENGINE OILS WITH REDUCED SURFACE TENSION**
[54]
[72] CHENG, XIURONG, US
[72] KOLEKAR, ANANT S., US
[72] LOCKWOOD, FRANCES E., US
[72] OLVER, ANDREW V., GB
[72] SWORSKI, ADAM E., US
[72] WU, GEFEI, US
[71] VALVOLINE LICENSING AND INTELLECTUAL PROPERTY LLC, US
[71] IMPERIAL INNOVATIONS LIMITED, GB
[22] 2014-11-20
[41] 2015-05-28
[62] 2,930,318
[30] US (61/907,661) 2013-11-22

---

[21] **3,145,947**
[13] A1
[25] EN
[54] **RESTRICTION DEVICE**
[54] **DISPOSITIF DE RESTRICTION**
[72] FORSELL, PETER, CH
[71] IMPLANTICA PATENT LTD., MT
[22] 2014-03-14
[41] 2014-09-18
[62] 2,906,242
[30] SE (1350319-8) 2013-03-15

Index of Canadian Patents Issued

February 8, 2022

Index des brevets canadiens délivrés

8 février 2022

Index des brevets canadiens délivrés
8 février 2022

Index of Canadian Patents Issued
February 8, 2022

Index of Canadian Applications Open to Public Inspection

January 23, 2022 to January 29, 2022

Index des demandes canadiennes mises à la disponibilité du public

23 janvier 2022 au 29 janvier 2022

Index of Canadian Applications Open to Public Inspection
January 23, 2022 to January 29, 2022

Index des demandes canadiennes mises à la disponibilité du public
23 janvier 2022 au 29 janvier 2022

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant