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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.

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℠, ou par Xpresspost℠ 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.

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.

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

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.

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.

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.

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. 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

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 22, 2022 contains applications open to public inspection from February 6, 2022 to February 12, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 22 février 2022 contient les demandes disponibles au public pour consultation pour la période du 6 février 2022 au 12 février 2022.

Canadian Patents Issued

February 22, 2022

Brevets canadiens délivrés

22 février 2022

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[11] **2,507,310**
[13] C
[51] **Int.Cl. G06Q 10/06 (2012.01)**
[25] EN
[54] **CAPTURING INSIGHT OF SUPERIOR USERS OF A CONTACT CENTER**
[54] **POUR UNE MEILLEURE CONNAISSANCE DES UTILISATEURS SUPERIEURS D'UN CENTRE DE CONTACT**
[72] REID, GREGORY S., US
[72] RINGO, TIMOTHY, GB
[72] LANE, DAVID P., GB
[72] LIAN, ELIZABETH H., US
[72] FARRELL, DANIEL, C., GB
[72] FENTON, CRAIG, GB
[72] SHEARING, ELISE, GB
[72] BELL, RANDY, US
[72] WONG, SEVASTI, GB
[72] LINGHAM, ANTHONY, GB
[72] FORRESTER, AUDREY, GB
[72] STAUBITZ, CLAUDIA, GB
[72] ADAMS, KEVIN, GB
[72] PICKERING, LESLEY, GB
[72] RITCHIE, PAUL, GB
[73] ACCENTURE GLOBAL SERVICES LIMITED, IE
[73] BRITISH TELECOMMUNICATIONS PLC, GB
[85] 2005-05-26
[86] 2003-11-26 (PCT/US2003/037779)
[87] (WO2004/051411)
[30] US (10/305,858) 2002-11-27

---

[11] **2,711,971**
[13] C
[51] **Int.Cl. G06F 16/903 (2019.01) G06Q 50/18 (2012.01)**
[25] EN
[54] **SYSTEM, METHOD, AND SOFTWARE FOR RESEARCHING, ANALYZING, AND COMPARING EXPERT WITNESSES**
[54] **SYSTEME, PROCEDE ET LOGICIEL POUR RECHERCHER, ANALYSER ET COMPARER DES TEMOINS EXPERTS**
[72] FENNE, CHRISTINE, US
[72] LAZARUS, SHARON, US
[72] HURWITZ, JOEL, US
[73] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
[85] 2010-06-30
[86] 2008-12-31 (PCT/US2008/014135)
[87] (WO2009/088480)
[30] US (61/009,692) 2007-12-31

---

[11] **2,826,341**
[13] C
[51] **Int.Cl. A61K 39/12 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **LIVE ATTENUATED STRAIN OF EUROPEAN PRRSV AND VACCINES THEREOF**
[54] **SOUCHE VIVANTE ATTENUEE DU VIRUS DU SYNDROME DYSGENESIQUE ET RESPIRATOIRE PORCIN (SDRP) EUROPEEN ET SES VACCINS**
[72] BURGARD, KIM, DE
[72] KROLL, JEREMY, US
[72] LAYTON, SARAH M., US
[72] OHLINGER, VOLKER, DE
[72] ORVEILLON, FRANCOIS-XAVIER, DE
[72] PESCH, STEFAN, DE
[72] PIONTKOWSKI, MICHAEL DENNIS, US
[72] ROOF, MICHAEL B., US
[72] UTLEY, PHILIP, US
[72] VAUGHN, ERIC MARTIN, US
[73] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[85] 2013-08-01
[86] 2012-02-14 (PCT/EP2012/052475)
[87] (WO2012/110489)
[30] US (61/444,074) 2011-02-17

---

[11] **2,831,000**
[13] C
[51] **Int.Cl. C07K 1/14 (2006.01) C07K 14/415 (2006.01) C12N 15/00 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHOD OF RECOVERING PLANT-DERIVED PROTEINS**
[54] **PROCEDE DE RECUPERATION DE PROTEINES DERIVEES DE PLANTES**
[72] COUTURE, MANON, CA
[72] PAQUET, DANY, CA
[72] VEZINA, LOUIS-PHILIPPE, CA
[73] MEDICAGO INC., CA
[85] 2013-09-23
[86] 2012-03-23 (PCT/CA2012/050180)
[87] (WO2012/126123)
[30] US (61/466,889) 2011-03-23

[11] **2,838,221**
[13] C
[51] **Int.Cl. E21B 15/00 (2006.01)**
[25] EN
[54] **AUTOMATED DRILLING/SERVICE RIG APPARATUS**
[54] **APPAREIL DE FORAGE ET D'ENTRETIEN DE PUITS AUTOMATIQUE**
[72] TAGGART, MARK CHARLES, CA
[72] HUNTER, DOUGLAS ANDREW, CA
[72] KUSLER, DANIEL HAVARD, CA
[72] KNAPP, COLIN REYNOLD, CA
[73] PROSTAR ENERGY TECHNOLOGIES (CANADA) GP LTD., CA
[86] (2838221)
[87] (2838221)
[22] 2013-12-24
[30] US (61/918,123) 2013-12-19

---

[11] **2,847,913**
[13] C
[51] **Int.Cl. H04L 47/125 (2022.01) H04L 47/36 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LOAD BALANCING IN COMPUTER NETWORKS**
[54] **SYSTEMES ET METHODES D'EQUILIBRAGE DE CHARGE DANS LES RESEAUX INFORMATIQUES**
[72] MARCHETTI, MICHAEL, CA
[73] SANDVINE CORPORATION, CA
[86] (2847913)
[87] (2847913)
[22] 2014-03-31

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[11] **2,851,893**
[13] C
[51] **Int.Cl. B29C 43/46 (2006.01) B21B 27/02 (2006.01) B29C 59/04 (2006.01)**
[25] EN
[54] **A LAMINATION CYLINDER WITH SUPERIMPOSED CRATERS HAVING A RANDOM DISTRIBUTION**
[54] **CYLINDRE DE LAMINAGE AVEC CRATERES SUPERPOSES AYANT UNE DISTRIBUTION ALEATOIRE**
[72] BOSELLI, GIOVANNI, IT
[72] CAVALLARI, MASSIMO, IT
[72] GABOARDI, PAOLO, IT
[72] MCWHIRTER, RICK, AU
[72] PERASSOLO, MASSIMO, IT
[72] TREVISAN, CLAUDIO, IT
[73] TENOVA S.P.A., IT
[86] (2851893)
[87] (2851893)
[22] 2014-05-07
[30] IT (MI2013A000879) 2013-05-30

---

[11] **2,852,269**
[13] C
[51] **Int.Cl. G09B 23/34 (2006.01)**
[25] EN
[54] **SIMULATED TISSUE STRUCTURE FOR SURGICAL TRAINING**
[54] **STRUCTURE DE TISSU SIMULEE POUR ENTRAINEMENT CHIRURGICAL**
[72] HOKE, ADAM, US
[72] BRESLIN, TRACY, US
[72] HART, CHARLES C., US
[72] BOLANOS, EDUARDO, US
[73] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2014-04-14
[86] 2012-10-19 (PCT/US2012/060997)
[87] (WO2013/059575)
[30] US (61/549,838) 2011-10-21

---

[11] **2,853,993**
[13] C
[51] **Int.Cl. B01D 53/14 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR SEPARATING METAL CARBONYLS FROM GAS MIXTURES**
[54] **PROCEDE ET APPAREIL POUR SEPARER LES CARBONYLES DE METAUX DES MELANGES GAZEUX**
[72] KERESTECIOGLU, ULVI, DE
[72] HABERLE, THOMAS, DE
[73] LINDE AKTIENGESELLSCHAFT, DE
[86] (2853993)
[87] (2853993)
[22] 2014-06-11
[30] DE (102013010103.4) 2013-06-18

---

[11] **2,858,041**
[13] C
[51] **Int.Cl. F23R 3/00 (2006.01) F02C 7/22 (2006.01) F02C 7/264 (2006.01) F02C 7/28 (2006.01)**
[25] EN
[54] **COMBUSTOR FLOATING COLLAR ASSEMBLY**
[54] **ENSEMBLE DE COLLIER FLOTTANT DE CHAMBRE DE COMBUSTION**
[72] STASTNY, HONZA, CA
[72] PATEL, BHAWAN, CA
[72] KULATHU, RAM, CA
[72] ANNEM, SUDHAKARA REDDY, IN
[72] GAJA, BALAKRISHNA, IN
[72] NAGARAJ, BHARATH MANDYA, IN
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2858041)
[87] (2858041)
[22] 2014-07-31
[30] US (13/964,378) 2013-08-12

[11] **2,859,920**
[13] C
[51] **Int.Cl. C07K 14/395 (2006.01) C12N 9/00 (2006.01)**
[25] EN
[54] **VARIANTS OF YEAST NDI1 GENE, AND USES THEREOF IN THE TREATMENT OF DISEASE ASSOCIATED WITH MITOCHONDRIAL DYSFUNCTION**
[54] **VARIANTS DU GENE NDI1 DE LEVURE ET UTILISATIONS DANS LE TRAITEMENT D'UNE MALADIE ASSOCIEE A UN DYSFONCTIONNEMENT MITOCHONDRIAL**
[72] FARRAR, GWYNETH JANE, IE
[72] MILLINGTON-WARD, SOPHIA, IE
[72] CHADDERTON, NAOMI, IE
[72] CARRIGAN, MATHEW ALAN, IE
[72] KENNA, PAUL, IE
[73] THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, AND THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH, NEAR DUBLIN, IE
[85] 2014-06-19
[86] 2012-12-21 (PCT/EP2012/076697)
[87] (WO2013/093029)
[30] EP (11194796.6) 2011-12-21

[11] **2,861,676**
[13] C
[51] **Int.Cl. G06F 21/00 (2013.01) G06Q 10/10 (2012.01) H04W 12/086 (2021.01) H04W 12/37 (2021.01) H04L 9/32 (2006.01)**
[25] EN
[54] **PRESENTING METADATA FROM MULTIPLE PERIMETERS**
[54] **PRESENTATION DE METADONNEES A PARTIR DE PLUSIEURS PERIMETRES**
[72] FERGUSON, GEORDON THOMAS, CA
[72] BENDER, CHRISTOPHER LYLE, CA
[72] ZUBIRI, ALBERTO DANIEL, CA
[72] SCHNEIDER, KENNETH CYRIL, CA
[72] WHITEHOUSE, OLIVER, GB
[72] HOBBS, CHRISTOPHER WILLIAM LEWIS, CA
[73] BLACKBERRY LIMITED, CA
[85] 2014-05-06
[86] 2012-11-09 (PCT/CA2012/050797)
[87] (WO2013/067645)
[30] US (61/558,942) 2011-11-11
[30] US (13/398,676) 2012-02-16

[11] **2,863,957**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/25 (2014.01) H04N 13/302 (2018.01) H04W 4/30 (2018.01)**
[25] EN
[54] **3D ENHANCED GAMING MACHINE WITH SELECTABLE 3D INTENSITY LEVEL**
[54] **MACHINE DE JEU AUGMENTE EN 3D DOTEE DE NIVEAU D'INTENSITE 3D SELECTIONNABLE**
[72] PIERER, FRANZ, AT
[73] IGT CANADA SOLUTIONS ULC, CA
[86] (2863957)
[87] (2863957)
[22] 2014-09-16

[11] **2,873,793**
[13] C
[51] **Int.Cl. C12N 9/00 (2006.01) C12N 15/55 (2006.01)**
[25] EN
[54] **METHODS OF INCORPORATING AN AMINO ACID COMPRISING A BCN GROUP INTO A POLYPEPTIDE USING AN ORTHOGONAL CODON ENCODING IT AND AN ORTHORGONAL PYLRS SYNTHASE**
[54] **PROCEDES D'INCORPORATION D'UN ACIDE AMINE COMPRENANT UN GROUPE BCN DANS UN POLYPEPTIDE A L'AIDE D'UN CODON ORTHOGONAL CODANT POUR LEDIT ACIDE ET D'UNE PYLRS SYNTHASE ORTHOGONALE**
[72] CHIN, JASON, GB
[72] LANG, KATHRIN, GB
[73] UNITED KINGDOM RESEARCH AND INNOVATION, GB
[85] 2014-11-17
[86] 2013-05-15 (PCT/GB2013/051249)
[87] (WO2013/171485)
[30] GB (1208875.3) 2012-05-18
[30] GB (1210303.2) 2012-06-08

[11] **2,875,030**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/213 (2014.01) A63F 13/28 (2014.01)**
[25] EN
[54] **GAMING SYSTEM WITH MOVABLE ULTRASONIC TRANSDUCER**
[54] **SYSTEME DE JEU A TRANSDUCTEUR ULTRASONIQUE MOBILE**
[72] IDRIS, FAYEZ, CA
[72] FROY, DAVID, CA
[73] IGT CANADA SOLUTIONS ULC, CA
[86] (2875030)
[87] (2875030)
[22] 2014-12-17

[11] **2,875,097**
[13] C
[51] **Int.Cl. H01P 3/08 (2006.01) H01R 13/04 (2006.01)**
[25] EN
[54] **TRANSMISSION LINE CIRCUIT ASSEMBLIES AND PROCESSES FOR FABRICATION**
[54] **AGENCEMENTS DE CIRCUITS DE LIGNES DE TRANSMISSION ET PROCEDES DE FABRICATION**
[72] SWARUP, ARVIND, CA
[72] DAVITT, DAVID, CA
[73] COM DEV LTD., CA
[86] (2875097)
[87] (2875097)
[22] 2014-12-15
[30] US (61/917,513) 2013-12-18

[11] **2,876,823**
[13] C
[51] **Int.Cl. F24C 3/10 (2006.01) F23Q 7/10 (2006.01)**
[25] EN
[54] **HOME APPLIANCE WITH GAS IGNITER HAVING HEATING ELEMENT AND SHROUD**
[54] **APPAREIL MENAGER COMPORTANT UN ALLUMEUR A GAZ AYANT UN ELEMENT CHAUFFANTET UN CHAPEAU**
[72] HOFFMAN, JENNIFER A., US
[73] BSH HOME APPLIANCES CORPORATION, US
[73] BSH HAUSGERATE GMBH, DE
[86] (2876823)
[87] (2876823)
[22] 2015-01-07
[30] US (14/247,270) 2014-04-08

[11] **2,878,375**
[13] C
[51] **Int.Cl. B05D 5/06 (2006.01) B41J 3/44 (2006.01) B41M 3/00 (2006.01) B41M 7/00 (2006.01) B44C 1/00 (2006.01) B44C 5/04 (2006.01)**
[25] EN
[54] **METHODS AND EQUIPMENTS OF FORMING A DIGITALLY PRINTED IMAGE ON A BUILDING PANEL**
[54] **PROCEDES ET EQUIPEMENTS DE FORMATION D'UNE IMAGE IMPRIMEE NUMERIQUEMENT SUR UN PANNEAU DE CONSTRUCTION**
[72] PERVAN, DARKO, SE
[73] CERALOC INNOVATION AB, SE
[85] 2015-01-05
[86] 2013-07-12 (PCT/SE2013/050898)
[87] (WO2014/017972)
[30] SE (1250898-2) 2012-07-26
[30] US (61/675,971) 2012-07-26

[11] **2,884,100**
[13] C
[51] **Int.Cl. H04W 52/24 (2009.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR MANAGING WIRELESS TRANSMISSION RESOURCES**
[54] **APPAREIL ET METHODE DE GESTION DE RESSOURCES DE TRANSMISSION SANS FIL**
[72] SUN, CHEN, CN
[73] SONY CORPORATION, JP
[85] 2015-03-05
[86] 2013-07-11 (PCT/CN2013/079218)
[87] (WO2014/036856)
[30] CN (201210330823.1) 2012-09-07

[11] **2,885,137**
[13] C
[51] **Int.Cl. C08L 77/00 (2006.01) C08K 7/06 (2006.01) C08L 71/12 (2006.01)**
[25] EN
[54] **ELECTRICALLY CONDUCTIVE POLYAMIDE MOULDING MATERIALS**
[54] **MATERIAUX DE MOULAGE EN POLYAMIDE CONDUCTEUR D'ELECTRICITE**
[72] AEPLI, ETIENNE, CH
[72] DUEBON, PIERRE, CH
[73] EMS-PATENT AG, CH
[86] (2885137)
[87] (2885137)
[22] 2015-03-13
[30] CH (00543/14) 2014-04-08
[30] EP (15 155 617.2) 2015-02-18

[11] **2,885,777**
[13] C
[51] **Int.Cl. G09G 3/22 (2006.01) G06F 9/30 (2018.01)**
[25] EN
[54] **CONTROL OF FLICKER IN DISPLAY IMAGES USING LIGHT EMITTING ELEMENT ARRAYS AS VIEWED BY A VIEWER IN MOTION**
[54] **COMMANDE DU SCINTILLEMENT DANS DES IMAGES AFFICHEES A L'AIDE DE RESEAUX D'ELEMENTS D'EMISSION DE LUMIERE VUES PAR UN OBSERVATEUR EN MOUVEMENT**
[72] HAN, JONG HWI, KR
[72] LEE, YEONG KEUN, KR
[72] BICKNELL, OSWALD KENNETH, CA
[73] ADTRACKMEDIA INC., CA
[85] 2015-03-23
[86] 2013-09-23 (PCT/CA2013/000796)
[87] (WO2014/043791)
[30] US (61/704,750) 2012-09-24
[30] US (61/859,906) 2013-07-30

[11] **2,886,668**
[13] C
[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/167 (2020.01) A24D 3/17 (2020.01)**
[25] EN
[54] **SUBSTITUTE CIGARETTE FOR NON-COMBUSTION USE**
[54] **SUBSTITUT DE CIGARETTE POUR UTILISATION SANS COMBUSTION**
[72] LEGER, JOSEPH R., CA
[73] HARTRICK, LYNN E., CA
[73] LEGER, JOSEPH R., CA
[86] (2886668)
[87] (2886668)
[22] 2015-03-31
[30] US (61/980,126) 2014-04-16

[11] **2,887,058**
[13] C
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6883 (2018.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01)**
[25] EN
[54] **USE OF MICROVESICLES IN DIAGNOSIS, PROGNOSIS, AND TREATMENT OF MEDICAL DISEASES AND CONDITIONS**
[54] **UTILISATION DE MICROVESICULES DANS LE DIAGNOSTIC, LE PRONOSTIC ET LE TRAITEMENT DE MALADIES ET D'ETATS MEDICAUX**
[72] COMPER, WAYNE, US
[72] RAMACHANDRAN, APARNA, US
[72] YAN, HAOHENG, US
[72] RUSSO, LEILEATA M., US
[72] SKOG, JOHAN KARL OLOV, US
[73] EXOSOME DIAGNOSTICS, INC., US
[85] 2015-04-01
[86] 2013-10-03 (PCT/US2013/063292)
[87] (WO2014/055775)
[30] US (61/709,337) 2012-10-03

[11] **2,888,892**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/14 (2006.01)**
[25] EN
[54] **NON CONDENSING GAS MANAGEMENT IN SAGD**
[54] **GESTION DE GAZ NON CONDENSABLES DANS LE DRAINAGE PAR GRAVITE AU MOYEN DE VAPEUR**
[72] MILLER, RYAN, CA
[72] ZEIDANI, KHALIL, CA
[72] CROWE-DIZEP, COLLEEN, CA
[72] LAMB-FAUQUIER, ERIN, CA
[72] ELLIOTT, CHRIS, CA
[72] GITTINS, SIMON, CA
[73] CENOVUS ENERGY INC., CA
[86] (2888892)
[87] (2888892)
[22] 2015-04-22
[30] US (61/982,772) 2014-04-22

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[11] **2,888,918**
[13] C
[51] **Int.Cl. C12M 1/24 (2006.01) C12M 1/10 (2006.01)**
[25] EN
[54] **STERILIZABLE PHOTOPOLYMER SERUM SEPARATOR**
[54] **SEPARATEUR DE SERUM PHOTOPOLYMERE STERILISABLE**
[72] EMERSON, JANE F., US
[72] AL-SHEIKHLY, MOHAMAD, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[73] UNIVERSITY OF MARYLAND, US
[85] 2015-04-14
[86] 2013-10-10 (PCT/US2013/064228)
[87] (WO2014/066049)
[30] US (13/656,926) 2012-10-22

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[11] **2,890,645**
[13] C
[51] **Int.Cl. E01H 5/06 (2006.01)**
[25] EN
[54] **CURBSTONE DEFLECTOR FOR A SNOW-CLEARING STRIP**
[54] **DEFLECTEUR DE BORDURE POUR BANDE D'ENLEVEMENT DE LA NEIGE**
[72] KUEPER, ROLAND, DE
[73] KUEPER GMBH & CO. KG, DE
[86] (2890645)
[87] (2890645)
[22] 2015-05-01
[30] DE (10 2014 006 274.0) 2014-05-02

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[11] **2,890,678**
[13] C
[51] **Int.Cl. A61K 39/135 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **SYNTHETIC PEPTIDE-BASED EMERGENCY VACCINE AGAINST FOOT AND MOUTH DISEASE (FMD)**
[54] **VACCIN D'URGENCE A BASE D'UN PEPTIDE SYNTHETIQUE CONTRE LA FIEVRE APHTEUSE (FMD)**
[72] WANG, CHANG YI, US
[73] UNITED BIOMEDICAL, INC., US
[85] 2015-05-07
[86] 2012-11-16 (PCT/US2012/065386)
[87] (WO2014/077825)

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[11] **2,891,824**
[13] C
[51] **Int.Cl. H04N 21/2343 (2011.01) H04W 4/06 (2009.01) H04J 11/00 (2006.01) H04L 27/02 (2006.01) H04N 7/12 (2006.01)**
[25] EN
[54] **BROADCAST TRANSITION CHANNEL**
[54] **CANAL DE TRANSITION DE DIFFUSION**
[72] FAY, LUKE, US
[72] MICHAEL, LACHLAN, JP
[73] SONY CORPORATION, JP
[85] 2015-05-19
[86] 2013-10-23 (PCT/US2013/066384)
[87] (WO2014/088718)
[30] US (61/733,242) 2012-12-04
[30] US (13/963,138) 2013-08-09

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[11] **2,893,231**
[13] C
[51] **Int.Cl. F41B 5/10 (2006.01) F41B 5/14 (2006.01)**
[25] EN
[54] **ARCHERY BOW WITH CIRCULAR STRING TRACK**
[54] **ARC DOTE D'UNE GORGE DE CORDE CIRCULAIRE**
[72] MCPHERSON, MATHEW A., US
[72] SIMONDS, GARY L., US
[73] MCP IP, LLC, US
[86] (2893231)
[87] (2893231)
[22] 2015-05-29
[30] US (14/725468) 2015-05-29
[30] US (62/005913) 2014-05-30

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[11] **2,895,661**
[13] C
[51] **Int.Cl. F41A 3/26 (2006.01) F41A 3/66 (2006.01)**
[25] EN
[54] **HANDGUN**
[54] **ARME DE POING**
[72] CONLE, HENNING, CH
[73] CONLE, HENNING, CH
[86] (2895661)
[87] (2895661)
[22] 2015-06-25
[30] AT (A 507/2014) 2014-06-26

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[11] **2,897,399**
[13] C
[51] **Int.Cl. H05K 5/00 (2006.01) H05K 5/06 (2006.01)**
[25] EN
[54] **WATERPROOF CASE**
[54] **ETUI ETANCHE**
[72] LAI, JUNE, CN
[72] WRIGHT, JOSHUA, CN
[73] CATALYST LIFESTYLE LIMITED, CN
[85] 2015-07-06
[86] 2014-01-07 (PCT/US2014/010524)
[87] (WO2014/107734)
[30] US (61/749,752) 2013-01-07
[30] US (13/835,915) 2013-03-15

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[11] **2,899,589**
[13] C
[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **C5 ANTIBODY AND METHOD FOR PREVENTING AND TREATING COMPLEMENT-RELATED DISEASES**
[54] **ANTICORPS ANTI-C5 ET METHODE DE PREVENTION ET DE TRAITEMENT DE MALADIES LIEES AU COMPLEMENT**
[72] CHUNG, JUNHO, KR
[72] KIM, HYORI, KR
[72] LEE, HWA KYOUNG, KR
[72] YANG, WON JUN, KR
[73] SEOUL NATIONAL UNIVERSITY R & DB FOUNDATION, KR
[85] 2015-07-28
[86] 2014-02-03 (PCT/KR2014/000920)
[87] (WO2014/119969)
[30] US (61/759,015) 2013-01-31
[30] US (61/862,248) 2013-08-05

[11] **2,902,055**
[13] C
[51] **Int.Cl. A61N 2/00 (2006.01) A61N 2/02 (2006.01)**
[25] EN
[54] **CENTRAL BASE COILS FOR DEEP TRANSCRANIAL MAGNETIC STIMULATION**
[54] **BOBINES CENTRALES DE BASE POUR STIMULATION MAGNETIQUE PROFONDE TRANSCRANIENNE**
[72] ZANGEN, ABRAHAM, IL
[72] ROTH, YIFTACH, IL
[73] BRAINSWAY, LTD., IL
[85] 2015-08-20
[86] 2014-02-20 (PCT/IB2014/059110)
[87] (WO2014/128630)
[30] US (13/772,442) 2013-02-21

[11] **2,904,686**
[13] C
[51] **Int.Cl. A61B 17/34 (2006.01)**
[25] EN
[54] **TROCAR CANNULA ASSEMBLY WITH LOW PROFILE INSERTION CONFIGURATION AND METHOD OF MANUFACTURE**
[54] **ENSEMBLE CANULE A TROCART AVEC CONFIGURATION D'INSERTION A PROFIL BAS ET PROCEDE DE FABRICATION**
[72] PRAVONG, BOUN, US
[72] PRAVONGVIENGKHAM, KENNII, US
[72] BOLANOS, EDUARDO, US
[72] VELASCO, JOEL B., US
[73] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2015-09-08
[86] 2014-03-13 (PCT/US2014/026103)
[87] (WO2014/151613)
[30] US (61/792,285) 2013-03-15

[11] **2,905,137**
[13] C
[51] **Int.Cl. H04W 28/26 (2009.01) H04W 72/02 (2009.01) H04W 84/10 (2009.01)**
[25] EN
[54] **MULTI-MODE MOBILE DEVICE BASED RADIO ACCESS TECHNOLOGY SELECTION METHOD FOR IDLE MODE OPERATIONS**
[54] **METHODE DE SELECTION DE TECHNOLOGIE D'ACCES RADIO FONDEE SUR DES APPAREILS MOBILES MULTI-MODES POUR FONCTIONNEMENT EN MODE REPOS**
[72] EKICI, OZGUR, US
[72] ISLAM, MUHAMMAD KHALEDUL, CA
[72] PRODANOS, DIMITRIOS, CA
[73] BLACKBERRY LIMITED, CA
[86] (2905137)
[87] (2905137)
[22] 2012-07-31
[62] 2,784,189
[30] EP (11176841.2) 2011-08-08

[11] **2,905,811**
[13] C
[51] **Int.Cl. F21K 9/60 (2016.01) F21K 9/66 (2016.01) F21K 9/69 (2016.01)**
[25] EN
[54] **CLASS 1 COMPLIANT LENS ASSEMBLY**
[54] **ENSEMBLE LENTILLE ADAPTABLE DE CLASSE 1**
[72] DUCKWORTH, JASON E., US
[73] HUBBELL INCORPORATED, US
[85] 2015-09-11
[86] 2014-03-11 (PCT/US2014/023778)
[87] (WO2014/150610)
[30] US (61/794,456) 2013-03-15
[30] US (14/153,813) 2014-01-13

[11] **2,909,357**
[13] C
[51] **Int.Cl. A61K 31/135 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **USE OF KETAMINE TO TREAT POST-TRAUMATIC STRESS DISORDER**
[54] **UTILISATION DE KETAMINE POUR TRAITER LE TROUBLE DE STRESS POST-TRAUMATIQUE**
[72] CHARNEY, DENNIS S., US
[72] FEDER, ADRIANA, US
[73] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2015-10-13
[86] 2014-04-14 (PCT/US2014/033997)
[87] (WO2014/169272)
[30] US (61/811,681) 2013-04-12
[30] US (61/915,947) 2013-12-13

[11] **2,910,134**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **RESPIRATORY THERAPY APPARATUS AND METHODS**
[54] **APPAREIL ET PROCEDES DE THERAPIE RESPIRATOIRE**
[72] VARNEY, MARK SINCLAIR, GB
[73] SMITHS MEDICAL INTERNATIONAL LIMITED, GB
[85] 2015-10-23
[86] 2014-05-14 (PCT/GB2014/000184)
[87] (WO2014/202924)
[30] GB (1310826.1) 2013-06-18

[11] **2,912,135**
[13] C
[51] **Int.Cl. B23K 26/03 (2006.01) B23K 26/04 (2014.01) B23K 26/08 (2014.01) G01B 9/00 (2006.01)**
[25] EN
[54] **MACHINING HEAD FOR A LASER MACHINING DEVICE**
[54] **TETE D'USINAGE DESTINEE A UN DISPOSITIF D'USINAGE AU LASER**
[72] KOGEL-HOLLACHER, MARKUS, DE
[72] SCHONLEBER, MARTIN, DE
[73] PRECITEC OPTRONIK GMBH, DE
[85] 2015-11-10
[86] 2014-05-08 (PCT/EP2014/001234)
[87] (WO2014/183849)
[30] DE (10 2013 008 269.2) 2013-05-15

[11] **2,915,502**
[13] C
[51] **Int.Cl. G01N 27/68 (2006.01)**
[25] EN
[54] **DUAL POLARITY SPARK ION SOURCE**
[54] **SOURCE D'IONS D'ETINCELLE A POLARITE DOUBLE**
[72] BOUMSELLEK, SAID, US
[72] IVASHIN, DMITRIY, US
[73] LEIDOS SECURITY DETECTION & AUTOMATION, INC., US
[85] 2015-12-14
[86] 2014-06-27 (PCT/US2014/044520)
[87] (WO2014/210428)
[30] US (61/840,050) 2013-06-27

[11] **2,915,832**
[13] C
[51] **Int.Cl. C09K 23/18 (2022.01) C09K 23/42 (2022.01) C09K 8/584 (2006.01) E21B 43/22 (2006.01)**
[25] EN
[54] **SURFACTANT COMPOSITION COMPRISING A CATIONIC QUATERNARY AMMONIUM SURFACTANT AND AN ANIONIC-NONIONIC SURFACTANT, PRODUCTION AND USE THEREOF**
[54] **COMPOSITION TENSIOACTIVE COMPRENANT UN SURFACTIF A BASE D'AMMONIUM QUATERNAIRE CATIONIQUE ET UN SURFACTIF ANIONIQUE-NON IONIQUE, SA PRODUCTION ET SON UTILISATION**
[72] LI, YINGCHENG, CN
[72] GU, SONGYUAN, CN
[72] ZHANG, WEIDONG, CN
[72] BAO, XINNING, CN
[72] SHEN, ZHIQIN, CN
[72] TANG, HENGZHI, CN
[72] ZHAI, XIAODONG, CN
[73] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[73] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
[85] 2015-12-16
[86] 2014-06-17 (PCT/CN2014/000595)
[87] (WO2014/201854)
[30] CN (201310237545.X) 2013-06-17
[30] CN (201310237544.5) 2013-06-17

[11] **2,916,242**
[13] C
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/53 (2020.01) G01F 1/76 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR SENSING MASS AIRFLOW**
[54] **DISPOSITIF ET PROCEDE POUR DETECTER UN ECOULEMENT D'AIR DE MASSE**
[72] ALARCON, RAMON, US
[72] STARMAN, MICHAEL, US
[73] FONTEM HOLDINGS 4 B.V., NL
[85] 2015-12-18
[86] 2014-06-19 (PCT/US2014/043253)
[87] (WO2014/205263)
[30] US (61/836,923) 2013-06-19

[11] **2,916,429**
[13] C
[51] **Int.Cl. B29C 48/40 (2019.01) B29B 7/48 (2006.01)**
[25] EN
[54] **SCREW ELEMENTS FOR MULTI-SHAFT SCREW-TYPE MACHINES**
[54] **ELEMENTS A VIS SANS FIN POUR MACHINES A VIS A PLUSIEURS ARBRES**
[72] KONIG, THOMAS, DE
[73] COVESTRO DEUTSCHLAND AG, DE
[85] 2015-12-21
[86] 2014-06-20 (PCT/EP2014/062981)
[87] (WO2014/206865)
[30] EP (13173337.0) 2013-06-24

[11] **2,916,442**
[13] C
[51] **Int.Cl. A61M 1/16 (2006.01) A61J 1/10 (2006.01)**
[25] EN
[54] **PACKAGING OF POWDERY MATERIAL FOR PREPARATION OF A MEDICAL SOLUTION**
[54] **EMBALLAGE D'UN MATERIAU EN POUDRE POUR LA PREPARATION D'UNE SOLUTION MEDICALE**
[72] SCHROEDER, PETRONELLA, SE
[72] JANSSON, OLOF, SE
[72] LINDEN, TORBJORN, SE
[73] GAMBRO LUNDIA AB, SE
[85] 2015-12-21
[86] 2014-06-11 (PCT/EP2014/062112)
[87] (WO2015/000666)
[30] SE (1350845-2) 2013-07-05

[11] **2,918,677**
[13] C
[51] **Int.Cl. H04R 5/02 (2006.01) H04S 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR PROCESSING OF SOUND SIGNALS**
[54] **PROCEDE DE TRAITEMENT DE SIGNAUX SONORES**
[72] MORROW, CHARLES, US
[73] MORROW, CHARLES, US
[85] 2016-01-18
[86] 2014-07-17 (PCT/US2014/047012)
[87] (WO2015/009921)
[30] US (13/946,312) 2013-07-19

[11] **2,918,692**
[13] C
[51] **Int.Cl. H04N 21/234 (2011.01) H04N 21/44 (2011.01) H04N 21/81 (2011.01)**
[25] EN
[54] **DYNAMIC CHUNK MANIPULATION FOR STREAMING MIXED LIVE AND ON-DEMAND MEDIA: APPLICATION PROGRAMMING INTERFACE**
[54] **MANIPULATION DYNAMIQUE DE SEGMENTS POUR TRANSMISSION MULTIMEDIA EN CONTINU MIXTE EN DIRECT ET A LA DEMANDE: INTERFACE DE PROGRAMMATION D'APPLICATION**
[72] MCGOWAN, ALBERT JOHN, US
[72] MAULTSBY, NICHOLAS, US
[72] MARSHALL, JARED, US
[73] BRIGHTCOVE INC., US
[85] 2016-01-18
[86] 2014-09-22 (PCT/US2014/056823)
[87] (WO2015/047959)
[30] US (61/884,709) 2013-09-30
[30] US (14/086,801) 2013-11-21
[30] US (14/086,822) 2013-11-21

[11] **2,919,155**
[13] C
[51] **Int.Cl. B64F 5/00 (2017.01) G06F 30/15 (2020.01) B21H 7/16 (2006.01) B64C 11/18 (2006.01)**
[25] FR
[54] **METHOD FOR MODELLING A NON-STREAMLINED PROPELLER BLADE**
[54] **PROCEDE DE MODELISATION D'UNE PALE D'UNE HELICE NON-CARENEE**
[72] VERBRUGGE, CYRIL, FR
[72] VLASTUIN, JONATHAN, FR
[72] DEJEU, CLEMENT, FR
[72] LOUET, ANTHONY, FR
[73] SNECMA, FR
[85] 2016-01-22
[86] 2014-07-28 (PCT/FR2014/051953)
[87] (WO2015/015107)
[30] FR (1357449) 2013-07-29

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[11] **2,919,673**
[13] C
[51] **Int.Cl. A61K 47/26 (2006.01) A61K 31/565 (2006.01) A61K 47/14 (2017.01)**
[25] EN
[54] **USE OF HEPTYL GLUCOSIDE AS SKIN PENETRATION ENHANCER IN TRANSDERMAL PHARMACEUTICAL COMPOSITIONS**
[54] **UTILISATION D'HEPTYL GLUCOSIDE COMME AGENT AMELIORANT LA PENETRATION CUTANEE DES COMPOSITIONS PHARMACEUTIQUES TRANSDERMIQUES**
[72] BANOV, DANIEL, US
[73] PROFESSIONAL COMPOUNDING CENTERS OF AMERICA (PCCA), US
[86] (2919673)
[87] (2919673)
[22] 2016-02-02
[30] US (14/682,419) 2015-04-09

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[11] **2,920,150**
[13] C
[51] **Int.Cl. H04L 25/02 (2006.01)**
[25] EN
[54] **TRANSMITTING APPARATUS, RECEIVING APPARATUS, AND CONTROLLING METHODS THEREOF**
[54] **APPAREIL D'EMISSION, APPAREIL DE RECEPTION, ET LEURS PROCEDES DE COMMANDE**
[72] HWANG, SUNG-OH, KR
[72] MOURAD, ALAIN, GB
[72] YANG, HYUN-KOO, KR
[72] HWANG, SUNG-HEE, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2016-02-01
[86] 2014-08-05 (PCT/KR2014/007226)
[87] (WO2015/020401)
[30] US (61/862,168) 2013-08-05
[30] US (61/873,493) 2013-09-04
[30] KR (10-2014-0062575) 2014-05-23

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[11] **2,922,626**
[13] C
[51] **Int.Cl. F24T 10/00 (2018.01) F24T 10/13 (2018.01) F28D 20/00 (2006.01)**
[25] EN
[54] **A GEOTHERMAL ENERGY PLANT AND A METHOD FOR ESTABLISHING SAME**
[54] **CENTRALE D'ENERGIE GEOTHERMIQUE ET PROCEDE D'INSTALLATION ASSOCIE**
[72] SONJU, OTTO KRISTIAN, NO
[72] HALMRAST, BJORN, NO
[72] MOE, PER THOMAS, NO
[73] GEOVARME AS, NO
[85] 2016-02-26
[86] 2014-08-27 (PCT/NO2014/050153)
[87] (WO2015/030601)
[30] NO (20131146) 2013-08-27

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[11] **2,924,074**
[13] C
[51] **Int.Cl. B65D 33/36 (2006.01) B65D 71/34 (2006.01) B65D 77/22 (2006.01)**
[25] EN
[54] **BAGS, GRAVITY FED BAGS, AND USES THEREOF**
[54] **SACS, SACS A ALIMENTATION PAR GRAVITE ET LEURS UTILISATIONS**
[72] BALL, JOSHUA, US
[72] VANLOOCKE, CORY, US
[72] BLANTON, CORY, US
[73] TRANSCONTINENTAL US LLC, US
[85] 2016-03-10
[86] 2014-09-12 (PCT/US2014/055372)
[87] (WO2015/038880)
[30] US (61/877,190) 2013-09-12
[30] US (61/889,588) 2013-10-11
[30] US (61/943,239) 2014-02-21

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[11] **2,926,550**
[13] C
[51] **Int.Cl. C10K 3/02 (2006.01) B01J 23/74 (2006.01) C10G 2/00 (2006.01) C10G 3/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PRODUCING A HYDROCARBON FRACTION AND A HYDROCARBON FRACTION AND ITS USE**
[54] **PROCEDE ET APPAREIL POUR OBTENIR UNE FRACTION D'HYDROCARBURES ET FRACTION D'HYDROCARBURES ET SON UTILISATION**
[72] REINIKAINEN, MATTI, FI
[72] SIMELL, PEKKA, FI
[73] TEKNOLOGIAN TUTKIMUSKESKUS VTT OY, FI
[85] 2016-04-05
[86] 2014-10-09 (PCT/FI2014/050766)
[87] (WO2015/052379)
[30] FI (20136010) 2013-10-10

[11] **2,926,978**
[13] C
[51] **Int.Cl. B02C 17/02 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING PHARMACEUTICAL FORMULATIONS FOR INHALATION COMPRISING A HIGH-DOSAGE STRENGTH ACTIVE INGREDIENT**
[54] **PROCEDE POUR PREPARER DES FORMULATIONS PHARMACEUTIQUES POUR L'INHALATION COMPRENANT UN INGREDIENT ACTIF A FORCE DE DOSAGE ELEVEE**
[72] CAFIERO, CLAUDIO, IT
[72] TOSINI, FEDERICO, IT
[73] CHIESI FARMACEUTICI S.P.A., IT
[85] 2016-04-11
[86] 2014-10-07 (PCT/EP2014/071414)
[87] (WO2015/052169)
[30] EP (13188042.9) 2013-10-10

[11] **2,928,911**
[13] C
[51] **Int.Cl. F16D 69/04 (2006.01) F16D 65/092 (2006.01)**
[25] EN
[54] **BACK PLATE FOR A BRAKE PAD OF A DISC BRAKE ASSEMBLY AND MANUFACTURING METHOD THEREOF**
[54] **PLAQUE D'APPUI POUR PLAQUETTE DE FREIN D'UN ENSEMBLE FREIN A DISQUE ET SON PROCEDE DE FABRICATION**
[72] PIZZIO, RODOLFO, IT
[72] VIRONDA, RAFFAELE GABRIELE, IT
[72] RANGONI, FRANCESCO, IT
[73] UTIL INDUSTRIES S.P.A., IT
[85] 2016-04-27
[86] 2014-10-30 (PCT/IB2014/065706)
[87] (WO2015/063713)
[30] IT (TO2013A000878) 2013-10-31

[11] **2,929,622**
[13] C
[51] **Int.Cl. B67B 7/14 (2006.01)**
[25] EN
[54] **CLOSURE REMOVAL APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE D'ENLEVEMENT D'UN MECANISME DE FERMETURE**
[72] WARREN, GRREGORY J., US
[72] VANCE, ROBERT L., US
[72] GMITRUK, ANTHONY, US
[72] VEGA, JOSE L., US
[73] BEHR PROCESS CORPORATION, US
[86] (2929622)
[87] (2929622)
[22] 2016-05-11
[30] US (62/161,959) 2015-05-15
[30] US (15/150,524) 2016-05-10

[11] **2,929,684**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61F 2/14 (2006.01) A61F 9/00 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **EYE DEVICE**
[54] **DISPOSITIF OCULAIRE**
[72] RAKIC, JEAN-MARIE, BE
[72] FOIDART, JEAN-MICHEL, BE
[73] EYED PHARMA, BE
[85] 2016-05-04
[86] 2014-11-14 (PCT/EP2014/074644)
[87] (WO2015/071427)
[30] EP (13192889.7) 2013-11-14

[11] **2,929,966**
[13] C
[51] **Int.Cl. A23C 19/06 (2006.01) A23C 19/11 (2006.01)**
[25] EN
[54] **PROCESSED CHEESE WITH NATURAL ANTIBACTERIAL AND ANTIMYCOTIC COMPONENTS AND METHOD OF MANUFACTURING**
[54] **FROMAGE TRAITE PAR DES CONSTITUANTS NATURELS ANTIBACTERIENS ET ANTIMYCOTIQUES ET PROCEDE DE FABRICATION**
[72] MARCUS-JOHNSON, CHRISTINE D., US
[72] CHINWALLA, AMMAR N., US
[72] REEVE, JON L., US
[73] KRAFT FOODS GROUP BRANDS LLC, US
[85] 2016-05-06
[86] 2014-12-09 (PCT/US2014/069278)
[87] (WO2015/089029)
[30] US (61/914,246) 2013-12-10

[11] **2,932,048**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) C12N 5/071 (2010.01) A61K 38/28 (2006.01) A61K 39/39 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **A CHAMBER FOR ENCAPSULATING SECRETING CELLS**
[54] **CHAMBRE D'ENCAPSULATION DE CELLULES SECRETRICES**
[72] BOU AOUN, RICHARD, FR
[72] SIGRIST, SEVERINE, FR
[72] SPROLL, STEFAN, CH
[73] DEFYMED, FR
[85] 2016-05-27
[86] 2014-12-09 (PCT/EP2014/076955)
[87] (WO2015/086550)
[30] FR (FR 13/62342) 2013-12-10

[11] **2,932,221**
[13] C
[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 33/14 (2006.01) A61K 51/02 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **COMBINATION OF PI3K-INHIBITORS**
[54] **COMBINAISONS D'INHIBITEURS DE PI3K**
[72] LIU, NINGSHU, DE
[73] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[85] 2016-05-31
[86] 2014-11-28 (PCT/EP2014/075886)
[87] (WO2015/082322)
[30] EP (13195485.1) 2013-12-03

[11] **2,932,444**
[13] C
[51] **Int.Cl. B65D 21/024 (2006.01)**
[25] EN
[54] **FOAMED HOT MELT ADHESIVE COMPOSITION FOR BONDING PACKS OF CONTAINERS**
[54] **COMPOSITION D'ADHESIF MOUSSE THERMOFUSIBLE POUR RELIER DES PAQUETS DE RECIPIENTS**
[72] BECKER, CHRISTIAN, DE
[73] H.B. FULLER COMPANY, US
[85] 2016-06-01
[86] 2015-01-09 (PCT/US2015/010821)
[87] (WO2015/106105)
[30] US (61/925,763) 2014-01-10

[11] **2,933,027**
[13] C
[51] **Int.Cl. C09J 103/08 (2006.01) B31F 1/12 (2006.01) C09J 11/00 (2006.01) D21F 5/02 (2006.01)**
[25] EN
[54] **ADHESIVE FORMULATION AND CREPING METHODS USING SAME**
[54] **FORMULATION D'ADHESIF ET PROCEDES DE CREPAGE L'UTILISANT**
[72] TAN, JIAN, US
[72] GLOVER, DANIEL F., US
[72] COVARRUBIAS, ROSA, US
[73] BUCKMAN LABORATORIES INTERNATIONAL, INC., US
[85] 2016-06-07
[86] 2014-12-05 (PCT/US2014/068676)
[87] (WO2015/088881)
[30] US (61/913,950) 2013-12-10

[11] **2,933,110**
[13] C
[51] **Int.Cl. B21D 26/035 (2011.01) B21D 26/047 (2011.01)**
[25] EN
[54] **MOLDING DEVICE**
[54] **DISPOSITIF DE MOULAGE**
[72] UENO, NORIEDA, JP
[72] ISHIZUKA, MASAYUKI, JP
[72] SAIKA, MASAYUKI, JP
[72] KOMATSU, TAKASHI, JP
[73] SUMITOMO HEAVY INDUSTRIES, LTD., JP
[85] 2016-06-08
[86] 2014-09-30 (PCT/JP2014/076098)
[87] (WO2015/087601)
[30] JP (2013-254383) 2013-12-09

[11] **2,933,563**
[13] C
[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/105 (2014.01) H04N 19/136 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **IMAGE PROCESSING APPARATUS AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT D'IMAGE**
[72] NAKAGAMI, OHJI, JP
[73] SONY CORPORATION, JP
[85] 2016-06-10
[86] 2014-12-12 (PCT/JP2014/082923)
[87] (WO2015/098562)
[30] JP (2013-272941) 2013-12-27

[11] **2,933,952**
[13] C
[51] **Int.Cl. C25D 11/02 (2006.01) C25D 11/26 (2006.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING A PART COATED WITH A PROTECTIVE COATING**
[54] **PROCEDE DE FABRICATION D'UNE PIECE REVETUE D'UN REVETEMENT PROTECTEUR**
[72] KNITTEL, STEPHANE, FR
[73] SNECMA, FR
[85] 2016-06-15
[86] 2014-12-08 (PCT/FR2014/053206)
[87] (WO2015/092205)
[30] FR (1362707) 2013-12-16

[11] **2,934,318**
[13] C
[51] **Int.Cl. A61N 1/04 (2006.01) A61F 13/40 (2006.01) A61N 1/30 (2006.01) A61N 1/32 (2006.01)**
[25] EN
[54] **SYSTEM FOR THE TRANSDERMAL DELIVERY OF ACTIVE INGREDIENT**
[54] **SYSTEME D'ADMINISTRATION TRANSDERMIQUE D'UN PRINCIPE ACTIF**
[72] SAMETI, MOHAMMAD, DE
[72] HACKBARTH, RONALD, DE
[72] SCHUMANN, KLAUS, DE
[72] SCHMITZ, CHRISTOPH, DE
[73] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2016-06-17
[86] 2014-12-17 (PCT/EP2014/003399)
[87] (WO2015/090583)
[30] EP (13199189.5) 2013-12-20

[11] **2,934,422**
[13] C
[51] **Int.Cl. E21B 28/00 (2006.01) E21B 43/00 (2006.01)**
[25] FR
[54] **DEVICE FOR STIMULATION OF WELLS AND DIAGNOSTIC METHOD FOR SUCH A STIMULATION DEVICE**
[54] **DISPOSITIF DE STIMULATION DE PUITS ET PROCEDE DE DIAGNOSTIC D'UN TEL DISPOSITIF DE STIMULATION**
[72] DELCHAMBRE, MICHAEL, FR
[72] MONCHO, SALVADOR, FR
[72] HORSOT, XAVIER, FR
[73] ENE29 S.AR.L., LU
[85] 2016-06-17
[86] 2014-12-19 (PCT/EP2014/078652)
[87] (WO2015/091909)
[30] FR (1363230) 2013-12-20

[11] **2,935,167**
[13] C
[51] **Int.Cl. A61K 9/51 (2006.01) A61K 9/127 (2006.01) A61K 9/14 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **TARGETED NANOCARRIERS FOR THE ADMINISTRATION OF IMMUNOSUPPRESSIVE AGENTS**
[54] **NANOSUPPORTS CIBLES POUR L'ADMINISTRATION D'AGENTS IMMUNOSUPPRESSEURS**
[72] BROOME, ANN-MARIE, US
[72] DIXIT, SURAJ, US
[72] NADIG, SATISH, US
[72] ATKINSON, CARL, US
[73] MUSC FOUNDATION FOR RESEARCH DEVELOPMENT, US
[85] 2016-06-23
[86] 2015-01-14 (PCT/US2015/011310)
[87] (WO2015/108912)
[30] US (61/928,277) 2014-01-16
[30] US (61/974,872) 2014-04-03

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[11] **2,935,929**
[13] C
[51] **Int.Cl. C12N 7/00 (2006.01) C07K 14/145 (2006.01) C12N 15/867 (2006.01)**
[25] EN
[54] **PSEUDOTYPED LENTIVIRAL VECTORS**
[54] **VECTEURS LENTIVIRAUX PSEUDOTYPES**
[72] ANASTASOV, NATASA, DE
[72] HOFIG, INES, DE
[72] THIRION, CHRISTIAN, DE
[73] SIRION BIOTECH GMBH, DE
[73] HELMHOLTZ ZENTRUM MUNCHEN - DEUTSCHES FORSCHUNGSZENTRUM FUR GESUNDHEIT UND UMWELT (GMBH), DE
[85] 2016-07-05
[86] 2015-01-09 (PCT/EP2015/050337)
[87] (WO2015/104376)
[30] EP (14150846.5) 2014-01-10

---

[11] **2,936,040**
[13] C
[51] **Int.Cl. B66D 5/14 (2006.01) B66D 5/26 (2006.01) B66D 5/28 (2006.01)**
[25] EN
[54] **FLUIDICALLY ACTUATABLE FAIL-SAFE DISK BRAKE SYSTEM AND LIFTING DEVICE COMPRISING SAID SYSTEM**
[54] **SYSTEME DE FREIN A DISQUE POUVANT ETRE ACTIONNE PAR UN FLUIDE ET A SECURITE INTRINSEQUE, AINSI QU'ELEVATEUR POURVU DUDIT SYSTEME**
[72] MOLL, ROLAND, DE
[73] MHWIRTH GMBH, DE
[85] 2016-07-06
[86] 2015-01-19 (PCT/EP2015/050868)
[87] (WO2015/113847)
[30] DE (10 2014 101 128.7) 2014-01-30

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[11] **2,936,088**
[13] C
[51] **Int.Cl. A42B 3/00 (2006.01) A42B 3/12 (2006.01) A42B 3/14 (2006.01)**
[25] EN
[54] **IMPACT ABSORBING APPARATUS**
[54] **APPAREIL D'ABSORPTION DE CHOC**
[72] KELLY, MAURICE A., US
[72] SPRINGS, SHAWN A., US
[72] MARUCCHI, LEON A., US
[72] HADLEY, MARCUS A., US
[72] CARLTON, ROBERT A., US
[73] WINDPACT, INC., US
[85] 2016-07-06
[86] 2014-01-21 (PCT/US2014/012257)
[87] (WO2014/113767)
[30] US (61/754,254) 2013-01-18

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[11] **2,936,802**
[13] C
[51] **Int.Cl. E04G 21/14 (2006.01) E04G 3/28 (2006.01) E04G 27/00 (2006.01)**
[25] EN
[54] **LOAD CARRYING PLATFORM SHUTTLE**
[54] **NAVETTE A PLATEFORME DE TRANSPORT DE CHARGE**
[72] MCKEON, ALLAN SYDNEY, AU
[73] GUMBOOTS NOMINEES PTY LIMITED, AU
[85] 2016-07-14
[86] 2015-01-09 (PCT/AU2015/000013)
[87] (WO2015/106307)
[30] AU (2014900137) 2014-01-16

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[11] **2,938,850**
[13] C
[51] **Int.Cl. B65G 57/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PALLETIZING**
[54] **SYSTEME ET PROCEDE DE MISE EN PALETTISATION**
[72] DUCHARME, MARC, CA
[72] FORGET, JEAN-FRANCOIS, CA
[72] JODOIN, ROBERT, CA
[72] KESSLER, CEDRIC, CA
[72] METIVIER, REGIS, CA
[72] MORENCY, SYLVAIN-PAUL, CA
[73] SYMBOTIC CANADA ULC, CA
[86] (2938850)
[87] (2938850)
[22] 2016-08-11
[30] US (62/204,157) 2015-08-12

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[11] **2,939,053**
[13] C
[51] **Int.Cl. C12N 15/01 (2006.01) A23C 9/123 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **PHAGE INSENSITIVE STREPTOCOCCUS THERMOPHILUS**
[54] **STREPTOCOCCUS THERMOPHILUS INSENSIBLE AUX BACTERIOPHAGES**
[72] KOUWEN, ROELOF HENDRIK MATTHIJS, NL
[72] VAN HEE, PIM, NL
[72] VAN SINDEREN, DOUWE, IE
[72] MCDONNELL, BRIAN, IE
[72] MAHONY, JENNIFER, IE
[73] DSM IP ASSETS B.V., NL
[85] 2016-08-08
[86] 2015-02-20 (PCT/EP2015/053601)
[87] (WO2015/124718)
[30] EP (14155872.6) 2014-02-20

[11] **2,939,467**
[13] C
[51] **Int.Cl. C09K 11/02 (2006.01) C09K 11/54 (2006.01) H01L 51/00 (2006.01) H05B 33/14 (2006.01)**
[25] EN
[54] **LUMINESCENT HYBRID NANOMATERIALS WITH AGGREGATION INDUCED EMISSION**
[54] **NANOMATERIAUX HYBRIDES LUMINESCENTS A EMISSION INDUITE PAR AGREGATION**
[72] ACKERMANN, JORG, FR
[72] MARGEAT, OLIVIER, FR
[72] HISSLER, MURIEL, FR
[72] BOUIT, PIERRE ANTOINE, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[73] UNIVERSITE AIX-MARSEILLE, FR
[73] UNIVERSITE DE RENNES 1, FR
[85] 2016-08-11
[86] 2015-02-24 (PCT/EP2015/053859)
[87] (WO2015/124802)
[30] FR (1451470) 2014-02-24
[30] EP (14173001.0) 2014-06-18

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[11] **2,941,804**
[13] C
[51] **Int.Cl. F02C 7/32 (2006.01) F01D 25/16 (2006.01) F02C 7/06 (2006.01)**
[25] FR
[54] **ACCESSORY GEARBOX FOR GAS TURBINE ENGINE**
[54] **RELAIS D'ACCESSOIRES POUR MOTEUR A TURBINE A GAZ**
[72] MORELLI, BORIS, FR
[72] PRUNERA-USACH, STEPHANE, FR
[72] VIEL, JULIEN, FR
[73] SAFRAN TRANSMISSION SYSTEMS, FR
[85] 2016-09-07
[86] 2015-03-19 (PCT/FR2015/050686)
[87] (WO2015/140476)
[30] FR (1452405) 2014-03-21

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[11] **2,941,967**
[13] C
[51] **Int.Cl. F24F 3/14 (2006.01) F24F 11/77 (2018.01) F24F 11/81 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR REHEAT DEHUMIDIFICATION WITH VARIABLE AIR VOLUME**
[54] **METHODE ET APPAREIL DE DESHUMIDIFICATION PAR RECHAUFFAGE A VOLUME D'AIR VARIABLE**
[72] GOEL, RAKESH, US
[72] PHILLIPS, DEREK, US
[73] LENNOX INDUSTRIES LLC, US
[86] (2941967)
[87] (2941967)
[22] 2016-09-14
[30] US (14/954,531) 2015-11-30

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[11] **2,943,212**
[13] C
[51] **Int.Cl. A41B 9/02 (2006.01) A41B 9/04 (2006.01)**
[25] EN
[54] **BOXER BRIEFS**
[54] **CALECONS BOXERS**
[72] NG, ORIYA, CA
[73] 1095950 B.C. LTD., CA
[86] (2943212)
[87] (2943212)
[22] 2016-09-27

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[11] **2,943,477**
[13] C
[51] **Int.Cl. F01D 5/04 (2006.01) F01D 1/08 (2006.01) F01D 1/14 (2006.01) F01D 9/04 (2006.01)**
[25] EN
[54] **TURBINE WITH CENTRIPETAL AND CENTRIFUGAL EXPANSION STAGES AND RELATED METHOD**
[54] **TURBINE COMPORTANT DES ETAGES D'EXPANSION CENTRIPETES ET CENTRIFUGES, ET METHODE CONNEXE**
[72] BINI, ROBERTO, IT
[72] GAIA, MARIO, IT
[73] TURBODEN S.P.A., IT
[85] 2016-09-21
[86] 2015-04-22 (PCT/IB2015/052937)
[87] (WO2015/189718)
[30] IT (BS2014A000110) 2014-06-12

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[11] **2,943,804**
[13] C
[51] **Int.Cl. A47J 43/25 (2006.01)**
[25] EN
[54] **OPEN HOLE CUTTER/GRATER**
[54] **ELEMENT DE COUPE/RAPE A TROU OUVERT**
[72] SMITH, JASON DWAYNE, US
[72] WILLIS, BENJAMIN STANLEY, US
[73] LIFETIME BRANDS, INC., US
[85] 2016-09-23
[86] 2015-03-26 (PCT/US2015/022750)
[87] (WO2015/148804)
[30] US (61/970,652) 2014-03-26
[30] US (61/979,465) 2014-04-14

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[11] **2,944,986**
[13] C
[51] **Int.Cl. C08F 255/00 (2006.01) C08L 25/04 (2006.01) C08L 51/06 (2006.01) C08L 69/00 (2006.01)**
[25] EN
[54] **GRAFT COPOLYMER AND THERMOPLASTIC RESIN COMPOSITION**
[54] **COPOLYMERE GREFFE ET COMPOSITION DE RESINE THERMOPLASTIQUE**
[72] ISHIGAKI, KAZUHIRO, JP
[72] IKAWA, KIYOSHI, JP
[72] YUKAWA, TAISUKE, JP
[73] NIPPON A&L INC., JP
[85] 2016-10-05
[86] 2015-04-17 (PCT/JP2015/061887)
[87] (WO2015/159980)
[30] JP (2014-086536) 2014-04-18
[30] JP (2014-086537) 2014-04-18

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[11] **2,945,726**
[13] C
[51] **Int.Cl. B29C 45/12 (2006.01) B29C 33/20 (2006.01) B29C 43/54 (2006.01) B29C 43/58 (2006.01)**
[25] FR
[54] **TANDEM MOLD FOR CREATING INJECTION-MOLDED PARTS FROM SYNTHETIC MATERIAL**
[54] **MOULE EN TANDEM POUR LA REALISATION DE PIECES INJECTEES EN MATIERE SYNTHETIQUE**
[72] BUZZO TITELLA, JACQUES, FR
[73] PLASTISUD, FR
[85] 2016-10-13
[86] 2014-11-27 (PCT/FR2014/053059)
[87] (WO2015/158965)
[30] FR (14 53354) 2014-04-15

[11] **2,947,264**
[13] C
[51] **Int.Cl. B62B 1/02 (2006.01) B62B 1/10 (2006.01) B62B 1/14 (2006.01)**
[25] EN
[54] **HAND TRUCK WITH AN ADJUSTABLE WHEEL AXLE**
[54] **DIABLE DOTE D'UN ESSIEU DE ROUE REGLABLE**
[72] SUIJKERBUIJK, LUDO, BE
[72] SUIJKERBUIJK, ANDRE, BE
[73] TECHNO GROUP BENELUX B.V., NL
[85] 2016-10-27
[86] 2014-12-18 (PCT/NL2014/050874)
[87] (WO2015/167322)
[30] NL (2012742) 2014-05-02

[11] **2,948,933**
[13] C
[51] **Int.Cl. A23D 7/04 (2006.01) A23D 7/00 (2006.01) A23D 7/02 (2006.01)**
[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF EDIBLE WATER-IN-OIL EMULSION**
[54] **PROCEDE DE FABRICATION D'UNE EMULSION EAU DANS L'HUILE COMESTIBLE**
[72] MAN, TEUNIS DE, NL
[72] MEEUSE, FREDERIK MICHIEL, NL
[73] UPFIELD EUROPE B.V., NL
[85] 2016-11-14
[86] 2015-04-14 (PCT/EP2015/058010)
[87] (WO2015/176872)
[30] EP (14169109.7) 2014-05-20

[11] **2,949,136**
[13] C
[51] **Int.Cl. F21V 31/00 (2006.01)**
[25] EN
[54] **COUPLING WITH INTEGRAL FLUID PENETRATION BARRIER**
[54] **ACCOUPLEMENT AVEC BARRIERE ANTI-PENETRATION DE FLUIDE INTEGRALE**
[72] BLONDIN, SEAN MICHAEL, US
[72] SCHNEIDER, JOHN BRIAN, US
[72] GONGOLA, PAUL JOHN, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2016-11-14
[86] 2015-06-29 (PCT/US2015/038262)
[87] (WO2016/003874)
[30] US (14/320,010) 2014-06-30

[11] **2,949,489**
[13] C
[51] **Int.Cl. F23R 3/42 (2006.01) F02C 3/14 (2006.01) F23R 3/16 (2006.01)**
[25] EN
[54] **A COMBUSTION CHAMBER**
[54] **UNE CHAMBRE DE COMBUSTION**
[72] RIMMER, JOHN E., GB
[72] MACQUISTEN, MICHAEL A., GB
[72] MILLS, STEPHEN J., GB
[72] RUPP,JOCHEN, GB
[72] STEWARD, LYNN I., GB
[72] RAVIKANTI, MURTHY V., GB
[73] ROLLS-ROYCE PLC, GB
[86] (2949489)
[87] (2949489)
[22] 2016-11-24
[30] GB (1522273.0) 2015-12-17

[11] **2,949,550**
[13] C
[51] **Int.Cl. G03B 17/17 (2021.01) G02B 5/09 (2006.01) G03B 37/04 (2021.01)**
[25] EN
[54] **MULTI-CAMERA SYSTEM USING FOLDED OPTICS FREE FROM PARALLAX AND TILT ARTIFACTS**
[54] **SYSTEME A PLUSIEURS APPAREILS DE PRISE DE VUES UTILISANT UN SYSTEME A TRAJET OPTIQUE REPLIE SANS ARTEFACTS DE PARALLAXE ET D'INCLINAISON**
[72] GEORGIEV, TODOR GEORGIEV, US
[72] GOMA, SERGIU RADU, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-11-17
[86] 2015-05-29 (PCT/US2015/033195)
[87] (WO2015/195297)
[30] US (62/015,319) 2014-06-20
[30] US (14/571,149) 2014-12-15

[11] **2,951,178**
[13] C
[51] **Int.Cl. C01B 3/02 (2006.01) C01B 3/34 (2006.01) C01C 1/04 (2006.01) C07C 273/10 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCTION OF AMMONIA AND DERIVATIVES, IN PARTICULAR UREA**
[54] **PROCEDE POUR LA PRODUCTION D'AMMONIAC ET SES DERIVES, EN PARTICULIER L'UREE**
[72] OSTUNI, RAFFAELE, CH
[72] SKINNER, GEOFFREY FREDERICK, GB
[73] CASALE SA, CH
[85] 2016-12-05
[86] 2015-06-03 (PCT/EP2015/062329)
[87] (WO2015/193108)
[30] EP (14173042.4) 2014-06-18

[11] **2,951,609**
[13] C
[51] **Int.Cl. C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **MULTISPECIFIC ANTIBODY CONSTRUCTS**
[54] **CONSTRUCTIONS D'ANTICORPS MULTI-SPECIFIQUES**
[72] BHATTA, PALLAVI, GB
[72] DAVE, EMMA, GB
[72] HEYWOOD, SAM PHILIP, GB
[72] HUMPHREYS, DAVID PAUL, GB
[73] UCB BIOPHARMA SRL, BE
[85] 2016-12-08
[86] 2015-06-25 (PCT/EP2015/064409)
[87] (WO2015/197772)
[30] GB (1411320.3) 2014-06-25

[11] **2,952,000**
[13] C
[51] **Int.Cl. A01D 87/12 (2006.01) A01D 39/00 (2006.01) A01D 90/08 (2006.01) A01D 90/12 (2006.01) A01F 15/07 (2006.01) B66F 9/075 (2006.01)**
[25] EN
[54] **AGRICULTURAL APPARATUS WITH PICK-UP DEVICE**
[54] **APPAREIL AGRICOLE AVEC DISPOSITIF DE RAMASSAGE**
[72] BRUIJN, BART JACOBUS HELENA DE, NL
[72] VEEN, COENRAAD GERARDUS VAN DER, NL
[73] KUHN-GELDROP BV, NL
[85] 2016-12-12
[86] 2015-06-22 (PCT/EP2015/063896)
[87] (WO2015/197504)
[30] GB (1411395.5) 2014-06-26

[11] **2,953,417**
[13] C
[51] **Int.Cl. A62C 35/68 (2006.01)**
[25] EN
[54] **FIRE EXTINGUISHING SYSTEM**
[54] **SYSTEME D'EXTINCTION D'INCENDIE**
[72] ERNFJALL, JOHNNY, SE
[73] FOGMAKER INTERNATIONAL AB, SE
[85] 2016-12-22
[86] 2015-06-25 (PCT/EP2015/064357)
[87] (WO2015/197756)
[30] EP (14174657.8) 2014-06-27

[11] **2,954,568**
[13] C
[51] **Int.Cl. A61B 50/30 (2016.01) A61M 25/00 (2006.01)**
[25] EN
[54] **COMPACT PACKAGED INTERMITTENT URINARY CATHETER**
[54] **CATHETER URINAIRE INTERMITTENT A EMBALLAGE COMPACT**
[72] PALMER, TIMOTHY A., US
[73] CURE MEDICAL, LLC, US
[86] (2954568)
[87] (2954568)
[22] 2017-01-13
[30] US (15/094,749) 2016-04-08

[11] **2,955,072**
[13] C
[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/03 (2006.01)**
[25] EN
[54] **REFLECTION-BASED CONTROL ACTIVATION**
[54] **ACTIVATION D'UNE COMMANDE SUR LA BASE D'UNE REFLEXION**
[72] LEE, BYUNGJOO, US
[72] FUKUMOTO, MASAAKI, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2017-01-12
[86] 2015-07-29 (PCT/US2015/042550)
[87] (WO2016/018957)
[30] US (14/449,435) 2014-08-01

[11] **2,956,398**
[13] C
[51] **Int.Cl. H04W 80/02 (2009.01) H04W 28/10 (2009.01) H04J 11/00 (2006.01)**
[25] EN
[54] **WIRELESS COMMUNICATION METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE COMMUNICATION SANS FIL**
[72] GAO, CHI, CN
[72] WANG, LI, CN
[72] WANG, LILEI, CN
[72] SUZUKI, HIDETOSHI, JP
[72] HOSHINO, MASAYUKI, JP
[73] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
[85] 2017-01-26
[86] 2015-01-29 (PCT/CN2015/071807)
[87] (WO2016/119162)

[11] **2,957,477**
[13] C
[51] **Int.Cl. B64C 27/30 (2006.01) B64C 19/00 (2006.01) B64C 27/24 (2006.01) B64C 39/02 (2006.01) B64D 27/24 (2006.01)**
[25] EN
[54] **MAGNETIC ORIENTATION DETENT**
[54] **CRAN A ORIENTATION MAGNETIQUE**
[72] GAMBLE, DUSTIN ELI, US
[73] LOCKHEED MARTIN CORPORATION, US
[86] (2957477)
[87] (2957477)
[22] 2017-02-08
[30] US (15/040,428) 2016-02-10

[11] **2,957,740**
[13] C
[51] **Int.Cl. B07B 1/22 (2006.01)**
[25] EN
[54] **AUTOMATIC FOLDING AND DEPLOYING DEFLECTORS FOR CONVEYOR**
[54] **DEFLECTEURS A PLIAGE ET DEPLOIEMENT AUTOMATIQUE DESTINES A UN CONVOYEUR**
[72] BOESE, AARON, US
[73] VERMEER MANUFACTURING COMPANY, US
[86] (2957740)
[87] (2957740)
[22] 2017-02-09
[30] US (62/294,778) 2016-02-12

[11] **2,960,772**
[13] C
[51] **Int.Cl. G01M 3/28 (2006.01) G01F 1/66 (2022.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR FLUID FLOW MONITORING AND LEAK DETECTION**
[54] **PROCEDES ET APPAREIL POUR LE CONTROLE D'ECOULEMENT DE FLUIDE ET LA DETECTION DE FUITES**
[72] HAMMOND, MICHAEL, US
[72] MESS, FRANCIS M., US
[72] ELIA, SAMUEL, US
[72] ALMIRALL, JORGE C., US
[72] GESTNER, BRIAN, US
[72] LEADERS, JEFFREY L., US
[73] RELIANCE WORLDWIDE CORPORATION, US
[85] 2017-03-09
[86] 2015-08-14 (PCT/US2015/045414)
[87] (WO2016/025919)
[30] US (62/037,511) 2014-08-14
[30] US (62/083,053) 2014-11-21

[11] **2,961,837**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61F 2/82 (2013.01) A61L 27/54 (2006.01) A61L 31/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REPLACING AN INFLAMED OR INFECTED HEART VALVE**
[54] **SYSTEME ET METHODE DE REMPLACEMENT D'UNE VALVULE CARDIAQUE ENFLAMMEE OU INFECTEE**
[72] LAUTEN, ALEXANDER, DE
[72] FIGULLA, HANS REINER, DE
[73] DEVIE MEDICAL GMBH, DE
[85] 2017-03-20
[86] 2015-06-29 (PCT/EP2015/064745)
[87] (WO2016/045808)
[30] EP (14186172.4) 2014-09-24

---

[11] **2,965,872**
[13] C
[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **PROXIMITY ASSAYS USING CHEMICAL LIGATION AND HAPTEN TRANSFER**
[54] **ESSAI DE PROXIMITE UTILISANT LA LIGATURE CHIMIQUE ET LE TRANSFERT D'HAPTENES**
[72] BIENIARZ, CHRISTOPHER, US
[72] HONG, RUI, US
[73] VENTANA MEDICAL SYSTEMS, INC., US
[85] 2017-04-26
[86] 2015-11-24 (PCT/EP2015/077484)
[87] (WO2016/083364)
[30] US (62/084,452) 2014-11-25
[30] US (62/116,962) 2015-02-17

---

[11] **2,966,231**
[13] C
[51] **Int.Cl. F16G 15/12 (2006.01) F16G 15/10 (2006.01)**
[25] EN
[54] **REPAIR LINK FOR TWIST LINK AND OTHER CHAIN TYPES**
[54] **LIEN DE REPARATION DESTINE A UN MAILLON TORDU ET AUTRES TYPES DE CHAINES**
[72] DREIXLER, CHARLES, US
[72] FRITZ, JESSE, US
[73] COLUMBIA STEEL CASTING CO., INC., US
[86] (2966231)
[87] (2966231)
[22] 2017-05-03
[30] US (15/468000) 2017-03-23

---

[11] **2,968,921**
[13] C
[51] **Int.Cl. B65D 25/38 (2006.01) B65D 83/00 (2006.01) B65D 85/72 (2006.01) B65D 85/76 (2006.01)**
[25] EN
[54] **CONTAINER FOR FOOD PRODUCT HAVING A MANUALLY OPERABLE ACTUATING MEMBER**
[54] **RECIPIENT POUR PRODUIT ALIMENTAIRE A ELEMENT D'ACTIONNEMENT ACTIONNABLE MANUELLEMENT**
[72] CHIVRAC, FREDERIC, FR
[72] GALERA SANCHEZ, PEDRO, ES
[73] COMPAGNIE GERVAIS DANONE, FR
[85] 2017-05-25
[86] 2014-11-27 (PCT/IB2014/002736)
[87] (WO2016/083860)

---

[11] **2,970,728**
[13] C
[51] **Int.Cl. G10L 15/22 (2006.01)**
[25] EN
[54] **UPDATING LANGUAGE UNDERSTANDING CLASSIFIER MODELS FOR A DIGITAL PERSONAL ASSISTANT BASED ON CROWD-SOURCING**
[54] **MISE A JOUR DE MODELES DE CLASSIFICATEUR DE COMPREHENSION DE LANGAGE POUR UN ASSISTANT PERSONNEL NUMERIQUE SUR LA BASE D'UNE EXTERNALISATION A GRANDE ECHELLE**
[72] KANNAN, VISHWAC SENA, US
[72] UZELAC, ALEKSANDAR, US
[72] HWANG, DANIEL J., US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2017-06-12
[86] 2016-01-15 (PCT/US2016/013502)
[87] (WO2016/122902)
[30] US (14/611,042) 2015-01-30

---

[11] **2,974,039**
[13] C
[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] EN
[54] **STORAGE AND RETRIEVAL SYSTEM**
[54] **SYSTEME DE STOCKAGE ET DE RECUPERATION**
[72] PANKRATOV, KIRILL K., US
[72] CONRAD, JUERGEN D., US
[72] HSIUNG, ROBERT, US
[72] SULLIVAN, ROBERT, US
[72] SWEET, LARRY M., US
[73] SYMBOTIC LLC, US
[85] 2017-07-14
[86] 2016-01-19 (PCT/US2016/013877)
[87] (WO2016/115565)
[30] US (62/104,520) 2015-01-16
[30] US (62/107,135) 2015-01-23
[30] US (14/997,920) 2016-01-18

[11] **2,975,219**
[13] C
[51] **Int.Cl. A23K 10/00 (2016.01) A23K 10/20 (2016.01) A23K 10/30 (2016.01) A23K 20/00 (2016.01) A23K 40/00 (2016.01) A23K 40/20 (2016.01) A23K 40/30 (2016.01)**
[25] EN
[54] **INTERLOCKING KIBBLE**
[54] **CROQUETTES IMBRIQUEES**
[72] DUCLOS, LAURA, US
[72] EATON, KEVIN, US
[73] MARS, INCORPORATED, US
[85] 2017-07-26
[86] 2016-02-16 (PCT/US2016/018085)
[87] (WO2016/133909)
[30] US (62/116,906) 2015-02-16

---

[11] **2,975,683**
[13] C
[51] **Int.Cl. H02J 50/00 (2016.01) H02J 50/10 (2016.01) H02J 50/80 (2016.01) B60R 16/023 (2006.01) B60R 16/03 (2006.01) B66C 13/14 (2006.01) B66F 9/075 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **WIRELESS POWER TRANSFER AND COMMUNICATIONS FOR INDUSTRIAL EQUIPMENT**
[54] **TRANSFERT D'ENERGIE ET COMMUNICATIONS SANS FIL POUR UN EQUIPEMENT INDUSTRIEL**
[72] MCKERNAN, PAT S., US
[72] NAGLE, GREGORY A., US
[73] CASCADE CORPORATION, US
[85] 2017-08-02
[86] 2015-10-30 (PCT/US2015/058476)
[87] (WO2016/130184)
[30] US (14/618,784) 2015-02-10

---

[11] **2,976,361**
[13] C
[51] **Int.Cl. F24D 3/02 (2006.01) H02K 11/05 (2016.01) F24D 19/10 (2006.01) H02K 5/132 (2006.01) H02K 7/14 (2006.01) H02P 27/04 (2016.01)**
[25] EN
[54] **HIGH EFFICIENCY HYDRONIC CIRCULATOR WITH SENSORS**
[54] **CIRCULATEUR HYDRONIQUE HAUTE PERFORMANCE MUNI DE CAPTEURS**
[72] THOMPSON, STEVE, CA
[72] STAKEV, VLADISLAV MILCHEV, US
[72] BIRKENSTOCK, ROBERT F., US
[72] BIRD, DOUGLAS, US
[72] SWEET, DAVID E., US
[73] TACO, INC., US
[85] 2017-08-10
[86] 2016-02-11 (PCT/US2016/017604)
[87] (WO2016/130841)
[30] US (62/115,050) 2015-02-11
[30] US (14/689,631) 2015-04-17

---

[11] **2,977,982**
[13] C
[51] **Int.Cl. A61F 13/49 (2006.01)**
[25] EN
[54] **DISPOSABLE ABSORBENT CORE AND DISPOSABLE ABSORBENT ASSEMBLY INCLUDING SAME, AND METHOD OF MAKING SAME**
[54] **NOYAU ABSORBANT JETABLE ET ENSEMBLE ABSORBANT JETABLE LE COMPRENANT, ET SON PROCEDE DE FABRICATION**
[72] WANG, BRANDON SHUI LING, CN
[72] WRIGHT, ANDREW C., GB
[72] VARONA, EUGENIO, US
[73] DSG TECHNOLOGY HOLDINGS LTD., VG
[85] 2017-08-25
[86] 2016-02-26 (PCT/US2016/019914)
[87] (WO2016/138466)
[30] US (62/121,399) 2015-02-26

---

[11] **2,978,293**
[13] C
[51] **Int.Cl. B62D 63/06 (2006.01) B60P 3/42 (2006.01)**
[25] EN
[54] **FOLDABLE TRANSPORTATION TRAILER**
[54] **REMORQUE DE TRANSPORT PLIANTE**
[72] LINKLETTER, WAYNE, CA
[73] LINKLETTER, WAYNE, CA
[86] (2978293)
[87] (2978293)
[22] 2017-09-05

---

[11] **2,980,438**
[13] C
[51] **Int.Cl. G06Q 50/08 (2012.01) G01S 19/09 (2010.01) H04W 4/021 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INTEGRATION AND CORRELATION OF GIS DATA**
[54] **SYSTEME ET PROCEDE POUR L'INTEGRATION ET LA CORRELATION DES DONNEES GIS**
[72] TUCKER, NELSON P., US
[72] COLBY, DANIEL E., US
[72] FORSTER, PETER J. L., CA
[72] SLUSARENKO, WILLIAM S., CA
[73] PROSTAR GEOCORP, INC., US
[86] (2980438)
[87] (2980438)
[22] 2014-03-14
[62] 2,846,173
[30] US (61/788416) 2013-03-15

---

[11] **2,984,171**
[13] C
[51] **Int.Cl. F16K 31/02 (2006.01) E03C 1/05 (2006.01) H01F 7/18 (2006.01)**
[25] EN
[54] **PROXIMITY FAUCET POWER SOURCE DETECTION**
[54] **DETECTION DE SOURCE D'ALIMENTATION DE ROBINET A PROXIMITE**
[72] MORRISH, DAVID PAUL, CA
[72] FISHER, BRYAN, CA
[73] MASCO CANADA LIMITED, CA
[86] (2984171)
[87] (2984171)
[22] 2017-10-30
[30] US (62/415,152) 2016-10-31
[30] US (15/791,785) 2017-10-24

[11] **2,985,006**
[13] C
[51] **Int.Cl. C07D 403/06 (2006.01) A61K 31/513 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **STABLE CRYSTAL FORM OF TIPIRACIL HYDROCHLORIDE AND CRYSTALLIZATION METHOD FOR THE SAME**
[54] **CRISTAL STABILISE DE CHLORHYDRATE DE TIPIRACIL, ET SON PROCEDE DE CRISTALLISATION**
[72] MUTSUMI, TOMONOBU, JP
[72] KAZUNO, HIDEKI, JP
[73] TAIHO PHARMACEUTICAL CO., LTD., JP
[86] (2985006)
[87] (2985006)
[22] 2014-06-17
[62] 2,914,999
[30] JP (2013-126567) 2013-06-17

---

[11] **2,986,617**
[13] C
[51] **Int.Cl. B65G 35/04 (2006.01) B65G 54/02 (2006.01)**
[25] EN
[54] **CONVEYING ARRANGEMENT**
[54] **DISPOSITIF DE TRANSPORT**
[72] WIPF, ALFRED, DE
[72] RAATZ, HEIKE, DE
[73] SYNTEGON TECHNOLOGY GMBH, DE
[73] SYNTEGON PACKAGING SYSTEMS AG, CH
[85] 2017-11-21
[86] 2016-05-19 (PCT/EP2016/061224)
[87] (WO2016/188841)
[30] DE (10 2015 209 610.6) 2015-05-26

---

[11] **2,986,821**
[13] C
[51] **Int.Cl. G06Q 20/12 (2012.01)**
[25] EN
[54] **NETWORK TRANSACTION PAYMENT METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE PAIEMENT DE TRANSACTION DE RESEAU**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-22
[86] 2015-04-30 (PCT/CN2015/078131)
[87] (WO2016/172973)

---

[11] **2,989,376**
[13] C
[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/10 (2020.01) A24F 40/42 (2020.01) A24F 40/44 (2020.01) A24F 40/50 (2020.01)**
[25] EN
[54] **ELECTRONIC VAPOUR PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE DE VAPEUR ELECTRONIQUE**
[72] FRASER, RORY, GB
[72] DICKENS, COLIN, GB
[72] JAIN, SIDDHARTHA, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2017-12-13
[86] 2016-06-15 (PCT/GB2016/051766)
[87] (WO2017/001820)
[30] GB (1511359.0) 2015-06-29

---

[11] **2,990,637**
[13] C
[51] **Int.Cl. A61F 2/28 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **COMPRESSION IMPLANTS, INSTRUMENTS AND METHODS**
[54] **IMPLANTS, INSTRUMENTS ET PROCEDES DE COMPRESSION**
[72] FALLIN, T. WADE, US
[72] TRIPLETT, DANIEL, US
[73] NEXTREMITY SOLUTIONS, INC., US
[85] 2017-12-21
[86] 2016-06-29 (PCT/US2016/040118)
[87] (WO2017/004221)
[30] US (62/188,185) 2015-07-02
[30] US (62/308,011) 2016-03-14

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[11] **2,991,533**
[13] C
[51] **Int.Cl. G05D 1/10 (2006.01) B08B 1/00 (2006.01) B08B 3/02 (2006.01) G01B 21/20 (2006.01) G01S 5/00 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING A FLYING BODY FOR CLEANING SURFACES**
[54] **METHODE DE CONTROLE D'UN CORPS VOLANT DANS LE NETTOYAGE DE SURFACES**
[72] AZAIZ, RIDHA, GB
[73] AZAIZ, RIDHA, GB
[85] 2018-01-05
[86] 2015-07-05 (PCT/DE2015/000335)
[87] (WO2016/004914)
[30] DE (10 2014 009 903.2) 2014-07-05

---

[11] **2,991,927**
[13] C
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/37 (2006.01)**
[25] EN
[54] **TOOL SUPPORTING WRIST BRACE**
[54] **APPAREIL ORTHOPEDIQUE POUR LE POIGNET A SUPPORT D'OUTIL**
[72] KOTCHAPAW, LANDON, CA
[73] KOTCHAPAW, LANDON, CA
[85] 2018-01-10
[86] 2016-07-13 (PCT/CA2016/050826)
[87] (WO2017/008162)
[30] US (62/191,604) 2015-07-13

---

[11] **2,992,719**
[13] C
[51] **Int.Cl. H01B 3/10 (2006.01) H01B 7/42 (2006.01) H01B 13/32 (2006.01)**
[25] EN
[54] **ELECTRICAL ACCESSORIES FOR POWER TRANSMISSION SYSTEMS AND METHODS FOR PREPARING SUCH ELECTRICAL ACCESSORIES**
[54] **ACCESSOIRES ELECTRIQUES DESTINES A DES SYSTEMES DE TRANSMISSION D'ENERGIE ET PROCEDES POUR PREPARER CES ACCESSOIRES ELECTRIQUES**
[72] RANGANATHAN, SATHISH KUMAR, US
[72] MHETAR, VIJAY, US
[72] SIRIPURAPU, SRINIVAS, US
[72] DAVIS, CODY R., US
[72] WRIGHT, MICHAEL CHRISTOPHER, US
[73] GENERAL CABLE TECHNOLOGIES CORPORATION, US
[85] 2018-01-16
[86] 2016-07-21 (PCT/US2016/043429)
[87] (WO2017/015512)
[30] US (62/195,036) 2015-07-21

[11] **2,994,130**
[13] C
[51] **Int.Cl. C07F 9/50 (2006.01)**
[25] EN
[54] **AN IMPROVED PROCESS FOR THE PREPARATION OF TETROFOSMIN OR ACID ADDITION SALT THEREOF**
[54] **UN PROCEDE AMELIORE DE PREPARATION DE TETROFOSMINE OU DE SEL D'ADDITION ACIDE ASSOCIE**
[72] PRASAD, M. UMAMAHESHWAR, IN
[72] KUMAR, ANJUL, IN
[72] SINGH, SHISHUPAL, IN
[72] VIR, DHARAM, IN
[73] JUBILANT GENERICS LIMITED (FORMERLY A DIVISION OF JUBILANT LIFE SCIENCES LIMITED), IN
[85] 2018-02-07
[86] 2017-11-20 (PCT/IB2017/057251)
[87] (WO2018/162964)
[30] IN (201711008041) 2017-03-08

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[11] **2,994,661**
[13] C
[51] **Int.Cl. H01F 27/00 (2006.01)**
[25] EN
[54] **TRANSFORMER MONITOR, COMMUNICATIONS AND DATA COLLECTION DEVICE**
[54] **DISPOSITIF DE CONTROLE DE TRANSFORMATEUR, DE COMMUNICATIONS ET DE COLLECTE DE DONNEES**
[72] FOSTER, SCOTT, US
[72] BORRELLI, ANGELO, US
[72] TEICHMANN, KEITH, US
[73] DELTA ENERGY & COMMUNICATIONS, INC., US
[85] 2018-02-02
[86] 2016-08-03 (PCT/US2016/045233)
[87] (WO2017/027274)
[30] US (62/203,101) 2015-08-10
[30] US (15/160,754) 2016-05-20

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[11] **2,996,964**
[13] C
[51] **Int.Cl. F04D 29/00 (2006.01) F04D 29/40 (2006.01) F04D 29/42 (2006.01) F04D 29/44 (2006.01)**
[25] EN
[54] **VOLUTE DESIGN FOR LOWER MANUFACTURING COST AND RADIAL LOAD REDUCTION**
[54] **CONCEPTION DE VOLUTE POUR COUT DE FABRICATION PLUS BAS ET REDUCTION DE LA CHARGE RADIALE**
[72] RUZICA, PAUL J., US
[73] FLUID HANDLING LLC, US
[85] 2018-02-26
[86] 2016-09-06 (PCT/US2016/050412)
[87] (WO2017/041099)
[30] US (62/213,739) 2015-09-03

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[11] **2,998,526**
[13] C
[51] **Int.Cl. A61K 8/44 (2006.01) A61Q 5/02 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING ZWITTERIONIC ALKYL-ALKANOYLAMIDES AND/OR ALKYL ALKANOATES**
[54] **COMPOSITIONS COMPRENANT DES ALKYLACANOYLAMIDES ET/OU DES ALCANOATES D'ALKYLE ZWITTERIONIQUES**
[72] FEVOLA, MICHAEL J., US
[72] FUETTERER, TOBIAS J., US
[72] BOAZ, NEIL WARREN, US
[73] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2018-03-12
[86] 2016-09-07 (PCT/US2016/050470)
[87] (WO2017/048555)
[30] US (14/856,830) 2015-09-17

---

[11] **2,999,999**
[13] C
[51] **Int.Cl. H02K 9/22 (2006.01) H02K 3/26 (2006.01)**
[25] EN
[54] **STRUCTURES AND METHODS FOR THERMAL MANAGEMENT IN PRINTED CIRCUIT BOARD STATORS**
[54] **STRUCTURES ET PROCEDES POUR UNE GESTION THERMIQUE DANS DES STATORS A CARTE DE CIRCUIT IMPRIME**
[72] SHAW, STEVEN ROBERT, US
[73] E-CIRCUIT MOTORS, INC., US
[85] 2018-03-26
[86] 2016-09-30 (PCT/US2016/054704)
[87] (WO2017/059213)
[30] US (62/236,422) 2015-10-02
[30] US (62/236,407) 2015-10-02
[30] US (15/199,527) 2016-06-30

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[11] **3,001,605**
[13] C
[51] **Int.Cl. B66B 17/26 (2006.01) B66B 17/08 (2006.01)**
[25] EN
[54] **SKIP DUMP SYSTEM**
[54] **SYSTEME DE BENNE A SAUT**
[72] KOEKEMOER, FRANCOIS, ZA
[73] FLSMIDTH A/S, DK
[86] (3001605)
[87] (3001605)
[22] 2018-04-16
[30] US (62/486482) 2017-04-18

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[11] **3,003,071**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 72/12 (2009.01)**
[25] EN
[54] **METHODS AND DEVICES FOR BROADCASTING SYSTEM INFORMATION ON DEMAND**
[54] **PROCEDES ET DISPOSITIFS PERMETTANT DE DIFFUSER DES INFORMATIONS SYSTEME SUR DEMANDE**
[72] LI, GEN, CN
[72] WANG, HAI, CN
[72] WANG, JIANFENG, CN
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2018-04-24
[86] 2015-10-29 (PCT/CN2015/093191)
[87] (WO2017/070888)

[11] **3,003,684**
[13] C
[51] **Int.Cl. H01R 27/02 (2006.01) H02G 3/08 (2006.01) H02J 1/00 (2006.01) H02J 3/00 (2006.01)**
[25] EN
[54] **POWER UNIT BOXES**
[54] **BOITES DE MODULE D'ALIMENTATION**
[72] SHARP, WILLIAM T., US
[73] SNAP-ON INCORPORATED, US
[86] (3003684)
[87] (3003684)
[22] 2018-05-02
[30] US (62/500,746) 2017-05-03
[30] US (15/959,976) 2018-04-23

[11] **3,004,807**
[13] C
[51] **Int.Cl. C12N 15/861 (2006.01)**
[25] EN
[54] **PROMOTERS AND USES THEREOF**
[54] **PROMOTEURS ET LEURS UTILISATIONS**
[72] DALKARA, DENIZ, FR
[72] PICAUD, SERGE, FR
[72] DESROSIERS, MELISSA, FR
[72] SAHEL, JOSE-ALAIN, FR
[72] DUEBEL, JENS, FR
[72] BEMELMANS, ALEXIS, FR
[72] ROSKA, BOTOND, CH
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] FRIEDRICH MIESCHER INSTITUTE FOR BIOMEDICAL RESEARCH, CH
[73] SORBONNE UNIVERSITE, FR
[85] 2018-05-09
[86] 2016-12-05 (PCT/EP2016/079755)
[87] (WO2017/093566)
[30] EP (15306932.3) 2015-12-04

[11] **3,006,975**
[13] C
[51] **Int.Cl. A61M 1/00 (2006.01) A61M 1/34 (2006.01) A61M 1/36 (2006.01) A61M 27/00 (2006.01) G01N 33/48 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR THE CONDITIONING OF CEREBROSPINAL FLUID**
[54] **SYSTEMES ET PROCEDES POUR LE CONDITIONNEMENT DU LIQUIDE CEPHALORACHIDIEN**
[72] HEDSTROM, BLAKE, US
[72] LAD, SHIVANAND, US
[72] MCCABE, AARON, US
[72] MEYERING, EMILY, US
[72] MONDRY, JACK, US
[72] SAWHNEY, AMI, US
[72] SCHEURER, ELIZABETH, US
[72] STOLL, MATT, US
[72] VASE, ABHI, US
[73] MINNETRONIX, INC., US
[85] 2018-05-30
[86] 2016-12-02 (PCT/US2016/064721)
[87] (WO2017/096228)
[30] US (62/263,305) 2015-12-04

[11] **3,010,624**
[13] C
[51] **Int.Cl. A23J 3/14 (2006.01) A23L 33/135 (2016.01) A23J 1/12 (2006.01) A23J 1/14 (2006.01)**
[25] EN
[54] **PRODUCT ANALOGS OR COMPONENTS OF SUCH ANALOGS AND PROCESSES FOR MAKING SAME**
[54] **SUCCEDANES DE PRODUIT OU CONSTITUANTS DE TELS SUCCEDANES ET PROCEDES POUR LES FABRIQUER**
[72] KIZER, LANCE, US
[72] RENNINGER, NEIL, US
[72] STILES, AMANDA, US
[73] RIPPLE FOODS, PBC, US
[85] 2018-07-04
[86] 2017-01-09 (PCT/US2017/012747)
[87] (WO2017/120597)
[30] US (62/276,030) 2016-01-07
[30] US (62/326,403) 2016-04-22

[11] **3,010,870**
[13] C
[51] **Int.Cl. C04B 26/28 (2006.01) B32B 5/02 (2006.01) B32B 5/24 (2006.01) B32B 7/12 (2006.01) B32B 19/06 (2006.01) C03B 37/04 (2006.01) E04B 9/00 (2006.01) E04B 9/04 (2006.01)**
[25] EN
[54] **MINERAL FIBER BASED CEILING TILE**
[54] **DALLE DE PLAFOND A BASE DE FIBRES MINERALES**
[72] FRANK, WILLIAM A., US
[72] LANGDON, MATTHEW T., US
[72] LUAN, WENQI, US
[72] BROWN, MARTIN W., US
[73] USG INTERIORS, LLC, US
[85] 2018-07-09
[86] 2016-04-28 (PCT/US2016/029653)
[87] (WO2017/123270)
[30] US (14/995,213) 2016-01-14
[30] US (15/139,357) 2016-04-27

[11] **3,010,997**
[13] C
[51] **Int.Cl. G06T 7/60 (2017.01) G06T 1/00 (2006.01)**
[25] EN
[54] **PASSENGER COUNTING DEVICE, SYSTEM, METHOD AND PROGRAM, AND VEHICLE MOVEMENT AMOUNT CALCULATION DEVICE, METHOD AND PROGRAM**
[54] **DISPOSITIF DE COMPTE DE PASSAGERS, SYSTEME, METHODE ET PROGRAMME, ET DISPOSITIF DE CALCUL DE QUANTITE DE MOUVEMENT D'UN VEHICULE, METHODE ET PROGRAMME**
[72] MIYAMOTO, SHINICHI, JP
[73] NEC CORPORATION, JP
[85] 2018-07-10
[86] 2016-03-17 (PCT/JP2016/001548)
[87] (WO2017/158647)

[11] **3,012,249**
[13] C
[51] **Int.Cl. A61H 3/04 (2006.01) B62B 5/00 (2006.01)**
[25] EN
[54] **ROLLATOR WITH STAND ASSEMBLY**
[54] **DEAMBULATEUR A ROULETTES AVEC ENSEMBLE SUPPORT**
[72] BROCKWAY, TODD, US
[72] BERMAN, EMILY, US
[72] WAX, CAREN, US
[72] MARTIN, TAMBRA, US
[72] BROOKS, WILLIAM ELLIOTT, US
[72] SHELDON, ROBERT W., US
[72] FOSTER, GREGORY J., US
[73] MEDLINE INDUSTRIES, INC., US
[86] (3012249)
[87] (3012249)
[22] 2018-07-23
[30] US (62/537,824) 2017-07-27

[11] **3,014,749**
[13] C
[51] **Int.Cl. A61J 3/07 (2006.01) F04B 13/00 (2006.01) F04B 13/02 (2006.01) F04B 15/02 (2006.01) F04B 19/14 (2006.01)**
[25] EN
[54] **MULTIPLE-FLUID INJECTION PUMP**
[54] **POMPE D'INJECTION DE FLUIDES MULTIPLES**
[72] FULPER, L. DAVID, US
[72] COLLINS, ARTHUR JOHN, US
[72] MCGOWAN, KNIGHT ARTHUR, US
[72] WESTON, STEVEN M., US
[73] R.P. SCHERER TECHNOLOGIES, LLC, US
[85] 2018-08-15
[86] 2017-02-08 (PCT/US2017/017010)
[87] (WO2017/146906)
[30] US (15/049,961) 2016-02-22

[11] **3,017,363**
[13] C
[51] **Int.Cl. G02C 7/10 (2006.01)**
[25] EN
[54] **PHOTOCHROMIC OPTICAL LENS WITH SELECTIVE BLUE LIGHT ATTENUATION**
[54] **LENTILLE OPTIQUE PHOTOCHROMIQUE AVEC ATTENUATION SELECTIVE DE LA LUMIERE BLEUE**
[72] AMBLER, DAVID MARK, US
[72] ZHAO, LINGBING LYNN, US
[73] YOUNGER MFG. CO. DBA YOUNGER OPTICS, US
[85] 2018-09-10
[86] 2017-03-10 (PCT/US2017/021941)
[87] (WO2017/160661)
[30] US (62/308,088) 2016-03-14

[11] **3,017,695**
[13] C
[51] **Int.Cl. A61N 1/362 (2006.01) A61N 1/02 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **INTRATHORACIC PACEMAKER**
[54] **STIMULATEUR CARDIAQUE INTRATHORACIQUE**
[72] BAR-COHEN, YANIV, US
[72] RAMEN, CHMAIT, US
[72] SILKA, MICHAEL J., US
[72] SKLANSKY, MARK, US
[73] CHILDREN'S HOSPITAL LOS ANGELES, US
[73] UNIVERSITY OF SOUTHERN CALIFORNIA, US
[86] (3017695)
[87] (3017695)
[22] 2010-06-05
[62] 2,764,169
[30] US (61/184,329) 2009-06-05

[11] **3,017,858**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/36 (2012.01) G06Q 20/40 (2012.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **CERTIFICATE ISSUING SYSTEM BASED ON BLOCK CHAIN**
[54] **SYSTEME D'EMISSION DE CERTIFICAT BASE SUR UNE CHAINE DE BLOCS**
[72] UHR, JOON SUN, KR
[72] HONG, JAY WU, KR
[72] SONG, JOO HAN, KR
[73] COINPLUG, INC., KR
[85] 2018-09-14
[86] 2016-03-07 (PCT/KR2016/002226)
[87] (WO2017/022917)
[30] KR (10-2015-0109320) 2015-08-03

[11] **3,018,281**
[13] C
[51] **Int.Cl. A61K 35/50 (2015.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01)**
[25] EN
[54] **TUMOR SUPPRESSION USING HUMAN PLACENTAL PERFUSATE AND HUMAN PLACENTA-DERIVED INTERMEDIATE NATURAL KILLER CELLS**
[54] **ELIMINATION DES TUMEURS AU MOYEN D'UN PERFUSAT PLACENTAIRE HUMAIN ET DE CELLULES TUEUSES NATURELLES INTERMEDIAIRES PROVENANT D'UN PLACENTA HUMAIN**
[72] ZHANG, XIAOKUI, US
[72] VOSKINARIAN-BERSE, VANESSA A., US
[72] KANG, LIN, US
[72] PADLIYA, NEERAV DILIP, US
[73] CELULARITY INC., US
[86] (3018281)
[87] (3018281)
[22] 2008-09-29
[62] 2,700,617
[30] US (60/995763) 2007-09-28
[30] US (61/090555) 2008-08-20

[11] **3,018,508**
[13] C
[51] **Int.Cl. A61B 90/11 (2016.01) A61B 34/20 (2016.01) A61B 90/00 (2016.01) A61B 90/30 (2016.01) A61B 17/00 (2006.01)**
[25] EN
[54] **CANNULA LOCATOR DEVICE**
[54] **DISPOSITIF DE LOCALISATION DE CANULE**
[72] ISAACSON, S. RAY, US
[72] MCKINNON, AUSTIN JASON, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2018-09-20
[86] 2017-03-17 (PCT/US2017/022929)
[87] (WO2017/172386)
[30] US (62/314,269) 2016-03-28
[30] US (15/461,367) 2017-03-16

[11] **3,021,359**
[13] C
[51] **Int.Cl. G01R 35/04 (2006.01)**
[25] FR
[54] **ONLINE CALIBRATION OF METERS AND DETECTION OF ELECTRICAL NON-CONFORMITIES**
[54] **ETALONNAGE EN LIGNE DE COMPTEURS ET DETECTION DE NON-CONFORMITES ELECTRIQUES**
[72] LEONARD, FRANCOIS, CA
[72] ZINFLOU, ARNAUD, CA
[72] VIAU, MATHIEU, CA
[72] BOUFFARD, ALEXANDRE, CA
[73] HYDRO-QUEBEC, CA
[85] 2018-10-15
[86] 2017-04-12 (PCT/CA2017/050448)
[87] (WO2017/181272)
[30] CA (2927482) 2016-04-20

[11] **3,022,546**
[13] C
[51] **Int.Cl. E21B 29/00 (2006.01) E21B 29/10 (2006.01) F16L 55/16 (2006.01) F16L 55/165 (2006.01)**
[25] EN
[54] **HYDRAULIC DEVICE AND METHOD TO LOCATE AND SEAL HOLES OR CRACKS IN OIL WELL PRODUCTION TUBING**
[54] **DISPOSITIF HYDRAULIQUE ET PROCEDE DE LOCALISATION ET DE SCELLEMENT DE TROUS OU DE FISSURES DANS LE TUBE DE PRODUCTION DE PUITS DE PETROLE**
[72] LOPEZ ROBAYO, BYRON RAUL, EC
[73] LOPEZ ROBAYO, BYRON RAUL, EC
[85] 2018-10-29
[86] 2016-12-15 (PCT/IB2016/057634)
[87] (WO2017/187247)
[30] EC (IEPI-2016-17451) 2016-04-29

[11] **3,022,618**
[13] C
[51] **Int.Cl. G06F 16/903 (2019.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **METHOD FOR SEARCHING FOR ELECTRONIC TRANSACTION CERTIFICATE, AND ELECTRONIC TRANSACTION TERMINAL**
[54] **PROCEDE POUR RECHERCHER UN CERTIFICAT DE TRANSACTION ELECTRONIQUE, ET TERMINAL DE TRANSACTION ELECTRONIQUE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-10-30
[86] 2015-04-30 (PCT/CN2015/077925)
[87] (WO2016/172906)

[11] **3,024,700**
[13] C
[51] **Int.Cl. E21B 47/12 (2012.01) E21B 21/08 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **FLOW RATE SIGNALS FOR WIRELESS DOWNHOLE COMMUNICATION**
[54] **SIGNAUX DE DEBIT POUR COMMUNICATION DE FOND DE TROU SANS FIL**
[72] FRIPP, MICHAEL, US
[72] WALTON, ZACHARY WILLIAM, US
[72] MERRON, MATTHEW, US
[72] FROSELL, THOMAS, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2018-11-16
[86] 2016-08-18 (PCT/US2016/047501)
[87] (WO2018/034662)

[11] **3,026,443**
[13] C
[51] **Int.Cl. G06N 10/80 (2022.01) B82Y 10/00 (2011.01) G06N 20/00 (2019.01)**
[25] EN
[54] **TRAINING QUANTUM EVOLUTIONS USING SUBLOGICAL CONTROLS**
[54] **APPRENTISSAGE D'EVOLUTIONS QUANTIQUES A L'AIDE DE COMMANDES SOUS-LOGIQUES**
[72] BABBUSH, RYAN, US
[72] NEVEN, HARTMUT, US
[73] GOOGLE LLC, US
[85] 2018-12-03
[86] 2016-12-19 (PCT/US2016/067471)
[87] (WO2017/209791)
[30] US (15/171,778) 2016-06-02

[11] **3,027,081**
[13] C
[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/431 (2011.01) H04N 21/458 (2011.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR TIME-SHIFTING CONTENT**
[54] **PROCEDES ET SYSTEMES POUR CONTENU A DECALAGE DANS LE TEMPS**
[72] HOLDEN, DANIAL, US
[72] URQUHART, VIRGIL BOYETTE, US
[72] ROBERTS, NEAL, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (3027081)
[87] (3027081)
[22] 2014-02-28
[62] 2,844,317
[30] US (13/782,959) 2013-03-01

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[11] **3,030,168**
[13] C
[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/84 (2006.01) A61B 17/86 (2006.01) A61L 31/02 (2006.01) A61L 31/06 (2006.01)**
[25] EN
[54] **CHEST WALL REPAIR DEVICE**
[54] **DISPOSITIF DE REPARATION DE LA PAROI THORACIQUE.**
[72] MADEY, STEVEN, US
[73] REVELATION PLATING, LLC, US
[85] 2019-01-07
[86] 2017-07-11 (PCT/US2017/041573)
[87] (WO2018/013594)
[30] US (62/360,633) 2016-07-11

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[11] **3,033,002**
[13] C
[51] **Int.Cl. B25B 13/46 (2006.01) B23P 15/00 (2006.01) B25B 21/00 (2006.01)**
[25] EN
[54] **TOOL HOUSING AND METHOD FOR MAKING THE SAME**
[54] **BOITIER D`OUTIL ET METHODE DE FABRICATION DU BOITIER**
[72] SCHILTZ, JOHN D., US
[72] PURCELL, NATHAN H., US
[72] BEER, JOSHUA M., US
[73] SNAP-ON INCORPORATED, US
[86] (3033002)
[87] (3033002)
[22] 2019-02-07
[30] US (16/041,001) 2018-07-20

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[11] **3,035,060**
[13] C
[51] **Int.Cl. G06K 19/077 (2006.01) B60C 99/00 (2006.01)**
[25] EN
[54] **RFID MESH LABEL, TIRE HAVING RFID MESH LABEL INTEGRALLY INCORPORATED THEREIN, AND METHODS OF MAKING**
[54] **ETIQUETTE DE MAILLE RFID, PNEU COMPORTANT UNE ETIQUETTE DE MAILLE RFID INCORPOREE INTEGRALEMENT, ET METHODES DE FABRICATION**
[72] BORGNA, MICHAEL E., US
[72] UIJLENBROEK, JOS, NL
[73] FINELINE TECHNOLOGIES, US
[86] (3035060)
[87] (3035060)
[22] 2019-02-27
[30] US (62/636450) 2018-02-28
[30] US (16/284068) 2019-02-25

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[11] **3,035,218**
[13] C
[51] **Int.Cl. G01N 21/01 (2006.01) G01N 21/63 (2006.01) G01N 21/76 (2006.01) G01N 21/84 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUSES TO IMAGE A SAMPLE FOR BIOLOGICAL OR CHEMICAL ANALYSIS**
[54] **SYSTEMES, PROCEDES ET APPAREILS D'IMAGERIE D'UN ECHANTILLON A DES FINS D'ANALYSE BIOLOGIQUE OU CHIMIQUE**
[72] REED, MARK T., US
[72] WILLIAMSON, ERIK, US
[72] CRANE, BRYAN, US
[72] LEUNG, PATRICK, US
[72] BUERMANN, DALE, US
[72] KINDWALL, ALEXANDER P., US
[72] ERIE, FREDERICK, US
[72] PRATT, MARK, US
[72] HARRIS, JASON, US
[72] CARSON, ANDREW JAMES, US
[72] HONG, STANLEY S., US
[72] BRYANT, JASON, US
[72] WANG, MARK, US
[72] VERKADE, DREW, US
[73] ILLUMINA, INC., US
[86] (3035218)
[87] (3035218)
[22] 2011-10-21
[62] 2,889,301
[30] US (61/438,530) 2011-02-01
[30] US (13/273,666) 2011-10-14
[30] US (61/431,440) 2011-01-11
[30] US (61/438,486) 2011-02-01
[30] US (61/431,439) 2011-01-11
[30] US (61/431,429) 2011-01-10
[30] US (61/431,425) 2011-01-10
[30] US (61/438,567) 2011-02-01

[11] **3,035,414**
[13] C
[51] **Int.Cl. A61K 47/18 (2017.01) A61K 47/36 (2006.01) A61K 47/42 (2017.01)**
[25] EN
[54] **TOPICAL FORMULATIONS BASED ON IONIC SPECIES FOR SKIN TREATMENT**
[54] **FORMULATIONS TOPIQUES A BASE D'ESPECES IONIQUES POUR LE TRAITEMENT DE LA PEAU**
[72] ZAKREWSKY, MICHAEL, US
[72] MITRAGOTRI, SAMIR, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2019-02-27
[86] 2017-08-29 (PCT/US2017/049170)
[87] (WO2018/044920)
[30] US (62/380,761) 2016-08-29

[11] **3,037,673**
[13] C
[51] **Int.Cl. G01M 13/00 (2019.01) B03B 13/00 (2006.01) G01N 15/02 (2006.01)**
[25] EN
[54] **ANOMALY DETECTION AND NEURAL NETWORK ALGORITHMS FOR PST HYDROCYCLONE CONDITION MONITORING**
[54] **DETECTION D'ANOMALIE ET ALGORITHMES DE RESEAU NEURONAL EN VUE D'UNE SURVEILLANCE DE CONDITION D'HYDROCYCLONE PST**
[72] DAVIS, MICHAEL A., US
[73] CIDRA CORPORATE SERVICES LLC, US
[85] 2019-03-20
[86] 2017-09-21 (PCT/US2017/052607)
[87] (WO2018/057676)
[30] US (62/397,565) 2016-09-21

[11] **3,040,417**
[13] C
[51] **Int.Cl. H04N 21/43 (2011.01) H04W 4/06 (2009.01) H04N 21/40 (2011.01) G06F 3/14 (2006.01) G06F 17/00 (2019.01)**
[25] EN
[54] **DIGITAL MEDIA CONTENT MANAGEMENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE GESTION DE CONTENU MULTIMEDIA NUMERIQUE**
[72] MCDEVITT, JOHN, US
[73] HSNI, LLC, US
[86] (3040417)
[87] (3040417)
[22] 2015-01-08
[62] 2,936,341
[30] US (61/925,445) 2014-01-09

[11] **3,040,602**
[13] C
[51] **Int.Cl. G01S 15/89 (2006.01)**
[25] EN
[54] **PROFILING TOOL FOR DETERMINING MATERIAL THICKNESS FOR INSPECTION SITES HAVING COMPLEX TOPOGRAPHY**
[54] **OUTIL DE PROFILAGE POUR DETERMINER L'EPAISSEUR D'UNE MATIERE, DESTINE A DES SITES D'INSPECTION AYANT UNE TOPOGRAPHIE COMPLEXE**
[72] ADAMS, PAUL GREGORY, CA
[72] CHAPLIN, KENNETH ROBERT, CA
[72] CRAIG, STUART THOMAS, CA
[72] DUNFORD, DAVID WALTER, CA
[72] GAUDET, MICHEL JOSEPH GILLES, CA
[72] HEBERT, HELENE MARIE, CA
[72] JONES, KRISTOPHER KYLE, CA
[72] LONGHURST, GLENN CURTIS, CA
[72] LUMSDEN, ROBERT HAYDEN, CA
[73] ATOMIC ENERGY OF CANADA LIMITED, CA
[86] (3040602)
[87] (3040602)
[22] 2012-03-30
[62] 2,831,812
[30] US (61/470,119) 2011-03-31

[11] **3,040,677**
[13] C
[51] **Int.Cl. A61K 31/5415 (2006.01) C07D 279/24 (2006.01)**
[25] EN
[54] **PHENOTHIAZINE DERIVATIVES AND METHODS OF USE THEREOF**
[54] **DERIVES DE PHENOTHIAZINE ET METHODES D'UTILISATION ASSOCIEES**
[72] CHENG, HAIYUNG, US
[72] LIN, CHI-FENG, US
[72] SHIH, JHEN-HUA, US
[72] WU, ALEXANDER C. H., US
[73] ENROCK PHARMACEUTICAL TECHNOLOGIES (HEBEI) LIMITED, CN
[85] 2019-04-15
[86] 2017-09-14 (PCT/US2017/051641)
[87] (WO2018/075172)
[30] US (15/295,769) 2016-10-17
[30] US (15/625,118) 2017-06-16

[11] **3,043,393**
[13] C
[51] **Int.Cl. A61F 2/32 (2006.01) A61B 17/16 (2006.01) A61F 2/34 (2006.01) A61F 2/36 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **HIP JOINT DEVICE AND METHOD**
[54] **DISPOSITIF D'ARTICULATION DE HANCHE ET METHODE**
[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[86] (3043393)
[87] (3043393)
[22] 2010-07-12
[62] 2,804,978
[30] SE (0900957-2) 2009-07-10
[30] SE (0900958-0) 2009-07-10
[30] SE (0900959-8) 2009-07-10
[30] SE (0900960-6) 2009-07-10
[30] SE (0900962-2) 2009-07-10
[30] SE (0900963-0) 2009-07-10
[30] SE (0900965-5) 2009-07-10
[30] SE (0900966-3) 2009-07-10
[30] SE (0900968-9) 2009-07-10
[30] SE (0900969-7) 2009-07-10
[30] SE (0900970-5) 2009-07-10
[30] SE (0900972-1) 2009-07-10
[30] SE (0900973-9) 2009-07-10
[30] SE (0900974-7) 2009-07-10
[30] SE (0900976-2) 2009-07-10
[30] SE (0900978-8) 2009-07-10
[30] SE (0900981-2) 2009-07-10
[30] US (61/229738) 2009-07-30
[30] US (61/229739) 2009-07-30
[30] US (61/229743) 2009-07-30
[30] US (61/229745) 2009-07-30
[30] US (61/229746) 2009-07-30
[30] US (61/229747) 2009-07-30
[30] US (61/229748) 2009-07-30
[30] US (61/229751) 2009-07-30
[30] US (61/229752) 2009-07-30
[30] US (61/229755) 2009-07-30
[30] US (61/229761) 2009-07-30
[30] US (61/229767) 2009-07-30
[30] US (61/229778) 2009-07-30
[30] US (61/229786) 2009-07-30
[30] US (61/229789) 2009-07-30
[30] US (61/229796) 2009-07-30
[30] US (61/229735) 2009-07-30

[11] **3,046,339**
[13] C
[51] **Int.Cl. C07D 473/18 (2006.01) A61K 31/522 (2006.01) C07D 519/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **AMINO-TRIAZOLOPYRIDINE COMPOUNDS AND THEIR USE IN TREATING CANCER**
[54] **COMPOSES AMINO-TRIAZOLOPYRIDINE ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**
[72] FINLAY, MAURICE RAYMOND VERSCHOYLE, GB
[72] GOLDBERG, FREDERICK WOOLF, GB
[72] TING, ATTILLA KUAN TSUEI, GB
[73] ASTRAZENECA AB, SE
[85] 2019-06-06
[86] 2017-12-19 (PCT/EP2017/083625)
[87] (WO2018/114999)
[30] US (62/436619) 2016-12-20

[11] **3,048,755**
[13] C
[51] **Int.Cl. E04F 13/075 (2006.01) E04F 13/00 (2006.01)**
[25] EN
[54] **FOAM BACKED SIDING PANEL**
[54] **PANNEAU DE REVETEMENT A DOUBLAGE MOUSSE**
[72] WARREN, JEREMY EARL, US
[72] PARKS, DANNY R., US
[72] BEASLEY, BRYAN KEITH, US
[72] HAHN, KALEB, US
[73] PLY GEM INDUSTRIES, INC., US
[86] (3048755)
[87] (3048755)
[22] 2019-07-08
[30] US (62/694,780) 2018-07-06

[11] **3,051,402**
[13] C
[51] **Int.Cl. E04B 1/348 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT STEEL PARALLEL MODULAR CONSTRUCTIONS SYSTEMS WITH SYNTHETIC MODULES**
[54] **SYSTEME DE CONSTRUCTION MODULAIRE PARALLELE EN ACIER LEGER AYANT DES MODULES SYNTHETIQUES**
[72] AYLWARD, PETER G., US
[72] MCCARRON, DOUGLAS J., US
[72] ODOM, DANIEL M., US
[72] PIERCE, BRIAN, US
[72] FLOOD, PATRICK, US
[73] AFFORDABLE MODULAR SYSTEMS, LLC, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015108)
[87] (WO2018/140538)
[30] US (62/449,912) 2017-01-24

[11] **3,052,041**
[13] C
[51] **Int.Cl. H04L 27/26 (2006.01) H04W 74/08 (2009.01) H04L 5/00 (2006.01)**
[25] EN
[54] **METHOD AND USER EQUIPMENT FOR TRANSMITTING RANDOM ACCESS PREAMBLE, AND METHOD AND BASE STATION FOR RECEIVING RANDOM ACCESS PREAMBLE**
[54] **PROCEDE ET EQUIPEMENT D'UTILISATEUR POUR TRANSMETTRE UN PREAMBULE D'ACCES ALEATOIRE, ET PROCEDE ET STATION DE BASE POUR RECEVOIR UN PREAMBULE D'ACCES ALEATOIRE**
[72] YOON, SUKHYON, KR
[72] KO, HYUNSOO, KR
[72] KIM, KIJUN, KR
[72] KIM, EUNSUN, KR
[72] YANG, SUCKCHEL, KR
[73] LG ELECTRONICS INC., KR
[85] 2019-07-29
[86] 2018-03-19 (PCT/KR2018/003169)
[87] (WO2018/174494)
[30] US (62/474,053) 2017-03-20

[11] **3,052,389**
[13] C
[51] **Int.Cl. G01N 35/10 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **FLUID PROCESSING AND CONTROL**
[54] **REGULATION ET TRAITEMENT DE FLUIDE**
[72] DORITY, DOUGLAS B., US
[72] CHANG, RONALD, US
[73] CEPHEID, US
[86] (3052389)
[87] (3052389)
[22] 2003-02-14
[62] 2,817,615
[30] US (10/084,409) 2002-02-25

[11] **3,053,520**
[13] C
[51] **Int.Cl. G06F 12/0893 (2016.01) G11C 8/08 (2006.01) G11C 8/14 (2006.01) G11C 11/44 (2006.01) H01L 39/22 (2006.01)**
[25] EN
[54] **MEMORY CIRCUIT WITH WRITE-BYPASS PORTION**
[54] **CIRCUIT DE MEMOIRE AVEC PARTIE DE DERIVATION D'ECRITURE**
[72] KONIGSBURG, BRIAN, US
[72] TSCHIRHART, PAUL KENTON, US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2019-08-14
[86] 2018-01-30 (PCT/US2018/016003)
[87] (WO2018/160309)
[30] US (15/446,812) 2017-03-01

[11] **3,053,946**
[13] C
[51] **Int.Cl. C09C 1/62 (2006.01) C09C 1/00 (2006.01) C09C 1/64 (2006.01) C09C 3/10 (2006.01) C09C 3/12 (2006.01)**
[25] EN
[54] **LAMELLAR PARTICLES WITH FUNCTIONAL COATING**
[54] **PARTICULES LAMELLAIRES DOTEES D'UN REVETEMENT FONCTIONNEL**
[72] ZIEBA, JAROSLAW, US
[72] JANSSEN, KELLY, US
[72] THOMAS, FRED, US
[73] VIAVI SOLUTIONS INC., US
[85] 2019-08-16
[86] 2018-02-28 (PCT/US2018/020133)
[87] (WO2018/160643)
[30] US (62/465,605) 2017-03-01

[11] **3,054,525**
[13] C
[51] **Int.Cl. A63B 59/70 (2015.01) A63B 59/50 (2015.01) A63B 59/00 (2015.01) B32B 3/12 (2006.01)**
[25] EN
[54] **SPORTING GOODS INCLUDING MICROLATTICE STRUCTURES**
[54] **ARTICLES DE SPORT COMPRENANT DES STRUCTURES EN MICRO-RESEAUX**
[72] DAVIS, STEPHEN J., US
[72] CHAUVIN, DEWEY, US
[73] BAUER HOCKEY LTD., CA
[86] (3054525)
[87] (3054525)
[22] 2015-05-12
[62] 2,949,062
[30] US (14/276,739) 2014-05-13

[11] **3,054,949**
[13] C
[51] **Int.Cl. F04D 13/08 (2006.01) F04D 13/10 (2006.01) F04D 29/04 (2006.01)**
[25] EN
[54] **RETAINING RING ANTI-MIGRATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE ANTI-MIGRATION D'ANNEAU DE RETENUE**
[72] HILL, JASON EUGENE, US
[72] WEBSTER, JOSHUA WAYNE, US
[72] NOWITZKI, WESLEY JOHN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-08-28
[86] 2018-04-02 (PCT/US2018/025728)
[87] (WO2018/204005)
[30] US (62/500,386) 2017-05-02

[11] **3,055,076**
[13] C
[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/4745 (2006.01) A61K 31/513 (2006.01) A61K 31/7068 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **GLUCOCORTICOID RECEPTOR MODULATORS TO TREAT CERVICAL CANCER**
[54] **MODULATEURS DU RECEPTEUR DE GLUCOCORTICOIDES DESTINES AU TRAITEMENT DU CANCER DU COL DE L'UTERUS**
[72] HUNT, HAZEL, US
[73] CORCEPT THERAPEUTICS, INC., US
[85] 2019-08-29
[86] 2018-03-30 (PCT/US2018/025547)
[87] (WO2018/183947)
[30] US (62/480,226) 2017-03-31

[11] **3,055,634**
[13] C
[51] **Int.Cl. A61M 16/00 (2006.01)**
[25] EN
[54] **IMPROVED VISUAL LARYNGEAL MASK**
[54] **MASQUE LARYNGE VIDEO AMELIORE**
[72] ZUO, MINGZHANG, CN
[72] XUE, FUSHAN, CN
[72] HEI, ZIQING, CN
[72] YAO, SHANGLONG, CN
[72] LI, FANGBING, CN
[72] WANG, WEIDONG, CN
[72] WANG, TAOHONG, CN
[72] XIA, DAWEI, CN
[72] LI, HONGBO, CN
[72] XIANG, TENG, CN
[72] WANG, WEINAN, CN
[72] JIA, DONGXING, CN
[72] ZHANG, SHENGYAN, CN
[72] LV, NA, CN
[72] LIU, XING, CN
[72] WANG, GANG, CN
[73] ZHEJIANG UE MEDICAL CORP., CN
[85] 2019-09-06
[86] 2018-10-31 (PCT/CN2018/113157)
[87] (WO2019/153803)
[30] CN (201810124111.1) 2018-02-07
[30] CN (201821088839.5) 2018-07-10

[11] **3,058,041**
[13] C
[51] **Int.Cl. B63B 3/70 (2006.01) B63B 73/00 (2020.01) B63B 3/00 (2006.01) B63B 21/04 (2006.01) B63B 21/50 (2006.01) B63B 35/44 (2006.01)**
[25] EN
[54] **VESSEL HULL FOR USE AS A HULL OF A FLOATING HYDROCARBON STORAGE AND/OR PROCESSING PLANT**
[54] **COQUE DE NAVIRE POUR UNE UTILISATION EN TANT QUE COQUE D'UNE INSTALLATION DE STOCKAGE ET/OU DE TRAITEMENT D'HYDROCARBURE**
[72] FELDERHOFF, JEAN-MICHEL, MC
[73] SINGLE BUOY MOORINGS INC., CH
[86] (3058041)
[87] (3058041)
[22] 2015-08-11
[62] 2,965,551
[30] EP (14190676.8) 2014-10-28

---

[11] **3,058,119**
[13] C
[51] **Int.Cl. A01K 39/01 (2006.01) A01K 5/01 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FACILITATING SEED FEEDER FILLING**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE FACILITER LE REMPLISSAGE D'UN DISTRIBUTEUR DE GRAINES**
[72] DONEGAN, ROBERT W., US
[72] KRUEGER, BRYAN, US
[72] BRUNO, JOHN, US
[72] NIFONG, LINDSEY, US
[73] CLASSIC BRANDS, LLC, US
[86] (3058119)
[87] (3058119)
[22] 2016-03-21
[62] 2,978,952
[30] US (62/135,618) 2015-03-19
[30] US (29/550,881) 2016-01-07

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[11] **3,058,636**
[13] C
[51] **Int.Cl. F24F 7/02 (2006.01) E04D 13/00 (2006.01) F24F 13/08 (2006.01)**
[25] EN
[54] **VENT**
[54] **EVENT**
[72] FISER, JAKOB D., US
[73] LOMANCO, INC., US
[86] (3058636)
[87] (3058636)
[22] 2017-09-14
[62] 2,979,248
[30] US (15/703,762) 2017-09-13

---

[11] **3,059,611**
[13] C
[51] **Int.Cl. A43B 7/12 (2006.01)**
[25] EN
[54] **MOISTURE-PERMEABLE WATERPROOF SHOE HAVING AN UPRIGHT VELVET INNER SLEEVE**
[54] **CHAUSSURE IMPERMEABLE A L`EAU ET PERMEABLE A L`HUMIDITE AVEC ENVELOPPE VERTICALE INTERIEURE EN VELOURS**
[72] CHANG, CHUNG-TANG, CH
[73] VESSI FOOTWEAR LTD., CA
[86] (3059611)
[87] (3059611)
[22] 2019-10-22
[30] TW (108100554) 2019-01-07

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[11] **3,060,116**
[13] C
[51] **Int.Cl. B02C 18/14 (2006.01) B02C 18/16 (2006.01) B02C 18/18 (2006.01)**
[25] EN
[54] **DISINTEGRATING DEVICE COMPRISING A COMB SYSTEM**
[54] **DISPOSITIF DE DESINTEGRATION COMPRENANT UN SYSTEME DE PEIGNE**
[72] DOPPSTADT, FERDINAND, DE
[73] DOPPSTADT FAMILIENHOLDING GMBH, DE
[85] 2019-10-16
[86] 2018-05-07 (PCT/EP2018/000240)
[87] (WO2018/206143)
[30] DE (20 2017 002 387.3) 2017-05-08
[30] DE (20 2018 000 803.6) 2018-02-16

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[11] **3,060,344**
[13] C
[51] **Int.Cl. B05B 3/10 (2006.01) B64D 1/18 (2006.01)**
[25] EN
[54] **ATOMIZING DISC, ATOMIZING DEVICE WITH ATOMIZING DISC, AND UNMANNED AERIAL VEHICLE**
[54] **DISQUE DE PULVERISATION, DISPOSITIF DE PULVERISATION AVEC DISQUE DE PULVERISATION, ET VEHICULE AERIEN SANS PILOTE**
[72] LI, JIESUN, CN
[72] LI, SHENGHUA, CN
[73] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD, CN
[85] 2019-10-17
[86] 2018-06-28 (PCT/CN2018/093395)
[87] (WO2019/011131)
[30] CN (201710560279.2) 2017-07-11

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[11] **3,060,385**
[13] C
[51] **Int.Cl. C23C 14/32 (2006.01) C23C 14/08 (2006.01) C23C 14/16 (2006.01) C23C 16/40 (2006.01) C23C 16/455 (2006.01) C23C 16/515 (2006.01) C23C 28/00 (2006.01)**
[25] EN
[54] **PVD BOND COAT**
[54] **COUCHE DE LIAISON PAR PVD**
[72] RAMM, JURGEN, CH
[72] WIDRIG, BENO, CH
[72] POLCIK, PETER, AT
[72] GINDRAT, MALKO, CH
[73] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH
[85] 2019-10-18
[86] 2018-04-19 (PCT/EP2018/060045)
[87] (WO2018/193035)
[30] CH (00534/17) 2017-04-21

[11] **3,060,496**
[13] C
[51] **Int.Cl. H04N 21/63 (2011.01) H04N 21/238 (2011.01) H04N 21/643 (2011.01) H04N 19/30 (2014.01) H04N 19/46 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **SIGNALING AND SELECTION FOR THE ENHANCEMENT OF LAYERS IN SCALABLE VIDEO**
[54] **SIGNALISATION ET SELECTION POUR L'AMELIORATION DES COUCHES DE VIDEO ECHELONNABLE**
[72] NARASIMHAN, MANDAYAM, US
[72] LUTHRA, AJAY K., US
[73] ARRIS ENTERPRISES LLC, US
[86] (3060496)
[87] (3060496)
[22] 2015-05-21
[62] 2,949,826
[30] US (62/001,412) 2014-05-21
[30] US (14/718,203) 2015-05-21
[30] US (14/718,216) 2015-05-21

[11] **3,060,507**
[13] C
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/34 (2006.01) A61M 5/50 (2006.01)**
[25] EN
[54] **DUAL CHAMBER SYRINGE WITH RETRACTABLE NEEDLE**
[54] **SERINGUE A DOUBLE COMPARTIMENT COMPRENANT UNE AIGUILLE RETRACTABLE**
[72] ZIVKOVIC, IVAN, US
[72] HAGER, JORGEN, SE
[72] HANDBERG, ULF, SE
[72] HANNER, GERT, SE
[72] HOLMA, THOMAS, SE
[72] WAHLBERG, ULF, SE
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3060507)
[87] (3060507)
[22] 2011-07-21
[62] 2,994,608
[30] US (61/366,874) 2010-07-22
[30] US (13/187,200) 2011-07-20

[11] **3,061,159**
[13] C
[51] **Int.Cl. H04W 28/04 (2009.01)**
[25] EN
[54] **INFORMATION TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**
[54] **PROCEDE DE TRANSMISSION D'INFORMATIONS, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] LIN, YANAN, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-10-23
[86] 2017-04-24 (PCT/CN2017/081731)
[87] (WO2018/195729)

[11] **3,061,222**
[13] C
[51] **Int.Cl. E04H 15/62 (2006.01) C09J 5/00 (2006.01)**
[25] EN
[54] **A TENT PEG AND THE PROCESSING METHOD THEREOF**
[54] **PIQUET DE TENTE ET SON PROCEDE DE FABRICATION**
[72] XIAN, MINJIN, CN
[73] GUANGZHOU CLASSIC & FRESH CRAFTS CO., LIMITED, CN
[86] (3061222)
[87] (3061222)
[22] 2019-11-12

[11] **3,061,601**
[13] C
[51] **Int.Cl. G06Q 20/22 (2012.01) G06Q 20/32 (2012.01)**
[25] EN
[54] **MOBILE BARCODE GENERATION AND PAYMENT**
[54] **GENERATION DE CODE A BARRES MOBILE ET PAIEMENT**
[72] WONG, CATHERINE A., US
[73] PAYPAL, INC., US
[86] (3061601)
[87] (3061601)
[22] 2013-03-29
[62] 2,907,930
[30] US (13/433,792) 2012-03-29

[11] **3,062,089**
[13] C
[51] **Int.Cl. A61K 31/737 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IMMUNOMAGNETIC NANOCAPSULE, FABRICATION METHOD AND USE THEREOF, AND KIT FOR TREATING CANCER**
[54] **NANOCAPSULE IMMUNOMAGNETIQUE, SON PROCEDE DE FABRICATION ET D'UTILISATION, ET KIT PERMETTANT DE TRAITER UN CANCER**
[72] SHYU, WOEI-CHERNG, CN
[72] CHEN, SAN-YUAN, CN
[72] CHIANG, CHIH-SHENG, CN
[72] HSIEH, CHIA-HUNG, CN
[72] LIN, YU-JUNG, CN
[72] TSAI, CHANG-HAI, CN
[73] CHINA MEDICAL UNIVERSITY, TW
[85] 2019-10-31
[86] 2018-04-27 (PCT/CN2018/084769)
[87] (WO2018/201981)
[30] US (62/492,525) 2017-05-01
[30] CN (201810051881.8) 2018-01-16

[11] **3,062,791**
[13] C
[51] **Int.Cl. G06V 30/41 (2022.01) G06T 7/194 (2017.01) G06V 30/14 (2022.01) G06V 30/184 (2022.01) H04N 1/00 (2006.01)**
[25] EN
[54] **DETECTING LONG DOCUMENTS IN A LIVE CAMERA FEED**
[54] **DETECTION DE DOCUMENTS LONGS DANS UNE ALIMENTATION DE CAMERA EN DIRECT**
[72] YELLAPRAGADA, VIJAY, US
[72] CHIANG, PEIJUN, US
[72] LEE, DANIEL, US
[72] HALL, JASON, US
[72] SOLIWAL, SHAILESH, US
[73] INTUIT INC., US
[85] 2019-11-07
[86] 2017-06-16 (PCT/US2017/037835)
[87] (WO2018/231243)
[30] US (15/623,008) 2017-06-14

[11] **3,063,653**
[13] C
[51] **Int.Cl. F16C 17/12 (2006.01) F16C 25/04 (2006.01)**
[25] EN
[54] **BEARING APPARATUS INCLUDING A BEARING ASSEMBLY HAVING A CONTINUOUS BEARING ELEMENT AND A TILTING PAD BEARING ASSEMBLY**
[54] **DISPOSITIF DE PALIER COMPRENANT UN ENSEMBLE PALIER POSSEDANT UN ELEMENT DE PALIER CONTINU ET UN ENSEMBLE PALIER A PATINS OSCILLANTS**
[72] GONZALEZ, JAIR J., US
[72] LEITE, LEONIDAS C., US
[72] VENKATESAN, SRIRAM, US
[73] US SYNTHETIC CORPORATION, US
[73] WAUKESHA BEARINGS CORPORATION, US
[86] (3063653)
[87] (3063653)
[22] 2015-11-24
[62] 2,969,112
[30] US (62/087,132) 2014-12-03

[11] **3,063,758**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61F 2/958 (2013.01)**
[25] EN
[54] **LOW PROFILE TRANSCATHETER HEART VALVE**
[54] **VALVULE CARDIAQUE TRANSCATHETER DE FAIBLE PROFIL**
[72] HARITOU, LLIA, IL
[72] BENICHOU, NETANEL, IL
[72] NITZAN, YAACOV, IL
[72] FELSEN, BELLA, IL
[72] NGUYEN-THIEN-NH, DIANA, US
[72] KHANNA, RAJESH, US
[72] NGUYEN, SOM, US
[72] LEVI, TAMIR, IL
[72] PELLED, ITAI, US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[86] (3063758)
[87] (3063758)
[22] 2009-06-08
[62] 3,041,490
[30] US (61/059,656) 2008-06-06

[11] **3,064,958**
[13] C
[51] **Int.Cl. A01G 7/00 (2006.01) G01N 21/00 (2006.01)**
[25] EN
[54] **PHENOTYPING APPARATUS**
[54] **APPAREIL DE PHENOTYPAGE**
[72] SALON, CHRISTOPHE, FR
[72] JEUDY, CHRISTIAN, FR
[72] BAUSSART, CHRISTOPHE, FR
[72] CHAZALLET, FEDERIC, FR
[72] LAMBOEUF, MICKAEL, FR
[72] MARTINET, JULIEN, FR
[73] INOVIAFLOW, FR
[73] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[85] 2019-11-26
[86] 2018-05-29 (PCT/EP2018/064057)
[87] (WO2018/219942)
[30] EP (17173289.4) 2017-05-29

[11] **3,065,057**
[13] C
[51] **Int.Cl. B25B 13/48 (2006.01) B25B 13/50 (2006.01) E21B 19/16 (2006.01)**
[25] EN
[54] **WRENCH ASSEMBLY WITH FLOATING TORQUE BODIES**
[54] **ENSEMBLE CLE A CORPS DE TORSION FLOTTANTS**
[72] VO, HAN, US
[73] FORUM US, INC., US
[85] 2019-11-26
[86] 2018-05-10 (PCT/US2018/031951)
[87] (WO2018/222360)
[30] US (15/609,279) 2017-05-31

[11] **3,065,062**
[13] C
[51] **Int.Cl. G06V 30/10 (2022.01) G06T 7/70 (2017.01) G06V 10/10 (2022.01) G06V 30/194 (2022.01) G06V 30/40 (2022.01)**
[25] EN
[54] **SIMULATING IMAGE CAPTURE**
[54] **SIMULATION DE CAPTURE D'IMAGE**
[72] HASSANZADEH, KIMIA, CA
[72] BECKER, RICHARD J, CA
[72] MACKENZIE, COLE, CA
[72] COULOMBE, GREG, CA
[73] INTUIT INC., US
[85] 2019-11-26
[86] 2017-07-24 (PCT/US2017/043441)
[87] (WO2019/013827)
[30] US (15/648,513) 2017-07-13

[11] **3,065,455**
[13] C
[51] **Int.Cl. B64C 27/08 (2006.01) B64C 27/20 (2006.01) B64C 27/26 (2006.01) B64C 39/02 (2006.01) B64D 27/24 (2006.01)**
[25] EN
[54] **UNMANNED AERIAL VEHICLE CONFIGURATION FOR EXTENDED FLIGHT**
[54] **CONFIGURATION DE VEHICULE AERIEN SANS PILOTE POUR VOL PROLONGE**
[72] WELSH, RICKY DEAN, US
[72] BUCHMUELLER, DANIEL, US
[72] HENSEL, FABIAN, US
[72] KIMCHI, GUR, US
[72] LEGRAND, LOUIS LEROI, III, US
[72] PORTER, BRANDON WILLIAM, US
[72] ROBB, WALKER CHAMBERLAIN, US
[72] TRAUBE, JOSHUA WHITE, US
[73] AMAZON TECHNOLOGIES, INC., US
[86] (3065455)
[87] (3065455)
[22] 2015-11-10
[62] 2,966,654
[30] US (14/538,570) 2014-11-11
[30] US (62/083,879) 2014-11-24
[30] US (14/557,403) 2014-12-01

[11] **3,066,056**
[13] C
[51] **Int.Cl. F24V 30/00 (2018.01)**
[25] EN
[54] **HEAT GENERATING DEVICE AND METHOD FOR GENERATING HEAT**
[54] **DISPOSITIF ET PROCEDE DE PRODUCTION DE CHALEUR**
[72] IWAMURA, YASUHIRO, JP
[72] ITO, TAKEHIKO, JP
[72] KASAGI, JIROTA, JP
[72] YOSHINO, HIDEKI, JP
[72] HATTORI, MASANAO, JP
[73] CLEAN PLANET INC., JP
[85] 2019-12-03
[86] 2018-06-07 (PCT/JP2018/021933)
[87] (WO2018/230447)
[30] JP (2017-117917) 2017-06-15

[11] **3,066,612**
[13] C
[51] **Int.Cl. G06Q 50/26 (2012.01)**
[25] EN
[54] **METHOD, DEVICE, AND SYSTEM FOR ELECTRONIC DIGITAL ASSISTANT FOR NATURAL LANGUAGE DETECTION OF A USER STATUS CHANGE AND CORRESPONDING MODIFICATION OF A USER INTERFACE**
[54] **PROCEDE, DISPOSITIF ET SYSTEME D'ASSISTANT NUMERIQUE ELECTRONIQUE PERMETTANT LA DETECTION EN LANGAGE NATUREL D'UN CHANGEMENT D'ETAT D'UTILISATEUR ET MODIFICATION CORRESPONDANTE D' UNE INTERFACE UTILISATEUR**
[72] JOHNSON, ERIC, US
[72] SIDDOWAY, CRAIG, US
[72] JARVINEN, JARI P., US
[72] NILSEN, RYAN M., US
[72] ZAAG, BERT VAN DER, US
[72] TRAN, CHI T., US
[72] BRYANT, ERIN B., US
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2019-12-06
[86] 2018-05-24 (PCT/US2018/034413)
[87] (WO2018/231493)
[30] US (15/621,387) 2017-06-13

[11] **3,066,724**
[13] C
[51] **Int.Cl. G01F 23/263 (2022.01) B64D 37/02 (2006.01) B65D 90/48 (2006.01) B60K 15/03 (2006.01)**
[25] EN
[54] **FUEL TANK WITH INTEGRATED LEVEL SENSORS, IN PARTICULAR FOR AERIAL VEHICLES**
[54] **RESERVOIR DE CARBURANT A CAPTEURS DE NIVEAU INTEGRES, EN PARTICULIER POUR VEHICULES AERIENS**
[72] JADIR MENDES FERREIRA, NELSON, PT
[72] FONSECA SILVA, JOAQUIM MIGUEL, PT
[72] DA SILVA FERNANDES, CHRISTOPHE, PT
[72] DOS SANTOS DUARTE CARVALHO, PEDRO, PT
[72] DE CARVALHO GOMES, JOAO MANUEL, PT
[72] VIEIRA RIBEIRO, MIGUEL BRUNO, PT
[72] GONCALVES DE MATOS, BRUNO GUILHERME, PT
[72] BENTO MONTES, ANA RITA, PT
[72] LOURENCO CALDEIRA PINTO, ANDRE, PT
[72] GONCALVES DA COSTA PEREIRA, PEDRO MIGUEL, PT
[72] GUSMAN CORREIA ARAUJO BARBOSA, JOSE MANUEL, PT
[73] STRATOSPHERE, S.A., PT
[73] CEIIA - CENTRO DE ENGENHARIA E DESENVOLVIMENTO (ASSOCIACAO), PT
[73] CENTITVC- CENTRO DE NANOTECNOLOGIA E MATERIAIS TECNICOS, FUNCIONAIS E INTELIGENTES, PT
[85] 2019-12-09
[86] 2018-06-07 (PCT/IB2018/054124)
[87] (WO2018/225010)
[30] PT (110127) 2017-06-07

[11] **3,068,661**
[13] C
[51] **Int.Cl. G06F 40/30 (2020.01) G06F 40/40 (2020.01) G06N 5/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SEMANTIC CONCEPT DEFINITION AND SEMANTIC CONCEPT RELATIONSHIP SYNTHESIS UTILIZING EXISTING DOMAIN DEFINITIONS**
[54] **SYSTEMES ET PROCEDES DE DEFINITION DE CONCEPTS SEMANTIQUES ET DE SYNTHESE DE RELATIONS ENTRE CONCEPTS SEMANTIQUES FAISANT APPEL A DES DEFINITIONS DE DOMAINES EXISTANTS**
[72] SWEENEY, PETER, CA
[72] BLACK, ALEXANDER DAVID, CA
[73] PRIMAL FUSION INC., CA
[86] (3068661)
[87] (3068661)
[22] 2009-08-28
[62] 2,988,181
[30] US (61/092,973) 2008-08-29

[11] **3,070,196**
[13] C
[51] **Int.Cl. H04L 12/12 (2006.01) G06F 9/451 (2018.01) H04L 41/22 (2022.01) H04L 67/025 (2022.01) H04L 67/131 (2022.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF ENABLING FAST USER ACCESS TO REMOTE DESKTOPS**
[54] **SYSTEMES ET METHODES PERMETTANT UN ACCES UTILISATEUR RAPIDE AUX BUREAUX A DISTANCE**
[72] LIU, LEI, US
[72] LIU, YEPING, US
[72] LEI, CAO, US
[73] CITRIX SYSTEMS, INC., CN
[85] 2020-01-29
[86] 2019-01-29 (PCT/CN2019/073716)
[87] (WO2020/154898)

[11] **3,070,697**
[13] C
[51] **Int.Cl. B60S 9/04 (2006.01) B60S 9/16 (2006.01) B66F 3/16 (2006.01)**
[25] EN
[54] **JACK ASSEMBLY**
[54] **ENSEMBLE DE CRIC**
[72] VAN DEN BOS, JURGEN, AU
[73] BOS FABRICATION ENGINEERING SERVICES PTY LTD, AU
[86] (3070697)
[87] (3070697)
[22] 2014-02-19
[62] 2,900,375
[30] AU (2013200923) 2013-02-19

---

[11] **3,071,899**
[13] C
[51] **Int.Cl. E02F 3/88 (2006.01) B01D 45/12 (2006.01) B04C 5/14 (2006.01) B04C 5/28 (2006.01) E02F 3/92 (2006.01)**
[25] EN
[54] **HYDRO EXCAVATION VACUUM APPARATUS**
[54] **APPAREIL D'ASPIRATION PAR HYDROEXCAVATION**
[72] ASKELSEN, TAYTE, US
[72] STROBEL, ANDY, US
[72] LANOUE, COREY, US
[72] HOFLAND, DANIEL, US
[72] BATES, ADAM, US
[72] GIFT, DAVID, US
[72] SKINNER, JAMES W., US
[72] MEYER, NATHAN J., US
[73] VERMEER MANUFACTURING COMPANY, US
[86] (3071899)
[87] (3071899)
[22] 2018-07-13
[62] 3,011,229
[30] US (62/532853) 2017-07-14

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[11] **3,074,210**
[13] C
[51] **Int.Cl. F16L 15/04 (2006.01) E21B 17/042 (2006.01)**
[25] EN
[54] **THREADED CONNECTION FOR STEEL PIPE**
[54] **RACCORD FILETE POUR TUYAU EN ACIER**
[72] SUGINO, MASAAKI, JP
[72] OKU, YOUSUKE, JP
[72] INOSE, KEITA, JP
[73] NIPPON STEEL CORPORATION, JP
[73] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2020-02-27
[86] 2018-10-02 (PCT/JP2018/036859)
[87] (WO2019/082612)
[30] JP (2017-206157) 2017-10-25

---

[11] **3,074,311**
[13] C
[51] **Int.Cl. A63B 21/068 (2006.01) A63B 1/00 (2006.01) A63B 23/12 (2006.01)**
[25] EN
[54] **A COLLAPSIBLE FREE STANDING EXERCISE APPARATUS**
[54] **APPAREIL D'EXERCICE AUTONOME PLIANT**
[72] LE NGUYEN KHANH, TRINH, VN
[73] LE NGUYEN KHANH, TRINH, VN
[85] 2020-01-14
[86] 2017-06-21 (PCT/IB2017/053700)
[87] (WO2018/011650)
[30] US (15/249,348) 2016-07-14

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[11] **3,074,671**
[13] C
[51] **Int.Cl. E02D 13/00 (2006.01)**
[25] EN
[54] **CONTROLLING BACKFLOW FROM DRILLING WITH HOLLOW REBAR AND GROUTING**
[54] **REGULATION DU REFOULEMENT PROVENANT DU FORAGE A L`AIDE D`UNE BARRE D`ARMATURE CREUSE ET D`UN COULIS**
[72] ASCHENBROICH, HORST K., CA
[73] ASCHENBROICH, HORST K., CA
[86] (3074671)
[87] (3074671)
[22] 2020-03-04
[30] US (16/298937) 2019-03-11

---

[11] **3,075,017**
[13] C
[51] **Int.Cl. G05B 15/02 (2006.01)**
[25] EN
[54] **FAULT TOLERANT SERVICES FOR INTEGRATED BUILDING AUTOMATION SYSTEMS**
[54] **SERVICES INSENSIBLES AUX DEFAILLANCES POUR SYSTEMES D'AUTOMATISATION DE BATIMENT INTEGRES**
[72] CASILLI, CHRIS, US
[73] SIEMENS INDUSTRY, INC., US
[85] 2020-03-05
[86] 2018-08-28 (PCT/US2018/048213)
[87] (WO2019/050708)
[30] US (15/698,178) 2017-09-07

---

[11] **3,077,683**
[13] C
[51] **Int.Cl. H04W 4/024 (2018.01) H04W 64/00 (2009.01) H04B 17/318 (2015.01) G01S 5/00 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **CROWD-SOURCED TRAINING OF A NEURAL NETWORK FOR RSS FINGERPRINTING**
[54] **FORMATION A EXTERNALISATION OUVERTE D`UN RESEAU NEURONAL POUR EMPREINTES PAR SYSTEME DE RECONNAISSANCE RETINIENNE**
[72] HUBERMAN, SEAN, CA
[72] KARON, JOSHUA, CA
[72] OHAB, HENRY, CA
[73] MAPSTED CORP., CA
[86] (3077683)
[87] (3077683)
[22] 2020-04-09
[30] US (16400562) 2019-05-01

[11] **3,078,279**
[13] C
[51] **Int.Cl. F02C 7/047 (2006.01)**
[25] EN
[54] **METHOD FOR THE CONTROL OF THE ANTI-ICING SYSTEM OF THE AIRCRAFT GAS TURBINE ENGINE**
[54] **PROCEDE DE COMMANDE DU SYSTEME ANTIGIVRAGE DE LA TURBINE A GAZ D'AERONEF**
[72] SAZHENKOV, ALEKSEJ NIKOLAEVICH, RU
[72] SAVENKOV, YURIJ SEMENOVICH, RU
[73] JOINT-STOCK COMPANY "UNITED ENGINE CORPORATION" (JSC "UEC"), RU
[85] 2020-04-01
[86] 2018-10-03 (PCT/RU2018/000642)
[87] (WO2019/098881)
[30] RU (2017139379) 2017-11-14

[11] **3,081,207**
[13] C
[51] **Int.Cl. A23L 33/105 (2016.01) C07C 45/79 (2006.01)**
[25] EN
[54] **BISACURONE EXTRACTION METHOD**
[54] **PROCEDE D'EXTRACTION DE BISACURONE**
[72] TOMOTAKE, MUNEAKI, JP
[72] KIDA, KAORI, JP
[72] SASAKO, HIROSHI, JP
[73] HOUSE FOODS GROUP INC., JP
[73] HOUSE WELLNESS FOODS CORPORATION, JP
[85] 2020-04-30
[86] 2017-10-31 (PCT/JP2017/039261)
[87] (WO2019/087278)

[11] **3,083,621**
[13] C
[51] **Int.Cl. A61H 35/00 (2006.01) A47K 3/022 (2006.01) A61H 33/00 (2006.01)**
[25] EN
[54] **FOOT SPA WITH DISPOSABLE PUMP**
[54] **SPA POUR LES PIEDS AVEC POMPE JETABLE**
[72] TRAN, MINH SANG, CA
[72] ALEXANDER, CHRIS, CA
[73] GULFSTREAM INC., CA
[86] (3083621)
[87] (3083621)
[22] 2020-06-15
[30] US (63/027,737) 2020-05-20

[11] **3,087,558**
[13] C
[51] **Int.Cl. F02C 6/18 (2006.01) E21B 41/00 (2006.01) F01D 15/10 (2006.01) F01N 5/02 (2006.01) F02C 6/00 (2006.01)**
[25] EN
[54] **EXHAUST HEAT RECOVERY FROM A MOBILE POWER GENERATION SYSTEM**
[54] **RECUPERATION DE CHALEUR D'ECHAPPEMENT A PARTIR D'UN SYSTEME DE GENERATION D'ENERGIE MOBILE**
[72] MORRIS, JEFFREY G., US
[72] BODISHBAUGH, ADRIAN BENJAMIN, US
[72] VANN, BRETT, US
[73] TYPHON TECHNOLOGY SOLUTIONS, LLC, US
[85] 2020-07-02
[86] 2018-12-31 (PCT/US2018/068103)
[87] (WO2019/136017)
[30] US (62/612,986) 2018-01-02

[11] **3,087,618**
[13] C
[51] **Int.Cl. H04W 84/06 (2009.01) H04W 72/04 (2009.01) H04B 7/15 (2006.01)**
[25] EN
[54] **DOPPLER-SHIFT CORRECTION IN THREE-DIMENSIONAL NETWORK**
[54] **CORRECTION DE DECALAGE DOPPLER DANS UN RESEAU TRIDIMENSIONNEL**
[72] KONISHI, MITSUKUNI, JP
[72] NAGATE, ATSUSHI, JP
[72] OTA, YOSHICHIKA, JP
[72] HOSHINO, KENJI, JP
[73] SOFTBANK CORP., JP
[85] 2020-07-03
[86] 2018-12-21 (PCT/JP2018/047241)
[87] (WO2019/135368)
[30] JP (2018-000879) 2018-01-05

[11] **3,094,424**
[13] C
[51] **Int.Cl. G08B 21/02 (2006.01) B65G 43/00 (2006.01) G06N 3/02 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **SAFETY MONITORING AND EARLY-WARNING METHOD FOR MAN-MACHINE INTERACTION BEHAVIOR OF UNDERGROUND CONVEYOR BELT OPERATOR**
[54] **PROCEDE D'AVERTISSEMENT PRECOCE ET DE SURVEILLANCE DE SECURITE POUR LE COMPORTEMENT D'INTERACTION HOMME-MACHINE D'UN OPERATEUR DE BANDE TRANSPORTEUSE SOUTERRAINE**
[72] SUN, YANJING, CN
[72] DONG, KAIWEN, CN
[72] CHENG, XIAOZHOU, CN
[72] YUN, XIAO, CN
[72] HOU, XIAOFENG, CN
[72] WANG, BOWEN, CN
[72] WANG, BIN, CN
[72] XU, HONGLI, CN
[72] CHEN, XIAOJING, CN
[73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
[85] 2020-09-24
[86] 2020-03-30 (PCT/CN2020/082006)
[87] (WO2020/253308)
[30] CN (2019105403497) 2019-06-21

[11] **3,094,781**
[13] C
[51] **Int.Cl. H04B 1/04 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR DYNAMICALLY STABILIZING CURRENT LIMITING IN A PORTABLE COMMUNICATION DEVICE**
[54] **APPAREIL ET METHODE DE STABILISATION DYNAMIQUE D`UNE LIMITATION DE COURANT DANS UN DISPOSITIF DE COMMUNICATION PORTATIF**
[72] ALONSO, KEVIN, US
[72] HENRY, DAVID W., US
[72] HAND, MICHAEL, US
[73] MOTOROLA SOLUTIONS, INC., US
[86] (3094781)
[87] (3094781)
[22] 2020-09-30
[30] US (16/654,877) 2019-10-16

[11] **3,096,316**
[13] C
[51] **Int.Cl. C07F 9/38 (2006.01) A61K 31/663 (2006.01) A61P 3/14 (2006.01) A61P 19/00 (2006.01)**
[25] EN
[54] **POLYMORPH OF SODIUM NERIDRONATE AND PREPARATION PROCESS THEREOF**
[54] **POLYMORPHE DE NERIDRONATE DE SODIUM ET SON PROCEDE DE PREPARATION**
[72] DINI, LAURA, IT
[72] NEGGIANI, FABIO, IT
[72] POLITI, BARBARA, IT
[72] GIAFFREDA, STEFANO LUCA, IT
[72] PETROLATI, ALEX, IT
[72] CHIARUCCI, MICHEL, IT
[72] FABBRONI, SERENA, IT
[72] ZHANG, KESHENG, CH
[72] ROEDER, MICHAEL, DE
[73] ABIOGEN PHARMA S.P.A., IT
[85] 2020-10-06
[86] 2019-04-10 (PCT/EP2019/059026)
[87] (WO2019/197437)
[30] EP (18166508.4) 2018-04-10

---

[11] **3,096,445**
[13] C
[51] **Int.Cl. H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/182 (2014.01) H04N 19/593 (2014.01)**
[25] EN
[54] **LOW-COMPLEXITY INTRA PREDICTION FOR VIDEO CODING**
[54] **PREDICTION INTERNE A FAIBLE COMPLEXITE POUR CODAGE VIDEO**
[72] BOSSEN, FRANK JAN, US
[72] TAN, THIOW KENG, SG
[73] NTT DOCOMO, INC., JP
[86] (3096445)
[87] (3096445)
[22] 2011-07-14
[62] 3,014,052
[30] US (61/364,322) 2010-07-14
[30] US (61/388,541) 2010-09-30

---

[11] **3,096,697**
[13] C
[51] **Int.Cl. G01J 3/46 (2006.01)**
[25] EN
[54] **ADAPTOR FOR USE WITH A COLOUR MEASURING DEVICE, AND A METHOD AND SYSTEM THEREOF**
[54] **ADAPTATEUR DESTINE A ETRE UTILISE AVEC UN APPAREIL A MESURER LES COULEURS, ET PROCEDE ET SYSTEME ASSOCIES**
[72] SHERIDAN, MATTHEW, CA
[73] NIX SENSOR LTD., CA
[85] 2020-10-20
[86] 2020-06-01 (PCT/CA2020/050752)
[87] (WO2020/248044)
[30] US (62/860,930) 2019-06-13

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[11] **3,098,217**
[13] C
[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/159 (2014.01) H04N 19/174 (2014.01) H04N 19/182 (2014.01)**
[25] EN
[54] **LOW-COMPLEXITY INTRA PREDICTION FOR VIDEO CODING**
[54] **PREDICTION INTERNE A FAIBLE COMPLEXITE POUR CODAGE VIDEO**
[72] BOSSEN, FRANK JAN, US
[72] TAN, THIOW KENG, SG
[73] NTT DOCOMO, INC., JP
[86] (3098217)
[87] (3098217)
[22] 2011-07-14
[62] 3,014,042
[30] US (61/364,322) 2010-07-14
[30] US (61/388,541) 2010-09-30

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[11] **3,102,611**
[13] C
[51] **Int.Cl. B41M 5/52 (2006.01) B41M 5/42 (2006.01) B41M 5/50 (2006.01) C09D 11/02 (2014.01)**
[25] EN
[54] **INK, TRANSFERS, METHODS OF MAKING TRANSFERS, AND METHODS OF USING TRANSFERS TO DECORATE PLASTIC ARTICLES**
[54] **ENCRE, TRANSFERTS, PROCEDES DE FABRICATION DE TRANSFERTS ET PROCEDES D'UTILISATION DE TRANSFERTS POUR DECORER DES ARTICLES EN PLASTIQUE**
[72] REEVES, ROBERT A., US
[72] STEVENSON, MICHAEL J., US
[72] DIBROM, COREY R., US
[73] THE MICHAEL AND KATHLEEN STEVENSON FAMILY LIMITED PARTNERSHIP, US
[85] 2020-12-03
[86] 2019-06-11 (PCT/US2019/036548)
[87] (WO2019/245802)
[30] US (62/686,314) 2018-06-18

[11] **3,103,086**
[13] C
[51] **Int.Cl. E21D 9/10 (2006.01) E21D 9/12 (2006.01) E21D 11/40 (2006.01) E21D 20/00 (2006.01) E21D 23/04 (2006.01)**
[25] EN
[54] **DETECTING, EXCAVATING, SUPPORTING, ANCHORING AND CONVEYING INTEGRATED MACHINE SYSTEM FOR DOWNHOLE RAPID EXCAVATING AND USE METHOD THEREOF**
[54] **SYSTEME MECANIQUE INTEGRE DE DETECTION, D'EXCAVATION, DE SUPPORT, D'ANCRAGE ET DE TRANSPORT POUR EXCAVATION RAPIDE DE FOND DE PUITS ET SONPROCEDE D'UTILISATION**
[72] LIU, SONGYONG, CN
[72] ZHU, ZHENCAI, CN
[72] JIANG, HONGXIANG, CN
[72] SHEN, GANG, CN
[72] LIU, HOUGUANG, CN
[72] SI, LEI, CN
[72] XU, SHAOYI, CN
[72] JI, HUIFU, CN
[72] CUI, YUMING, CN
[73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
[85] 2020-11-12
[86] 2020-04-10 (PCT/CN2020/084219)
[87] (WO2021/077693)
[30] CN (201911011086.7) 2019-10-23

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[11] **3,104,321**
[13] C
[51] **Int.Cl. B01F 29/10 (2022.01) B01F 35/222 (2022.01) A61J 3/00 (2006.01) G06F 3/048 (2013.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR COMPOSITION COMPOUNDING**
[54] **PROCEDES ET SYSTEMES DE MELANGE DE COMPOSITION**
[72] DANOPOULOS, PANAGIOTA, CA
[73] MEDISCA PHARMACEUTIQUE INC., CA
[86] (3104321)
[87] (3104321)
[22] 2020-12-24
[30] US (63/051,281) 2020-07-13

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[11] **3,105,359**
[13] C
[51] **Int.Cl. G01N 24/08 (2006.01) G01R 33/30 (2006.01) G01V 3/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRI-AXIAL NMR TESTING**
[54] **SYSTEMES ET PROCEDES DE TEST DE RMN TRIAXIALE**
[72] HAKIMUDDIN, MUSTAFA, SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-12-29
[86] 2019-07-01 (PCT/US2019/040100)
[87] (WO2020/009981)
[30] US (16/025,791) 2018-07-02

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[11] **3,105,372**
[13] C
[51] **Int.Cl. H04N 5/217 (2011.01) G06T 5/00 (2006.01) G06T 5/50 (2006.01)**
[25] FR
[54] **PROCESSING OF IMPULSE NOISE IN A VIDEO SEQUENCE**
[54] **TRAITEMENT D'UN BRUIT IMPULSIONNEL DANS UNE SEQUENCE VIDEO**
[72] PAUL, NICOLAS, FR
[73] ELECTRICITE DE FRANCE, FR
[85] 2020-12-16
[86] 2019-06-03 (PCT/EP2019/064297)
[87] (WO2020/001922)
[30] FR (18 55955) 2018-06-29

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[11] **3,107,221**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6813 (2018.01)**
[25] EN
[54] **SUPPRESSING FALSE POSITIVES (TYPE I ERROR) DURING ANALYSIS OF SAMPLE BIOLOGICAL MATERIALS**
[54] **SUPPRESSION DES FAUX POSITIFS (ERREUR DE TYPE I) PENDANT L'ANALYSE D'ECHANTILLONS DE MATIERES BIOLOGIQUES**
[72] MCARTHUR, ANDREW, CA
[72] WRIGHT, GERARD, CA
[72] GUITOR, ALLISON, CA
[72] SURETTE, MICHAEL G., CA
[72] POINAR, HENDRIK, CA
[73] MCMASTER UNIVERSITY, CA
[85] 2021-01-26
[86] 2020-08-21 (PCT/CA2020/051142)
[87] (3107221)
[30] US (62/890,988) 2019-08-23

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[11] **3,107,599**
[13] C
[51] **Int.Cl. G06F 15/16 (2006.01) H04N 21/442 (2011.01) H04L 67/06 (2022.01) H04L 67/1097 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SCALABLY TRACKING MEDIA PLAYBACK USING BLOCKCHAIN**
[54] **SYSTEME ET PROCEDE DE SUIVI EVOLUTIF DE LECTURE MULTIMEDIA A L'AIDE D'UNE CHAINE DE BLOCS**
[72] BATEY, ANDREW, US
[72] ASSADIPOUR, POURIA, CA
[73] BEATDAPP SOFTWARE INC., CA
[85] 2021-01-25
[86] 2019-11-27 (PCT/US2019/063800)
[87] (WO2020/263308)
[30] US (16/457,663) 2019-06-28

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[11] **3,109,290**
[13] C
[51] **Int.Cl. A63H 33/08 (2006.01)**
[25] EN
[54] **TOY BUILDING BLOCKS**
[54] **BLOCS DE CONSTRUCTION JOUETS**
[72] PIHL, JENS MARTIN, DK
[73] PLUS-PLUS A/S, DK
[85] 2021-02-03
[86] 2020-06-25 (PCT/DK2020/050191)
[87] (WO2021/063459)
[30] DK (PA 2019 01155) 2019-10-02

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[11] **3,109,951**
[13] C
[51] **Int.Cl. H04M 3/51 (2006.01)**
[25] EN
[54] **CALL MANAGEMENT SYSTEM FOR A COMMAND CENTER**
[54] **SYSTEME DE GESTION D'APPELS DESTINE A UN CENTRE DE COMMANDE**
[72] PITTA ESWARA CHANDRA, VIDYA SAGAR, US
[72] FROMMELT, BRIAN J., US
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2021-02-17
[86] 2019-08-20 (PCT/US2019/047321)
[87] (WO2020/041354)
[30] US (16/110,494) 2018-08-23
[30] US (16/443,210) 2019-06-17

[11] **3,110,930**
[13] C
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 20/38 (2012.01) G06Q 20/00 (2012.01)**
[25] EN
[54] **A CLIENT TERMINAL FOR ELECTRONIC CERTIFICATE-BASED GOODS DISTRIBUTION**
[54] **TERMINAL CLIENT POUR LA DISTRIBUTION DE BIENS FONDEE SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3110930)
[87] (3110930)
[22] 2014-09-12
[62] 2,997,813

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[11] **3,113,859**
[13] C
[51] **Int.Cl. B65D 25/20 (2006.01) B65D 21/032 (2006.01) B65D 25/28 (2006.01) B65D 25/38 (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
[73] FIRST ELEMENT PACKAGING INC., CA
[85] 2021-03-23
[86] 2020-05-12 (PCT/CA2020/050644)
[87] (WO2020/257920)
[30] US (62/867,673) 2019-06-27
[30] US (62/869,764) 2019-07-02

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[11] **3,117,790**
[13] C
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/155 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01) A61M 5/38 (2006.01)**
[25] EN
[54] **PNEUMATICALLY COUPLED FLUID CONTROL SYSTEM AND PROCESS WITH AIR DETECTION AND ELIMINATION**
[54] **SYSTEME ET PROCEDE DE COMMANDE DE FLUIDE A COUPLAGE PNEUMATIQUE, AYANT UNE DETECTION ET UNE ELIMINATION DE L'AIR**
[72] CARLISLE, JEFFREY A., US
[72] KUBA, LAWRENCE M., US
[73] NEWIV MEDICAL CORP., US
[86] (3117790)
[87] (3117790)
[22] 2014-05-22
[62] 2,913,148
[30] US (61/826,863) 2013-05-23

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[11] **3,118,125**
[13] C
[51] **Int.Cl. A47B 3/00 (2006.01) A47B 13/02 (2006.01)**
[25] EN
[54] **ADJUSTABLE TABLE APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE POUR TABLE REGLABLE**
[72] SNOWBARGER, JACOB EDWARD, US
[72] CONWAY, BENJAMIN SAINTMANE, US
[72] NIEBOLTE, BRADY JOHN, US
[73] HALCON CORP., US
[86] (3118125)
[87] (3118125)
[22] 2021-05-12
[30] US (15/930,860) 2020-05-13

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[11] **3,121,214**
[13] C
[51] **Int.Cl. G06T 7/20 (2017.01) G08B 13/196 (2006.01) G08B 25/00 (2006.01) G08B 25/04 (2006.01) H04N 5/232 (2006.01)**
[25] EN
[54] **SUSPICIOUS OR ABNORMAL SUBJECT DETECTING DEVICE**
[54] **DETECTEUR D'OBJET SUSPECT ET ANORMAL**
[72] KIMURA, DAISUKE, JP
[73] ASILLA, INC., JP
[85] 2021-05-26
[86] 2019-11-21 (PCT/JP2019/045563)
[87] (WO2020/110879)
[30] JP (2018-221374) 2018-11-27
[30] JP (2019-115598) 2019-06-21

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[11] **3,123,337**
[13] C
[51] **Int.Cl. B64G 1/50 (2006.01)**
[25] FR
[54] **METHOD FOR ATTACHING A HEAT-DISSIPATING PIECE OF EQUIPMENT, SPACECRAFT WALL AND SPACECRAFT**
[54] **PROCEDE DE FIXATION D'UN EQUIPEMENT DISSIPATIF, MUR DE VEHICULE SPATIAL ET VEHICULE SPATIAL**
[72] WALKER, ANDREW, FR
[73] AIRBUS DEFENCE AND SPACE SAS, FR
[85] 2021-06-14
[86] 2019-12-18 (PCT/FR2019/053141)
[87] (WO2020/128318)
[30] FR (18 73211) 2018-12-18

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[11] **3,125,205**
[13] C
[51] **Int.Cl. B65D 23/10 (2006.01) B65D 1/02 (2006.01) B65D 1/46 (2006.01)**
[25] EN
[54] **CONTAINER AND METHOD OF MANUFACTURING THE SAME**
[54] **CONTENANT ET PROCEDE DE FABRICATION DE CELUI-CI**
[72] PALMER, JOEY, US
[72] JANECZEK, JAMES, US
[72] SPAGNOLI, ROBERT, US
[73] ALTIUM PACKAGING LP, US
[73] UNILOY, INC., US
[86] (3125205)
[87] (3125205)
[22] 2017-08-22
[62] 3,033,992
[30] US (15/255,403) 2016-09-02

[11] **3,125,209**
[13] C
[51] **Int.Cl. B65D 23/10 (2006.01) B65D 1/02 (2006.01) B65D 1/46 (2006.01)**
[25] EN
[54] **CONTAINER AND METHOD OF MANUFACTURING THE SAME**
[54] **CONTENANT ET PROCEDE DE FABRICATION DE CELUI-CI**
[72] PALMER, JOEY, US
[72] JANECZEK, JAMES, US
[72] SPAGNOLI, ROBERT, US
[73] ALTIUM PACKAGING LP, US
[73] UNILOY, INC., US
[86] (3125209)
[87] (3125209)
[22] 2017-08-22
[62] 3,033,992
[30] US (15/255,403) 2016-09-02

[11] **3,125,342**
[13] C
[51] **Int.Cl. G01N 30/20 (2006.01) F16K 7/14 (2006.01) F16K 11/00 (2006.01)**
[25] EN
[54] **SAMPLE INJECTION DIAPHRAGM VALVE**
[54] **VANNE D'ECHANTILLONNAGE A MEMBRANE D'INJECTION**
[72] LEMELIN, SIMON, CA
[72] LESSARD, JOEL, CA
[73] APN INC., CA
[85] 2021-06-29
[86] 2019-02-07 (PCT/CA2019/050158)
[87] (WO2020/160634)

[11] **3,126,952**
[13] C
[51] **Int.Cl. H04L 9/08 (2006.01) G06N 20/00 (2019.01)**
[25] EN
[54] **API AND ENCRYPTION KEY SECRETS MANAGEMENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE GESTION DE SECRETS D'API ET DE CLES DE CHIFFREMENT**
[72] TEITZEL, CHRISTOPHER, US
[72] FUJIMOTO, TYNOR, US
[73] CELLAR DOOR MEDIA, LLC DBA LOCKR, US
[85] 2021-07-15
[86] 2020-01-22 (PCT/US2020/014641)
[87] (WO2020/159774)
[30] US (16/261,443) 2019-01-29

[11] **3,127,917**
[13] C
[51] **Int.Cl. A43B 7/14 (2022.01) A43B 13/38 (2006.01) A43B 13/40 (2006.01) A43B 17/00 (2006.01) A61F 5/14 (2006.01)**
[25] EN
[54] **DYNAMIC INSOLE**
[54] **SEMELLE INTERIEURE DYNAMIQUE**
[72] GOOCH, MATTHEW, US
[72] ANDERSON, RYAN, US
[72] HAYES, ERIC, US
[72] WAKELAND, DANIEL, US
[73] SUPERFEET WORLDWIDE, INC., US
[85] 2021-07-26
[86] 2020-01-30 (PCT/US2020/015938)
[87] (WO2020/160306)
[30] US (16/265,915) 2019-02-01

[11] **3,128,471**
[13] C
[51] **Int.Cl. E03B 3/03 (2006.01) E03F 5/12 (2006.01)**
[25] EN
[54] **STORM WATER DRAIN TANK MODULES AND ASSEMBLY**
[54] **MODULES ET ENSEMBLE DE RESERVOIR DE DRAINAGE D'EAUX PLUVIALES**
[72] KULICK, FRANK M., III, US
[72] EDWARDS, BRIAN, US
[73] BRENTWOOD INDUSTRIES, INC., US
[85] 2021-08-24
[86] 2019-08-23 (PCT/US2019/047860)
[87] (WO2020/185252)
[30] US (62/815,639) 2019-03-08

[11] **3,133,073**
[13] C
[51] **Int.Cl. A47K 3/32 (2006.01) B60P 3/34 (2006.01) B60R 15/02 (2006.01)**
[25] EN
[54] **RV RETROFIT SYSTEM**
[54] **SYSTEME DE MODIFICATION DE VEHICULE DE PLAISANCE**
[72] HUNTER, JEFFREY, US
[72] FREYERMUTH, DAN, US
[72] DONALDSON, ADAM, US
[72] ISBELL, MARK, US
[72] LANG, BRENT, US
[72] SLATER, DAVE, US
[73] STORYTELLER OVERLAND, LLC, US
[85] 2021-09-09
[86] 2020-03-10 (PCT/US2020/021863)
[87] (WO2020/185760)
[30] US (62/816,571) 2019-03-11
[30] US (16/814,270) 2020-03-10

Canadian Applications Open to Public Inspection

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[21] **3,089,147**
[13] A1
[51] **Int.Cl. A61H 7/00 (2006.01) A61H 9/00 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **NEGATIVE PRESSURE MASSAGE DEVICE AND MASSAGE STICK THEREOF**
[54] **DISPOSITIF DE MASSAGE A PRESSION NEGATIVE ET BATON DE MASSAGE CONNEXE**
[72] LIU, PO-CHANG, TW
[72] YUAN, LI-PIN, TW
[71] BIBOTING INTERNATIONAL CO., LTD, CN
[22] 2020-08-06
[41] 2022-02-06

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[21] **3,089,152**
[13] A1
[51] **Int.Cl. A61H 7/00 (2006.01) A45D 44/00 (2006.01) A61H 9/00 (2006.01) A61N 1/36 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **FACIAL BEAUTIFYING AND CARE APPARATUS**
[54] **APPAREIL DE SOINS ET DE BEAUTE DU VISAGE**
[72] LIU, PO-CHANG, CN
[72] LEE, PEI-EN, TW
[71] BIBOTING INTERNATIONAL CO., LTD, CN
[71] LIU, PO-CHANG, CN
[22] 2020-08-06
[41] 2022-02-06

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[21] **3,089,244**
[13] A1
[51] **Int.Cl. A61H 23/02 (2006.01) A61H 21/00 (2006.01)**
[25] EN
[54] **ELECTRIC VIBRATING JAW MASSAGER**
[54] **APPAREIL DE MASSAGE ELECTRIQUE VIBRATOIRE DE LA MACHOIRE**
[72] PETERSEN, MARYANNE, CA
[71] PETERSEN, MARYANNE, CA
[22] 2020-08-06
[41] 2022-02-06

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[21] **3,089,410**
[13] A1
[51] **Int.Cl. B21D 37/20 (2006.01) B21D 22/02 (2006.01) B21D 37/00 (2006.01) F16D 69/04 (2006.01)**
[25] EN
[54] **DIE ASSEMBLY AND METHOD OF USE FOR MANUFACTURING BACKING PLATES OF FRICTION ASSEMBLIES**
[54] **ASSEMBLAGE DE MATRICE ET METHODE D'UTILISATION POUR LA FABRICATION DE PLAQUES D'APPUI D'ASSEMBLAGES DE FROTTEMENT**
[72] THALAPPATH, RAJ, CA
[71] UTIL CANADA LIMITED, CA
[22] 2020-08-07
[41] 2022-02-07

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[21] **3,089,423**
[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01) G06F 40/18 (2020.01)**
[25] EN
[54] **SYSTEMS AND TECHNIQUES FOR SECURELY PROCESSING DISPARATE DATA SETS IN SPREADSHEETS**
[54] **SYSTEMES ET TECHNIQUES POUR LE TRAITEMENT SECURISE D'ENSEMBLES DE DONNEES DISPARATES DANS DES TABLEURS**
[72] GEORGE, BEDIAKO NTODI, US
[71] GEORGETOWN SOFTWARE HOUSE, INC., US
[22] 2020-08-07
[41] 2022-02-07

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[21] **3,089,447**
[13] A1
[51] **Int.Cl. A61G 10/00 (2006.01) A61G 1/04 (2006.01) A61G 7/05 (2006.01) A61G 10/02 (2006.01)**
[25] EN
[54] **ISOLATION HOUSING FOR PATIENT HAVING A CONTAGIOUS DISEASE**
[54] **LOGEMENT D'ISOLEMENT POUR PATIENT ATTEINT D'UNE MALADIE CONTAGIEUSE**
[72] MARSOLAIS, PIERRE, CA
[72] HOFFMANN-ZUKOWSKI, MARC, CA
[71] MARSOLAIS, PIERRE, CA
[71] HOFFMANN-ZUKOWSKI, MARC, CA
[22] 2020-08-07
[41] 2022-02-07

[21] **3,089,493**
[13] A1
[51] **Int.Cl. G01N 17/04 (2006.01)**
[25] EN
[54] **CONCRETE CORROSION SENSOR**
[54] **CAPTEUR DE CORROSION DU BETON**
[72] KENNELL, GLYN F., CA
[71] KENNELL, GLYN F., CA
[22] 2020-08-10
[41] 2022-02-10

[21] **3,089,691**
[13] A1
[51] **Int.Cl. B03B 5/62 (2006.01) E02F 5/28 (2006.01) E02F 5/30 (2006.01)**
[25] EN
[54] **BUCKET FOR COLLECTION OF HEAVY MINERALS IN FLOWING WATER**
[54] **BENNE POUR LA COLLECTION DE MINERAIS LOURDS DANS L'EAU COULANTE**
[72] KLYNE, KENNETH M., CA
[71] KLYNE, KENNETH M., CA
[22] 2020-08-11
[41] 2022-02-11

[21] **3,089,733**
[13] A1
[51] **Int.Cl. E04F 15/18 (2006.01)**
[25] EN
[54] **DECOUPLING MAT AND FLOOR STRUCTURE, IN PARTICULAR IN A BUILDING WITH A DECOUPLING MAT**
[54] **TAPIS DE DESOLIDARISATION ET CONSTRUCTION DE PLANCHER, EN PARTICULIER DANS UN BATIMENT DOTE D'UN TAPIS DE DESOLIDARISATION**
[72] RITTMANN, FRANK, DE
[72] WENDT, JOHANNES, DE
[72] MECKELER, DANIEL, DE
[72] RUECKER, ANDREA, DE
[71] GEBRUEDER JAEGER GMBH, DE
[22] 2020-08-11
[41] 2022-02-11

[21] **3,089,755**
[13] A1
[51] **Int.Cl. E04H 1/12 (2006.01) A47K 3/28 (2006.01)**
[25] EN
[54] **COMPACT CABIN**
[54] **CABINE COMPACTE**
[72] KOCAGOZ, NUSRET SUKRU, TR
[71] OZ HAMAM HOLDINGS INC., CA
[22] 2020-08-07
[41] 2022-02-07

[21] **3,089,839**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **CREDIT-BASED INSTALLMENT FINANCING**
[54] **FINANCEMENT PAR VERSEMENTS A BASE DE CREDIT**
[72] BOUCHARD, SEBASTIEN, CA
[72] MALEKI, ASGAR, CA
[72] DOYLE, HAYLEY F., CA
[72] ALDROVANDI, JACQUELINE HANNAH LEE, CA
[72] COKER, OTIS P., CA
[72] AULAKH, JASPREET KAUR, CA
[72] ANEZ, JOSUE DAVID, CA
[72] BURTON, JEFFREY STUART, CA
[72] ARIAS, LAURA MARIE AQUINO, CA
[72] WOODS, MICHAEL, CA
[72] HANNA, SHEIRLINE, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-08-12
[41] 2022-02-12

[21] **3,089,845**
[13] A1
[51] **Int.Cl. G06Q 50/34 (2012.01) G06Q 30/06 (2012.01) G06Q 20/00 (2012.01)**
[25] EN
[54] **EVENT BASED GAMBLING METHOD WITH DECREASED HOUSE LIABILITY**
[54] **METHODE DE JEU DE HASARD PRESENTANT UN ENGAGEMENT REDUIT POUR LE CASINO**
[72] TRAPP, BEAR, CA
[72] DERGES, RAY, CA
[71] TRAPP, BEAR, CA
[71] DERGES, RAY, CA
[22] 2020-08-12
[41] 2022-02-12

[21] **3,089,855**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) H04W 4/30 (2018.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING A GRAPHICAL USER INTERFACE**
[54] **SYSTEME ET PROCEDE PERMETTANT DE FOURNIR UNE INTERFACE UTILISATEUR GRAPHIQUE**
[72] ODOBETSKIY, KYRYLL, CA
[72] BAKHLE, ANIL STEWART, CA
[72] CHEUNG, AMANDA HOI MAN, CA
[72] BROTHERSTON, DANIEL SCOTT, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-08-12
[41] 2022-02-12

[21] **3,089,860**
[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) A45C 11/00 (2006.01) A45C 11/24 (2006.01)**
[25] EN
[54] **MOBILE DEVICE CASE LIGHT THERAPY PROJECTOR (WHITE LIGHT, THERAPEUTIC CAPACITY 10,000 LUX)**
[54] **PROJECTEUR DE PHOTOTHERAPIE EN FORME DE BOITIER DE DISPOSITIF MOBILE (LUMIERE BLANCHE, CAPACITE THERAPEUTIQUE DE 10 000 LUX)**
[72] COOPER, ERIN R., CA
[71] COOPER, ERIN R., CA
[22] 2020-08-12
[41] 2022-02-12

[21] **3,089,867**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **PRESSURIZED BEVERAGE DISPENSER**
[54] **DISTRIBUTEUR DE BREUVAGE SOUS PRESSION**
[72] MILLER, BRAD, CA
[71] ADVANTEC GLOBAL INNOVATIONS INC., CA
[22] 2020-08-12
[41] 2022-02-12

[21] **3,089,879**
[13] A1
[51] **Int.Cl. H04W 4/38 (2018.01) H04W 4/14 (2009.01) H04W 84/22 (2009.01) A01K 63/04 (2006.01) G05B 19/042 (2006.01)**
[25] EN
[54] **HOLDING TANK MONITORING SYSTEM BASED ON WIRELESS SENSOR NETWORK AND MONITORING METHOD**
[54] **SYSTEME DE SURVEILLANCE DE BASSIN DE RETENTION FONDE SUR UN RESEAU DE CAPTEURS SANS FIL ET METHODE DE SURVEILLANCE**
[72] WANG, LISHAO, CA
[72] CHENG, XIAOGE, CN
[72] LIU, SHIWEI, US
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[71] MARINE THINKING INC., CA
[22] 2020-08-12
[41] 2022-02-12

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[21] **3,089,917**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01) A01C 5/08 (2006.01)**
[25] EN
[54] **APPARATUS FOR ADJUSTING SEED AND FERTILIZER DEPTHS**
[54] **APPAREIL POUR AJUSTER LA PROFONDEUR DE GRAINE ET D'ENGRAIS**
[72] CRESSWELL, MARK, CA
[72] LUNG, DEVIN, CA
[71] BOURGAULT INDUSTRIES LTD., CA
[22] 2020-08-11
[41] 2022-02-11

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[21] **3,089,919**
[13] A1
[51] **Int.Cl. A01C 5/08 (2006.01) A01C 5/06 (2006.01)**
[25] EN
[54] **OPTIMIZING RELATIVE PLACEMENT OF SEEDS AND FERTILIZERS**
[54] **OPTIMISATION DU PLACEMENT RELATIF DES GRAINES ET DES ENGRAIS**
[72] CRESSWELL, MARK, CA
[72] LUNG, DEVIN, CA
[71] BOURGAULT INDUSTRIES LTD., CA
[22] 2020-08-11
[41] 2022-02-11

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[21] **3,090,632**
[13] A1
[51] **Int.Cl. A01K 13/00 (2006.01) A45D 24/10 (2006.01)**
[25] EN
[54] **NOVEL PET COMB WITH ILLUMINATION AND ULTRAVIOLET STERILIZATION LAMP**
[54] **NOUVEAU PEIGNE POUR ANIMAL DE COMPAGNIE AVEC ILLUMINATION ET LAMPE DE STERILISATION A RAYONNEMENT ULTRAVIOLET**
[72] NG, KI CHURK, CN
[71] JIANGMEN FURONG ELECTRICAL PRODUCTS COMPANY LIMITED, CN
[22] 2020-08-20
[41] 2022-02-08
[30] CN (202010792126.2) 2020-08-08

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[21] **3,094,647**
[13] A1
[51] **Int.Cl. F16L 37/23 (2006.01) F16L 37/40 (2006.01)**
[25] EN
[54] **UNIVERSAL QUICK CONNECTOR**
[54] **CONNECTEUR RAPIDE UNIVERSEL**
[72] JIANG, CHANGGUO, CN
[72] XU, SHIFANG, CN
[71] NINGBO SINPPA TECHNOLOGY CO., LTD., CN
[22] 2020-09-25
[41] 2022-02-11
[30] CN (2020107989655) 2020-08-11

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[21] **3,097,109**
[13] A1
[51] **Int.Cl. G09B 21/02 (2006.01) G09B 1/00 (2006.01)**
[25] EN
[54] **BRAILLE TEACHING MATERIAL AND METHOD OF MANUFACTURING SAME**
[54] **MATERIEL D'ENSEIGNEMENT DU BRAILLE ET PROCEDE DE FABRICATION**
[72] SEO, IN SIK, KR
[72] CHO, JI YUN, KR
[71] SENSEE, INC., KR
[22] 2020-10-23
[41] 2022-02-10
[30] KR (10-2020-0100057) 2020-08-10

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[21] **3,098,763**
[13] A1
[51] **Int.Cl. H04W 4/12 (2009.01) H04W 64/00 (2009.01) G06Q 20/32 (2012.01) H04W 4/021 (2018.01) H04L 12/16 (2006.01)**
[25] EN
[54] **REAL-TIME DETERMINATION OF COUNTERPARTY GEOLOCATION BASED ON STRUCTURED MESSAGING DATA**
[54] **DETERMINATION EN TEMPS REEL D'UNE GEOLOCATION DE CONTREPARTIE FONDEE SUR DES DONNEES DE MESSAGERIE STRUCTUREES**
[72] JONES, CHRISTOPHER MARK, CA
[72] BAIRD, BARRY WAYNE, JR, CA
[72] LAWRENCE, CLAUDE BERNELL, JR, CA
[72] PRENDERGAST, JONATHAN JOSEPH, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-11-11
[41] 2022-02-10
[30] US (63/063,754) 2020-08-10
[30] US (17/082,587) 2020-10-28

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[21] **3,100,028**
[13] A1
[51] **Int.Cl. C10M 171/02 (2006.01) C10M 145/02 (2006.01) C10M 145/14 (2006.01) C10M 149/10 (2006.01)**
[25] EN
[54] **POLYMERIC SURFACTANTS FOR IMPROVED EMULSION AND FLOW PROPERTIES AT LOW TEMPERATURES**
[54] **AGENTS DE SURFACE POLYMERES POUR AMELIORER LES CARACTERISTIQUES D'EMULSION ET D'ECOULEMENT A BASSES TEMPERATURES**
[72] BAI, YUNHAI, US
[72] REMIAS, JOSEPH, US
[72] TRAN, YEN, US
[72] JAMES, AMY M., US
[72] ENGELMAN, KRISTI, US
[71] AFTON CHEMICAL CORPORATION, US
[22] 2020-11-19
[41] 2022-02-12
[30] US (63/064777) 2020-08-12
[30] US (17/072705) 2020-10-16

[21] **3,101,162**
[13] A1
[51] **Int.Cl. B32B 27/04 (2006.01) B32B 27/02 (2006.01) B32B 27/08 (2006.01) B32B 27/18 (2006.01) D06B 1/00 (2006.01)**
[25] EN
[54] **POLYPROPYLENE ENVIRONMENTALLY FRIENDLY ADVERTISING CLOTH**
[54] **TISSU DE PUBLICITE SANS DANGER POUR L'ENVIRONNEMENT FAIT DE POLYPROPYLENE**
[72] LIN, I-CHIEN, CN
[71] TAYA CANVAS (SHANGHAI) COMPANY LIMITED, CN
[22] 2020-11-30
[41] 2022-02-07
[30] TW (109126968) 2020-08-07

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[21] **3,105,996**
[13] A1
[51] **Int.Cl. G06Q 40/06 (2012.01) G06F 16/90 (2019.01)**
[25] EN
[54] **EVENT-DRIVEN COMPUTER MODELING SYSTEM FOR TIME SERIES DATA**
[54] **SYSTEME DE MODELISATION INFORMATIQUE AXE SUR LES EVENEMENTS POUR DES DONNEES EN SERIE CHRONOLOGIQUE**
[72] KULA, JOHN SCOTT, US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-01-18
[41] 2022-02-06
[30] US (16/987,356) 2020-08-06

---

[21] **3,109,784**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G06Q 50/34 (2012.01)**
[25] EN
[54] **EVENT BASED GAMBLING METHOD WITH DECREASED HOUSE LIABILITY**
[54] **METHODE DE JEU DE HASARD PRESENTANT UN ENGAGEMENT REDUIT POUR LE CASINO**
[72] TRAPP, BEAR, CA
[72] DERGES, RAY, CA
[71] TRAPP, BEAR, CA
[71] DERGES, RAY, CA
[22] 2021-02-21
[41] 2022-02-12
[30] CA (3089845) 2020-08-12

---

[21] **3,119,023**
[13] A1
[51] **Int.Cl. F02C 9/18 (2006.01) F02C 6/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING A BLEED-OFF VALVE OF A GAS TURBINE ENGINE**
[54] **SYSTEME ET METHODE POUR CONTROLER UN ROBINET DE PURGE D'UNE TURBINE A GAZ**
[72] ARULSUTHAN, TIMOTHY, CA
[72] ROY, BENJAMIN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-05-18
[41] 2022-02-12
[30] US (16/991,237) 2020-08-12

---

[21] **3,119,216**
[13] A1
[51] **Int.Cl. F16L 55/07 (2006.01) F16K 11/20 (2006.01) F16L 41/02 (2006.01) F16L 55/052 (2006.01)**
[25] EN
[54] **EXPANSION TANK SERVICE VALVE ASSEMBLY**
[54] **ASSEMBLAGE DE ROBINET DE SERVICE DE VASE D'EXPANSION**
[72] TERRY, ANDREW J., US
[72] COATES, ANDREW J., US
[72] MASON, CHRISTOPHER W., US
[71] NIBCO INC., US
[22] 2021-05-20
[41] 2022-02-10
[30] US (16/988.989) 2020-08-10

---

[21] **3,119,283**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR SMART API POLLING FOR PREDICTED DELIVERY EVENTS**
[54] **METHODES ET SYSTEMES DE SONDAGE INTELLIGENT DES API POUR DES EVENEMENTS DE LIVRAISON PREVUS**
[72] YACOUB, GEORGE, CA
[72] YU, PENG, CA
[72] AZARBAR, ALI KIYAN, CA
[72] KHACHIKYAN, VAHE, CA
[72] GHORBANI, SIAVASH, CA
[71] SHOPIFY INC., CA
[22] 2021-05-20
[41] 2022-02-12
[30] US (16/991185) 2020-08-12
[30] EP (21169618.2) 2021-04-21

---

[21] **3,119,419**
[13] A1
[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 50/30 (2012.01) B60S 5/00 (2006.01)**
[25] EN
[54] **VEHICLE SERVICE AUTHORIZATION**
[54] **AUTORISATION DE SERVICE DE VEHICULE**
[72] VANDERVEEN, MICHAELA, CA
[72] BARRETT, STEPHEN JOHN, CA
[71] BLACKBERRY LIMITED, CA
[22] 2021-05-19
[41] 2022-02-07
[30] US (16/988,161) 2020-08-07

---

[21] **3,120,556**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) A63F 13/20 (2014.01) A63F 13/52 (2014.01) A63F 13/825 (2014.01) G06F 3/01 (2006.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COLLABORATING PHYSICAL-VIRTUAL INTERFACES**
[54] **SYSTEMES ET METHODES D'INTERFACES PHYSIQUES-VIRTUELLES EN COLLABORATION**
[72] NAGENDRAN, ARJUN, US
[72] KELLY, BRIAN D., US
[71] MURSION, INC., US
[22] 2021-06-02
[41] 2022-02-07
[30] US (16/987,815) 2020-08-07

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[21] **3,121,451**
[13] A1
[51] **Int.Cl. A24F 1/30 (2006.01) A24F 1/32 (2006.01)**
[25] EN
[54] **SMOKING APPARATUSES AND RELATED KITS AND METHODS**
[54] **APPAREILS POUR FUMER ET TROUSSES ET METHODES CONNEXES**
[72] WAYKEN, BLASE, CA
[72] WAYKEN, KASTEN, CA
[71] BRO9 TECHNOLOGIES INC., CA
[22] 2021-06-08
[41] 2022-02-10
[30] US (63/063,481) 2020-08-10

[21] **3,121,864**
[13] A1
[51] **Int.Cl. H01R 13/46 (2006.01) G02B 6/36 (2006.01) G02B 6/44 (2006.01) H01R 13/58 (2006.01)**
[25] EN
[54] **PLUG CONNECTOR PART FOR AN OPTICAL AND/OR ELECTRICAL PLUG CONNECTION**
[54] **FICHE POUR UNE FICHE OPTIQUE ET/OU ELECTRIQUE**
[72] KOCH, MATTHIAS, AT
[71] NEUTRIK AG, LI
[22] 2021-06-11
[41] 2022-02-07
[30] AT (A 50665/2020) 2020-08-07

---

[21] **3,122,677**
[13] A1
[51] **Int.Cl. A01D 82/02 (2006.01) G01B 5/14 (2006.01)**
[25] EN
[54] **MECHANISM FOR SENSING VIBRATION IN CONDITIONER ROLLERS**
[54] **MECANISME DE DETECTION DES VIBRATIONS DANS LES ROULEAUX DE CONDITIONNEMENT**
[72] LOVETT, BENJAMIN M., US
[72] ROTH, DARIN L., US
[72] EICK, BRONSON C., US
[71] DEERE & COMPANY, US
[22] 2021-06-17
[41] 2022-02-11
[30] US (16/947,644) 2020-08-11

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[21] **3,123,065**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01) G06F 17/00 (2019.01)**
[25] EN
[54] **REAL TIME MULTIPLE AGENT ENGAGEMENT DECISION SYSTEM**
[54] **SYSTEME DE DECISION D'ENGAGEMENT DE MULTIPLES AGENTS EN TEMPS REEL**
[72] HUI, LEO H., US
[72] KRIKORIAN, HAIG FRANCIS, US
[71] THE BOEING COMPANY, US
[22] 2021-06-22
[41] 2022-02-07
[30] US (63/062,658) 2020-08-07

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[21] **3,123,068**
[13] A1
[51] **Int.Cl. B60W 30/09 (2012.01) B60W 60/00 (2020.01) G05D 1/02 (2020.01)**
[25] EN
[54] **COLLISION AVOIDANCE BASED ON CENTRALIZED COORDINATION OF VEHICLE OPERATIONS**
[54] **EVITEMENT DE COLLISION EN FONCTION DE LA COORDINATION CENTRALISEE DES OPERATIONS D'UN VEHICULE**
[72] HUI, LEO HO CHI, US
[72] KRIKORIAN, HAIG FRANCIS, US
[71] THE BOEING COMPANY, US
[22] 2021-06-22
[41] 2022-02-07
[30] US (63/062,685) 2020-08-07

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[21] **3,123,712**
[13] A1
[51] **Int.Cl. B64C 1/26 (2006.01) B64C 1/06 (2006.01)**
[25] EN
[54] **CFRP FUSELAGE FRAME WITH SECUREMENT TO VERTICAL TAIL FIN**
[54] **CHASSIS DE FUSELAGE DE RESINE POLYMERE EN FIBRE DE CARBONE ET FIXATION A LA DERIVE DE L'EMPENNAGE VERTICAL**
[72] DIEP, PAUL, US
[72] PHAM, PHIYEN T., US
[71] THE BOEING COMPANY, US
[22] 2021-06-30
[41] 2022-02-12
[30] US (63/064,711) 2020-08-12

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[21] **3,123,918**
[13] A1
[51] **Int.Cl. F16H 55/56 (2006.01) F16H 61/662 (2006.01)**
[25] EN
[54] **FLYWEIGHTS, CVT CLUTCHES, AND METHODS OF TUNING FLYWEIGHTS**
[54] **MASSELOTTES, EMBRAYAGES DE TRANSMISSION A VARIATION CONTINUE ET METHODE DE MISE AU POINT DES MASSELOTTES**
[72] ROBERTS, ALLEN, US
[71] STARTING LINE PRODUCTS, INC., US
[22] 2021-07-07
[41] 2022-02-12
[30] US (16/947,673) 2020-08-12

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[21] **3,124,166**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01) A61B 17/072 (2006.01)**
[25] EN
[54] **SURGICAL STAPLING DEVICE WITH ARTICULATION BRAKING ASSEMBLY**
[54] **AGRAFEUSE CHIRURGICALE AVEC ASSEMBLAGE DE FREIN D'ARTICULATION**
[72] FERNANDES, ROANIT, IN
[72] KUMAR, LAVANYA KRISHNA, IN
[71] COVIDIEN LP, US
[22] 2021-07-07
[41] 2022-02-07
[30] US (16/987,798) 2020-08-07

[21] **3,124,198**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 30/04 (2012.01) H02J 50/10 (2016.01) G06F 1/28 (2006.01)**
[25] EN
[54] **INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING METHOD, AND POWER SUPPLY EQUIPMENT**
[54] **DISPOSITIF, SYSTEME ET METHODE DE TRAITEMENT D'INFORMATION, ET MATERIEL D'ALIMENTATION**
[72] SAKURADA, SHIN, JP
[72] BABA, YASUHIRO, JP
[72] SAWADA, SHUICHI, JP
[72] MATSUTANI, SHINTARO, JP
[72] TANAKA, YURIKA, JP
[72] KOBAYASHI, RYOSUKE, JP
[72] KUNO, GENSHI, JP
[72] MAKINO, TOMOYA, JP
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[22] 2021-07-08
[41] 2022-02-07
[30] JP (2020-135385) 2020-08-07

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[21] **3,124,504**
[13] A1
[51] **Int.Cl. H02S 40/34 (2014.01) H02S 40/20 (2014.01) H02S 40/36 (2014.01) H01L 31/042 (2014.01)**
[25] EN
[54] **FEED-THROUGH WIRING SOLUTION FOR SOLAR CELL MODULES**
[54] **SOLUTION DE CABLAGE D'ALIMENTATION POUR DES MODULES DE CELLULES PHOTOVOLTAIQUES**
[72] BARDFIELD, RINA S., US
[71] THE BOEING COMPANY, US
[22] 2021-07-13
[41] 2022-02-11
[30] US (63/064,088) 2020-08-11
[30] US (17/348,192) 2021-06-15

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[21] **3,125,421**
[13] A1
[51] **Int.Cl. B25C 1/08 (2006.01) B25C 5/10 (2006.01)**
[25] EN
[54] **FASTENER DRIVING TOOL**
[54] **OUTIL D'ENTRAINEMENT D'ATTACHES**
[72] GRANDJEAN, PASCALE, US
[72] CARTIER, MEDERIC, US
[72] NONY, ROMAIN, US
[71] ILLINOIS TOOL WORK INC., US
[22] 2021-07-21
[41] 2022-02-11
[30] EP (EP20190451) 2020-08-11
[30] EP (EP21175842) 2021-05-26

---

[21] **3,125,717**
[13] A1
[51] **Int.Cl. G01S 1/04 (2006.01)**
[25] EN
[54] **ELORAN RECEIVER WITH TUNED ANTENNA AND RELATED METHODS**
[54] **RECEPTEUR ELORAN AVEC ANTENNE AJUSTEE ET METHODES CONNEXES**
[72] PARSCHE, FRANCIS E., US
[71] EAGLE TECHNOLOGY, LLC, US
[22] 2021-07-22
[41] 2022-02-11
[30] US (16/990,151) 2020-08-11

---

[21] **3,125,841**
[13] A1
[51] **Int.Cl. B66B 1/00 (2006.01) B66B 3/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISPATCHING ELEVATORS**
[54] **SYSTEMES ET METHODES POUR ASCENSEURS DE PARC DE STATIONNEMENT**
[72] APPANA JR., AMARNAUTH, US
[71] APPANA INDUSTRIES LLC, US
[22] 2021-07-23
[41] 2022-02-07
[30] US (63/062,734) 2020-08-07

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[21] **3,126,246**
[13] A1
[51] **Int.Cl. G06F 8/65 (2018.01) H04H 60/33 (2009.01) H04W 4/00 (2018.01) H04W 4/02 (2018.01) G06F 8/60 (2018.01) G06F 16/40 (2019.01) H04W 12/126 (2021.01) G06F 11/30 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **RULES-BASED JUST-IN-TIME MOBILE CONTENT SERVICE**
[54] **SERVICE DE CONTENU MOBILE JUSTE-A-TEMPS EN FONCTION DE REGLES**
[72] CHAUHAN, KANAKRAI, US
[72] AWASTHI, ANKIT, US
[71] T-MOBILE USA, INC., US
[22] 2021-07-29
[41] 2022-02-12
[30] US (16/991,950) 2020-08-12
[30] US (16/991,960) 2020-08-12
[30] US (17/094,732) 2020-11-10

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[21] **3,126,265**
[13] A1
[51] **Int.Cl. G01V 5/04 (2006.01) E21B 47/013 (2012.01)**
[25] EN
[54] **GAMMA RAY LOGGING TOOL WITH DETECTOR WINDOW**
[54] **APPAREIL DE DIAGRAPHIE A RAYONS GAMMA AVEC FENETRE DE DETECTEUR**
[72] KNIZHNIK, SERGEI, US
[72] MORYS, MARIAN L., US
[71] NABORS DRILLING TECHNOLOGIES USA, INC., US
[22] 2021-07-29
[41] 2022-02-07
[30] US (63/062,904) 2020-08-07

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[21] **3,126,370**
[13] A1
[51] **Int.Cl. B60K 6/38 (2007.10) B60K 6/20 (2007.10) B60K 6/50 (2007.10)**
[25] EN
[54] **HYBRID ELECTRIC/COMBUSTION PROPULSION AND ELECTRIC GENERATOR APPARATUS**
[54] **PROPULSION A COMBUSTION/ELECTRIQUE ET APPAREIL DE PRODUCTION ELECTRIQUE HYBRIDES**
[72] FANARA, ROBERTO, CA
[71] CUSTOMACHINERY INC., CA
[22] 2021-07-29
[41] 2022-02-06
[30] US (63/062,331) 2020-08-06

[21] **3,126,518**
[13] A1
[51] **Int.Cl. F21V 21/02 (2006.01) F21K 9/00 (2016.01) H05B 45/37 (2020.01) F21S 8/04 (2006.01) F21S 9/02 (2006.01) F21V 17/12 (2006.01) F21V 17/14 (2006.01) H01R 39/00 (2006.01) H02J 9/00 (2006.01)**
[25] EN
[54] **MULTIFUNCTION LED LIGHTING DEVICE**
[54] **DISPOSITIF D'ECLAIRAGE A DEL MULTIFONCTIONNEL**
[72] CATTIVELLI, FABRIZIO, IT
[72] LEALI, GIOVANNI, IT
[72] PELLEGRINI, EMANUELE, IT
[72] PELLEGRINI, ILENIA, IT
[72] PELLEGRINI, MATTEO, IT
[71] FOND-PELL SRL, IT
[22] 2021-07-30
[41] 2022-02-06
[30] IT (102020000019426) 2020-08-06

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[21] **3,126,519**
[13] A1
[51] **Int.Cl. C08J 7/02 (2006.01) B41F 17/00 (2006.01) C08J 7/12 (2006.01) C08J 7/043 (2020.01)**
[25] EN
[54] **METHOD FOR TREATING A PLASTIC SURFACE**
[54] **METHODE DE TRAITEMENT D'UNE SURFACE PLASTIQUE**
[72] DALE, JON, CA
[71] SPORT SYSTEMS CANADA INC., CA
[22] 2021-07-30
[41] 2022-02-06
[30] US (63/061,963) 2020-08-06

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[21] **3,126,625**
[13] A1
[51] **Int.Cl. G02F 1/01 (2006.01) G06F 13/00 (2006.01)**
[25] EN
[54] **VARIABLE OPTICAL ATTENUATOR ASSISTED CONTROL OF OPTICAL DEVICES**
[54] **COMMANDE DE DISPOSITIFS OPTIQUES ASSISTEE PAR UN ATTENUATEUR OPTIQUE VARIABLE**
[72] CAO, BIN, CA
[71] RANOVUS INC., CA
[22] 2021-08-03
[41] 2022-02-06
[30] US (16/986513) 2020-08-06

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[21] **3,126,655**
[13] A1
[51] **Int.Cl. H04B 7/17 (2006.01) H03H 17/02 (2006.01) H04B 1/50 (2006.01)**
[25] EN
[54] **PARALLEL FILTERING FOR POWER DISTRIBUTION AND ISOLATION**
[54] **FILTRAGE EN PARALLELE POUR LA DISTRIBUTION ET L'ISOLATION DE PUISSANCE**
[72] ASHWORTH, CHRISTOPHER KEN, US
[72] ANDERSON, DALE ROBERT, US
[72] NORDGRAN, CASEY JAMES, US
[71] WILSON ELECTRONICS, LLC., US
[22] 2021-08-04
[41] 2022-02-06
[30] US (63/062,274) 2020-08-06

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[21] **3,126,660**
[13] A1
[51] **Int.Cl. C10M 159/12 (2006.01) C10M 133/44 (2006.01) C10M 171/02 (2006.01)**
[25] EN
[54] **PHOSPHORYLATED DISPERSANTS IN FLUIDS FOR ELECTRIC VEHICLES**
[54] **PRODUITS DISPERSANTS PHOSPHORYLES DANS LES FLUIDES DE VEHICULES ELECTRIQUES**
[72] ADACHI, TSUNEO, US
[72] SCHMID, LESLEY, US
[72] MITSUI, HIDEAKI, US
[72] CLEVELAND, CHRISTOPHER, US
[72] ADHVARYU, ATANU, US
[71] AFTON CHEMICAL CORPORATION, US
[22] 2021-08-04
[41] 2022-02-07
[30] US (16/988155) 2020-08-07

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[21] **3,126,806**
[13] A1
[51] **Int.Cl. F16H 7/02 (2006.01) F02B 63/00 (2006.01) F02B 63/04 (2006.01) F16M 3/00 (2006.01)**
[25] EN
[54] **LOW NOISE POWER SYSTEMS AND ASSOCIATED METHOD**
[54] **BLOCS D'ALIMENTATION SILENCIEUX ET METHODE CONNEXE**
[72] JOCHMAN, NATHAN JOE, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-08-05
[41] 2022-02-06
[30] US (63/062,079) 2020-08-06
[30] US (17/385,041) 2021-07-26

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[21] **3,126,816**
[13] A1
[51] **Int.Cl. A62C 2/10 (2006.01)**
[25] EN
[54] **SELF-SEALING MULTI-SEGMENT RETRACTABLE FIRE CURTAIN**
[54] **RIDEAU PARE-FLAMMES RETRACTABLE MULTISEGMENT AUTOSCELLANT**
[72] LAMBRIDIS, ANDREW C., US
[72] GOMAA, ASHRAF, US
[72] ESCOBAR, OSCAR, US
[71] MCKEON ROLLING STEEL DOOR CO., INC., US
[22] 2021-08-05
[41] 2022-02-10
[30] US (63/063,707) 2020-08-10

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[21] **3,126,825**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01)**
[25] EN
[54] **GRAPHICAL USER INTERFACES FOR GENERATING A PURCHASE ORDER**
[54] **INTERFACES UTILISATEUR GRAPHIQUES POUR LA PRODUCTION DE BONS DE COMMANDE**
[72] HAUCK, SCOTT W., US
[72] DESAI, SAGAR, US
[71] DNOW L.P., US
[22] 2021-08-05
[41] 2022-02-06
[30] US (63/062.248) 2020-08-06
[30] US (17/388,508) 2021-07-29

[21] **3,126,831**
[13] A1
[51] **Int.Cl. B05D 3/10 (2006.01) B05D 1/02 (2006.01) B05D 3/12 (2006.01) B08B 3/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SURFACE CLEANING AND COATING**
[54] **SYSTEMES ET METHODES DE NETTOYAGE ET DE REVETEMENT DE SURFACE**
[72] DAVIES, GORDON W., US
[71] GLOBAL BARRIER SERVICES, INC., US
[22] 2021-08-05
[41] 2022-02-06
[30] US (63/061,891) 2020-08-06

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[21] **3,126,836**
[13] A1
[51] **Int.Cl. H04W 24/04 (2009.01) H04W 28/04 (2009.01) H04W 28/12 (2009.01) H04L 1/22 (2006.01)**
[25] EN
[54] **METHOD FOR ROBUSTLY TRANSMITTING DIGITIZED SIGNAL SAMPLES IN AN RF COMMUNICATION SYSTEM**
[54] **METHODE POUR LA TRANSMISSION ROBUSTE D'ECHANTILLONS DE SIGNAUX NUMERIQUES DANS UN SYSTEME DE COMMUNICATION A RADIOFREQUENCES**
[72] ARNAL, FABRICE, FR
[72] VAN WAMBEKE, NICOLAS, FR
[72] ROGNANT, PIERRE, FR
[71] THALES, FR
[22] 2021-08-05
[41] 2022-02-06
[30] FR (2008323) 2020-08-06

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[21] **3,126,838**
[13] A1
[51] **Int.Cl. H04W 76/14 (2018.01) H04W 16/28 (2009.01) H04B 7/185 (2006.01)**
[25] EN
[54] **PROCEDURE FOR ENTRY INTO A SATCOM NETWORK EMPLOYING BEAM HOPPING**
[54] **PROCEDURE D'ENTREE DANS UN RESEAU DE TELECOMMUNICATION PAR SATELLITE UTILISANT LA COMMUTATION DE FAISCEAU**
[72] BAUDOIN, CEDRIC, FR
[72] LEVY, JEAN-CHRISTOPHE, FR
[72] COULOMB, BERNARD, FR
[72] QUIGNON, THIERRY, FR
[72] LECONTE, MATHIEU, FR
[72] GINESTE, MATHIEU, FR
[72] WAUTELET, XAVIER, FR
[71] THALES, FR
[22] 2021-08-05
[41] 2022-02-06
[30] FR (2008318) 2020-08-06

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[21] **3,126,852**
[13] A1
[51] **Int.Cl. F02B 67/06 (2006.01) F02B 63/00 (2006.01) F02B 63/04 (2006.01) F02B 77/13 (2006.01) F16H 7/02 (2006.01) F16H 35/00 (2006.01) F16M 3/00 (2006.01)**
[25] EN
[54] **LOW NOISE POWER SYSTEMS AND ASSOCIATED METHODS**
[54] **BLOCS D'ALIMENTATION SILENCIEUX ET METHODES CONNEXES**
[72] JOCHMAN, NATHAN JOE, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-08-05
[41] 2022-02-06
[30] US (63/062,149) 2020-08-06
[30] US (17/385,174) 2021-07-26

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[21] **3,126,858**
[13] A1
[51] **Int.Cl. F01P 5/06 (2006.01) F01P 1/06 (2006.01) F01P 5/04 (2006.01) F02B 63/00 (2006.01) F02B 63/04 (2006.01) F16M 1/00 (2006.01) F16M 3/00 (2006.01)**
[25] EN
[54] **POWER SYSTEMS AND ENCLOSURES HAVING CONFIGURABLE AIR FLOW**
[54] **BLOCS D'ALIMENTATION ET ENCEINTES AYANT UN DEBIT D'AIR CONFIGURABLE**
[72] JOCHMAN, NATHAN JOE, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-08-05
[41] 2022-02-06
[30] US (63/062,090) 2020-08-06
[30] US (17/385,073) 2021-07-26

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[21] **3,126,862**
[13] A1
[51] **Int.Cl. F04B 47/08 (2006.01) E21B 43/12 (2006.01) F04B 53/10 (2006.01) F04F 1/08 (2006.01)**
[25] EN
[54] **HYBRID HYDRAULIC GAS PUMP SYSTEM**
[54] **SYSTEME DE POMPE HYDRAULIQUE A GAZ HYBRIDE**
[72] WILTSE, DARREN JAMES, CA
[72] HALL, DAVID, CA
[71] LIFT PLUS ENERGY SOLUTIONS, LTD, CA
[22] 2021-08-05
[41] 2022-02-06
[30] US (16/987,200) 2020-08-06

[21] **3,126,965**
[13] A1
[51] **Int.Cl. H01M 8/2432 (2016.01) H01M 8/0202 (2016.01) H01M 8/0271 (2016.01) H01M 8/1246 (2016.01) H01M 8/2483 (2016.01) C25B 9/65 (2021.01) C25B 9/73 (2021.01) C25B 13/07 (2021.01)**
[25] FR
[54] **ELECTROLYSIS OR CO-ELECTROLYSIS REACTOR (SOEC) OR FUEL CELL (SOFC) WITH ELECTROCHEMICAL CELL STACK USING PREASSEMBLED MODULES, ASSOCIATED IMPLEMENTATION PROCESS**
[54] **REACTEUR D'ELECTROLYSE OU DE CO-ELECTROLYSE (SOEC) OU PILE A COMBUSTIBLE (SOFC) A EMPILEMENT DE CELLULES ELECTOCHIMIQUES PAS MODULES PREASEMBLES, PROCEDE DE REALISATION ASSOCIE**
[72] DI IORIO, STEPHANE, FR
[72] MONNET, THIBAULT, FR
[72] ORESIC, BRUNO, FR
[72] SZYNAL, PHILIPPE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[22] 2021-08-04
[41] 2022-02-11
[30] FR (2008424) 2020-08-11

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[21] **3,126,970**
[13] A1
[51] **Int.Cl. B07B 4/04 (2006.01) B07B 13/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR THE GRAVIMETRIC SORTING OF A MIXTURE OF SUBSTANCES**
[54] **SYSTEME ET METHODE POUR LE TRI GRAVIMETRIQUE D'UN MELANGE DE SUBSTANCES**
[72] TROJOSKY, MATHIAS, DE
[72] OBERER, THOMAS, DE
[72] SEBASTIAN DE LA SIERRA, MANUEL, ES
[71] ALLGAIER WERKE GMBH, DE
[22] 2021-08-05
[41] 2022-02-11
[30] DE (102020004891.9) 2020-08-11

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[21] **3,126,974**
[13] A1
[51] **Int.Cl. C09J 7/10 (2018.01) C09J 7/30 (2018.01) B32B 7/12 (2006.01) F41H 5/04 (2006.01)**
[25] EN
[54] **LOW THERMAL EXPANSION FILM ADHESIVES FOR MULTILAYER TRANSPARENT ARMOUR AND RELATED APPLICATIONS**
[54] **ADHESIFS EN FILM A DILATATION THERMIQUE FAIBLE POUR UNE ARMURE TRANSPARENTE MULTICOUCHE ET APPLICATIONS CONNEXES**
[72] ASHRAFI, BEHNAM, CA
[72] MARTINEZ-RUBI, YADIENKA, CA
[72] JAKUBINEK, MICHAEL, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[22] 2021-08-05
[41] 2022-02-12
[30] US (63/064595) 2020-08-12

---

[21] **3,126,991**
[13] A1
[51] **Int.Cl. H04B 7/155 (2006.01) H04W 16/26 (2009.01) H03F 3/68 (2006.01)**
[25] EN
[54] **AMPLIFIER NETWORKS IN A REPEATER**
[54] **RESEAUX D'AMPLIFICATEURS DANS UN REPETEUR**
[72] ANDERSON, DALE ROBERT, US
[72] ASHWORTH, CHRISTOPHER KEN, US
[72] PATEL, ILESH V., US
[72] RAGGIO, GLEN S., US
[71] WILSON ELECTRONICS, LLC, US
[22] 2021-08-06
[41] 2022-02-06
[30] US (63/062,279) 2020-08-06

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[21] **3,126,995**
[13] A1
[51] **Int.Cl. B65B 53/02 (2006.01) B65B 25/14 (2006.01) B65D 65/40 (2006.01) B65D 71/08 (2006.01) B65D 85/08 (2006.01) C08J 7/00 (2006.01) C08J 5/18 (2006.01) C08L 23/06 (2006.01) C08L 23/12 (2006.01)**
[25] EN
[54] **BUNDLED PRODUCT AND SYSTEM AND METHOD FOR FORMING THE SAME**
[54] **PRODUIT GROUPE ET SYSTEME ET PROCEDE D'EMBALLAGE**
[72] ANKLAM, CHRIS B., US
[72] MILLER, BYRD TYLER IV, US
[72] PENSE, JUSTIN S., US
[72] SEALEY, JAMES E. II, US
[71] FIRST QUALITY TISSUE, LLC, US
[22] 2021-08-06
[41] 2022-02-06
[30] US (16/986,552) 2020-08-06

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[21] **3,126,998**
[13] A1
[51] **Int.Cl. B29B 17/00 (2006.01)**
[25] EN
[54] **METHOD FOR SOLVENT REMOVAL FROM A POLYMER SOLUTION BY INTEGRATED DRUM-DRYING EXTRUSION**
[54] **METHODE D'ELIMINATION DE SOLVANT D'UNE SOLUTION POLYMERE PAR EXTRUSION ET SECHAGE SUR CYLINDRES INTEGRES**
[72] HAGEN, HANEL, DE
[72] KLAUS, WOHNIG, DE
[71] APK AG, DE
[22] 2021-08-06
[41] 2022-02-07
[30] EP (20190065.1) 2020-08-07

[21] **3,127,001**
[13] A1
[51] **Int.Cl. B29B 17/00 (2006.01) B29B 9/00 (2006.01)**
[25] EN
[54] **METHOD FOR SOLVENT REMOVAL FROM A POLYMER SOLUTION BY INTEGRATED SIZE CLASSIFICATION AND EXTRUSION IN A PLASTIC EXTRUDER**
[54] **METHODE D'ELIMINATION DE SOLVANT D'UNE SOLUTION POLYMERE PAR CLASSEMENT DE TAILLE ET EXTRUSION INTEGRES DANS UNE MACHINE A EXTRUDER LE PLASTIQUE**
[72] HAGEN, HANEL, DE
[72] KLAUS, WOHNIG, DE
[71] APK AG, DE
[22] 2021-08-06
[41] 2022-02-07
[30] EP (20190050.3) 2020-08-07

[21] **3,127,006**
[13] A1
[51] **Int.Cl. C08J 11/08 (2006.01) B29B 17/00 (2006.01)**
[25] EN
[54] **SOLVENT-BASED RECYCLING WITH A ROLL-TO-ROLL PROCESSING STEP**
[54] **RECYCLAGE A BASE DE SOLVANT COMPRENANT UNE ETAPE DE TRAITEMENT ROULEAU-A-ROULEAU**
[72] HAGEN, HANEL, DE
[72] KLAUS, WOHNIG, DE
[71] APK AG, DE
[22] 2021-08-06
[41] 2022-02-07
[30] EP (20190071.9) 2020-08-07

[21] **3,127,010**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/026 (2006.01) A61B 5/055 (2006.01)**
[25] EN
[54] **A METHOD TO DETECT PERFUSION AND BRAIN FUNCTIONAL ACTIVITIES USING HYPERPOLARIZED 129XE MRI**
[54] **METHODE DE DETECTION LA PERFUSION ET DES ACTIVITES CEREBRALES FONCTIONNELLES PAR IRM AU MOYEN DU 129XE HYPERPOLARISE**
[72] ALBERT, MITCHELL, CA
[72] HANE, FRANCIS, CA
[72] SHEPELYTSKYI, YURII, CA
[72] LI, TAO, CA
[72] GRYNKO, VIRA, CA
[71] LAKEHEAD UNIVERSITY, CA
[22] 2021-08-06
[41] 2022-02-07
[30] US (63/062,640) 2020-08-07

[21] **3,127,021**
[13] A1
[51] **Int.Cl. B60R 13/02 (2006.01)**
[25] EN
[54] **T-FLANGE SNAP FIT FOR OUTER BELT AND DLO ASSEMBLIES TO APPLIQUE**
[54] **BRIDE EN T A AJUSTEMENT SERRE POUR UNE COURROIE EXTERIEURE ET ASSEMBLAGES DLO D'APPLICATION**
[72] ESPER, MARK F., US
[71] MAGNA EXTERIORS INC., CA
[22] 2021-08-06
[41] 2022-02-07
[30] US (63/062,880) 2020-08-07

[21] **3,127,026**
[13] A1
[51] **Int.Cl. A47B 47/00 (2006.01) A47B 81/00 (2006.01) A47G 29/00 (2006.01) B25H 3/00 (2006.01)**
[25] EN
[54] **MODULAR STORAGE SYSTEM**
[54] **SYSTEME DE RANGEMENT MODULAIRE**
[72] GROVES, JEFFREY, US
[72] JENKINS, J. LUKE, US
[72] HUGHETT, STEPHEN A., US
[72] WILLIAMS, BRIANNA E., US
[72] KNIGHT, TYLER H., US
[72] WHITMIRE, J. PORTER, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-08-06
[41] 2022-02-07
[30] US (63/062,865) 2020-08-07
[30] US (63/071,920) 2020-08-28
[30] US (63/164,145) 2021-03-22
[30] US (63/178,929) 2021-04-23

[21] **3,127,029**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) G06F 16/90 (2019.01) G06F 15/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CLOUD-BASED COLLECTION AND PROCESSING OF DIGITAL FORENSIC EVIDENCE**
[54] **SYSTEMES ET PROCEDES DE COLLECTE ET DE TRAITEMENT DANS LE NUAGE DE PREUVES MEDICOLEGALES NUMERIQUES**
[72] SALIBA, JAD JOHN, CA
[72] MACCARTHY, RANDY SHAWN, CA
[72] UZUN, TAYFUN, CA
[71] MAGNET FORENSICS INC., CA
[22] 2021-08-06
[41] 2022-02-10
[30] US (US 63/063,702) 2020-08-10

[21] **3,127,058**
[13] A1
[51] **Int.Cl. B65D 81/24 (2006.01) B65D 85/00 (2006.01)**
[25] EN
[54] **PACKAGED READY TO EAT FRESH FOOD ITEMS AND METHOD OF PACKAGING FRESH READY TO EAT FOOD ITEMS**
[54] **ALIMENTS FRAIS PRETS-A-MANGER EMBALLES ET METHODE D'EMBALLAGE**
[72] CANNON, JARED, US
[71] SAPOR FOOD GROUP, INC., US
[22] 2021-08-04
[41] 2022-02-06
[30] US (63/061,957) 2020-08-06
[30] US (17/346,401) 2021-06-14

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[21] **3,127,075**
[13] A1
[51] **Int.Cl. A01K 21/00 (2006.01)**
[25] EN
[54] **PROTECTIVE APPARATUS FOR A MALE ANIMAL**
[54] **APPAREIL PROTECTEUR POUR UN ANIMAL MALE**
[72] CONLEY, SHONA M., CA
[71] CONLEY, SHONA M., CA
[22] 2021-08-09
[41] 2022-02-10
[30] US (63/063,484) 2020-08-10

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[21] **3,127,081**
[13] A1
[51] **Int.Cl. B66F 17/00 (2006.01) B66C 1/40 (2006.01) F16B 45/00 (2006.01) F16G 11/00 (2006.01) G01L 5/103 (2020.01) G01L 5/04 (2006.01)**
[25] EN
[54] **LOAD HOLDER WITH LEVELLING MODULE AND MEASUREMENT MODULE**
[54] **PORTE-CHARGE AVEC MODULE DE RALLONGE ET MODULE DE MESURE**
[72] VOLBERG, JURGEN, DE
[72] PETER, WOLFGANG, US
[71] REUTLINGER GMBH, DE
[22] 2021-08-09
[41] 2022-02-10
[30] DE (10 2020 121 034.5) 2020-08-10

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[21] **3,127,134**
[13] A1
[51] **Int.Cl. A42B 3/18 (2006.01) A41D 13/11 (2006.01)**
[25] EN
[54] **FACE MASK FOR A SPORTS HELMET**
[54] **MASQUE POUR CASQUE DE SPORT**
[72] HANDFIELD, MARIE-JEANNE, CA
[72] GERMAIN, SIMON-PIERRE, CA
[72] DAGNEAU, FRANCOIS-OLIVIER, CA
[72] BELAND, JEAN-FRANCOIS, CA
[72] BEAUCHAMP, PIERRE-LUC, CA
[72] BROWNRIDGE, RYAN, CA
[72] PAIEMENT, PIERRE, CA
[72] ELEMENT, MARC-ANDRE, CA
[71] SPORT MASKA INC., CA
[22] 2021-08-05
[41] 2022-02-11
[30] US (63/064,174) 2020-08-11

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[21] **3,127,189**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 72/12 (2009.01)**
[25] EN
[54] **CONTROL CHANNEL REPETITION**
[54] **REPETITION DE CANAL DE COMMANDE**
[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL HEJAZI, US
[72] YI, YUNJUNG, US
[72] ZHOU, HUA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-08-06
[41] 2022-02-06
[30] US (63/062,190) 2020-08-06

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[21] **3,127,198**
[13] A1
[51] **Int.Cl. F16L 3/16 (2006.01) F16L 3/08 (2006.01)**
[25] EN
[54] **SWAY BRACE ATTACHMENT**
[54] **FIXATION POUR LIAISON D'ENTRETOISEMENT**
[72] PRUITT. PHILLIP, WARREN HARMON, US
[72] PETRY, DAVID, HENRY, JR, US
[72] JOHNSON, JACOB, LEE, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2021-08-09
[41] 2022-02-11
[30] US (63/064,187) 2020-08-11

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[21] **3,127,207**
[13] A1
[51] **Int.Cl. H02G 1/08 (2006.01)**
[25] EN
[54] **METHOD AND EQUIPMENT FOR THE INSTALLATION OF A POWER CABLE IN A TUNNEL**
[54] **METHODE ET MATERIEL D'INSTALLATION D'UN CABLE D'ALIMENTATION DANS UN TUNNEL**
[72] BACCHINI, MARCO, IT
[72] MANFREDI, SIMONE, IT
[72] GENOVESI, MARIO, IT
[71] PRYSMIAN S.P.A., IT
[22] 2021-08-09
[41] 2022-02-11
[30] IT (102020000019975) 2020-08-11

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[21] **3,127,209**
[13] A1
[51] **Int.Cl. H02G 7/05 (2006.01) H02G 7/20 (2006.01)**
[25] EN
[54] **TRANSMISSION LINE ASSEMBLY AND COMPACT INSULATOR AND HARDWARE ASSEMBLY FOR A TRANSMISSION LINE ASSEMBLY**
[54] **ASSEMBLAGE DE LIGNE DE TRANSMISSION ET ISOLATEUR COMPACT ET ASSEMBLAGE MATERIEL POUR UN ASSEMBLAGE DE LIGNE DE TRANSMISSION**
[72] LINDSEY, KEITH E., US
[72] FLORES, MIGUEL A., US
[71] LINDSEY MANUFACTURING COMPANY, US
[22] 2021-08-06
[41] 2022-02-07
[30] US (63/063079) 2020-08-07
[30] US (17/133353) 2020-12-23

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[21] **3,127,294**
[13] A1
[51] **Int.Cl. E04H 1/12 (2006.01) A47K 3/28 (2006.01)**
[25] EN
[54] **COMPACT CABIN**
[54] **CABINE COMPACTE**
[72] KOCAGOZ, NUSRET SUKRU, TR
[71] OZ HAMAM HOLDINGS INC., CA
[22] 2021-08-06
[41] 2022-02-07
[30] CA (3,089,755) 2020-08-07

[21] **3,127,320**
[13] A1
[51] **Int.Cl. A24F 1/00 (2006.01)**
[25] EN
[54] **MODULAR SMOKING PIPE WITH INTERCHANGEABLE CARTRIDGE**
[54] **PIPE A FUMER MODULAIRE AVEC CARTOUCHE INTERCHANGEABLE**
[72] WOOD, ANDREW, CA
[71] WOOD, ANDREW, CA
[22] 2021-08-10
[41] 2022-02-10
[30] US (63/063,523) 2020-08-10

[21] **3,127,343**
[13] A1
[51] **Int.Cl. G06F 11/00 (2006.01) G06F 11/34 (2006.01)**
[25] EN
[54] **TEST DATA ACQUISITION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF D'ACQUISITION DE DONNEES D'ESSAIS, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] LIU, E, CN
[72] YANG, JING, CN
[72] XU, MEILAN, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-08-10
[41] 2022-02-11
[30] CN (202010800473.5) 2020-08-11

[21] **3,127,346**
[13] A1
[51] **Int.Cl. G06F 12/0802 (2016.01)**
[25] EN
[54] **DATA CACHING METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE DE MISE EN CACHE DE DONNEES, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] XIAO, LIANGJUN, CN
[72] YANG, QINGFENG, CN
[72] QIN, GANG, CN
[72] SI, XIAOBO, CN
[72] YE, GUOHUA, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-08-10
[41] 2022-02-11
[30] CN (202010800470.1) 2020-08-11

[21] **3,127,347**
[13] A1
[51] **Int.Cl. B62D 25/20 (2006.01)**
[25] EN
[54] **FLOOR-CROSSMEMBER COMBINATION**
[54] **COMBINAISON DE PLANCHER-TRAVERSES**
[72] MCWILLIAMS, CLIFFORD O., US
[71] MCWILLIAMS, CLIFFORD O., US
[22] 2021-08-10
[41] 2022-02-10
[30] US (63/063,551) 2020-08-10
[30] US (17/396,930) 2021-08-09

[21] **3,127,352**
[13] A1
[51] **Int.Cl. A61L 2/18 (2006.01) A61L 2/04 (2006.01) A61L 2/08 (2006.01) A61L 2/12 (2006.01) B08B 3/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CLEANING AND DISINFECTING SHOPPING CARTS**
[54] **SYSTEME ET METHODE POUR NETTOYER ET DESINFECTER DES PANIERS DE MAGASINAGE**
[72] FERID BELKADHI, MOHAMED, CA
[71] FERID BELKADHI, MOHAMED, CA
[22] 2021-08-10
[41] 2022-02-10
[30] US (63/063,474) 2020-08-10

[21] **3,127,354**
[13] A1
[51] **Int.Cl. D06F 58/20 (2006.01) F26B 21/00 (2006.01) F26B 23/00 (2006.01) F28D 7/10 (2006.01)**
[25] EN
[54] **HEAT EXCHANGE EXHAUST SYSTEM FOR CLOTHES DRYER**
[54] **SYSTEME D'ECHAPPEMENT D'ECHANGEUR DE CHALEUR POUR UNE SECHEUSE A VETEMENTS**
[72] FROST, DOUG, CA
[71] FROST, DOUG, CA
[22] 2021-08-10
[41] 2022-02-10
[30] US (63063576) 2020-08-10

[21] **3,127,355**
[13] A1
[51] **Int.Cl. G06F 1/16 (2006.01) G06F 1/26 (2006.01) G06F 15/00 (2006.01) H02M 3/04 (2006.01) H02M 7/04 (2006.01)**
[25] EN
[54] **COMPUTER SERVER**
[54] **SERVEUR INFORMATIQUE**
[72] YANG, BIN, CN
[71] BEIJING SILICON BASED VOYAGE TECHNOLOGY CO., LTD., CN
[22] 2021-08-10
[41] 2022-02-10
[30] CN (202021648734.8) 2020-08-10

[21] **3,127,362**
[13] A1
[51] **Int.Cl. B64D 47/00 (2006.01) B64F 5/60 (2017.01)**
[25] EN
[54] **AIRCRAFT SYSTEM OPERATIONAL TESTING**
[54] **ESSAI DE FONCTIONNEMENT D'UN SYSTEME DE BORD**
[72] AARON, NOAH ERIC, US
[72] PREWETT, EMILY M., US
[71] THE BOEING COMPANY, US
[22] 2021-08-10
[41] 2022-02-11
[30] US (63/064201) 2020-08-11
[30] US (17/350491) 2021-06-17

[21] **3,127,363**
[13] A1
[51] **Int.Cl. G06F 16/958 (2019.01) G06F 11/36 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DIGITAL WEBPAGE TESTING**
[54] **METHODE ET SYSTEME D'ESSAI DE PAGE WEB NUMERIQUE**
[72] VAN ADELSBERG, MATTHEW ISAAC, US
[72] WANG, ZHUN, US
[72] ALEXANDER, PRISCILLA, US
[72] SWEENEY, MACKENZIE, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2021-08-10
[41] 2022-02-10
[30] US (63/063,604) 2020-08-10

[21] **3,127,404**
[13] A1
[51] **Int.Cl. C04B 38/10 (2006.01)**
[25] EN
[54] **LOW BUOYANCY CELLULAR CONCRETE**
[54] **BETON CELLULAIRE A FAIBLE FLOTTABILITE**
[72] MASLOFF, BRIAN, US
[72] FEILER, JOSEPH, US
[72] GOMEZ, MILTON, US
[71] CELLULAR CONCRETE SOLUTIONS LLC, US
[22] 2021-08-11
[41] 2022-02-12
[30] US (63/064,798) 2020-08-12

[21] **3,127,436**
[13] A1
[51] **Int.Cl. G07F 17/42 (2006.01) H04W 12/06 (2021.01) H04W 4/42 (2018.01)**
[25] EN
[54] **TICKET VENDING MACHINE PAYMENTS SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE PAIEMENT POUR GUICHET DE VENTE DE BILLETS**
[72] SCHRAUTH, STEPHANIE, US
[72] IHM, NICHOLAS, US
[72] ARORA, VISHAL, US
[72] YARANAL, SHASHIDHAR, US
[71] BYTEMARK INC., US
[22] 2021-08-10
[41] 2022-02-12
[30] US (63/064667) 2020-08-12
[30] US (17/003217) 2020-08-26

[21] **3,127,677**
[13] A1
[51] **Int.Cl. C02F 3/02 (2006.01) C02F 1/74 (2006.01)**
[25] EN
[54] **FLOATING INDIVIDUALIZED AIR SUPPLY FOR WASTEWATER AERATION**
[54] **ALIMENTATION D'AIR INDIVIDUALISEE FLOTTANTE POUR L'AERATION DES EAUX USEES**
[72] VIMONT, ALEX, US
[72] WEVER, MICHAEL C., US
[72] GALBREATH-O'LEARY, BRADEN J., US
[72] HILL, PATRICK D., US
[71] TRIPLEPOINT ENVIRONMENTAL LLC, US
[22] 2021-08-10
[41] 2022-02-10
[30] US (63/063585) 2020-08-10

[21] **3,127,763**
[13] A1
[51] **Int.Cl. E01H 5/02 (2006.01)**
[25] EN
[54] **SNOW SHOVEL WITH BOX SUPPORT STRUCTURE**
[54] **PELLE A NEIGE AVEC STRUCTURE DE SUPPORT EN BOITE**
[72] PHILLIPS, WILLIAM J., US
[72] ANDERSON, TORRENCE, US
[72] WHITEHEAD, STEPHEN, US
[71] SUNCAST TECHNOLOGIES, LLC., US
[22] 2021-08-11
[41] 2022-02-11
[30] US (16/990,435) 2020-08-11

[21] **3,127,774**
[13] A1
[25] EN
[54] **PROCESS FOR HYDRATING HEMP FOR MAKING HEMP PRE-ROLLS THEREFROM**
[54] **PROCEDE D'HYDRATATION DE CHANVRE POUR LA FABRICATION DE PREROULES DE CHANVRE**
[72] GIELCHINSKY, JORDAN, US
[72] GIELCHINSKY, MATTHEW, US
[72] GIELCHINSKY, DEVON, US
[71] ICON FARMS INC., US
[22] 2021-08-11
[41] 2022-02-11
[30] US (63/064,026) 2020-08-11

[21] **3,127,895**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD OF MATCHING A SELLER OF A VEHICLE TO A BUYER OF A VEHICLE**
[54] **SYSTEME ET METHODE DE MISE EN CORRESPONDANCE D'UN VENDEUR D'UN VEHICULE ET D'UN ACHETEUR D'UN VEHICULE**
[72] HOREN, DAVID, US
[72] DUNCAN, DANIEL, US
[72] HOUSEWORTH, JASON, US
[71] BACKLOTCARS, INC., US
[22] 2021-08-12
[41] 2022-02-12
[30] US (63/064,520) 2020-08-12

[21] **3,127,902**
[13] A1
[51] **Int.Cl. B25H 5/00 (2006.01) B62B 3/00 (2006.01) B62B 11/00 (2006.01) E02D 31/00 (2006.01) F16N 31/00 (2006.01)**
[25] EN
[54] **"FOLDABLE MECHANIC'S CREEPER"**
[54] **SOMMIER ROULANT PLIABLE DE MECANICIEN**
[72] WATTS, DEAN, CA
[71] WATTS, DEAN, CA
[22] 2021-08-12
[41] 2022-02-12
[30] US (63064910) 2020-08-12

[21] **3,127,938**
[13] A1
[51] **Int.Cl. A01K 63/00 (2017.01) H04W 4/38 (2018.01) G06N 20/00 (2019.01) G16Y 20/10 (2020.01) G16Y 40/10 (2020.01) G16Y 40/30 (2020.01)**
[25] EN
[54] **HOLDING TANK MONITORING SYSTEM BASED ON WIRELESS SENSOR NETWORK AND MONITORING METHOD**
[54] **SYSTEME DE SURVEILLANCE DE BASSIN DE RETENTION FONDE SUR UN RESEAU DE CAPTEURS SANS FIL ET METHODE DE SURVEILLANCE**
[72] WANG, LISHAO, CA
[72] LIU, SHIWEI, CA
[72] CHENG, XIAOGE, CN
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[71] MARINE THINKING INC., CA
[22] 2021-08-12
[41] 2022-02-12
[30] CA (3,089,879) 2020-08-12
[30] US (63/079,112) 2020-09-16

[21] **3,127,981**
[13] A1
[51] **Int.Cl. A47B 39/00 (2006.01) A47B 37/04 (2006.01) A47B 83/02 (2006.01) A47B 87/00 (2006.01) A47B 97/00 (2006.01)**
[25] EN
[54] **MODULAR OUTDOOR CLASSROOM DESKS**
[54] **PUPITRES DE CLASSE EXTERIEURS MODULAIRES**
[72] FAULEY, KYLE, US
[72] BROWER, THOMAS, US
[72] HUTCHINSON, WESLEY, US
[72] MILLARD, TIMOTHY, US
[72] SCHATZA, CJ, US
[71] PLAYCORE WISCONSIN, INC., US
[22] 2021-08-12
[41] 2022-02-12
[30] US (17/399,615) 2021-08-11
[30] US (63/064,521) 2020-08-12

[21] **3,128,080**
[13] A1
[51] **Int.Cl. H01R 33/76 (2006.01) H01R 13/24 (2006.01)**
[25] EN
[54] **IMPROVED INSULATED SOCKET BODY AND TERMINALS FOR A LAND GRID ARRAY SOCKET ASSEMBLY**
[54] **CORPS DE PRISE ISOLE AMELIORE ET BORNES POUR UN ASSEMBLAGE DE PRISE DE BOITIER MATRICIEL TERRESTRE**
[72] TATE, JOHN O., US
[71] TATE, JOHN O., US
[22] 2021-08-12
[41] 2022-02-12
[30] US (16/991073) 2020-08-12

[21] **3,132,769**
[13] A1
[51] **Int.Cl. E01F 9/608 (2016.01) E01F 9/654 (2016.01)**
[25] EN
[54] **RETRACTABLE CYLINDRICAL SAFETY MARKER**
[54] **MARQUEUR DE SECURITE CYLINDRIQUE ESCAMOTABLE**
[72] TIPALDO, JOHN, US
[71] TIPALDO, JOHN, US
[22] 2021-08-11
[41] 2022-02-12
[30] US (16/991,332) 2020-08-12

[21] **3,139,645**
[13] A1
[51] **Int.Cl. A01M 23/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONTROLLING PEST ANIMALS**
[54] **METHODE ET APPAREIL POUR CONTROLER LES ANIMAUX NUISIBLES**
[72] KREHEL, MARK, CA
[72] GAUTHIER, KEN, CA
[72] ABERCROMBIE, JOE, CA
[71] CATCH DATA LTD., CA
[22] 2021-11-19
[41] 2022-02-09
[30] US (63/116,753) 2020-11-20

[21] **3,140,535**
[13] A1
[51] **Int.Cl. B32B 3/06 (2006.01) B32B 5/12 (2006.01) B32B 21/02 (2006.01) B32B 21/13 (2006.01) B66C 23/78 (2006.01) E01C 9/08 (2006.01) F16S 1/02 (2006.01)**
[25] EN
[54] **COMPOSITE BAMBOO INDUSTRIAL MATS AND METHODS OF MAKING THE SAME**
[54] **MATELAS INDUSTRIELS EN BAMBOU COMPOSITE ET METHODES DE FABRICATION**
[72] FORBES, DEAN, CA
[71] CROCODILE PRODUCTS INC., CA
[22] 2021-11-26
[41] 2022-02-09
[30] US (17/535,641) 2021-11-25

[21] **3,140,657**
[13] A1
[51] **Int.Cl. E05B 19/04 (2006.01) G05G 1/54 (2009.01) E05B 19/06 (2006.01) G05G 1/10 (2006.01)**
[25] FR
[54] **KEY GRIPPER SYSTEM**
[54] **SYSTEME DE PREHENSION D'UNE CLE**
[72] GOBERVILLE, YANN, FR
[72] VAYSSIERE, AURELIEN, DE
[71] AIRBUS HELICOPTERS, FR
[22] 2021-11-29
[41] 2022-02-10
[30] FR (2013369) 2020-12-16

[21] **3,142,058**
[13] A1
[51] **Int.Cl. G01C 5/00 (2006.01) G01D 11/30 (2006.01)**
[25] EN
[54] **APPARATUS FOR USE WITH A ROTARY LASER LEVEL SYSTEM**
[54] **APPAREIL A UTILISER AVEC UN SYSTEME DE NIVEAU LASER ROTATIF**
[72] PROCYK, GRAHAM, CA
[71] PROCYK, GRAHAM, CA
[22] 2021-12-11
[41] 2022-02-07
[30] US (63/124,768) 2020-12-12
[30] US (63/148,386) 2021-02-11

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,126,336**
[13] A1
[51] **Int.Cl. H03K 17/04 (2006.01) H03K 17/08 (2006.01) H03K 17/567 (2006.01)**
[25] EN
[54] **SWITCH CIRCUIT AND ELECTRIC DEVICE**
[54]
[72] LEI, YUN, CN
[72] ZHANG, ZHIFENG, CN
[72] LIN, JIANPING, CN
[72] CHEN, CHANGXI, CN
[71] SHENZHEN CARKU TECHNOLOGY CO., LIMITED, CN
[85] 2021-09-24
[86] 2020-07-20 (PCT/CN2020/103037)
[87] (WO2022/000596)
[30] CN (202021236176.4) 2020-06-29
[30] CN (202010605084.7) 2020-06-29

[21] **3,129,091**
[13] A1
[51] **Int.Cl. F24F 1/0358 (2019.01) F24F 1/029 (2019.01) F24F 13/22 (2006.01)**
[25] EN
[54] **DEHUMIDIFIER**
[54] **DESHUMIDIFICATEUR**
[72] LIU, FASHEN, CN
[72] CAI, ZHICAI, CN
[72] ZHANG, KANGWEN, CN
[71] GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD., CN
[71] MIDEA GROUP CO., LTD., CN
[85] 2021-08-26
[86] 2020-09-30 (PCT/CN2020/119203)
[87] (3129091)
[30] CN (202010786623.1) 2020-08-06
[30] CN (202021623960.0) 2020-08-06

[21] **3,134,220**
[13] A1
[51] **Int.Cl. H04L 1/16 (2006.01)**
[25] EN
[54] **UE, RADIO NETWORK NODE AND METHODS PERFORMED THEREIN**
[54] **UE, NOEUD DE RESEAU RADIO ET PROCEDES MIS EN OEUVRE DANS CELUI-CI**
[72] HOGLUND, ANDREAS, SE
[72] MEDINA ACOSTA, GERARDO AGNI, SE
[72] KADAN VEEDU, SANDEEP NARAYANAN, SE
[72] YAVUZ, EMRE, SE
[72] TIRRONEN, TUOMAS, FI
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2021-09-20
[86] 2020-03-27 (PCT/EP2020/058780)
[87] (WO2020/201122)
[30] US (62/825,901) 2019-03-29

[21] **3,138,891**
[13] A1
[51] **Int.Cl. A61K 38/22 (2006.01) A61P 11/00 (2006.01) C07K 14/575 (2006.01)**
[25] EN
[54] **VASOACTIVE INTESTINAL PEPTIDE (VIP) FOR USE IN THE TREATMENT OF DRUG-INDUCED PNEUMONITIS**
[54] **PEPTIDE INTESTINAL VASOACTIF (VIP) DESTINE A ETRE UTILISE DANS LE TRAITEMENT DE LA PNEUMOPATHIE D'ORIGINE MEDICAMENTEUSE**
[72] MULLER-QUERNHEIM, JOACHIM, DE
[72] FRYE, BJORN CHRISTIAN, DE
[71] ADVITA LIFESCIENCE GMBH, DE
[85] 2021-11-02
[86] 2020-05-05 (PCT/EP2020/062420)
[87] (WO2020/225246)
[30] EP (19000219.6) 2019-05-07

[21] **3,139,015**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24C 5/01 (2020.01) A24F 40/465 (2020.01) A24F 40/70 (2020.01) A24B 7/00 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE AND METHOD OF MANUFACTURING THE SAME**
[54] **ARTICLE PRODUISANT UN AEROSOL ET METHODE DE FABRICATION**
[72] KIM, HAN SAEM, KR
[72] JUNG, YEON SEOK, KR
[72] PARK, RAK UN, KR
[72] LEE, JUNG LAE, KR
[71] KT&G CORPORATION, KR
[85] 2021-11-15
[86] 2021-07-13 (PCT/KR2021/008975)
[87] (3139015)
[30] KR (10-2020-0099767) 2020-08-10

[21] **3,139,672**
[13] A1
[51] **Int.Cl. G09B 21/00 (2006.01)**
[25] EN
[54] **BRAILLE TEACHING MATERIAL AND METHOD OF MANUFACTURING SAME**
[54] **MATERIEL D'ENSEIGNEMENT DU BRAILLE ET PROCEDE DE FABRICATION**
[72] SEO, IN SIK, KR
[72] CHO, JI YUN, KR
[71] SENSEE, INC., KR
[85] 2021-11-22
[86] 2020-09-17 (PCT/KR2020/012573)
[87] (3139672)
[30] KR (10-2020-0100072) 2020-08-10

[21] **3,139,949**
[13] A1
[51] **Int.Cl. F01D 21/04 (2006.01) F01D 25/16 (2006.01) F04D 29/053 (2006.01) F04D 29/057 (2006.01)**
[25] FR
[54] **ENSEMBLE DE SUPPORT ET DE GUIDAGE D'UN ARBRE D'ENTRAINEMENT DE TURBOMACHINE D'AERONEF**
[54] **ASSEMBLY FOR SUPPORTING AND GUIDING A DRIVE SHAFT FOR AN AIRCRAFT TURBINE ENGINE**
[72] BESSY, ARNAUD, FR
[72] LEEDER, LAURENT, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-11-29
[86] 2020-05-29 (PCT/FR2020/050921)
[87] (WO2020/245528)
[30] FR (FR1905866) 2019-06-03

[21] **3,139,978**
[13] A1
[51] **Int.Cl. G06F 30/27 (2020.01) G06T 19/20 (2011.01) G06N 20/00 (2019.01) G06F 30/00 (2020.01) G06F 30/10 (2020.01) G06F 30/20 (2020.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR AUTOMATICALLY DETECTING DESIGN ELEMENTS IN A TWO-DIMENSIONAL DESIGN DOCUMENT**
[54] **PROCEDES ET SYSTEMES DE DETECTION AUTOMATIQUE D'ELEMENT DE CONCEPTION DANS UN DOCUMENT DE CONCEPTION BIDIMENSIONNEL**
[72] ALVES, BRUNO, US
[72] LEE, JAE MIN, US
[71] CIPO, CA
[71] BLUEBEAM, INC., US
[85] 2021-11-29
[86] 2020-06-05 (PCT/US2020/036357)
[87] (WO2020/247772)
[30] US (62/858,095) 2019-06-06

[21] **3,139,980**
[13] A1
[51] **Int.Cl. E02F 9/14 (2006.01) E02F 3/48 (2006.01)**
[25] EN
[54] **ADVANCED FIBER ROPE BOOM PENDANT TECHNOLOGIES FOR HEAVY EQUIPMENT**
[54] **TECHNOLOGIES AVANCEES DE TIRANT DE FLECHE A CABLE TEXTILE POUR EQUIPEMENT LOURD**
[72] CAMPBELL, RICHARD V., US
[71] CIPO, CA
[71] CAMPBELL, RICHARD V., US
[85] 2021-11-29
[86] 2020-01-07 (PCT/US2020/012476)
[87] (WO2020/185287)
[30] US (16/296,284) 2019-03-08

[21] **3,139,993**
[13] A1
[51] **Int.Cl. A01N 65/00 (2009.01) A01N 65/06 (2009.01) A01N 31/04 (2006.01)**
[25] EN
[54] **PINE OIL-BASED HERBICIDE**
[54] **HERBICIDE A BASE D'HUILE DE PIN**
[72] FRITH, HUGH, AU
[71] GREENPRO SOLUTIONS PTY LTD, AU
[85] 2021-11-29
[86] 2020-06-25 (PCT/AU2020/050646)
[87] (WO2020/257858)
[30] US (62/866,525) 2019-06-25
[30] AU (2019904785) 2019-12-18

[21] **3,139,994**
[13] A1
[51] **Int.Cl. A61F 2/30 (2006.01) A61F 2/32 (2006.01) A61F 2/40 (2006.01)**
[25] EN
[54] **SLEEVE ELEMENT TO BE PLACED ON A NECK OF A PROSTHETIC HIP OR SHOULDER IMPLANT**
[54] **ELEMENT DE MANCHON DESTINE A ETRE PLACE SUR LE COL D'UNE PROTHESE DE HANCHE OU D'EPAULE**
[72] VERLAAN, JOANNES JACOBUS, NL
[72] OOSTERMAN, BAS JEROEN, NL
[72] VAN TOL, FLORIS RUDOLF, NL
[72] STEVERINK, JASPER GERARD, NL
[71] SENTRYX B.V., NL
[71] UMC UTRECHT HOLDING B.V., NL
[85] 2021-11-29
[86] 2020-05-27 (PCT/EP2020/064721)
[87] (WO2020/239845)
[30] NL (2023208) 2019-05-27

[21] **3,139,995**
[13] A1
[51] **Int.Cl. B03D 1/016 (2006.01)**
[25] EN
[54] **COLLECTORS FOR FLOTATION PROCESS**
[54] **COLLECTEURS POUR PROCESSUS DE FLOTTATION**
[72] MICHAILOVSKI, ALEXEJ, DE
[72] MUELLER-CRISTADORO, ANNA MARIA, DE
[72] ESCODA MARGENAT, MARIA, ES
[71] BASF SE, DE
[85] 2021-11-29
[86] 2020-06-01 (PCT/EP2020/065107)
[87] (WO2020/245068)
[30] EP (19382464.6) 2019-06-06

[21] **3,139,998**
[13] A1
[51] **Int.Cl. B29C 67/00 (2017.01) G06T 17/00 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ESTABLISHING A LINKAGE BETWEEN A THREE-DIMENSIONAL ELECTRONIC DESIGN FILE AND A TWO-DIMENSIONAL DESIGN DOCUMENT**
[54] **METHODES ET SYSTEMES POUR ETABLIR UNE LIAISON ENTRE UN FICHIER DE CONCEPTION ELECTRONIQUE EN TROIS DIMENSIONS ET UN DOCUMENT DE CONCEPTION EN DEUX DIMENSIONS**
[72] LEE, JAE MIN, US
[71] BLUEBEAM, INC., US
[85] 2021-11-29
[86] 2020-06-05 (PCT/US2020/036370)
[87] (WO2020/247783)
[30] US (62/858,110) 2019-06-06

[21] **3,139,999**
[13] A1
[51] **Int.Cl. B01J 23/42 (2006.01) C01B 32/05 (2017.01) H01M 4/88 (2006.01) H01M 4/92 (2006.01) H01M 4/96 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **SUPPORTED PLATINUM CATALYST, CATHODE FOR FUEL CELL, FUEL CELL, AND METHOD FOR PRODUCING SUPPORTED PLATINUM CATALYST**
[54] **CATALYSEUR AU PLATINE SUPPORTE, CATHODE POUR PILE A COMBUSTIBLE, PILE A COMBUSTIBLE ET PROCEDE DE PRODUCTION D'UN CATALYSEUR AU PLATINE SUPPORTE**
[72] SHODAI, YOSHIO, JP
[72] ANZAI, MIZUHO, JP
[71] TOYO TANSO CO., LTD., JP
[85] 2021-11-29
[86] 2020-06-03 (PCT/JP2020/021869)
[87] (WO2020/246491)
[30] JP (2019-103749) 2019-06-03

[21] **3,140,001**
[13] A1
[51] **Int.Cl. A23L 33/185 (2016.01) A23L 33/115 (2016.01) A23L 33/125 (2016.01) A23L 33/135 (2016.01) A23L 33/21 (2016.01) A23C 9/20 (2006.01) A23J 1/14 (2006.01)**
[25] EN
[54] **NUTRITIONAL COMPOSITIONS**
[54] **COMPOSITIONS NUTRITIONNELLES**
[72] GAMBLE, MARDELLE, CA
[71] GAMBLE, MARDELLE, CA
[85] 2021-11-29
[86] 2020-06-17 (PCT/CA2020/050839)
[87] (WO2020/252576)
[30] US (62/863,157) 2019-06-18
[30] US (62/884,354) 2019-08-08

[21] **3,140,002**
[13] A1
[51] **Int.Cl. C07D 213/75 (2006.01) A01N 43/40 (2006.01)**
[25] EN
[54] **FUNGICIDAL N-(PYRID-3-YL)CARBOXAMIDES**
[54] **N-(PYRID-3-YL)CARBOXAMIDES FONGICIDES**
[72] MUELLER, BERND, DE
[72] SEET, MICHAEL, DE
[72] RUDOLF, GEORG CHRISTOPH, DE
[72] GRAMMENOS, WASSILIOS, DE
[72] MERGET, BENJAMIN JUERGEN, DE
[72] KOCH, ANDREAS, DE
[72] RIEDIGER, NADINE, DE
[72] WIEBE, CHRISTINE, DE
[72] GROTE, THOMAS, DE
[72] LOHMANN, JAN KLAAS, DE
[72] WINTER, CHRISTIAN HARALD, DE
[72] WEBER, ANJA, DE
[71] BASF SE, DE
[85] 2021-11-29
[86] 2020-05-26 (PCT/EP2020/064573)
[87] (WO2020/244968)
[30] EP (19178605.2) 2019-06-06

[21] **3,140,004**
[13] A1
[51] **Int.Cl. C12N 15/88 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **ANALYSIS OF MATERIALS FOR TISSUE DELIVERY**
[54] **ANALYSE DE MATERIAUX POUR L'ADMINISTRATION DE TISSUS**
[72] SAGO, CORY DANE, US
[72] CHHABRA, MILLONI BALWANTKUMAR, US
[71] GUIDE THERAPEUTICS, INC., US
[85] 2021-11-29
[86] 2020-06-02 (PCT/US2020/035730)
[87] (WO2020/247382)
[30] US (62/857,676) 2019-06-05

[21] **3,140,005**
[13] A1
[51] **Int.Cl. H01L 51/00 (2006.01) H02S 40/34 (2014.01) H01L 21/00 (2006.01) H01L 51/42 (2006.01)**
[25] EN
[54] **HOMOGENEOUS TRANSPARENT COATED GREENHOUSE ELECTRICAL GENERATING DEVICES, AND INTERNAL AND EXTERNAL ELECTRICAL INTERCONNECTIONS**
[54] **DISPOSITIFS DE PRODUCTION D'ELECTRICITE DE TYPE SERRE A REVETEMENT TRANSPARENT HOMOGENE, ET INTERCONNEXIONS ELECTRIQUES INTERNES ET EXTERNES**
[72] CONKLIN, JOHN A., US
[72] SARGENT, PATRICK T., US
[71] SOLARWINDOW TECHNOLOGIES, INC., US
[85] 2021-11-29
[86] 2020-05-28 (PCT/US2020/034845)
[87] (WO2020/243251)
[30] US (62/854,276) 2019-05-29
[30] US (16/660,388) 2019-10-22

[21] **3,140,007**
[13] A1
[51] **Int.Cl. E03C 1/042 (2006.01) F16K 1/16 (2006.01) F16K 43/00 (2006.01)**
[25] EN
[54] **ROUGH-IN VALVE ASSEMBLY AND FLUSH PLUG**
[54] **ENSEMBLE DE SOUPAPE DE RACCORDEMENT ET BOUCHON DE CHASSE D'EAU**
[72] LI, HSIAO CHANG, US
[72] PITSCH, WALTER, US
[71] AS AMERICA, INC., US
[85] 2021-11-29
[86] 2020-06-10 (PCT/US2020/036981)
[87] (WO2020/252009)
[30] US (62/859,758) 2019-06-11
[30] US (62/862,803) 2019-06-18

[21] **3,140,008**
[13] A1
[51] **Int.Cl. G01G 17/04 (2006.01) G01F 23/20 (2006.01)**
[25] EN
[54] **NON-LINEAR ULTRASOUND METHOD AND APPARATUS FOR QUANTITATIVE DETECTION OF MATERIALS (LIQUIDS, GAS, PLASMA)**
[54] **PROCEDE ET APPAREIL A ULTRASONS NON LINEAIRES PERMETTANT LA DETECTION QUANTITATIVE DE MATERIAUX (LIQUIDES, GAZ, PLASMA)**
[72] HEIM, JAMES M., US
[71] PERCEPTIVE SENSOR TECHNOLOGIES LLC, US
[85] 2021-11-29
[86] 2020-05-29 (PCT/US2020/035404)
[87] (WO2020/243628)
[30] US (62/855,514) 2019-05-31

[21] **3,140,010**
[13] A1
[51] **Int.Cl. H04L 5/14 (2006.01) H04W 56/00 (2009.01) H04L 27/26 (2006.01)**
[25] EN
[54] **METHOD, DEVICE AND APPARATUS FOR TIME DIVISION DUPLEX SYNCHRONIZATION FOR DISTRIBUTED ANTENNA SYSTEM, AND MEDIUM**
[54] **PROCEDE, DISPOSITIF ET APPAREIL DE SYNCHRONISATION DE DUPLEXAGE PAR REPARTITION DANS LE TEMPS POUR SYSTEME D'ANTENNES DISTRIBUEES, ET SUPPORT**
[72] CHEN, QINGSONG, CN
[72] WANG, XIN, CN
[72] REN, AILIN, CN
[72] MAO, JIANYANG, CN
[72] CHU, RULONG, CN
[72] WU, WENQUAN, CN
[71] SUNWAVE COMMUNICATIONS CO., LTD., CN
[85] 2021-11-29
[86] 2020-08-03 (PCT/CN2020/106601)
[87] (WO2021/023157)
[30] CN (201910722762.5) 2019-08-06

[21] **3,140,011**
[13] A1
[51] **Int.Cl. E02F 3/48 (2006.01) E02F 3/58 (2006.01)**
[25] EN
[54] **CABLE ARMORING SYSTEM**
[54] **SYSTEME DE BLINDAGE DE CABLE**
[72] CAMPBELL, RICHARD V., US
[71] CAMPBELL, RICHARD V., US
[85] 2021-11-29
[86] 2020-01-07 (PCT/US2020/012496)
[87] (WO2020/185288)
[30] US (16/298,863) 2019-03-11

[21] **3,140,013**
[13] A1
[51] **Int.Cl. B22F 9/12 (2006.01) B01J 19/08 (2006.01) C01B 33/021 (2006.01) H05H 1/42 (2006.01)**
[25] EN
[54] **FINE PARTICLE PRODUCTION APPARATUS AND FINE PARTICLE PRODUCTION METHOD**
[54] **APPAREIL DE PRODUCTION DE PARTICULES FINES ET PROCEDE DE FABRICATION DE PARTICULES FINES**
[72] TANAKA, YASUNORI, JP
[72] KODAMA, NAOTO, JP
[72] ONDA, KAZUKI, JP
[72] WATANABE, SHU, JP
[72] NAKAMURA, KEITARO, JP
[72] SUEYASU, SHIORI, JP
[71] NATIONAL UNIVERSITY CORPORATION KANAZAWA UNIVERSITY, JP
[71] NISSHIN SEIFUN GROUP INC., JP
[85] 2021-11-29
[86] 2020-06-04 (PCT/JP2020/022164)
[87] (WO2020/246551)
[30] JP (2019-105218) 2019-06-05

[21] **3,140,014**
[13] A1
[51] **Int.Cl. B01D 61/00 (2006.01) C25B 1/26 (2006.01) H01M 6/04 (2006.01)**
[25] EN
[54] **REMOVAL OF MATERIALS FROM WATER**
[54] **ELIMINATION DE MATERIAUX DE L'EAU**
[72] BORRAS, CARLOS, US
[72] LUKE, DONALD A., US
[71] PHOSPHORUS FREE WATER SOLUTIONS, LLC, US
[85] 2021-11-29
[86] 2020-06-12 (PCT/US2020/037407)
[87] (WO2020/252242)
[30] US (62/860,433) 2019-06-12

[21] **3,140,015**
[13] A1
[51] **Int.Cl. A01M 1/02 (2006.01)**
[25] EN
[54] **TERMITE ATTRACTING DEVICE, INSTALLATION STRUCTURE FOR TERMITE ATTRACTING DEVICE AND METHOD FOR INSTALLING TERMITE ATTRACTING DEVICE**
[54] **DISPOSITIF D'ATTRACTION DE TERMITES, STRUCTURE D'INSTALLATION POUR DISPOSITIF D'ATTRACTION DE TERMITES ET PROCEDE D'INSTALLATION DE DISPOSITIF D'ATTRACTION DE TERMITES**
[72] YAMASHITA, MOTONOBU, JP
[71] TRUST CO., LTD., JP
[85] 2021-11-29
[86] 2020-06-26 (PCT/JP2020/025130)
[87] (WO2021/049132)
[30] JP (2019-166848) 2019-09-13

[21] **3,140,016**
[13] A1
[51] **Int.Cl. C08F 220/56 (2006.01) C02F 1/56 (2006.01)**
[25] EN
[54] **POLYMERIC STRUCTURE AND ITS USES**
[54] **STRUCTURE POLYMERE ET SES UTILISATIONS**
[72] LIKANDER, JOONAS, FI
[72] CARCELLER, ROSA, FI
[72] WU, SUHUA, FI
[72] KARPPI, ASKO, FI
[72] KORHONEN, MARKUS, FI
[72] HIETANIEMI, MATTI, FI
[71] KEMIRA OYJ, FI
[85] 2021-11-29
[86] 2019-06-24 (PCT/CN2019/092555)
[87] (WO2020/257978)

[21] **3,140,017**
[13] A1
[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/4709 (2006.01) A61K 31/4985 (2006.01) A61K 31/519 (2006.01) A61K 31/5383 (2006.01) A61P 19/02 (2006.01) C07D 231/50 (2006.01) C07D 401/12 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **POLYAROMATIC UREA DERIVATIVES AND THEIR USE IN THE TREATMENT OF MUSCLE DISEASES**
[54] **DERIVES D'UREE POLYAROMATIQUES ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES MUSCULAIRES**
[72] HICK, AURORE, FR
[72] GOBERT, BENEDICTE, FR
[72] RIGUET, ERIC, FR
[71] ANAGENESIS BIOTECHNOLOGIES S.A.S., FR
[85] 2021-11-29
[86] 2020-07-17 (PCT/EP2020/070246)
[87] (WO2021/013712)
[30] EP (19305957.3) 2019-07-19

[21] **3,140,018**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 47/54 (2017.01) A61K 31/7115 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61P 3/00 (2006.01) C12N 9/18 (2006.01) C12N 15/55 (2006.01)**
[25] EN
[54] **OLIGONUCLEOTIDE THERAPY FOR WOLMAN DISEASE AND CHOLESTERYL ESTER STORAGE DISEASE**
[54] **THERAPIE OLIGONUCLEOTIDIQUE POUR MALADIE DE WOLMAN ET MALADIE DE STOCKAGE DES ESTERS DU CHOLESTEROL**
[72] MERICO, DANIELE, CA
[72] CHEUNG-ONG, KAHLIN, CA
[72] SUN, MARK, CA
[71] DEEP GENOMICS INCORPORATED, CA
[85] 2021-11-29
[86] 2020-05-29 (PCT/CA2020/050740)
[87] (WO2020/237391)
[30] US (62/854,719) 2019-05-30

[21] **3,140,019**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01) A61K 35/761 (2015.01) C07K 14/075 (2006.01)**
[25] EN
[54] **MODIFIED ADENOVIRUSES**
[54] **ADENOVIRUS MODIFIES**
[72] JOOSS, KARIN, US
[72] SCALLAN, CIARAN DANIEL, US
[72] GITLIN, LEONID, US
[71] GRITSTONE BIO, INC., US
[85] 2021-11-29
[86] 2020-06-01 (PCT/US2020/035591)
[87] (WO2020/243719)
[30] US (62/854,865) 2019-05-30

[21] **3,140,020**
[13] A1
[51] **Int.Cl. C12P 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF ETHANOL FROM CORN FIBRES**
[54] **PROCEDE DE PRODUCTION D'ETHANOL A PARTIR DE FIBRES DE MAIS**
[72] PAL, SIDDHARTHA SOURAV, IN
[72] PAI, PRASANNA SHAM, IN
[72] DESHMUKH, AJIT PRABHAKAR, IN
[72] NALWADE, SANDIP UTTAMRAO, IN
[72] BORAGE, NILESH ANKUSH, IN
[72] DESHPANDE, GHANSHAM BABURAO, IN
[72] KUMBHAR, PRAMOD SHANKAR, IN
[71] PRAJ INDUSTRIES LIMITED, IN
[85] 2021-11-29
[86] 2020-06-08 (PCT/IN2020/050505)
[87] (WO2020/261291)
[30] IN (201921024907) 2019-06-24

[21] **3,140,021**
[13] A1
[51] **Int.Cl. B29C 65/02 (2006.01) B29C 65/78 (2006.01)**
[25] FR
[54] **REDUCED-FRICTION DRIVE DEVICE**
[54] **DISPOSITIF D'ENTRAINEMENT AVEC FRICTION REDUITE**
[72] BUSSIEN, GAEL, CH
[71] AISAPACK HOLDING S.A., CH
[85] 2021-11-29
[86] 2020-07-01 (PCT/IB2020/056217)
[87] (WO2021/014241)
[30] EP (19187382.7) 2019-07-19

[21] **3,140,022**
[13] A1
[51] **Int.Cl. H02K 7/00 (2006.01) H02K 5/22 (2006.01) H02K 7/14 (2006.01)**
[25] EN
[54] **INNER ROTOR MOTOR WITH HOLLOW WIRING TUBE INSIDE ROTOR SHAFT**
[54] **MOTEUR A ROTOR INTERNE AVEC TUBE DE CABLAGE CREUX A L'INTERIEUR D'UN ARBRE DE ROTOR**
[72] ALLEN, MATTHEW D., US
[72] DAVIES, AARON, US
[72] SUDA, DANIEL J., US
[72] JOHNSON, PHILIP S., US
[72] MAJOR, MICHAEL W., US
[71] NIDEC MOTOR CORPORATION, US
[85] 2021-11-29
[86] 2020-05-13 (PCT/US2020/032603)
[87] (WO2020/247156)
[30] US (62/857,605) 2019-06-05
[30] US (16/691,714) 2019-11-22

[21] **3,140,023**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 25/28 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **ANTI-SORTILIN ANTIBODIES FOR USE IN THERAPY**
[54] **ANTICORPS ANTI-SORTILINE DESTINES A ETRE UTILISES EN THERAPIE**
[72] PAUL, ROBERT, US
[72] WARD, MICHAEL F., US
[72] LONG, HUA, US
[72] LU, SHIAO-PING, US
[72] SIDDIQUI, OMER RIZWAN, US
[72] ROSENTHAL, ARNON, US
[72] RHINN, HERVE, US
[71] ALECTOR LLC, US
[85] 2021-11-29
[86] 2020-06-10 (PCT/US2020/037054)
[87] (WO2020/252066)
[30] US (62/860,207) 2019-06-11
[30] US (62/868,850) 2019-06-28
[30] US (62/874,475) 2019-07-15
[30] US (62/947,503) 2019-12-12
[30] US (62/961,591) 2020-01-15

[21] **3,140,024**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61K 31/5415 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/02 (2006.01) A61P 11/06 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PYRAZOLOPYRIMIDINE SULFONE INHIBITORS OF JAK KINASES AND USES THEREOF**
[54] **INHIBITEURS DE SULFONE PYRAZOLOPYRIMIDINE DE JAK KINASES ET LEURS UTILISATIONS**
[72] ZAK, MARK EDWARD, US
[72] RAJAPAKSA, NAOMI S., US
[72] CHENG, YUN-XING, CN
[72] GRANDNER, JESSICA MARIE, US
[72] SHORE, DANIEL G. M., US
[72] BRYAN, MARIAN C., US
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-11-29
[86] 2020-06-16 (PCT/US2020/037853)
[87] (WO2020/257145)
[30] CN (PCT/CN2019/091712) 2019-06-18
[30] US (63/035,381) 2020-06-05

[21] **3,140,025**
[13] A1
[51] **Int.Cl. H01M 4/62 (2006.01) H01M 10/052 (2010.01) H01M 10/0525 (2010.01) H01M 4/88 (2006.01)**
[25] EN
[54] **ECO-ELECTRODE, DEVICE STORING ELECTRICAL ENERGY AND PROCESS FOR PREPARATION THEREOF**
[54] **ELECTRODE ECOLOGIQUE, DISPOSITIF DE STOCKAGE D'ENERGIE ELECTRIQUE ET SON PROCEDE DE PREPARATION**
[72] AYME-PERROT, DAVID, FR
[72] PROFILI, JACOPO, CA
[72] STAFFORD, LUC, CA
[72] ROUSSELOT, STEEVE, CA
[72] DOLLE, MICKAEL, CA
[71] UNIVERSITE DE MONTREAL, CA
[71] TOTALENERGIES SE, FR
[85] 2021-11-30
[86] 2020-06-03 (PCT/EP2020/065325)
[87] (WO2020/245180)
[30] EP (19305706.4) 2019-06-03

[21] **3,140,051**
[13] A1
[51] **Int.Cl. A61K 38/16 (2006.01) C07K 16/00 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT USING G-CSF PROTEIN COMPLEX**
[54] **METHODES DE TRAITEMENT UTILISANT UN COMPLEXE PROTEIQUE A BASE DE G-CSF**
[72] BHAT, GAJANAN, US
[72] CHAWLA, SHANTA, US
[71] SPECTRUM PHARMACEUTICALS, INC., US
[85] 2021-11-30
[86] 2020-06-01 (PCT/US2020/070101)
[87] (WO2020/243755)
[30] US (16/428,351) 2019-05-31

[21] **3,140,073**
[13] A1
[51] **Int.Cl. A63F 1/04 (2006.01)**
[25] EN
[54] **CASINO-STYLE GAME**
[54] **JEU DE TYPE CASINO**
[72] BUTEN, DAVID R., US
[71] FLUSHED GAME, LLC, US
[85] 2021-11-29
[86] 2020-04-28 (PCT/US2020/030231)
[87] (WO2020/247114)
[30] US (16/434,246) 2019-06-07

[21] **3,140,074**
[13] A1
[51] **Int.Cl. F02K 5/00 (2006.01) F01D 15/10 (2006.01) F02C 7/26 (2006.01) F02C 7/266 (2006.01)**
[25] FR
[54] **METHOD FOR REGULATING THE ACCELERATION OF A TURBOMACHINE**
[54] **PROCEDE DE REGULATION D'UNE ACCELERATION D'UNE TURBOMACHINE**
[72] CUVILLIER, ROMAIN GUILLAUME, FR
[72] CABRERA, PIERRE, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-11-30
[86] 2020-04-27 (PCT/FR2020/050716)
[87] (WO2020/245516)
[30] FR (1906001) 2019-06-06

[21] **3,140,090**
[13] A1
[51] **Int.Cl. F16L 15/04 (2006.01)**
[25] EN
[54] **THREADED CONNECTION FOR STEEL PIPE**
[54] **RACCORD FILETE POUR TUYAU EN ACIER**
[72] INOSE, KEITA, JP
[72] SUGINO, MASAAKI, JP
[72] UGAI, SHIN, JP
[72] NAKANO, HIKARI, JP
[71] NIPPON STEEL & SUMITOMO METAL CORPORATION, JP
[71] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2021-11-30
[86] 2020-08-07 (PCT/JP2020/030407)
[87] (WO2021/029370)
[30] JP (2019-147926) 2019-08-09

[21] **3,140,091**
[13] A1
[25] EN
[54] **CALIBRATION OF QUANTUM PROCESSOR OPERATOR PARAMETERS**
[54] **ETALONNAGE DE PARAMETRES D'OPERATEURS DE PROCESSEUR QUANTIQUE**
[72] KLIMOV, PAUL, US
[71] GOOGLE LLC, US
[85] 2021-11-30
[86] 2020-06-05 (PCT/US2020/036363)
[87] (WO2020/247777)
[30] US (16/434,513) 2019-06-07

[21] **3,140,097**
[13] A1
[51] **Int.Cl. E04F 11/18 (2006.01) E04H 17/14 (2006.01)**
[25] EN
[54] **ASSEMBLY AND METHOD FOR ATTACHING EXTRUDED MEMBERS**
[54] **ENSEMBLE ET PROCEDE DE FIXATION D'ELEMENT EXTRUDE**
[72] THOMAS, LESLIE JAMES, AU
[71] SAS SYSTEMS AUSTRALIA IP PTY LTD, AU
[85] 2021-11-30
[86] 2019-05-31 (PCT/AU2019/050564)
[87] (WO2019/227175)
[30] AU (2018901978) 2018-06-01

[21] **3,140,102**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING CANCER WITH ANTI-BCMA IMMUNOTHERAPY**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DU CANCER PAR IMMUNOTHERAPIE ANTI-BCMA**
[72] SCHNEIDER, DINA, US
[72] ZHU, ZHONGYU, US
[72] DROPULIC, BORO, US
[72] VU, BANG KHOA, US
[72] ALABANZA, LEAH MARIE, US
[71] LENTIGEN TECHNOLOGY, INC., US
[85] 2021-11-30
[86] 2020-05-29 (PCT/US2020/035287)
[87] (WO2020/243546)
[30] US (62/854,574) 2019-05-30

[21] **3,140,104**
[13] A1
[51] **Int.Cl. G05D 1/02 (2020.01)**
[25] EN
[54] **AUTONOMOUS UTILITY CART AND ROBOTIC CART PLATFORM**
[54] **CHARIOT UTILITAIRE AUTONOME ET PLATE-FORME DE CHARIOT ROBOTIQUE**
[72] ARMBURST, DANIEL P., US
[72] GRABON, ROBERT J., US
[72] JAREMA, RADOSLAW A., PL
[71] MUL TECHNOLOGIES, LLC, US
[85] 2021-11-30
[86] 2020-06-23 (PCT/US2020/039127)
[87] (WO2020/263819)
[30] US (62/921,504) 2019-06-24
[30] US (16/807,032) 2020-03-02

[21] **3,140,105**
[13] A1
[51] **Int.Cl. B65D 51/00 (2006.01) B01L 3/00 (2006.01)**
[25] EN
[54] **RECLOSING SEPTUM CAP FOR MEDICAL SAMPLE TRANSPORT AND PROCESSING**
[54] **CAPUCHON A CLOISON REFERMABLE POUR LE TRANSPORT ET LE TRAITEMENT D'ECHANTILLONS MEDICAUX**
[72] LIVINGSTON, DWIGHT, US
[72] LENTZ, AMMON DAVID, GB
[72] LEITCH, SHARON VIRGINIA LAMONT, US
[72] HERSHNER, GARY F., US
[72] LOHAN, DANIEL JUSTIN, US
[72] KELLEHER, JOSEPH, US
[72] SOOKLAL, ELISABETH LILY, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-11-30
[86] 2020-06-12 (PCT/US2020/037408)
[87] (WO2020/252243)
[30] US (62/861,043) 2019-06-13

[21] **3,140,106**
[13] A1
[51] **Int.Cl. H01M 10/0565 (2010.01) H01M 10/0525 (2010.01) C08J 5/22 (2006.01) C08L 51/08 (2006.01)**
[25] EN
[54] **IN-SITU POLYMERIZED POLYMER ELECTROLYTE FOR LITHIUM ION BATTERIES**
[54] **ELECTROLYTE POLYMERE POLYMERISE IN SITU POUR BATTERIES AU LITHIUM-ION**
[72] SU, SHASHA, CN
[72] JIANG, JINHUA, CN
[72] FENG, JING, CN
[72] LI, HONGPING, CN
[72] LU, HUICHAO, CN
[72] XU, ZHIXIN, CN
[72] YANG, JUN, CN
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-11-30
[86] 2019-06-06 (PCT/CN2019/090337)
[87] (WO2020/243948)

[21] **3,140,107**
[13] A1
[51] **Int.Cl. A61M 5/36 (2006.01) A61M 1/36 (2006.01) A61M 5/31 (2006.01) A61M 25/00 (2006.01) A61M 25/10 (2013.01) G01C 9/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PREPARING A CATHETER BEFORE USE**
[54] **SYSTEME ET PROCEDE DE PREPARATION D'UN CATHETER AVANT L'UTILISATION**
[72] VISSER, JOHANNES, DE
[72] CHUEV, ANDRE, DE
[71] ABIOMED EUROPE GMBH, DE
[85] 2021-11-30
[86] 2020-06-15 (PCT/EP2020/066459)
[87] (WO2020/254233)
[30] EP (19180927.6) 2019-06-18

[21] **3,140,111**
[13] A1
[51] **Int.Cl. A61M 16/04 (2006.01)**
[25] EN
[54] **TUBE INTRODUCER INTUBATION DEVICE**
[54] **DISPOSITIF D'INTUBATION D'INTRODUCTEUR DE TUBE**
[72] WAGNER, ZACH, US
[72] MONTGOMERY, MELISSA, US
[72] WATERS, JARRETT, US
[72] TOLLY, AARON JAMES, US
[72] HARRITY, ANDREW WILLIAM, US
[71] WOLF TECHNICAL SERVICES, INC., US
[85] 2021-11-30
[86] 2020-06-02 (PCT/US2020/035739)
[87] (WO2020/247386)
[30] US (62/856,103) 2019-06-02

[21] **3,140,122**
[13] A1
[51] **Int.Cl. G06N 3/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR IDENTIFYING ANOMALIES IN X-RAYS**
[54] **PROCEDE ET SYSTEME POUR IDENTIFIER DES ANOMALIES DANS DES RADIOGRAPHIES**
[72] LOPEZ GONZALEZ, RAFAEL, ES
[72] FOS GUARINOS, BELEN, ES
[72] GARCIA CASTRO, FABIO, ES
[72] JIMENEZ PASTOR, ANA MARIA, ES
[72] ALBERICH BAYARRI, ANGEL, ES
[72] MARTI BONMATI, LUIS, ES
[71] QUIBIM, S.L., ES
[85] 2021-11-30
[86] 2020-01-30 (PCT/ES2020/070068)
[87] (WO2020/254700)
[30] ES (P201930551) 2019-06-17

[21] **3,140,147**
[13] A1
[51] **Int.Cl. F16K 3/26 (2006.01) F16K 1/12 (2006.01) F16K 15/06 (2006.01) F16K 31/124 (2006.01) F16K 47/04 (2006.01) G05D 16/10 (2006.01)**
[25] EN
[54] **POSITION SENSOR FOR A FLUID FLOW CONTROL DEVICE**
[54] **CAPTEUR DE POSITION POUR UN DISPOSITIF DE COMMANDE DE DEBIT DE FLUIDE**
[72] KIROLLOS, BENJAMIN, GB
[72] SRIDHAR, VIKRAM, GB
[72] KENNELL, CHRISTOPHER, GB
[72] COLLINS, MATTHEW, GB
[71] OFIP LIMITED, GB
[85] 2021-11-30
[86] 2020-06-03 (PCT/GB2020/051335)
[87] (WO2020/245578)
[30] GB (1908174.4) 2019-06-07
[30] GB (PCT/GB2020/050784) 2020-03-24

[21] **3,140,149**
[13] A1
[51] **Int.Cl. C02F 1/463 (2006.01) C02F 1/46 (2006.01) C02F 1/461 (2006.01) C02F 1/465 (2006.01) C02F 1/48 (2006.01) C02F 1/52 (2006.01) C02F 1/66 (2006.01)**
[25] EN
[54] **REMOVAL OF MATERIALS FROM WATER**
[54] **ELIMINATION DE MATIERES DE L'EAU**
[72] BORRAS, CARLOS, US
[72] LUKE, DONALD A., US
[71] PHOSPHORUS FREE WATER SOLUTIONS, LLC, US
[85] 2021-11-30
[86] 2020-06-12 (PCT/US2020/037405)
[87] (WO2020/252241)
[30] US (62/860,433) 2019-06-12

[21] **3,140,152**
[13] A1
[51] **Int.Cl. B62B 5/04 (2006.01)**
[25] EN
[54] **BRAKE OPERATING ARRANGEMENT**
[54] **AGENCEMENT D'ACTIONNEMENT DE FREIN**
[72] MAKIN, JOHN, GB
[72] DAVIS, LUKE, GB
[72] BAKER, MARTIN, GB
[71] LOADHOG LIMITED, GB
[85] 2021-11-30
[86] 2020-06-24 (PCT/IB2020/055955)
[87] (WO2020/261130)
[30] GB (1909220.4) 2019-06-27
[30] GB (2009537.8) 2020-06-23

[21] **3,140,153**
[13] A1
[51] **Int.Cl. B60D 1/66 (2006.01) B60G 7/04 (2006.01) B60S 9/14 (2006.01) B60S 9/21 (2006.01) B62D 55/04 (2006.01)**
[25] EN
[54] **VEHICLE WITH DEPLOYABLE TOWING WHEELS AND SUSPENSION**
[54] **VEHICULE A ROUES DE REMORQUAGE DEPLOYABLES ET SUSPENSION**
[72] SAWYER, ZACHARY EDWARD, US
[72] XU, JASON WAN, US
[72] TAYLOR, COTE, US
[71] HOWE & HOWE INC., US
[85] 2021-11-30
[86] 2020-05-29 (PCT/US2020/035144)
[87] (WO2020/243445)
[30] US (62/855,511) 2019-05-31
[30] US (16/534,061) 2019-08-07
[30] US (62/988,690) 2020-03-12

[21] **3,140,155**
[13] A1
[51] **Int.Cl. B25J 13/02 (2006.01) B25J 15/00 (2006.01) B65G 47/90 (2006.01)**
[25] EN
[54] **ROBOTIC DEVICE CONFIGURATION**
[54] **CONFIGURATION DE DISPOSITIF ROBOTIQUE**
[72] FOFONOFF, TIMOTHY A., US
[72] SULLIVAN, JOHN, US
[71] RIGHTHAND ROBOTICS, INC., US
[85] 2021-11-30
[86] 2020-06-25 (PCT/US2020/039484)
[87] (WO2021/025800)
[30] US (62/883,689) 2019-08-07

[21] **3,140,156**
[13] A1
[51] **Int.Cl. B05B 1/30 (2006.01) A01M 7/00 (2006.01) B05B 12/00 (2018.01) B05B 12/08 (2006.01) F16K 37/00 (2006.01)**
[25] EN
[54] **NOZZLE FAULT DETECTION**
[54] **DETECTEUR DE DEFAUT DE BUSE**
[72] BREMER, MARSHALL T., US
[72] SCHLEUSNER, BRADLEY, US
[72] WOOD, DANIEL R., JR., US
[71] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US
[85] 2021-11-30
[86] 2020-05-29 (PCT/US2020/035150)
[87] (WO2020/243450)
[30] US (62/855,214) 2019-05-31

[21] **3,140,157**
[13] A1
[51] **Int.Cl. B01D 17/02 (2006.01) B01D 17/04 (2006.01)**
[25] EN
[54] **GREASE RECOVERY UNIT**
[54] **UNITE DE RECUPERATION DE GRAISSE**
[72] HIGGINS, MALCOLM CHRISTOPHER, GB
[71] FOG FELLOW DESIGNS LTD, GB
[85] 2021-11-30
[86] 2020-05-27 (PCT/GB2020/051274)
[87] (WO2020/240172)
[30] GB (1907783.3) 2019-05-31

[21] **3,140,158**
[13] A1
[51] **Int.Cl. A23D 7/00 (2006.01) A23D 7/005 (2006.01) A23D 7/02 (2006.01) A23D 9/00 (2006.01)**
[25] EN
[54] **PLANT OIL BASED FAT SPREAD**
[54] **MATIERE GRASSE A TARTINER A BASE D'HUILE VEGETALE**
[72] GUDEMAN, JOSH, US
[72] BURCHELL, JULIA, US
[72] KOVACEVIC, MARK, US
[72] BRODSKY, SERENA, US
[71] CONAGRA FOODS RDM, INC., US
[85] 2021-11-30
[86] 2020-06-03 (PCT/US2020/035862)
[87] (WO2020/247454)
[30] US (62/857,335) 2019-06-05
[30] US (16/891,461) 2020-06-03

[21] **3,140,159**
[13] A1
[51] **Int.Cl. A61B 10/00 (2006.01) A01N 1/02 (2006.01) B01L 3/00 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **MICROBIAL COLLECTION FORMULATIONS, DEVICES AND SYSTEMS**
[54] **FORMULATIONS, DISPOSITIFS ET SYSTEMES DE PRELEVEMENT MICROBIEN**
[72] COX, STEVEN M., US
[71] ANAEROBE SYSTEMS, US
[85] 2021-11-30
[86] 2020-06-05 (PCT/US2020/036457)
[87] (WO2020/247846)
[30] US (62/858,850) 2019-06-07
[30] US (63/025,709) 2020-05-15

[21] **3,140,160**
[13] A1
[51] **Int.Cl. A61M 5/31 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR PRECISION DOSE DELIVERY**
[54] **DISPOSITIFS ET PROCEDES POUR L'ADMINISTRATION PRECISE DE DOSES**
[72] ULLA, SIBGAT, US
[72] LANGLEY, TREVOR, US
[72] HALBIG, DANIEL, US
[72] GRYGUS, BRYAN, US
[72] SINGH, PRITHVI, US
[72] DUMONT, ANDREW, US
[72] BECHSTEIN, JUSTIN, US
[72] NETT, DAVID, US
[72] ODEGARD, JEREMY, US
[72] GILLUM, TASHA, US
[72] AINSWORTH, RYAN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2021-11-30
[86] 2020-06-04 (PCT/US2020/036200)
[87] (WO2020/247686)
[30] US (62/857,678) 2019-06-05
[30] US (62/860,481) 2019-06-12

[21] **3,140,165**
[13] A1
[51] **Int.Cl. H01L 51/42 (2006.01)**
[25] EN
[54] **A METHOD FOR PRODUCING A SEMICONDUCTING FILM OF ORGANIC-INORGANIC METAL-HALIDE COMPOUND WITH PEROVSKITE-LIKE STRUCTURE**
[54] **PROCEDE POUR PRODUIRE UN FILM SEMI-CONDUCTEUR DE COMPOSE HALOGENURE METALLIQUE ORGANIQUE-INORGANIQUE PRESENTANT UNE STRUCTURE DE TYPE PEROVSKITE**
[72] FATEEV, SERGEI ANATOLYEVICH, RU
[72] TARASOV, ALEXEY BORISOVICH, RU
[72] BELICH, NIKOLAI ANDREEVICH, RU
[72] GRISHKO, ALEKSEY IURIEVICH, RU
[72] SHLENSKAIA, NATALIA NIKOLAEVNA, RU
[72] GOODILIN, EUGENE ALEKSEEVICH, RU
[72] PETROV, ANDREY ANDREEVICH, RU
[71] JOINT STOCK COMPANY KRASNOYARSK HYDROPOWER PLANT (JSC KRASNOYARSK HPP), RU
[85] 2021-11-30
[86] 2020-06-16 (PCT/RU2020/050124)
[87] (WO2020/256594)
[30] RU (2019119025) 2019-06-19

[21] **3,140,169**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **PRENATAL MONITORING DEVICE**
[54] **DISPOSITIF DE SURVEILLANCE PRENATALE**
[72] CARLILE, ALI, US
[72] MUNGER, SETH, US
[72] BUNN, MICHAEL, US
[71] OWLET BABY CARE, INC., US
[85] 2021-11-30
[86] 2020-05-27 (PCT/US2020/034618)
[87] (WO2020/243121)
[30] US (62/855,033) 2019-05-31
[30] US (62/933,573) 2019-11-11

[21] **3,140,170**
[13] A1
[51] **Int.Cl. A61K 31/395 (2006.01) A61K 31/424 (2006.01) A61K 31/429 (2006.01) A61K 31/433 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61P 25/00 (2006.01) C07D 207/02 (2006.01) C07D 213/00 (2006.01) C07D 413/00 (2006.01)**
[25] EN
[54] **IMIDAZOLO DERIVATIVES, COMPOSITIONS AND METHODS AS OREXIN ANTAGONISTS**
[54] **DERIVES D'IMIDAZOLE, COMPOSITIONS ET PROCEDES EN TANT QU'ANTAGONISTES DE L'OREXINE**
[72] MEKONNEN, BELEW, US
[72] PATEL, HEMANTBHAI, US
[71] HAGER BIOSCIENCES, LLC, US
[85] 2021-11-30
[86] 2020-06-03 (PCT/US2020/035848)
[87] (WO2020/247445)
[30] US (62/856,830) 2019-06-04

[21] **3,140,173**
[13] A1
[51] **Int.Cl. A61K 31/395 (2006.01) A61K 31/4025 (2006.01) A61K 31/5375 (2006.01) C07D 207/02 (2006.01) C07D 213/00 (2006.01) C07D 413/00 (2006.01)**
[25] EN
[54] **PYRAZOLE AND IMIDAZOLE DERIVATIVES, COMPOSITIONS AND METHODS AS OREXIN ANTAGONISTS**
[54] **DERIVES DE PYRAZOLE ET D'IMIDAZOLE, COMPOSITIONS ET PROCEDES EN TANT QU'ANTAGONISTES DE L'OREXINE**
[72] MEKONNEN, BELEW, US
[72] PATEL, HEMANTBHAI, US
[71] HAGER BIOSCIENCES, LLC, US
[85] 2021-11-30
[86] 2020-06-03 (PCT/US2020/035851)
[87] (WO2020/247447)
[30] US (62/856,822) 2019-06-04

[21] **3,140,175**
[13] A1
[51] **Int.Cl. G01S 7/481 (2006.01) G01S 7/4863 (2020.01) G01S 7/4865 (2020.01) G01S 17/931 (2020.01) G01S 7/497 (2006.01) G01S 17/10 (2020.01)**
[25] EN
[54] **READING DEVICE AND LIDAR MEASURING DEVICE**
[54] **DISPOSITIF DE LECTURE ET DISPOSITIF DE MESURE LIDAR**
[72] BEUSCHEL, RALF, DE
[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE
[85] 2021-11-30
[86] 2020-06-25 (PCT/EP2020/067886)
[87] (WO2021/001261)
[30] DE (10 2019 209 698.0) 2019-07-02

[21] **3,140,180**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61P 37/02 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING AUTOIMMUNE DISEASES**
[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DE MALADIES AUTO-IMMUNES**
[72] GILLARD, GEOFFREY O., US
[72] PROCTOR, JENNIFER LYNN, US
[72] BOITANO, ANTHONY, US
[72] COOKE, MICHAEL, US
[71] MAGENTA THERAPEUTICS, INC., US
[85] 2021-11-30
[86] 2020-06-04 (PCT/US2020/036177)
[87] (WO2020/247670)
[30] US (62/857,232) 2019-06-04
[30] US (62/863,141) 2019-06-18
[30] US (62/882,310) 2019-08-02
[30] US (62/933,279) 2019-11-08
[30] US (62/944,988) 2019-12-06
[30] US (62/968,870) 2020-01-31
[30] US (63/030,860) 2020-05-27

[21] **3,140,181**
[13] A1
[51] **Int.Cl. E21B 4/16 (2006.01) E21B 4/20 (2006.01) E21B 10/02 (2006.01) E21B 10/44 (2006.01) E21B 10/60 (2006.01) E21B 25/04 (2006.01) E21B 49/02 (2006.01)**
[25] EN
[54] **DRILLING ARRANGEMENTS**
[54] **AGENCEMENTS DE FORAGE**
[72] REED, PAUL, AU
[71] REED, PAUL, AU
[85] 2021-11-30
[86] 2020-06-04 (PCT/AU2020/000046)
[87] (WO2020/243767)
[30] AU (2019901913) 2019-06-04

[21] **3,140,182**
[13] A1
[51] **Int.Cl. C02F 1/68 (2006.01) C02F 1/76 (2006.01)**
[25] EN
[54] **FORMING OF DISINFECTANT SOLUTIONS**
[54] **ELABORATION DE SOLUTIONS DESINFECTANTES**
[72] BUCHAN, PETER JAMES, ZA
[71] CONTROL CHEMICALS (PTY) LTD, ZA
[85] 2021-11-30
[86] 2020-06-05 (PCT/IB2020/055300)
[87] (WO2020/245777)
[30] ZA (2019/03589) 2019-06-05
[30] ZA (2019/03590) 2019-06-05
[30] ZA (2019/07048) 2019-10-25

[21] **3,140,186**
[13] A1
[51] **Int.Cl. G06T 7/50 (2017.01) G01B 11/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OBJECT RECOGNITION USING THREE DIMENSIONAL MAPPING TOOLS IN A COMPUTER VISION APPLICATION**
[54] **SYSTEME ET PROCEDE DE RECONNAISSANCE D'OBJETS UTILISANT DES OUTILS DE MAPPAGE TRIDIMENSIONNELS DANS UNE APPLICATION DE VISION ARTIFICIELLE**
[72] KURTOGLU, YUNUS EMRE, US
[72] CHILDERS, MATTHEW IAN, US
[71] BASF COATINGS GMBH, DE
[85] 2021-11-30
[86] 2020-06-05 (PCT/EP2020/065748)
[87] (WO2020/245441)
[30] EP (19179172.2) 2019-06-07
[30] US (62/858,355) 2019-06-07

[21] **3,140,187**
[13] A1
[51] **Int.Cl. B65D 43/02 (2006.01) A47G 19/22 (2006.01) B65D 17/40 (2006.01) B65D 41/16 (2006.01) B65D 43/16 (2006.01) B65D 43/18 (2006.01)**
[25] EN
[54] **RE-CLOSEABLE CAP FOR A CAN**
[54] **BOUCHON REFERMABLE POUR CANETTE**
[72] SAVENOK, PAVEL, US
[71] SAVENOK, PAVEL, US
[85] 2021-11-30
[86] 2020-04-30 (PCT/US2020/030882)
[87] (WO2020/242713)
[30] US (62/855,705) 2019-05-31
[30] US (16/791,062) 2020-02-14

[21] **3,140,188**
[13] A1
[51] **Int.Cl. A61L 9/01 (2006.01) C01B 11/02 (2006.01)**
[25] EN
[54] **PRESSURIZED CATALYTIC PRODUCTION OF DIOXIDE SPECIES**
[54] **PRODUCTION CATALYTIQUE SOUS PRESSION D'ESPECES DE DIOXYDE**
[72] SAMPSON, RICHARD, US
[72] SAMPSON, ALLISON, US
[72] MIALKOWSKI, JAMES ANDREW, US
[72] NIETO, MAURICIO MATA, US
[71] DRIPPING WET WATER, INC., US
[85] 2021-11-30
[86] 2020-05-26 (PCT/US2020/034528)
[87] (WO2020/247203)
[30] US (16/432,485) 2019-06-05

[21] **3,140,189**
[13] A1
[51] **Int.Cl. A61M 25/06 (2006.01) A61M 25/00 (2006.01) A61M 39/02 (2006.01) A61M 39/26 (2006.01)**
[25] EN
[54] **CATHETER ASSEMBLY HAVING A VALVE WITHIN A SIDE PORT OF A CATHETER ADAPTER**
[54] **ENSEMBLE CATHETER COMPORTANT UNE VALVE A L'INTERIEUR D'UN ORIFICE LATERAL D'UN ADAPTATEUR DE CATHETER**
[72] THIRUMOORTHY, SANKARANARAYANAN, IN
[72] BALAMURUGAN, MUKILAN, IN
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-11-30
[86] 2020-05-21 (PCT/US2020/034067)
[87] (WO2020/251738)
[30] US (62/860,537) 2019-06-12
[30] US (16/878,121) 2020-05-19

[21] **3,140,192**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF A MULTIVALENT, MULTISPECIFIC ANTIBODY EXPRESSING CELL BY TARGETED INTEGRATION OF MULTIPLE EXPRESSION CASSETTES IN A DEFINED ORGANIZATION**
[54] **PROCEDE DE GENERATION D'UNE CELLULE EXPRIMANT UN ANTICORPS MULTIVALENT, MULTISPECIFIQUE PAR INTEGRATION CIBLEE DE MULTIPLES CASSETTES D'EXPRESSION DANS UNE ORGANISATION DEFINIE**
[72] AUER, JOHANNES, DE
[72] AUSLAENDER, SIMON, DE
[72] POPP, MONIKA, DE
[72] GOEPFERT, ULRICH, DE
[72] HARBECK-JANSSEN, HEIDI, DE
[72] HOECK, CHRISTINA-LISA, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-11-30
[86] 2020-06-17 (PCT/EP2020/066677)
[87] (WO2020/254351)
[30] EP (19181094.4) 2019-06-19
[30] EP (19181095.1) 2019-06-19
[30] EP (19181097.7) 2019-06-19
[30] EP (19181098.5) 2019-06-19
[30] EP (19181099.3) 2019-06-19

[21] **3,140,195**
[13] A1
[51] **Int.Cl. G02B 5/30 (2006.01) G02F 1/13363 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OBJECT RECOGNITION USING FLUORESCENT AND ANTIREFLECTIVE SURFACE CONSTRUCTS**
[54] **SYSTEME ET PROCEDE DE RECONNAISSANCE D'OBJET A L'AIDE DE CONSTRUCTIONS DE SURFACE FLUORESCENTES ET ANTIREFLET**
[72] KURTOGLU, YUNUS EMRE, US
[72] CHILDERS, MATTHEW IAN, US
[71] BASF COATINGS GMBH, DE
[85] 2021-11-30
[86] 2020-06-05 (PCT/EP2020/065750)
[87] (WO2020/245443)
[30] EP (19179184.7) 2019-06-07
[30] US (62/858,358) 2019-06-07

[21] **3,140,197**
[13] A1
[51] **Int.Cl. G01S 17/931 (2020.01) G01S 7/4912 (2020.01) G01S 7/486 (2020.01)**
[25] EN
[54] **LIDAR RECEIVING UNIT**
[54] **UNITE DE RECEPTION LIDAR**
[72] BEUSCHEL, RALF, DE
[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE
[85] 2021-11-30
[86] 2020-06-19 (PCT/EP2020/067139)
[87] (WO2021/001177)
[30] DE (10 2019 209 697.2) 2019-07-02

[21] **3,140,198**
[13] A1
[51] **Int.Cl. B65D 81/18 (2006.01) B65D 25/02 (2006.01) F28D 15/02 (2006.01) F28D 15/04 (2006.01)**
[25] EN
[54] **HEAT PIPE COOLED PALLET SHIPPER**
[54] **CAISSE-PALETTE REFROIDIE PAR TUBES CALOPORTEURS**
[72] AHMED, IFTEKHAR, CA
[71] SONOCO DEVELOPMENT INC., US
[85] 2021-11-30
[86] 2020-06-03 (PCT/US2020/035864)
[87] (WO2020/247456)
[30] US (62/856,203) 2019-06-03

[21] **3,140,200**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR OBJECT RECOGNITION UNDER NATURAL AND/OR ARTIFICIAL LIGHT**
[54] **SYSTEME ET PROCEDE DE RECONNAISSANCE D'OBJETS SOUS LUMIERE NATURELLE ET/OU ARTIFICIELLE**
[72] KURTOGLU, YUNUS EMRE, US
[72] CHILDERS, MATTHEW IAN, US
[71] BASF COATINGS GMBH, DE
[85] 2021-11-30
[86] 2020-06-05 (PCT/EP2020/065749)
[87] (WO2020/245442)
[30] EP (19179181.3) 2019-06-07
[30] US (62/858,356) 2019-06-07

[21] **3,140,201**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS TARGETING HUMAN TAU**
[54] **COMPOSES ET PROCEDES CIBLANT LA PROTEINE TAU HUMAINE**
[72] CHAI, XIYUN, US
[72] CHEN, JINBIAO, US
[72] DAGE, JEFFREY L., US
[72] DRIVER, DAVID ALBERT, US
[72] HINTON, STEVEN FISHER, US
[72] SIEGEL, ROBERT WILLIAM, II, US
[72] VAILLANCOURT, PETER EDWARD, US
[71] ELI LILLY AND COMPANY, US
[85] 2021-11-30
[86] 2020-05-22 (PCT/US2020/034274)
[87] (WO2020/242963)
[30] US (62/855,331) 2019-05-31

[21] **3,140,202**
[13] A1
[51] **Int.Cl. C02F 11/147 (2019.01) B01D 37/02 (2006.01)**
[25] EN
[54] **DEWATERING AIDS**
[54] **ADJUVANTS DE DESHYDRATATION**
[72] HESAMPOUR, MEHRDAD, FI
[72] PENTTINEN, MATIAS, FI
[71] KEMIRA OYJ, FI
[85] 2021-11-30
[86] 2020-06-05 (PCT/EP2020/065717)
[87] (WO2020/245421)
[30] EP (19179195.3) 2019-06-07

[21] **3,140,204**
[13] A1
[51] **Int.Cl. A61K 38/04 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **HLA TUMOR ANTIGEN PEPTIDES OF CLASS I AND II FOR TREATING MAMMARY/BREAST CARCINOMAS**
[54] **PEPTIDES D'ANTIGENES TUMORAUX HLA DE CLASSE I ET II POUR LE TRAITEMENT DES CARCINOMES MAMMAIRES ET/OU DU SEIN**
[72] SCHONHARTING, WOLFGANG, DE
[72] URBAN, SYBILLE, DE
[71] PMCR GMBH, DE
[85] 2021-11-30
[86] 2020-06-02 (PCT/EP2020/065235)
[87] (WO2020/245126)
[30] DE (10 2019 114 735.2) 2019-06-02

[21] **3,140,205**
[13] A1
[51] **Int.Cl. C12N 15/00 (2006.01) C12N 5/078 (2010.01) C12N 5/10 (2006.01)**
[25] EN
[54] **CIRCULAR RNAS FOR CELLULAR THERAPY**
[54] **ARN CIRCULAIRES POUR THERAPIE CELLULAIRE**
[72] DE BOER, ALEXANDRA SOPHIE, US
[72] WEINSTEIN, ERICA GABRIELLE, US
[72] PLUGIS, NICHOLAS MCCARTNEY, US
[72] CIFUENTES-ROJAS, CATHERINE, US
[72] STEWART, MORAG HELEN, US
[72] KAHVEJIAN, AVAK, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2021-11-30
[86] 2020-06-14 (PCT/US2020/037670)
[87] (WO2020/252436)
[30] US (62/861,805) 2019-06-14
[30] US (62/967,537) 2020-01-29

[21] **3,140,254**
[13] A1
[51] **Int.Cl. A61M 1/36 (2006.01) A61F 2/02 (2006.01) A61M 1/16 (2006.01) A61M 1/34 (2006.01) A61M 37/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC TRANSDERMAL BIOREACTOR OR TRAP PATCH FOR DIABETES, PHENYLKETONURIA, AUTOIMMUNE, HYPERCHOLESTERINAEMIA AND OTHER DISORDERS**
[54] **BIOREACTOR TRANSDERMIQUE THERAPEUTIQUE OU TIMBRE DE PIEGEAGE POUR LE DIABETE, LA PHENYLCETONURIE, L'AUTO-IMMUNITE, L'HYPERCHOLESTERINEMIE ET AUTRES TROUBLES**
[72] LEKKOS, VASILEIOS, GB
[71] LEKKOS, VASILEIOS, GB
[85] 2021-12-01
[86] 2020-06-03 (PCT/IB2020/055221)
[87] (WO2020/148741)
[30] GB (1908043.1) 2019-06-05
[30] GB (1911263.0) 2019-08-06
[30] GB (1915959.9) 2019-11-04
[30] GB (1917094.3) 2019-11-23
[30] GB (1917532.2) 2019-12-02

[21] **3,140,256**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 20/20 (2012.01) G06Q 30/02 (2012.01) G06Q 30/06 (2012.01) A47F 1/12 (2006.01) G07F 9/02 (2006.01) G07F 11/62 (2006.01)**
[25] EN
[54] **LIVE INVENTORY MANAGEMENT SYSTEM AND METHODS THEREOF**
[54] **SYSTEME DE GESTION D'INVENTAIRE EN DIRECT ET PROCEDES ASSOCIES**
[72] SIENICKI, MARCIN, AU
[71] VDMS LIMITED (IRELAND), IE
[85] 2021-12-01
[86] 2020-06-03 (PCT/US2020/035806)
[87] (WO2020/247417)
[30] US (62/856,416) 2019-06-03

[21] **3,140,257**
[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **NEXT-GENERATION MODULATORS OF STIMULATOR OF INTERFERON GENES (STING)**
[54] **MODULATEURS DE STING (STIMULATEUR DE GENES D'INTERFERON) DE PROCHAINE GENERATION**
[72] ZAWADZKA, MAGDALENA IZABELA, PL
[72] STASI, LUIGI PIERO, PL
[72] ROGACKI, MACIEJ KRZYSZTOF, PL
[72] CWIERTNIA, GRZEGORZ WOJCIECH, PL
[72] DUDEK, LUKASZ PIOTR, PL
[72] DOBRZANSKA, MONIKA PATRYCJA, PL
[72] TOPOLNICKI, GRZEGORZ WITOLD, PL
[72] GIBAS, AGNIESZKA JUSTYNA, PL
[72] RAJDA, ANNA, PL
[72] SUDOL, SYLWIA, PL
[72] GLUZA, KAROLINA MARIA, PL
[72] FABRITIUS, CHARLES-HENRY, PL
[71] RYVU THERAPEUTICS S.A., PL
[85] 2021-12-01
[86] 2020-06-12 (PCT/EP2020/066370)
[87] (WO2020/249773)
[30] EP (19460034.2) 2019-06-12
[30] EP (19460067.2) 2019-12-11

[21] **3,140,261**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) B01D 19/00 (2006.01) B01D 53/22 (2006.01) C12M 1/04 (2006.01) C12M 3/06 (2006.01) G01N 1/40 (2006.01)**
[25] EN
[54] **COMPOUND DISTRIBUTION IN MICROFLUIDIC DEVICES**
[54] **DISTRIBUTION DE COMPOSES DANS DES DISPOSITIFS MICROFLUIDIQUES**
[72] SLIZ, JOSIAH, US
[72] LEVNER, DANIEL, US
[72] ZUCKERMAN, BRIAN, US
[72] WEN, NORMAN, US
[72] RUBINS, JONATHAN, US
[72] SHROFF, TANVI, US
[72] HINOJOSA, CHRISTOPHER DAVID, US
[72] AHN, GRACE, US
[72] ANTONTSEV, VICTOR, US
[72] PUERTA, JEFFERSON, US
[72] CONEGLIANO, DAVID, US
[72] KERNS, S. JORDAN, US
[71] EMULATE, INC., US
[85] 2021-12-01
[86] 2020-06-26 (PCT/US2020/039830)
[87] (WO2020/264303)
[30] US (62/867,543) 2019-06-27

[21] **3,140,263**
[13] A1
[51] **Int.Cl. H01L 29/15 (2006.01) H01L 21/98 (2006.01) H01L 29/16 (2006.01)**
[25] EN
[54] **QUANTUM HETEROSTRUCTURES, RELATED DEVICES AND METHODS FOR MANUFACTURING THE SAME**
[54] **HETEROSTRUCTURE QUANTIQUE, DISPOSITIFS ASSOCIES ET LEURS PROCEDES DE FABRICATION**
[72] MOUTANABBIR, OUSSAMA, CA
[72] ASSALI, SIMONE, CA
[72] ATTIAOUI, ANIS, CA
[72] DEL VECCHIO, PATRICK, CA
[71] MOUTANABBIR, OUSSAMA, CA
[71] ASSALI, SIMONE, CA
[71] ATTIAOUI, ANIS, CA
[71] DEL VECCHIO, PATRICK, CA
[85] 2021-12-01
[86] 2020-06-03 (PCT/CA2020/050764)
[87] (3140263)
[30] US (62/856,500) 2019-06-03

[21] **3,140,264**
[13] A1
[51] **Int.Cl. B60R 16/02 (2006.01)**
[25] EN
[54] **OVERMOLDED WIRING HARNESS**
[54] **FAISCEAU DE CABLAGE SURMOULE**
[72] WALLACE, AJENE, US
[71] AEES INC., US
[85] 2021-12-01
[86] 2020-06-05 (PCT/US2020/036371)
[87] (WO2020/247784)
[30] US (62/857,468) 2019-06-05

[21] **3,140,265**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 3/14 (2006.01) G01N 21/63 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FLUORESCENCE IMAGING OF BIOLOGICAL TISSUES**
[54] **SYSTEME ET PROCEDE D'IMAGERIE PAR FLUORESCENCE DE TISSUS BIOLOGIQUES**
[72] GAMLIEL, AVIHU MEIR, IL
[72] ALLON, NOAM, IL
[72] ARONOV, MICHAEL, IL
[72] MARGALIT, EYAL, IL
[71] SPRING VISION LTD., IL
[85] 2021-12-01
[86] 2020-06-21 (PCT/IL2020/050691)
[87] (WO2020/255147)
[30] US (62/864,191) 2019-06-20

[21] **3,140,268**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/58 (2006.01) A61F 2/08 (2006.01)**
[25] EN
[54] **DEVICE FOR SUTURE TENSIONING AND METHODS THEREOF**
[54] **DISPOSITIF DE TENSION DE SUTURE ET PROCEDES ASSOCIES**
[72] SAUER, JUDE S. M.D., US
[71] LSI SOLUTIONS, INC., US
[85] 2021-12-01
[86] 2020-06-10 (PCT/US2020/036947)
[87] (WO2020/251986)
[30] US (62/859,446) 2019-06-10

[21] **3,140,272**
[13] A1
[51] **Int.Cl. A63G 31/00 (2006.01) A63J 25/00 (2009.01)**
[25] EN
[54] **TECHNIQUES FOR SELECTIVE VIEWING OF PROJECTED IMAGES**
[54] **TECHNIQUES DE VISUALISATION SELECTIVE D'IMAGES PROJETEES**
[72] BLUM, STEVEN C., US
[72] MCQUILLIAN, BRIAN BIRNEY, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2021-12-01
[86] 2020-06-15 (PCT/US2020/037786)
[87] (WO2020/257113)
[30] US (62/863,622) 2019-06-19
[30] US (16/796,452) 2020-02-20

[21] **3,140,273**
[13] A1
[51] **Int.Cl. F16L 3/10 (2006.01) F16L 3/12 (2006.01)**
[25] EN
[54] **HOSE POSITIONER**
[54] **POSITIONNEUR DE TUYAU**
[72] WEBBER, RICHARD, AU
[71] STUT NO.1 PTY LTD, AU
[85] 2021-12-01
[86] 2019-06-24 (PCT/AU2019/050647)
[87] (WO2020/257841)

[21] **3,140,279**
[13] A1
[51] **Int.Cl. C07H 21/04 (2006.01) C12Q 1/6869 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **DIRECT ELECTRICAL READOUT OF NUCLEIC ACID SEQUENCES**
[54] **LECTURE ELECTRIQUE DIRECTE DE SEQUENCES D'ACIDES NUCLEIQUES**
[72] LINDSAY, STUART, US
[72] ZHANG, BINTIAN, US
[72] DENG, HANQING, US
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US
[85] 2021-12-01
[86] 2020-06-19 (PCT/US2020/038740)
[87] (WO2020/257654)
[30] US (62/864,174) 2019-06-20

[21] **3,140,287**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF A TRIVALENT ANTIBODY EXPRESSING CELL BY TARGETED INTEGRATION OF MULTIPLE EXPRESSION CASSETTES IN A DEFINED ORGANIZATION**
[54] **PROCEDE DE GENERATION D'UNE CELLULE EXPRIMANT UN ANTICORPS TRIVALENT PAR INTEGRATION CIBLEE DE MULTIPLES CASSETTES D'EXPRESSION DANS UNE ORGANISATION DEFINIE**
[72] AUER, JOHANNES, DE
[72] POPP, MONIKA, DE
[72] GOEPFERT, ULRICH, DE
[72] HOECK, CHRISTINA-LISA, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-01
[86] 2020-06-17 (PCT/EP2020/066678)
[87] (WO2020/254352)
[30] EP (19181095.1) 2019-06-19

[21] **3,140,288**
[13] A1
[51] **Int.Cl. B22D 11/14 (2006.01) B22D 41/38 (2006.01)**
[25] EN
[54] **SYSTEM FOR TRACKING AND ASSESSING THE CONDITION OF REFRACTORY ELEMENTS IN A METALLURGIC FACILITY**
[54] **SYSTEME DE SUIVI ET D'EVALUATION DE L'ETAT D'ELEMENTS REFRACTAIRES DANS UNE INSTALLATION METALLURGIQUE**
[72] ARNULF, PATRICK, FR
[72] FAVIA, ANTONIO, FR
[72] JUAN, DENIS, FR
[72] MARTIN, ERIC, FR
[72] MENNERICH, JAN, CH
[72] PICARD, CORENTIN, FR
[71] VESUVIUS GROUP, S.A., BE
[85] 2021-12-01
[86] 2020-06-08 (PCT/EP2020/065829)
[87] (WO2020/254134)
[30] EP (19181066.2) 2019-06-18
[30] EP (19181068.8) 2019-06-18

[21] **3,140,289**
[13] A1
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/24 (2006.01) A61M 5/34 (2006.01)**
[25] EN
[54] **PEN NEEDLE**
[54] **AIGUILLE POUR STYLO**
[72] LIMAYE, AMIT UDAY, US
[72] POGANSKI, DAVID, US
[72] HUANG, DAVID, US
[72] AQUISE, BRISHELL, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-12-01
[86] 2020-06-18 (PCT/US2020/038350)
[87] (WO2020/257398)
[30] US (62/864,116) 2019-06-20
[30] US (62/868,350) 2019-06-28

[21] **3,140,292**
[13] A1
[51] **Int.Cl. A63G 1/00 (2006.01) A63G 1/24 (2006.01) A63G 1/30 (2006.01) A63G 25/00 (2006.01)**
[25] EN
[54] **CHOREOGRAPHED RIDE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES POUR MANEGE DE TYPE CARROUSEL**
[72] LARBERG MACLEAN, LARA, US
[72] MASON, WILLIAM DALE, US
[72] VANCE, ERIC ALAN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2021-12-01
[86] 2020-06-15 (PCT/US2020/037732)
[87] (WO2020/257101)
[30] US (62/863,598) 2019-06-19
[30] US (16/513,475) 2019-07-16

[21] **3,140,293**
[13] A1
[51] **Int.Cl. E21B 29/02 (2006.01) C06B 25/00 (2006.01) C06B 43/00 (2006.01)**
[25] EN
[54] **DOWNHOLE TOOL WITH FUEL SYSTEM**
[54] **OUTIL DE FOND DE TROU A SYSTEME D'ALIMENTATION**
[72] OAG, JAMIE, GB
[72] FORSYTH, ANDREW, GB
[72] MCKAY, SIMON, GB
[72] KIRCHBERGER, CHRISTOPH, DE
[72] FREUDENMANN, DOMINIC, DE
[72] KURILOV, MAXIM, DE
[71] SPEX OIL & GAS LIMITED, GB
[85] 2021-12-01
[86] 2020-06-19 (PCT/EP2020/067246)
[87] (WO2020/254659)
[30] GB (1908786.5) 2019-06-19

[21] **3,140,294**
[13] A1
[51] **Int.Cl. C12N 7/00 (2006.01) A61P 31/04 (2006.01) C07K 14/005 (2006.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING MUTANT BACTERIOPHAGES FOR THE DETECTION OF LISTERIA**
[54] **PROCEDES DE PRODUCTION DE BACTERIOPHAGES MUTANTS POUR LA DETECTION DE LISTERIA**
[72] GIL, JOSE S., US
[72] ANDERSON, DWIGHT LYMAN, US
[72] ERICKSON, STEPHEN, US
[72] NGUYEN, MINH MINDY BAO, US
[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2021-12-01
[86] 2020-06-18 (PCT/US2020/038501)
[87] (WO2020/257502)
[30] US (62/864,894) 2019-06-21

[21] **3,140,295**
[13] A1
[51] **Int.Cl. B01D 61/38 (2006.01) C02F 1/46 (2006.01) C02F 1/72 (2006.01) C02F 3/02 (2006.01) C02F 3/08 (2006.01) C25B 1/26 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MARINE WASTEWATER TREATMENT**
[54] **PROCEDES ET SYSTEMES POUR LE TRAITEMENT DES EAUX USEES MARINES**
[72] CASBEER, DANA, US
[72] PATEL, SEHUL, US
[72] CHILDERS, HAROLD, US
[71] DE NORA WATER TECHNOLOGIES, LLC, US
[85] 2021-12-01
[86] 2020-06-25 (PCT/US2020/039607)
[87] (WO2020/264153)
[30] US (62/867,518) 2019-06-27

[21] **3,140,297**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF A PROTEIN EXPRESSING CELL BY TARGETED INTEGRATION USING CRE MRNA**
[54] **PROCEDE DE PRODUCTION D'UNE CELLULE EXPRIMANT UNE PROTEINE PAR INTEGRATION CIBLEE A L'AIDE D'ARNM DE CRE**
[72] AUSLAENDER, SIMON, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-01
[86] 2020-06-17 (PCT/EP2020/066688)
[87] (WO2020/254357)
[30] EP (19181099.3) 2019-06-19

[21] **3,140,298**
[13] A1
[51] **Int.Cl. E21B 17/046 (2006.01)**
[25] EN
[54] **PIPE COUPLING**
[54] **RACCORD DE TUYAUTERIE**
[72] MCMILLAN, JARON LYELL, NZ
[71] MCMILLAN, JARON LYELL, NZ
[85] 2021-12-01
[86] 2020-06-11 (PCT/IB2020/055506)
[87] (WO2020/254926)
[30] NZ (754719) 2019-06-19

[21] **3,140,301**
[13] A1
[51] **Int.Cl. A01N 25/10 (2006.01) A01N 43/54 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **MICROPARTICLE COMPOSITIONS COMPRISING SAFLUFENACIL**
[54] **COMPOSITIONS DE MICROPARTICULES COMPRENANT DU SAFLUFENACIL**
[72] STEINBRENNER, ULRICH, DE
[72] STEUERWALD, JOERG, DE
[72] KLAMCZYNSKI, KATHARINE, DE
[72] LAIK, WOLFGANG, DE
[71] BASF AGRO B.V., NL
[85] 2021-12-01
[86] 2020-05-27 (PCT/EP2020/064626)
[87] (WO2020/244978)
[30] EP (19179063.3) 2019-06-07

[21] **3,140,303**
[13] A1
[51] **Int.Cl. A01N 25/28 (2006.01) A01N 63/20 (2020.01)**
[25] EN
[54] **NEW FORMULATIONS OF MICROORGANISMS**
[54] **NOUVELLES FORMULATIONS DE MICRO-ORGANISMES**
[72] TAVARES ANDRE, RUTE DA CONCEICAO, DE
[72] BAIER, GRIT, DE
[72] WIESKE, ANJA, DE
[72] SCHOOF, SEBASTIAN, DE
[72] SANTOS RIBEIRO, HENELYTA, DE
[71] BASF SE, DE
[85] 2021-12-01
[86] 2020-05-27 (PCT/EP2020/064625)
[87] (WO2020/244977)
[30] EP (19179045.0) 2019-06-07

[21] **3,140,304**
[13] A1
[51] **Int.Cl. A61B 17/80 (2006.01) A61C 7/10 (2006.01) A61C 7/18 (2006.01)**
[25] EN
[54] **ORTHODONTIC EXPANSION DEVICE**
[54] **DISPOSITIF D'EXPANSION ORTHODONTIQUE**
[72] RADMAND, REZA, US
[72] COLE, STEPHEN J., US
[71] ACHAEMENID, LLC, US
[85] 2021-12-01
[86] 2020-06-04 (PCT/US2020/036033)
[87] (WO2020/247570)
[30] US (62/857,294) 2019-06-05

[21] **3,140,307**
[13] A1
[51] **Int.Cl. B65D 85/36 (2006.01)**
[25] EN
[54] **ENHANCED CONTENT SECURITY MECHANISMS AND RELATED CONTAINERS**
[54] **MECANISMES DE SECURITE DE CONTENUS AMELIORES ET CONTENANTS ASSOCIES**
[72] LOTFI, ALI, US
[71] LACERTA GROUP, INC., US
[71] LOTFI, ALI, US
[85] 2021-12-01
[86] 2020-06-02 (PCT/US2020/035781)
[87] (WO2020/247408)
[30] US (62/856,069) 2019-06-02

[21] **3,140,315**
[13] A1
[51] **Int.Cl. A62B 3/00 (2006.01) B23D 29/02 (2006.01) B25B 27/02 (2006.01)**
[25] EN
[54] **PORTABLE RESCUE DEVICE AND ARRANGEMENT COMPRISING A RESCUE DEVICE**
[54] **APPAREIL DE SAUVETAGE PORTATIF ET ENSEMBLE COMPRENANT UN APPAREIL DE SAUVETAGE**
[72] KIRCHNER, UWE, DE
[71] LUKAS HYDRAULIK GMBH, DE
[85] 2021-12-01
[86] 2019-07-18 (PCT/EP2019/069316)
[87] (WO2021/008707)

[21] **3,140,316**
[13] A1
[51] **Int.Cl. G06Q 50/16 (2012.01)**
[25] EN
[54] **ELECTRONIC LOCKBOX WITH SCHEDULE CONTROLLED ACCESS CREDENTIALS**
[54] **BOITE POSTALE ELECTRONIQUE A JUSTIFICATIFS D'ACCES CONTROLES PAR PROGRAMME**
[72] FISHER, SCOTT R., US
[72] SHRODER, CHARLES P., US
[71] SENTRILOCK, LLC, US
[85] 2021-12-01
[86] 2020-07-10 (PCT/US2020/041493)
[87] (WO2021/015963)
[30] US (62/878,123) 2019-07-24

[21] **3,140,317**
[13] A1
[51] **Int.Cl. G06F 30/323 (2020.01)**
[25] EN
[54] **BEHAVIORAL DESIGN RECOVERY FROM FLATTENED NETLIST**
[54] **RECUPERATION DE CONCEPTION COMPORTEMENTALE A PARTIR D'UNE LISTE D'INTERCONNEXIONS APLATIES**
[72] KIMURA, ADAM G., US
[72] ELLIOTT, ANDREW S., US
[72] PERKINS, DANIEL A., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2021-12-01
[86] 2020-06-10 (PCT/US2020/036903)
[87] (WO2020/251966)
[30] US (62/859,466) 2019-06-10

[21] **3,140,318**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF A BIVALENT, BISPECIFIC ANTIBODY EXPRESSING CELL BY TARGETED INTEGRATION OF MULTIPLE EXPRESSION CASSETTES IN A DEFINED ORGANIZATION**
[54] **PROCEDE DE GENERATION D'UNE CELLULE EXPRIMANT UN ANTICORPS BIVALENT BISPECIFIQUE PAR INTEGRATION CIBLEE DE MULTIPLES CASSETTES D'EXPRESSION DANS UNE ORGANISATION DEFINIE**
[72] AUER, JOHANNES, DE
[72] AUSLAENDER, SIMON, DE
[72] POPP, MONIKA, DE
[72] GOEPFERT, ULRICH, DE
[72] HOECK, CHRISTINA-LISA, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-01
[86] 2020-06-17 (PCT/EP2020/066685)
[87] (WO2020/254355)
[30] EP (19181097.7) 2019-06-19

[21] **3,140,320**
[13] A1
[51] **Int.Cl. A61B 5/11 (2006.01) G16H 40/20 (2018.01) G16H 40/63 (2018.01) A61G 7/00 (2006.01)**
[25] EN
[54] **CAREGIVER ASSISTANCE SYSTEM**
[54] **SYSTEME D'ASSISTANCE AU SOIGNANT**
[72] DURLACH, THOMAS JOSEPH, US
[72] NAVE, ROSS MICHAEL, US
[71] STRYKER CORPORATION, US
[85] 2021-12-01
[86] 2020-06-25 (PCT/US2020/039587)
[87] (WO2020/264140)
[30] US (62/868,360) 2019-06-28
[30] US (62/868,387) 2019-06-28
[30] US (62/868,947) 2019-06-30

[21] **3,140,321**
[13] A1
[51] **Int.Cl. D21C 11/00 (2006.01) C07G 1/00 (2011.01)**
[25] EN
[54] **PROCESSES FOR EXTRACTING LIGNIN FROM BLACK LIQUOR**
[54] **PROCEDES D'EXTRACTION DE LIGNINE DE LIQUEUR NOIRE**
[72] BOHRER LOBOSCO GONZAGA DE OLIVEIRA, VINICIUS, BR
[72] POSSA BORGES FRANCO, LUCAS, BR
[71] SUZANO S.A., BR
[85] 2021-12-01
[86] 2020-06-01 (PCT/BR2020/050196)
[87] (WO2020/243805)
[30] BR (BR 10 2019 011474 6) 2019-06-03

[21] **3,140,322**
[13] A1
[51] **Int.Cl. F42B 12/36 (2006.01) F42B 12/34 (2006.01)**
[25] EN
[54] **PROJECTILE, IN PARTICULAR DEFORMATION AND/OR PARTIAL FRAGMENTATION PROJECTILE, AND METHOD FOR PRODUCING A PROJECTILE**
[54] **PROJECTILE, EN PARTICULIER BALLE A DEFORMATION ET/OU A DECOMPOSITION PARTIELLE, ET PROCEDE DE FABRICATION D'UN PROJECTILE**
[72] SPANNER, FLORIAN, DE
[71] RUAG AMMOTEC GMBH, DE
[85] 2021-12-01
[86] 2020-06-12 (PCT/EP2020/066387)
[87] (WO2020/249788)
[30] DE (10 2019 116 125.8) 2019-06-13

[21] **3,140,323**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF A MULTIVALENT, BISPECIFIC ANTIBODY EXPRESSING CELL BY TARGETED INTEGRATION OF MULTIPLE EXPRESSION CASSETTES IN A DEFINED ORGANIZATION**
[54] **PROCEDE DE GENERATION D'UNE CELLULE EXPRIMANT UN ANTICORPS MULTIVALENT, BISPECIFIQUE PAR INTEGRATION CIBLEE DE MULTIPLES CASSETTES D'EXPRESSION DANS UNE ORGANISATION DEFINIE**
[72] AUER, JOHANNES, DE
[72] POPP, MONIKA, DE
[72] HOECK, CHRISTINA-LISA, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-01
[86] 2020-06-17 (PCT/EP2020/066687)
[87] (WO2020/254356)
[30] EP (19181098.5) 2019-06-19

[21] **3,140,324**
[13] A1
[51] **Int.Cl. G01H 1/00 (2006.01) G01M 13/045 (2019.01)**
[25] FR
[54] **METHOD FOR ACQUIRING DATA FOR DETECTING DAMAGE TO A BEARING**
[54] **PROCEDE D'ACQUISITION DE DONNEES POUR LA DETECTION D'UN ENDOMMAGEMENT D'UN PALIER**
[72] DEMAISON, FRANCOIS MAURICE MARCEL, FR
[72] POUGEON, JEAN-ROBERT ANDRE FERNAND, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-12-01
[86] 2020-06-18 (PCT/FR2020/051064)
[87] (WO2020/260807)
[30] FR (FR1907008) 2019-06-27

[21] **3,140,325**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/52 (2006.01) A61K 38/21 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **SYNERGISTIC EFFECT OF EYP001 AND IFN FOR THE TREATMENT OF HBV INFECTION**
[54] **EFFET SYNERGIQUE D'EYP001 ET D'IFN POUR LE TRAITEMENT D'UNE INFECTION PAR LE VIRUS DE L'HEPATITE B**
[72] VONDERSCHER, JACKY, FR
[72] ROY, ELISE, CH
[72] DARTEIL, RAPHAEL, FR
[72] SCALFARO, PIETRO, CH
[71] ENYO PHARMA, FR
[85] 2021-12-01
[86] 2020-07-17 (PCT/EP2020/070241)
[87] (WO2021/009333)
[30] EP (19186941.1) 2019-07-18

[21] **3,140,327**
[13] A1
[51] **Int.Cl. C02F 1/461 (2006.01)**
[25] EN
[54] **ELECTROCHEMICALLY ACTIVATED PERSULFATE FOR ADVANCED OXIDATION PROCESSES**
[54] **PERSULFATE ACTIVE ELECTROCHIMIQUEMENT POUR PROCESSUS D'OXYDATION AVANCEE**
[72] CHEN, YANG, US
[71] EVOQUA WATER TECHNOLOGIES, LLC, US
[85] 2021-12-01
[86] 2020-06-17 (PCT/US2020/038029)
[87] (WO2020/257218)
[30] US (62/863,459) 2019-06-19

[21] **3,140,359**
[13] A1
[51] **Int.Cl. G06F 16/21 (2019.01) G06F 21/31 (2013.01) G06F 21/44 (2013.01) G06F 21/45 (2013.01) G06F 16/27 (2019.01)**
[25] EN
[54] **MULTI-USER DATABASE SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE BASE DE DONNEES MULTI-UTILISATEUR**
[72] MEIER, SIMON, CH
[72] KFIR, SHAUL, US
[72] LITSIOS, JAMES BENTON, CH
[71] DIGITAL ASSET (SWITZERLAND) GMBH, CH
[85] 2021-12-02
[86] 2019-07-19 (PCT/US2019/042609)
[87] (WO2020/246998)
[30] US (62/856,808) 2019-06-04

[21] **3,140,398**
[13] A1
[51] **Int.Cl. B60N 2/00 (2006.01) B60R 22/48 (2006.01)**
[25] EN
[54] **MONITORING SYSTEM FOR BUSES**
[54] **SYSTEME DE SURVEILLANCE POUR DES BUS**
[72] CARBONE, INNOCENZO SALVATORE, IT
[72] ABBATE, MARIA, IT
[71] LAZZERINI SOCIETA'A RESPONSABILITA' LIMITATA, IT
[85] 2021-12-02
[86] 2020-06-03 (PCT/EP2020/065354)
[87] (WO2020/245201)
[30] IT (102019000008046) 2019-06-04

[21] **3,140,403**
[13] A1
[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6844 (2018.01)**
[25] EN
[54] **METHOD FOR PREPARING NESTED MULTIPLEX PCR HIGH-THROUGHPUT SEQUENCING LIBRARY AND KIT**
[54] **PROCEDE DE PREPARATION D'UNE BANQUE DE SEQUENCAGE A HAUT DEBIT DE PCR MULTIPLEX NICHEE ET KIT**
[72] YANG, LIN, CN
[72] ZHANG, YANYAN, CN
[72] CHEN, FANG, CN
[72] JIANG, HUI, CN
[71] MGI TECH CO., LTD., CN
[85] 2021-12-02
[86] 2019-06-26 (PCT/CN2019/093066)
[87] (WO2020/258084)

[21] **3,140,410**
[13] A1
[51] **Int.Cl. C07H 1/00 (2006.01) A61K 51/04 (2006.01) C07H 21/00 (2006.01) G01N 33/60 (2006.01)**
[25] EN
[54] **RADIOLABELED MOEM TYPE OLIGONUCLEOTIDES AND PROCESS FOR THEIR PREPARATION**
[54] **OLIGONUCLEOTIDES DE TYPE MOEM RADIOMARQUES ET LEUR PROCEDE DE PREPARATION**
[72] EDELMANN, MARTIN, CH
[72] MUSER, THORSTEN, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-02
[86] 2020-06-19 (PCT/EP2020/067058)
[87] (WO2020/254548)
[30] EP (19181407.8) 2019-06-20

[21] **3,140,411**
[13] A1
[51] **Int.Cl. C07H 15/20 (2006.01) A61K 31/704 (2006.01)**
[25] EN
[54] **SAPONIN CONJUGATE AND VACCINE OR PHARMACEUTICAL COMPOSITION COMPRISING THE SAME**
[54] **CONJUGUE DE SAPONINE ET VACCIN OU COMPOSITION PHARMACEUTIQUE LE COMPRENANT**
[72] LAI, YEN-HSUN, CN
[72] CHANG, CHUN-KAI, CN
[72] CHAW, CHEE-WAI, CN
[72] LIANG, PI-HUI, CN
[71] LIANG, PI-HUI, CN
[85] 2021-12-02
[86] 2020-06-01 (PCT/CN2020/093784)
[87] (WO2020/244483)
[30] US (62/856,729) 2019-06-03

[21] **3,140,420**
[13] A1
[51] **Int.Cl. C11D 17/04 (2006.01) C11D 3/00 (2006.01)**
[25] EN
[54] **DYE-CAPTURING NON-WOVEN FABRIC AND METHOD FOR PRODUCING THE SAME**
[54] **TISSU NON TISSE DE CAPTURE DE COLORANT ET PROCEDE POUR SA PRODUCTION**
[72] BEVERIDGE, COLIN, GB
[72] BAUER, ARMIN, DE
[72] NAGY, MATE, DE
[71] GLATFELTER GERNSBACH GMBH & CO. KG, DE
[85] 2021-12-02
[86] 2020-05-19 (PCT/EP2020/063964)
[87] (WO2020/244925)
[30] EP (19178414.9) 2019-06-05

[21] **3,140,424**
[13] A1
[51] **Int.Cl. H04B 7/0456 (2017.01) H04B 7/06 (2006.01)**
[25] EN
[54] **CALCULATION OF BEAMFORMING WEIGHTS FOR RECIPROCITY BASED BEAMFORMING WITHOUT UE TRANSMIT ANTENNA SELECTION**
[54] **CALCUL DE POIDS DE FORMATION DE FAISCEAU POUR UNE FORMATION DE FAISCEAU BASEE SUR LA RECIPROCITE SANS SELECTION D'ANTENNE DE TRANSMISSION D'UE**
[72] LONG, JIANGUO, CA
[72] QIANG, YONGQUAN, CA
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2021-12-02
[86] 2019-06-21 (PCT/IB2019/055268)
[87] (WO2020/254867)

[21] **3,140,431**
[13] A1
[51] **Int.Cl. C12P 19/14 (2006.01) C12P 19/20 (2006.01)**
[25] EN
[54] **METHODS FOR DECOUPLING YIELD AND PRODUCTIVITY OF A NON-CATABOLIC COMPOUND PRODUCED BY A HOST CELL**
[54] **PROCEDES DE DECOUPLAGE DE RENDEMENT ET DE PRODUCTIVITE D'UN COMPOSE NON CATABOLIQUE PRODUIT PAR UNE CELLULE HOTE**
[72] CHUA, PENELOPE R., US
[72] LERMAN, JOSHUA ADAM, US
[72] SCHERBART, THOMAS JON, US
[72] THAKKER, CHANDRESH, US
[72] TSONG, ANNIE ENING, US
[72] JIANG, HANXIAO, US
[71] AMYRIS, INC., US
[85] 2021-12-02
[86] 2020-06-05 (PCT/US2020/036417)
[87] (WO2020/247816)
[30] US (62/858,152) 2019-06-06
[30] US (63/034,883) 2020-06-04

[21] **3,140,435**
[13] A1
[51] **Int.Cl. A61K 45/00 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **METHOD FOR TREATMENT OF AT RISK PATIENTS**
[54] **PROCEDE DE TRAITEMENT DE PATIENTS A RISQUE**
[72] BROZEK, JOHN, FR
[72] DAM, NOEMIE, FR
[72] HAJJI, YACINE, FR
[72] HANF, REMY, FR
[71] GENFIT, FR
[85] 2021-12-02
[86] 2020-06-08 (PCT/EP2020/065781)
[87] (WO2020/245450)
[30] EP (19305742.9) 2019-06-07

[21] **3,140,438**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61K 31/7115 (2006.01) A61K 31/7125 (2006.01) A61P 43/00 (2006.01) C07H 21/02 (2006.01)**
[25] EN
[54] **STABLE TARGET-EDITING GUIDE RNA HAVING CHEMICALLY MODIFIED NUCLEIC ACID INTRODUCED THEREINTO**
[54] **ARN GUIDE STABLE D'EDITION CIBLE DANS LEQUEL UN ACIDE NUCLEIQUE CHIMIQUEMENT MODIFIE A ETE INTRODUIT**
[72] FUKUDA, MASATORA, JP
[72] KOIZUMI, MAKOTO, JP
[72] IWASHITA, SHINZO, JP
[71] FUKUOKA UNIVERSITY, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2021-12-02
[86] 2020-06-04 (PCT/JP2020/022200)
[87] (WO2020/246560)
[30] JP (2019-105532) 2019-06-05
[30] JP (2019-148463) 2019-08-13

[21] **3,140,441**
[13] A1
[51] **Int.Cl. D21C 3/00 (2006.01) D21C 5/00 (2006.01)**
[25] EN
[54] **PROCESS FOR CONTINUOUSLY PREPARING A BROKEN-UP CELLULOSE-CONTAINING STARTING MATERIAL**
[54] **PROCEDE DE FOURNITURE CONTINUE D'UNE MATIERE DE DEPART TRAITEE CONTENANT DE LA CELLULOSE**
[72] HERCHL, RICHARD, AT
[72] WEILACH, CHRISTIAN, AT
[71] LENZING AKTIENGESELLSCHAFT, AT
[85] 2021-12-02
[86] 2020-05-29 (PCT/EP2020/065047)
[87] (WO2020/245058)
[30] EP (19178170.7) 2019-06-04

[21] **3,140,442**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/81 (2006.01)**
[25] EN
[54] **INCREASED NUCLEIC ACID-GUIDED CELL EDITING VIA A LEXA-RAD51 FUSION PROTEIN**
[54] **MODIFICATION ACCRUE D'UNE CELLULE GUIDEE PAR UN ACIDE NUCLEIQUE PAR L'INTERMEDIAIRE D'UNE PROTEINE DE FUSION LEXA-RAD51**
[72] GANDER, MILES, US
[72] TIAN, TIAN, US
[72] SPINDLER, EILEEN, US
[71] INSCRIPTA, INC., US
[85] 2021-12-02
[86] 2020-07-01 (PCT/US2020/040389)
[87] (WO2021/007080)
[30] US (62/871,325) 2019-07-08

[21] **3,140,443**
[13] A1
[51] **Int.Cl. G01M 3/20 (2006.01) G06V 10/14 (2022.01) G06V 10/56 (2022.01)**
[25] EN
[54] **METHOD AND DEVICE FOR DETECTING A FLUID BY A COMPUTER VISION APPLICATION**
[54] **PROCEDE ET DISPOSITIF DE DETECTION D'UN FLUIDE PAR UNE APPLICATION DE VISION ARTIFICIELLE**
[72] KURTOGLU, YUNUS EMRE, US
[72] CHILDERS, MATTHEW IAN, US
[71] BASF COATINGS GMBH, DE
[85] 2021-12-02
[86] 2020-06-05 (PCT/EP2020/065746)
[87] (WO2020/245439)
[30] EP (19179159.9) 2019-06-07
[30] US (62/858,353) 2019-06-07

[21] **3,140,446**
[13] A1
[25] EN
[54] **DEVICE AND METHOD FOR FORMING AT LEAST ONE GROUND TRUTH DATABASE FOR AN OBJECT RECOGNITION SYSTEM**
[54] **DISPOSITIF ET PROCEDE DE FORMATION D'AU MOINS UNE BASE DE DONNEES DE VERITE DE BASE POUR UN SYSTEME DE RECONNAISSANCE D'OBJETS**
[72] KURTOGLU, YUNUS EMRE, US
[72] CHILDERS, MATTHEW IAN, US
[71] BASF COATINGS GMBH, DE
[85] 2021-12-02
[86] 2020-06-05 (PCT/EP2020/065747)
[87] (WO2020/245440)
[30] EP (19179166.4) 2019-06-07
[30] US (62/858,354) 2019-06-07

[21] **3,140,449**
[13] A1
[51] **Int.Cl. G06V 20/00 (2022.01) G06V 10/145 (2022.01) G06V 10/60 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OBJECT RECOGNITION USING 3D MAPPING AND MODELING OF LIGHT**
[54] **SYSTEME ET PROCEDE DE RECONNAISSANCE D'OBJET A L'AIDE D'UN MAPPAGE ET D'UNE MODELISATION 3D DE LA LUMIERE**
[72] KURTOGLU, YUNUS EMRE, US
[72] CHILDERS, MATTHEW IAN, US
[71] BASF COATINGS GMBH, DE
[85] 2021-12-02
[86] 2020-06-05 (PCT/EP2020/065751)
[87] (WO2020/245444)
[30] US (62/858,359) 2019-06-07
[30] EP (19179186.2) 2019-06-07

[21] **3,140,450**
[13] A1
[51] **Int.Cl. C12N 5/077 (2010.01) A23L 33/00 (2016.01)**
[25] EN
[54] **IN VITRO AVIAN FOOD PRODUCT**
[54] **PRODUIT ALIMENTAIRE AVIAIRE IN VITRO**
[72] MULLEN, NICHOLAS, US
[72] PARK, NATHANIEL, US
[72] JONES, CHRISTOPHER, US
[72] BOWMAN, THOMAS, US
[72] BIGNONE, PAOLA, US
[72] ESPIRITO SANTO, VITOR, US
[72] KAMBAM, PAVAN, US
[72] HAQUE, AMRANUL, US
[72] AMADI, IFEANYI MICHAEL, US
[71] GOOD MEAT, INC., US
[85] 2021-12-02
[86] 2020-06-12 (PCT/US2020/037596)
[87] (WO2020/252388)
[30] US (62/861,948) 2019-06-14

[21] **3,140,452**
[13] A1
[51] **Int.Cl. C12N 5/0775 (2010.01)**
[25] EN
[54] **EXTRACELLULAR VESICLES DERIVED FROM MESENCHYMAL STEM CELLS**
[54] **VESICULES EXTRACELLULAIRES DERIVEES DE CELLULES SOUCHES MESENCHYMATEUSES**
[72] DE FRANCISCO, ANGELITA, FR
[72] HAN, ZHONGCHAO, CN
[71] HEALTH AND BIOTECH FRANCE (H & B FRANCE), FR
[71] BEIJING HEALTH AND BIOTECH CO., LTD., CN
[85] 2021-12-02
[86] 2019-06-11 (PCT/EP2019/065232)
[87] (WO2019/238693)
[30] IB (PCT/IB2018/000796) 2018-06-11

[21] **3,140,453**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/48 (2006.01) A61K 47/02 (2006.01) A61K 47/18 (2017.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **LIQUID BOTULINUM TOXIN COMPOSITION FOR TREATING MODERATE TO VERY SEVERE GLABELLAR LINES AND LATERAL CANTHAL LINES**
[54] **COMPOSITION DE TOXINE BOTULIQUE LIQUIDE POUR LE TRAITEMENT DE RIDES GLABELLAIRES ET DE RIDES CANTHALES LATERALES MODEREES A TRES SEVERES**
[72] PICKETT, ANDREW, SE
[72] ALMEGARD, BIRGITTA, SE
[72] GAUFFIN, CHARLOTTA, SE
[72] KARIN, ALEKSANDRA, SE
[72] NILSSON, ANNA, SE
[72] EMILSON, AXEL, SE
[71] GALDERMA HOLDING SA, CH
[71] IPSEN BIOPHARM LIMITED, GB
[85] 2021-12-02
[86] 2020-06-06 (PCT/IB2020/055340)
[87] (WO2020/245803)
[30] US (62/858,766) 2019-06-07

[21] **3,140,454**
[13] A1
[51] **Int.Cl. B29C 64/165 (2017.01) B33Y 50/02 (2015.01) B29C 64/194 (2017.01) B29C 64/245 (2017.01) B29C 64/295 (2017.01) B29C 64/393 (2017.01)**
[25] EN
[54] **METHOD OF MANUFACTURING AT LEAST ONE COMPONENT BY 3D PRINTING AND 3D PRINTER**
[54] **PROCEDE POUR LA FABRICATION D'AU MOINS UN COMPOSANT EN IMPRESSION 3D ET IMPRIMANTE 3D**
[72] MULLER, ANDREAS, DE
[72] LADEWIG, ROLAND, DE
[71] EXONE GMBH, DE
[85] 2021-12-02
[86] 2020-06-04 (PCT/EP2020/065536)
[87] (WO2020/245301)
[30] EP (19179085.6) 2019-06-07

[21] **3,140,457**
[13] A1
[51] **Int.Cl. C08L 29/04 (2006.01) B32B 7/025 (2019.01) C08K 3/18 (2006.01) C08K 5/053 (2006.01) H02N 2/04 (2006.01)**
[25] EN
[54] **STRETCHABLE SOLID-STATE ELECTROACTIVE POLYMER ACTUATORS**
[54] **ACTIONNEURS POLYMERES ELECTROACTIFS ETIRABLES A SEMI-CONDUCTEURS**
[72] RAJAGOPALAN, SUMITRA, CA
[72] KUMAR, PRAJWAL, CA
[72] SUAREZ, OSCAR, CA
[72] SAEIDLOU, SAJJAD, CA
[72] KRYUCHKOV, MAKSYM, CA
[72] RAMANANARIVO, MATHIEU, CA
[72] TOKAREV, ALEXEY, CA
[72] COTTENYE, NICOLAS, CA
[72] PLATHIER, JULIEN, CA
[71] BIOASTRA TECHNOLOGIES, INC., CA
[85] 2021-12-02
[86] 2019-06-04 (PCT/CA2019/050772)
[87] (WO2019/232621)
[30] US (62/680,618) 2018-06-05

[21] **3,140,458**
[13] A1
[51] **Int.Cl. G01N 15/14 (2006.01) G01N 35/00 (2006.01) H01J 49/26 (2006.01)**
[25] EN
[54] **LABORATORY AUTOMATION SYSTEM IMPLEMENTING EFFICIENT PATH FOR MATERIAL AND LABWARE TRANSFERS**
[54] **SYSTEME D'AUTOMATISATION DE LABORATOIRE METTANT EN ?UVRE UN TRAJET EFFICACE POUR DES TRANSFERTS DE MATERIAU ET DE MATERIEL DE LABORATOIRE**
[72] BREMNER, CHRISTOPHER, US
[71] ZYMERGEN INC., US
[85] 2021-12-02
[86] 2020-06-26 (PCT/US2020/039770)
[87] (WO2020/264260)
[30] US (62/867,447) 2019-06-27

[21] **3,140,459**
[13] A1
[51] **Int.Cl. C10B 53/02 (2006.01)**
[25] EN
[54] **PRODUCTION OF PRODUCTS FROM BIOMASS**
[54] **PRODUCTION DE PRODUITS A PARTIR DE BIOMASSE**
[72] GOLDSCHLAGER, RONALD DAVID, AU
[71] HERMAL BIO ENERGY INTERNATIONAL PTY LTD, AU
[85] 2021-12-02
[86] 2020-06-08 (PCT/AU2020/050582)
[87] (WO2020/243796)
[30] AU (2019901956) 2019-06-06

[21] **3,140,460**
[13] A1
[51] **Int.Cl. C12N 15/87 (2006.01) A61K 48/00 (2006.01) C08L 71/00 (2006.01)**
[25] EN
[54] **CATIONIC POLOXAMERS AND THEIR USE IN TRANSDUCTION**
[54] **POLOXAMERES CATIONIQUES ET LEUR UTILISATION DANS LA TRANSDUCTION**
[72] POULHES, FLORENT, FR
[72] SAPET, CEDRIC, FR
[72] ZELPHATI, OLIVIER, FR
[71] OZ BIOSCIENCES, FR
[85] 2021-12-02
[86] 2020-07-10 (PCT/EP2020/069517)
[87] (WO2021/009030)
[30] EP (19305950.8) 2019-07-18

[21] **3,140,461**
[13] A1
[51] **Int.Cl. G01V 1/104 (2006.01) F42D 3/06 (2006.01)**
[25] EN
[54] **DEPLOYMENT OF QUASI-PLANAR SHOCK WAVE GENERATORS IN ASSOCIATION WITH SEISMIC EXPLORATION**
[54] **DEPLOIEMENT DE GENERATEURS D'ONDE DE CHOC QUASI-PLANAIRE EN ASSOCIATION AVEC UNE EXPLORATION SISMIQUE**
[72] PETROVIC, EDDIE, AU
[72] BREALEY, CLINT, AU
[72] KOTSONIS, STEVE, AU
[72] BRADLEY, MELANIE, AU
[72] PREECE, DALE S., US
[71] ORICA INTERNATIONAL PTE LTD, SG
[85] 2021-12-02
[86] 2020-06-26 (PCT/SG2020/050371)
[87] (WO2020/263194)
[30] US (62/867,193) 2019-06-26

[21] **3,140,462**
[13] A1
[51] **Int.Cl. B29B 17/02 (2006.01) B29B 17/04 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING A BROKEN-UP, CELLULOSE-CONTAINING, STARTING MATERIAL WITH A PREDEFINED FIBRE-LENGTH DISTRIBUTION**
[54] **PROCEDE DE MISE A DISPOSITION D'UNE MATIERE DE DEPART TRAITEE CONTENANT DE LA CELLULOSE A REPARTITION EN LONGUEUR DES FIBRES PREDEFINIE**
[72] HERCHL, RICHARD, AT
[72] WEILACH, CHRISTIAN, AT
[71] LENZING AKTIENGESELLSCHAFT, AT
[85] 2021-12-02
[86] 2020-05-29 (PCT/EP2020/065045)
[87] (WO2020/245056)
[30] EP (19178193.9) 2019-06-04

[21] **3,140,463**
[13] A1
[51] **Int.Cl. A61M 25/10 (2013.01)**
[25] EN
[54] **LAMINATION APPARATUS FOR MEDICAL BALLOONS AND RELATED METHODS**
[54] **APPAREIL DE STRATIFICATION POUR BALLONNETS MEDICAUX ET PROCEDES ASSOCIES**
[72] BOYLE, MELISSA, US
[72] SOLOMON, CLINT, US
[72] SANCHEZ-GARCIA, EDGAR, US
[72] MILLAR, CLAIRE, US
[71] C.R.BARD, INC., US
[85] 2021-12-02
[86] 2019-07-19 (PCT/US2019/042576)
[87] (WO2021/015712)

[21] **3,140,467**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01)**
[25] EN
[54] **PYRROLOPYRIMIDINE COMPOUND AND USE THEREOF**
[54] **COMPOSE DE PYRROLOPYRIMIDINE ET SON UTILISATION**
[72] QIAN, WENYUAN, CN
[72] WEI, CHANGQING, CN
[72] HU, GUOPING, CN
[72] LI, JIAN, CN
[72] CHEN, SHUHUI, CN
[71] GUANGZHOU JOYO PHARMATECH CO., LTD, CN
[71] MEDSHINE DISCOVERY INC., CN
[85] 2021-12-02
[86] 2020-06-05 (PCT/CN2020/094534)
[87] (WO2020/244614)
[30] CN (201910487056.7) 2019-06-05

[21] **3,140,468**
[13] A1
[51] **Int.Cl. A01G 33/00 (2006.01) A01G 18/00 (2018.01) B01D 67/00 (2006.01) B01D 69/00 (2006.01) B01D 71/00 (2006.01) B01D 71/26 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01) C12M 3/00 (2006.01)**
[25] EN
[54] **CULTIVATION SYSTEMS FOR SEAWEEDS**
[54] **SYSTEMES DE CULTURE POUR ALGUES MARINES**
[72] CLOUGH, NORMAN E., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2021-12-02
[86] 2020-06-26 (PCT/US2020/039948)
[87] (WO2020/264391)
[30] US (62/867,707) 2019-06-27

[21] **3,140,471**
[13] A1
[51] **Int.Cl. A01H 6/28 (2018.01) A24B 15/18 (2006.01)**
[25] EN
[54] **CANNABIS PROFICENCY TESTING MATERIAL**
[54] **MATERIAU DE TEST D'EFFICACITE DU CANNABIS**
[72] HART, E. DALE, US
[72] BYNUM, NICHOLE D., US
[72] GREENE, LISA C., US
[72] BOLLINGER, KATHERINE M., US
[72] GRABENAUER, MEGAN A., US
[72] MCWILLIAMS, ANDREA C., US
[71] RESEARCH TRIANGLE INSTITUTE, INTERNATIONAL, US
[85] 2021-12-02
[86] 2020-06-05 (PCT/US2020/036262)
[87] (WO2020/247714)
[30] US (62/857,915) 2019-06-06

[21] **3,140,474**
[13] A1
[51] **Int.Cl. A61M 25/10 (2013.01)**
[25] EN
[54] **BALLOON CATHETER**
[54] **CATHETER A BALLONNET**
[72] OKAMOTO, MITSUMASA, JP
[72] OTA, MITSUHIRO, JP
[72] FUJISAWA, SOICHIRO, JP
[72] OHARA, MASAHIKO, JP
[72] HORIBA, KEITARO, JP
[72] KUNISADA, TAKASHI, JP
[71] GOODMAN CO., LTD., JP
[85] 2021-12-02
[86] 2020-06-15 (PCT/JP2020/023416)
[87] (WO2020/255923)
[30] JP (2019-115743) 2019-06-21

[21] **3,140,475**
[13] A1
[51] **Int.Cl. C07D 487/12 (2006.01) A61K 31/4745 (2006.01) C07D 487/20 (2006.01)**
[25] EN
[54] **TRICYCLIC COMPOUNDS AND THEIR USE**
[54] **COMPOSES TRICYCLIQUES ET LEUR UTILISATION**
[72] SU, WEI-GUO, CN
[72] ZHANG, WEIHAN, CN
[72] LI, JINSHUI, CN
[71] HUTCHISON MEDIPHARMA LIMITED, CN
[85] 2021-12-02
[86] 2020-06-05 (PCT/CN2020/094692)
[87] (WO2020/244637)
[30] CN (201910489162.9) 2019-06-06
[30] CN (202010455709.6) 2020-05-26

[21] **3,140,477**
[13] A1
[51] **Int.Cl. D21C 1/00 (2006.01) C08L 97/00 (2006.01) D21C 3/00 (2006.01) D21C 9/00 (2006.01)**
[25] EN
[54] **COMMON PREPARATION OF LIGNOCELLULOSIC FEEDSTOCK AND A PRODUCT CONTAINING CELLULOSE BUT FREE FROM LIGNIN**
[54] **TRAITEMENT CONJOINT DE MATIERE PREMIERE LIGNOCELLUSIQUE ET DE PRODUIT CONTENANT DE LA CELLULOSE ET EXEMPT DE LIGNINE**
[72] HERCHL, RICHARD, AT
[72] SCHILD, GABRIELE, AT
[72] WEILACH, CHRISTIAN, AT
[71] LENZING AKTIENGESELLSCHAFT, AT
[85] 2021-12-02
[86] 2020-05-29 (PCT/EP2020/065042)
[87] (WO2020/245055)
[30] EP (19178183.0) 2019-06-04

[21] **3,140,480**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INITIATING ELECTRONIC REMEDIATION ACTIONS**
[54] **SYSTEMES ET PROCEDES DESTINES A INITIER DES ACTIONS DE REMEDIATION ELECTRONIQUE**
[72] GILLEN, ROBERT J., US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2021-12-02
[86] 2020-06-11 (PCT/US2020/037192)
[87] (WO2020/252138)
[30] US (16/441,367) 2019-06-14

[21] **3,140,481**
[13] A1
[51] **Int.Cl. C09C 1/48 (2006.01)**
[25] EN
[54] **HIGH TEMPERATURE CARBON BLACK AIR PREHEATER**
[54] **PRECHAUFFEUR D'AIR A NOIR DE CARBONE A HAUTE TEMPERATURE**
[72] WILEY, CHARLES SCHENCK, US
[71] BIRLA CARBON U.S.A., INC., US
[85] 2021-12-02
[86] 2020-06-05 (PCT/US2020/036484)
[87] (WO2020/247862)
[30] US (62/857,776) 2019-06-05

[21] **3,140,483**
[13] A1
[51] **Int.Cl. A01G 33/00 (2006.01) A01G 18/00 (2018.01) B01D 67/00 (2006.01) B01D 69/00 (2006.01) B01D 71/00 (2006.01) B01D 71/26 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01) C12M 3/00 (2006.01)**
[25] EN
[54] **BIOINTERFACES FOR GROWING SEAWEED**
[54] **BIOINTERFACES POUR LA CULTURE D'ALGUES**
[72] CLOUGH, NORMAN E., US
[71] W.L. GORE & ASSOCIATES, INC., US
[85] 2021-12-02
[86] 2020-06-26 (PCT/US2020/039951)
[87] (WO2020/264394)
[30] US (62/867,704) 2019-06-27

[21] **3,140,484**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **LOGISTICS MAPPING FOR AUTONOMOUS VEHICLES**
[54] **MAPPAGE LOGISTIQUE POUR VEHICULES AUTONOMES**
[72] GANESH, BALA, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2021-12-02
[86] 2020-07-09 (PCT/US2020/041368)
[87] (WO2021/007411)
[30] US (16/506,631) 2019-07-09

[21] **3,140,485**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/5377 (2006.01)**
[25] EN
[54] **EGFR INHIBITOR FOR THE TREATMENT OF CANCER**
[54] **INHIBITEUR D'EGFR POUR LE TRAITEMENT DU CANCER**
[72] DOLENTE, COSIMO, CH
[72] GOERGLER, ANNICK, CH
[72] HEWINGS, DAVID, CH
[72] JAESCHKE, GEORG, CH
[72] KUHN, BERND, CH
[72] NAGEL, YVONNE ALICE, CH
[72] OBST SANDER, ULRIKE, CH
[72] RICCI, ANTONIO, CH
[72] RUEHER, DANIEL, CH
[72] STEINER, SANDRA, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-12-02
[86] 2020-06-19 (PCT/EP2020/067076)
[87] (WO2020/254562)
[30] EP (19181754.3) 2019-06-21

[21] **3,140,486**
[13] A1
[51] **Int.Cl. A01N 25/10 (2006.01) A01N 43/16 (2006.01)**
[25] EN
[54] **AGRICULTURAL FORMULATIONS AND METHODS FOR MAKING AND USING SAME**
[54] **FORMULATIONS AGRICOLES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] XING, BAOZHONG, US
[72] WELSH, ALLANA K., US
[72] HINCHEE, MAUD A. W., US
[71] LOVELAND PRODUCTS, INC., US
[71] TENFOLD TECHNOLOGIES, LLC, US
[85] 2021-12-02
[86] 2020-06-05 (PCT/US2020/036431)
[87] (WO2020/247824)
[30] US (62/858,198) 2019-06-06

[21] **3,140,528**
[13] A1
[51] **Int.Cl. A61K 9/28 (2006.01) A61K 38/10 (2006.01) A61K 47/32 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **TREATMENT OF ABDOMINAL PAIN ASSOCIATED WITH DIARRHEA-PREDOMINANT IRRITABLE BOWEL SYNDROME**
[54] **TRAITEMENT DE LA DOULEUR ABDOMINALE ASSOCIEE AU SYNDROME DU COLON IRRITABLE A DIARRHEE PREDOMINANTE**
[72] BARTOLINI, WILMIN, US
[71] IRONWOOD PHARMACEUTICALS, INC., US
[85] 2021-12-03
[86] 2020-06-09 (PCT/US2020/036767)
[87] (WO2020/251923)
[30] US (62/859,443) 2019-06-10

[21] **3,140,529**
[13] A1
[51] **Int.Cl. B22D 41/38 (2006.01) B22D 41/42 (2006.01)**
[25] EN
[54] **PLATE CONDITION TOOL**
[54] **OUTIL D'ETAT DE PLAQUE**
[72] PICARD, CORENTIN, FR
[72] FAVIA, ANTONIO, FR
[72] JUAN, DENIS, FR
[71] CIPO, CA
[71] VESUVIUS GROUP, S.A., BE
[85] 2021-12-03
[86] 2020-06-08 (PCT/EP2020/065826)
[87] (WO2020/254133)
[30] EP (19181068.8) 2019-06-18
[30] EP (19181066.2) 2019-06-18

[21] **3,140,537**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/573 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-T CELL ANTIGEN-BINDING MOLECULE TO BE USED IN COMBINATION WITH CYTOKINE INHIBITOR**
[54] **MOLECULE DE LIAISON A L'ANTIGENE ANTI-LYMPHOCYTES T A UTILISER EN ASSOCIATION AVEC UN INHIBITEUR DE CYTOKINES**
[72] ISHIGURO, TAKAHIRO, JP
[72] KISHISHITA, SHOHEI, JP
[72] NAKAMURA, MIKIKO, JP
[72] MORLEY, ROLAND KANEO, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2021-12-03
[86] 2020-06-10 (PCT/JP2020/022771)
[87] (WO2020/250915)
[30] JP (2019-107894) 2019-06-10
[30] JP (2019-124364) 2019-07-03

[21] **3,140,544**
[13] A1
[51] **Int.Cl. F04D 25/08 (2006.01) F04D 17/16 (2006.01) F04D 29/24 (2006.01)**
[25] EN
[54] **AIRFLOW DEVICE**
[54] **DISPOSITIF D'ECOULEMENT D'AIR**
[72] VILLELLA, JOE, AU
[72] WALDBAUM, NEIL, AU
[71] BEACON LIGHTING INTERNATIONAL LIMITED, CN
[85] 2021-12-03
[86] 2020-06-02 (PCT/AU2020/050557)
[87] (WO2020/243772)
[30] AU (2019901985) 2019-06-07
[30] AU (2019904429) 2019-11-22

[21] **3,140,551**
[13] A1
[51] **Int.Cl. F16G 11/14 (2006.01) D07B 1/16 (2006.01)**
[25] EN
[54] **A COUPLING DEVICE**
[54] **DISPOSITIF DE COUPLAGE**
[72] NICHOLSON, NICHOLAS JERZY, NZ
[71] RIGGING CONCEPTS LIMITED, NZ
[85] 2021-12-03
[86] 2020-06-05 (PCT/IB2020/055290)
[87] (WO2020/245771)
[30] NZ (754338) 2019-06-06
[30] NZ (759776) 2019-12-02

[21] **3,140,553**
[13] A1
[51] **Int.Cl. B26D 7/01 (2006.01) B23D 47/04 (2006.01) B26D 1/16 (2006.01) B26D 3/16 (2006.01) B26D 5/00 (2006.01) B26D 5/06 (2006.01) B26D 7/02 (2006.01)**
[25] EN
[54] **APPARATUS FOR SUPPORTING CONVOLUTELY WOUND LOGS OF WEB MATERIAL DURING CUTTING**
[54] **APPAREIL POUR SUPPORTER DES ROULEAUX A ENROULEMENT DROIT DE MATERIAU DE BANDE PENDANT LA COUPE**
[72] ZAHN, JONATHON T., US
[72] SCHUBRING, CORY L., US
[72] GUSSART, CORY P., US
[71] PAPER CONVERTING MACHINE COMPANY, US
[85] 2021-12-03
[86] 2020-06-29 (PCT/US2020/040111)
[87] (WO2021/003093)
[30] US (62/869,847) 2019-07-02

[21] **3,140,556**
[13] A1
[51] **Int.Cl. G01N 33/50 (2006.01) C12N 5/071 (2010.01) C12N 5/00 (2006.01)**
[25] EN
[54] **AVIAN ENTEROIDS**
[54] **ENTEROIDES AVIAIRES**
[72] VERVELDE, APOLONIA, GB
[72] NASH, ESTHER JANE, GB
[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB
[85] 2021-12-03
[86] 2020-07-03 (PCT/GB2020/051607)
[87] (WO2021/001660)
[30] GB (1909655.1) 2019-07-04

[21] **3,140,557**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01) A61B 3/12 (2006.01) A61B 6/08 (2006.01) G01N 21/63 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PERFORMING A PHOTOLUMINESCENCE ANALYSIS ON A MEDIUM**
[54] **SYSTEME ET METHODE DE REALISATION D'UNE ANALYSE DE PHOTOLUMINESCENCE SUR UN MILIEU**
[72] LAPOINTE, NICOLAS, CA
[72] DEPAOLI, DAMON, CA
[72] SAUVAGEAU, DOMINIC, CA
[71] ZILIA INC., CA
[85] 2021-12-03
[86] 2020-06-05 (PCT/CA2020/050778)
[87] (WO2020/243842)
[30] US (62/857,345) 2019-06-05

[21] **3,140,559**
[13] A1
[51] **Int.Cl. G01N 37/00 (2006.01) G01N 21/89 (2006.01) G01N 23/04 (2018.01)**
[25] EN
[54] **AUTOMATED INSPECTION METHOD FOR A MANUFACTURED ARTICLE AND SYSTEM FOR PERFORMING SAME**
[54] **PROCEDE D'INSPECTION AUTOMATISE POUR UN ARTICLE MANUFACTURE ET SYSTEME D'EXECUTION DE CELUI-CI**
[72] PERRON, LUC, CA
[72] BOOTO TOKIME, ROGER, CA
[71] LYNX INSPECTION INC., CA
[85] 2021-12-03
[86] 2020-06-04 (PCT/CA2020/050772)
[87] (WO2020/243836)
[30] US (62/857,462) 2019-06-05

[21] **3,140,572**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01) A61B 5/00 (2006.01) A61B 8/08 (2006.01) G06T 7/00 (2017.01) G06T 7/60 (2017.01) G09B 23/30 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING FRACTURES IN DIGITIZED X-RAYS**
[54] **SYSTEME ET PROCEDE D'IDENTIFICATION DE FRACTURES DANS DES IMAGES DE RADIOLOGIE NUMERISEES**
[72] KHAN, FAZEL A., US
[72] KAO, IMIN, US
[72] HELGUERO, CARLOS GABRIEL, EC
[71] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
[85] 2021-12-03
[86] 2020-06-08 (PCT/US2020/036564)
[87] (WO2020/247902)
[30] US (62/857,865) 2019-06-06

[21] **3,140,573**
[13] A1
[51] **Int.Cl. G16H 20/30 (2018.01) G16H 50/30 (2018.01)**
[25] EN
[54] **FITNESS SCORE USING HEART RATE RECOVERY DATA**
[54] **SCORE DE CONDITION PHYSIQUE A L'AIDE DE DONNEES DE RECUPERATION DE FREQUENCE CARDIAQUE**
[72] WIANT, MATTHEW, US
[72] IQBAL, MOHAMMED, US
[71] MYX FITNESS, LLC, US
[85] 2021-12-03
[86] 2020-04-10 (PCT/US2020/027738)
[87] (WO2020/256814)
[30] US (62/864,849) 2019-06-21

[21] **3,140,575**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **DYNAMIC ALLOCATION AND COORDINATION OF AUTO-NAVIGATING VEHICLES AND SELECTORS**
[54] **AFFECTATION ET COORDINATION DYNAMIQUES DE VEHICULES A NAVIGATION AUTOMATIQUE ET DE PREPARATEURS**
[72] SELLNER, BRENNAN, US
[71] SEEGRID CORPORATION, US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036044)
[87] (WO2020/247578)
[30] US (62/856,865) 2019-06-04

[21] **3,140,576**
[13] A1
[51] **Int.Cl. E21B 21/10 (2006.01) E21B 34/10 (2006.01)**
[25] EN
[54] **CIRCULATION VALVE**
[54] **VANNE DE CIRCULATION**
[72] BUCKLAND, JONATHAN PETER, GB
[71] CIRCULATE PLUS LIMITED, GB
[85] 2021-12-03
[86] 2020-06-10 (PCT/GB2020/051395)
[87] (WO2020/249940)
[30] GB (1908531.5) 2019-06-13

[21] **3,140,577**
[13] A1
[51] **Int.Cl. G06Q 50/02 (2012.01) G06V 20/10 (2022.01)**
[25] EN
[54] **A METHOD FOR PREPARING FOR HARVESTING OF FOREST USING AN UNMANNED VEHICLE AND UN-MANNED VEHICLE AND SYSTEM USING SAID METHOD**
[54] **PROCEDE DE PREPARATION DE LA RECOLTE D'UNE FORET A L'AIDE D'UN VEHICULE SANS PILOTE ET VEHICULE SANS PILOTE ET SYSTEME UTILISANT LEDIT PROCEDE**
[72] FARRAND, LEVI, SE
[72] OSTERBERG, ERIK, SE
[72] JOHNSSON, WILLIAM, SE
[71] DEEP FORESTRY AB, SE
[85] 2021-12-03
[86] 2020-06-22 (PCT/SE2020/050645)
[87] (WO2020/263163)
[30] SE (1950817-5) 2019-06-28

[21] **3,140,578**
[13] A1
[51] **Int.Cl. A61K 31/41 (2006.01) A61K 31/425 (2006.01) A61K 31/427 (2006.01) C07D 275/00 (2006.01) C07D 275/02 (2006.01) C07D 275/03 (2006.01)**
[25] EN
[54] **INHIBITORS OF SARM1**
[54] **INHIBITEURS DE SARM1**
[72] HUGHES, ROBERT OWEN, US
[72] DEVRAJ, RAJESH, US
[72] BOSANAC, TODD, US
[72] JARJES-PIKE, RICHARD ANDREW, GB
[72] BREARLEY, ANDREW, GB
[72] BENTLEY, JONATHAN, GB
[71] DISARM THERAPEUTICS, INC., US
[85] 2021-12-03
[86] 2020-06-05 (PCT/US2020/036232)
[87] (WO2020/247701)
[30] US (62/858,083) 2019-06-06

[21] **3,140,580**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **MULTIVALENT FZD AND WNT BINDING MOLECULES AND USES THEREOF**
[54] **MOLECULES DE LIAISON A WNT ET FZD MULTIVALENTES ET LEURS UTILISATIONS**
[72] ANGERS, STEPHANE, CA
[72] SIDHU, SACHDEV, CA
[72] TAO, YUYONG, CN
[71] ANTLERA THERAPEUTICS INC., CA
[85] 2021-12-03
[86] 2020-06-10 (PCT/IB2020/055463)
[87] (WO2020/250156)
[30] US (62/860,161) 2019-06-11

[21] **3,140,581**
[13] A1
[51] **Int.Cl. G01N 33/92 (2006.01) G01N 30/72 (2006.01)**
[25] EN
[54] **UNIVERSAL LIPID QUANTITATIVE STANDARDS FOR USE IN LIPIDOMICS**
[54] **NORMES QUANTITATIVES LIPIDIQUES UNIVERSELLES DESTINEES A ETRE UTILISEES POUR LA LIPIDOMIQUE**
[72] BAKER, PAUL RS, US
[72] CONNELL, LISA, US
[72] SULLARDS, CAMERON, US
[72] LI, SHENGRONG, US
[71] AVANTI POLAR LIPIDS, LLC, US
[85] 2021-12-03
[86] 2020-06-04 (PCT/US2020/036190)
[87] (WO2020/247680)
[30] US (62/857,230) 2019-06-04

[21] **3,140,582**
[13] A1
[51] **Int.Cl. F01D 5/18 (2006.01)**
[25] EN
[54] **TURBINE ENGINE BLADE WITH IMPROVED COOLING**
[54] **AUBE DE TURBOMACHINE A REFROIDISSEMENT AMELIORE**
[72] BOTREL, ERWAN DANIEL, FR
[72] GARLES, KEVIN YANNICK, FR
[72] COUDERT, LAURENT PATRICK ROBERT, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-12-03
[86] 2020-06-11 (PCT/FR2020/050995)
[87] (WO2020/249905)
[30] FR (1906284) 2019-06-13

[21] **3,140,586**
[13] A1
[51] **Int.Cl. A61K 31/4427 (2006.01) A61K 31/454 (2006.01) A61K 39/12 (2006.01) A61K 39/29 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 31/20 (2006.01) C07D 407/12 (2006.01) C07D 417/12 (2006.01)**
[25] FR
[54] **METHOD FOR DETERMINING A PREDICTIVE MODEL OF A PRESSURE RATIO FOR A DUAL-FLOW TURBINE ENGINE**
[54] **PROCEDE DE DETERMINATION D'UN MODELE PREDICTIF D'UN RAPPORT DE PRESSIONS POUR UNE TURBOMACHINE DOUBLE FLUX**
[72] COSTE, RAPHAEL JEAN-LOUIS, FR
[72] MEQQADMI, MOHAMMED, FR
[72] ALIMARDANI, ARMAND DARIOUCHE, FR
[72] MAIRE, ALEXIS LOUIS-MARIE, FR
[71] CIPO, CA
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-12-03
[86] 2020-05-05 (PCT/FR2020/050746)
[87] (WO2020/249878)
[30] FR (FR1906149) 2019-06-10

[21] **3,140,588**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 31/4427 (2006.01) A61K 31/454 (2006.01) A61K 39/29 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 31/20 (2006.01) C07D 407/12 (2006.01) C07D 417/12 (2006.01)**
[25] EN
[54] **COMBINATION OF HEPATITIS B VIRUS (HBV) VACCINES AND SMALL MOLECULE PDL1 OR PD1 INHIBITOR**
[54] **COMBINAISON DE VACCINS CONTRE LE VIRUS DE L'HEPATITE B (VHB) ET D'INHIBITEUR DE PDL1 OU PD1 A PETITE MOLECULE**
[72] HORTON, HELEN, BE
[72] VAN GULCK, ELLEN ROSALIE A, BE
[72] MC GOWAN, DAVID CRAIG, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-12-03
[86] 2020-06-18 (PCT/IB2020/055714)
[87] (WO2020/255021)
[30] US (62/862,740) 2019-06-18

[21] **3,140,590**
[13] A1
[51] **Int.Cl. G10D 3/14 (2020.01) G10H 3/18 (2006.01)**
[25] EN
[54] **PICKUP, STRINGED INSTRUMENT AND PICKUP CONTROL METHOD**
[54] **ENREGISTREUR DE SON, INSTRUMENT A CORDES ET PROCEDE DE COMMANDE D'ENREGISTREUR DE SON**
[72] LU, ZITIAN, CN
[72] TSE, CHEUK HO, CN
[72] YIN, SHUAI, CN
[72] SU, KAISHENG, CN
[72] CHEN, FANGFANG, CN
[71] GUANGZHOU LAVA MUSIC LLC., CN
[85] 2021-12-03
[86] 2020-06-08 (PCT/CN2020/094923)
[87] (WO2020/244664)
[30] CN (201910494960.0) 2019-06-06
[30] CN (201920859306.0) 2019-06-06

[21] **3,140,619**
[13] A1
[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/071 (2010.01) C12N 5/079 (2010.01) C12N 5/0793 (2010.01)**
[25] EN
[54] **IMPROVED RETINAL ORGANOIDS AND METHODS OF MAKING THE SAME**
[54] **ORGANOIDES RETINIENS AMELIORES ET LEURS PROCEDES DE FABRICATION**
[72] CHICHAGOVA, VALERIA, GB
[72] ARMSTRONG, LYLE, GB
[72] LAKO, MAJLINDA, GB
[71] NEWCELLS BIOTECH LIMITED, GB
[85] 2021-12-06
[86] 2020-06-08 (PCT/GB2020/051387)
[87] (WO2020/249935)
[30] GB (1908224.7) 2019-06-10

[21] **3,140,636**
[13] A1
[51] **Int.Cl. B60T 7/20 (2006.01) B60T 7/04 (2006.01) B60T 15/18 (2006.01)**
[25] EN
[54] **EBS TRACTOR CONTROL LINE TO TRAILER SYSTEM TO IMPROVE TRANSMISSION TIMING FOR AN AIR BRAKE SYSTEM**
[54] **LIGNE DE COMMANDE DE TRACTEUR EBS VERS UN SYSTEME DE REMORQUE POUR AMELIORER LA SYNCHRONISATION DE TRANSMISSION POUR UN SYSTEME DE FREIN PNEUMATIQUE**
[72] RIPLEY, JOHN V., US
[71] BENDIX COMMERICAL VEHICLE SYSTEMS LLC, US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036224)
[87] (WO2020/251836)
[30] US (16/438,637) 2019-06-12

[21] **3,140,640**
[13] A1
[51] **Int.Cl. H01M 4/139 (2010.01)**
[25] EN
[54] **METHOD OF PREPARING CATHODE FOR SECONDARY BATTERY**
[54] **PROCEDE DE PREPARATION D'UNE CATHODE POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2021-12-06
[86] 2020-04-08 (PCT/CN2020/083716)
[87] (WO2020/248678)
[30] CN (PCT/CN2019/091107) 2019-06-13

[21] **3,140,642**
[13] A1
[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 30/08 (2012.01) G06Q 40/04 (2012.01)**
[25] EN
[54] **MULTI-PERIOD TRANSACTIVE COORDINATION FOR DAY-AHEAD ENERGY AND ANCILLARY SERVICE MARKET CO-OPTIMIZATION WITH DER FLEXIBILITIES AND UNCERTAINTIES**
[54] **COORDINATION TRANSACTIVE SUR DE MULTIPLES PERIODES POUR CO-OPTIMISATION JOURNALIERE DU MARCHE DES SERVICES DE L'ENERGIE ET DU MARCHE DES SERVICES AUXILIAIRES AVEC DES FLEXIBILITES ET DES INCERTITUDES CONCERNANT LES RESSOURCES ENERGETIQUES DISTRIBUEE**
[72] MA, KE, US
[72] LIAN, JIANMING, US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2021-12-03
[86] 2020-06-25 (PCT/US2020/039668)
[87] (WO2020/264195)
[30] US (62/866,443) 2019-06-25

[21] **3,140,648**
[13] A1
[51] **Int.Cl. H01M 4/62 (2006.01)**
[25] EN
[54] **CATHODE SLURRY FOR SECONDARY BATTERY**
[54] **SUSPENSION DE CATHODE POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2021-12-06
[86] 2020-04-08 (PCT/CN2020/083728)
[87] (WO2020/248679)
[30] CN (PCT/CN2019/091107) 2019-06-13

[21] **3,140,653**
[13] A1
[51] **Int.Cl. A45F 3/18 (2006.01) A45F 3/20 (2006.01)**
[25] EN
[54] **DRINKING BOTTLE**
[54] **GOURDE**
[72] TOURPOUZIDIS, ANASTASIOS, DE
[72] OBRADOVIC, MILISAV, DE
[71] UNSLOSH GMBH, DE
[85] 2021-12-06
[86] 2020-06-08 (PCT/EP2020/065827)
[87] (WO2020/245457)
[30] DE (10 2019 115 598.3) 2019-06-07

[21] **3,140,658**
[13] A1
[51] **Int.Cl. C07K 14/575 (2006.01)**
[25] EN
[54] **APPETITE SUPPRESSING COMPOUNDS**
[54] **COMPOSES SUPPRIMANT L'APPETIT**
[72] BLOOM, STEPHEN ROBERT, GB
[71] IP2IPO INNOVATIONS LIMITED, GB
[85] 2021-12-06
[86] 2020-06-12 (PCT/GB2020/051426)
[87] (WO2020/249967)
[30] GB (1908426.8) 2019-06-12

[21] **3,140,659**
[13] A1
[51] **Int.Cl. C22B 5/04 (2006.01) C22B 9/20 (2006.01) C22B 34/32 (2006.01) C22C 38/18 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING LOW CARBON FERROCHROME FROM CHROMITE ORE AND LOW CARBON FERROCHROME PRODUCED THEREBY**
[54] **PROCEDE ET SYSTEME DE PRODUCTION DE FERROCHROME A FAIBLE TENEUR EN CARBONE A PARTIR DE MINERAI DE CHROMITE ET FERROCHROME A FAIBLE TENEUR EN CARBONE AINSI PRODUIT**
[72] SHAW, DANIEL, US
[72] SAVILLE, JAMES, US
[72] WILLIAMS, JOHN, GB
[72] MUSTOE, TREVOR N., MX
[71] MM METALS USA, LLC, US
[85] 2021-12-06
[86] 2020-06-03 (PCT/US2020/035842)
[87] (WO2020/263517)
[30] US (16/454,283) 2019-06-27

[21] **3,140,660**
[13] A1
[51] **Int.Cl. A61K 31/17 (2006.01) A61K 31/381 (2006.01) A61P 3/04 (2006.01) A61P 25/30 (2006.01) C07C 275/30 (2006.01) C07D 213/40 (2006.01) C07D 295/125 (2006.01) C07D 307/52 (2006.01) C07D 333/36 (2006.01) C07D 409/04 (2006.01)**
[25] EN
[54] **UREA DERIVATIVES AS CB1 ALLOSTERIC MODULATORS**
[54] **DERIVES D'UREE UTILISEE EN TANT QUE MODULATEURS ALLOSTERIQUES DE CB1**
[72] ZHANG, YANAN, US
[72] NGUYEN, THUY T., US
[71] RTI INTERNATIONAL, US
[85] 2021-12-06
[86] 2020-06-25 (PCT/US2020/039644)
[87] (WO2020/264176)
[30] US (62/868,126) 2019-06-28

[21] **3,140,662**
[13] A1
[51] **Int.Cl. C09B 23/01 (2006.01) C09B 23/04 (2006.01) C09B 23/10 (2006.01) C09B 23/14 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **FLUORESCENT SYSTEMS FOR BIOLOGICAL IMAGING AND USES THEREOF**
[54] **SYSTEMES FLUORESCENTS POUR IMAGERIE BIOLOGIQUE ET UTILISATIONS ASSOCIEES**
[72] WHITING, ANDREW, GB
[72] AMBLER, CARRIE, GB
[72] CHISHOLM, DAVID, GB
[71] LIGHTOX LIMITED, GB
[85] 2021-12-06
[86] 2020-07-14 (PCT/GB2020/051694)
[87] (WO2021/009506)
[30] GB (1910239.1) 2019-07-17

[21] **3,140,663**
[13] A1
[51] **Int.Cl. G01N 27/62 (2021.01) G01N 15/10 (2006.01) G01N 21/71 (2006.01) H01J 49/04 (2006.01) H01J 49/26 (2006.01) H01J 49/40 (2006.01)**
[25] EN
[54] **IMPROVED MASS CYTOMETRY**
[54] **CYTOMETRIE DE MASSE AMELIOREE**
[72] CORKUM, PAUL, CA
[72] LOBODA, ALEXANDER, CA
[72] RAYNER, DAVID M., CA
[71] FLUIDIGM CANADA INC., CA
[85] 2021-12-06
[86] 2020-06-17 (PCT/US2020/038097)
[87] (WO2020/257258)
[30] US (62/862,849) 2019-06-18

[21] **3,140,664**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01)**
[25] EN
[54] **TNFR2 AGONISTS WITH IMPROVED STABILITY**
[54] **AGONISTES DE TNFR2 AYANT UNE STABILITE AMELIOREE**
[72] FISCHER, ROMAN, DE
[72] SIEGEMUND, MARTIN, DE
[72] PFIZENMAIER, KLAUS, DE
[72] KONTERMANN, ROLAND, DE
[71] UNIVERSITAT STUTTGART, DE
[85] 2021-12-06
[86] 2020-06-24 (PCT/EP2020/067656)
[87] (WO2020/260368)
[30] EP (19182102.4) 2019-06-24

[21] **3,140,665**
[13] A1
[51] **Int.Cl. B01D 1/00 (2006.01) B01D 3/14 (2006.01) B01D 17/02 (2006.01)**
[25] EN
[54] **INTEGRATED DESICCANT-BASED COOLING AND DEHUMIDIFICATION**
[54] **REFROIDISSEMENT ET DESHUMIDIFICATION INTEGRES BASES SUR DES DESHYDRATANTS**
[72] WOODS, JASON DAVID, US
[72] KOZUBAL, ERIC, US
[71] ALLIANCE FOR SUSTAINABLE ENERGY, LLC, US
[85] 2021-12-06
[86] 2020-06-10 (PCT/US2020/037044)
[87] (WO2020/252059)
[30] US (62/859,432) 2019-06-10
[30] US (62/986,908) 2020-03-09

[21] **3,140,667**
[13] A1
[51] **Int.Cl. F04D 29/041 (2006.01) E21B 43/12 (2006.01) F04C 13/00 (2006.01) F04C 15/00 (2006.01) F04D 13/10 (2006.01) F04D 29/66 (2006.01)**
[25] EN
[54] **THRUST RUNNER VIBRATION DAMPENING SPRING IN ELECTRICAL SUBMERSIBLE PUMP**
[54] **RESSORT AMORTISSEUR DE VIBRATIONS DE CANAL DE BUTEE DANS UNE POMPE SUBMERSIBLE ELECTRIQUE**
[72] RUTTER, RISA, US
[72] YE, ZHENG, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2021-12-06
[86] 2020-05-13 (PCT/US2020/032573)
[87] (WO2020/232053)
[30] US (16/410,080) 2019-05-13

[21] **3,140,668**
[13] A1
[51] **Int.Cl. C12N 9/88 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **CA2 COMPOSITIONS AND METHODS FOR TUNABLE REGULATION**
[54] **COMPOSITIONS DE CA2 ET PROCEDES DE REGULATION AJUSTABLE**
[72] SCHEBESTA, MICHAEL, US
[72] FLEURY, MICHELLE LOIS, US
[72] ELPEK, KUTLU GOKSU, US
[71] OBSIDIAN THERAPEUTICS, INC., US
[85] 2021-12-06
[86] 2020-06-12 (PCT/US2020/037624)
[87] (WO2020/252405)
[30] US (62/860,383) 2019-06-12

[21] **3,140,671**
[13] A1
[51] **Int.Cl. G06K 17/00 (2006.01)**
[25] EN
[54] **ELECTRONIC PRICE TAG INFORMATION TRANSMISSION METHOD AND SYSTEM, ELECTRONIC PRICE TAG, AND SERVER**
[54] **PROCEDE ET SYSTEME DE TRANSMISSION D'INFORMATIONS A UNE ETIQUETTE DE PRIX ELECTRONIQUE, ETIQUETTE DE PRIX ELECTRONIQUE ET SERVEUR**
[72] HOU, SHIGUO, CN
[72] LI, LIANGYAN, CN
[72] FENG, YUNLIANG, CN
[72] GAO, BO, CN
[72] CHEN, JUN, CN
[72] JIANG, QI, CN
[72] SHEN, MING, CN
[71] HANSHOW TECHNOLOGY CO., LTD., CN
[85] 2021-12-06
[86] 2019-06-06 (PCT/CN2019/090331)
[87] (WO2020/243946)

[21] **3,140,672**
[13] A1
[51] **Int.Cl. A61K 35/768 (2015.01) C07K 16/28 (2006.01)**
[25] EN
[54] **BIOTHERAPY FOR VIRAL INFECTIONS USING BIOPOLYMER BASED MICRO/NANOGELS**
[54] **BIOTHERAPIE POUR INFECTIONS VIRALES A L'AIDE DE MICRO/NANOGELS A BASE DE BIOPOLYMERES**
[72] NAIR, MADHAVAN, US
[72] RAYMOND, ANDREA, US
[72] VASHIST, ARTI, US
[71] THE FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES, US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036292)
[87] (WO2020/247730)
[30] US (16/432,320) 2019-06-05

[21] **3,140,673**
[13] A1
[51] **Int.Cl. A45D 33/00 (2006.01) A61K 8/64 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **SILK STIMULATED COLLAGEN PRODUCTION AND METHODS OF USE THEREOF**
[54] **PRODUCTION DE COLLAGENE STIMULEE PAR LA SOIE ET PROCEDES D'UTILISATION DE CELLE-CI**
[72] ALTMAN, GREGORY H., US
[72] COSTACHE, MARIUS, US
[72] GENEL, EVA, US
[72] BOSQUES, CARLOS J., US
[71] EVOLVED BY NATURE, INC., US
[85] 2021-12-06
[86] 2020-06-06 (PCT/US2020/036510)
[87] (WO2020/247887)
[30] US (62/858,048) 2019-06-06

[21] **3,140,675**
[13] A1
[51] **Int.Cl. E21B 43/38 (2006.01) E21B 17/10 (2006.01)**
[25] EN
[54] **DOWNHOLE PUMPING SYSTEM WITH VELOCITY TUBE AND MULTIPHASE DIVERTER**
[54] **SYSTEME DE POMPAGE DE FOND DE TROU AVEC TUBE DE VITESSE ET DEFLECTEUR MULTIPHASE**
[72] EL MAHBES, REDA, US
[72] REID, LESLIE, US
[72] GANGULY, PARTHA, US
[72] MCPHEARSON, RONALD, US
[71] BAKER HUGHES OILFIELD OPERATIONS, LLC, US
[85] 2021-12-06
[86] 2020-05-12 (PCT/US2020/032546)
[87] (WO2020/232036)
[30] US (62/847,267) 2019-05-13

[21] **3,140,679**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01) G06F 16/33 (2019.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR COSMETIC PRODUCT RECOMMENDATION**
[54] **PROCEDE ET APPAREIL DE RECOMMANDATION DE PRODUITS COSMETIQUES**
[72] CIRANNI, BRANDEN GUS, US
[72] LI, JIA JUN, US
[72] TAN, GRACE, US
[72] LEE, TAE WOO, US
[72] HEALY, JOHN JOSEPH, US
[71] ELC MANAGEMENT LLC, US
[85] 2021-12-06
[86] 2020-06-08 (PCT/US2020/036713)
[87] (WO2020/247960)
[30] US (16/435,023) 2019-06-07

[21] **3,140,681**
[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01) A61K 47/69 (2017.01) A61K 45/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS RELATING TO ERYTHROCYTES WITH ADHERED PARTICLES**
[54] **COMPOSITIONS ET METHODES ASSOCIEES A DES ERYTHROCYTES COMPRENANT DES PARTICULES ADHEREES**
[72] MITRAGOTRI, SAMIR, US
[72] UKIDVE, ANVAY ASHISH, US
[72] ZHAO, ZONGMIN, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2021-12-06
[86] 2020-06-04 (PCT/US2020/036040)
[87] (WO2020/247576)
[30] US (62/858,478) 2019-06-07

[21] **3,140,684**
[13] A1
[51] **Int.Cl. A43B 3/24 (2006.01) A43B 21/42 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO FOOTWEAR**
[54] **PERFECTIONNEMENTS A OU RELATIFS A UN ARTICLE CHAUSSANT**
[72] BARRY, OUMOU HAWA, GB
[72] WILLIAMSON, JAMES, GB
[71] OUMOU BARRY LLC, US
[85] 2021-12-06
[86] 2019-06-20 (PCT/EP2019/066417)
[87] (WO2019/243553)
[30] GB (1810307.7) 2018-06-22

[21] **3,140,685**
[13] A1
[51] **Int.Cl. C12N 15/52 (2006.01) A61K 35/12 (2015.01) A61P 7/00 (2006.01) A61P 7/06 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OF DBA USING GATA1 GENE THERAPY**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE LA DBA AU MOYEN D'UNE THERAPIE GENIQUE AVEC GATA1**
[72] SANKARAN, VIJAY G., US
[72] VOIT, RICHARD A., US
[72] LUDWIG, LEIF S., US
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2021-12-06
[86] 2020-06-08 (PCT/US2020/036600)
[87] (WO2020/251887)
[30] US (62/859,369) 2019-06-10

[21] **3,140,687**
[13] A1
[51] **Int.Cl. B22F 9/10 (2006.01)**
[25] EN
[54] **ATOMIZATION DEVICE**
[54] **DISPOSITIF D'ATOMISATION**
[72] PIJUAN CASES, JORDI, ES
[72] GRANE VILASECA, MARC, ES
[72] HERNANDEZ ROSSI, RICARDO, ES
[72] RIERA COLOM, MARIA DOLORES, ES
[71] FUNDACIO EURECAT, ES
[71] UNIVERSITAT POLITECNICA DE CATALUNYA, ES
[85] 2021-12-06
[86] 2020-06-17 (PCT/EP2020/066703)
[87] (WO2020/254365)
[30] EP (19382517.1) 2019-06-20

[21] **3,140,690**
[13] A1
[51] **Int.Cl. A61K 31/51 (2006.01) A61K 31/5377 (2006.01) A61K 39/29 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **COMBINATION OF HEPATITIS B VIRUS (HBV) VACCINES AND DIHYDROPYRIMIDINE DERIVATIVES AS CAPSID ASSEMBLY MODULATORS**
[54] **COMBINAISON DE VACCINS CONTRE LE VIRUS DE L'HEPATITE B (VHB) ET DE DERIVES DE DIHYDROPYRIMIDINE EN TANT QUE MODULATEURS D'ASSEMBLAGE DE CAPSIDE**
[72] HORTON, HELEN, BE
[72] BERKE, JAN MARTIN, BE
[72] PAUWELS, FREDERIK, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-12-06
[86] 2020-06-18 (PCT/IB2020/055706)
[87] (WO2020/255015)
[30] US (62/862,822) 2019-06-18

[21] **3,140,693**
[13] A1
[51] **Int.Cl. A61K 38/12 (2006.01) C07K 5/12 (2006.01) C07K 7/08 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **PEPTIDE INHIBITORS FOR THE INHIBITION OF HIV CAPSID**
[54] **INHIBITEURS PEPTIDIQUES POUR L'INHIBITION DE LA CAPSIDE DU HIV**
[72] SINGH, KAMLENDRA, US
[72] QUINN, THOMAS P., US
[72] GALLAZZI, FABIO, US
[72] SONNERBORG, ANDERS, SE
[72] NEOGI, UJJWAL, SE
[72] NEOGI, UJJWAL, SE
[71] THE CURATORS OF THE UNIVERSITY OF MISSOURI, US
[71] SONNERBORG, ANDERS, SE
[71] NEOGI, UJJWAL, SE
[71] NEOGI, UJJWAL, SE
[85] 2021-12-06
[86] 2020-06-08 (PCT/US2020/036658)
[87] (WO2020/247933)
[30] US (62/858,666) 2019-06-07

[21] **3,140,694**
[13] A1
[51] **Int.Cl. A61F 2/14 (2006.01) A61F 2/16 (2006.01) A61F 9/00 (2006.01)**
[25] EN
[54] **OCULAR PROTECTION RING**
[54] **ANNEAU DE PROTECTION OCULAIRE**
[72] WALTZ, KEVIN L., US
[71] WALTZ, KEVIN L., US
[85] 2021-12-06
[86] 2020-05-04 (PCT/US2020/031316)
[87] (WO2020/223727)
[30] US (16/401,309) 2019-05-02

[21] **3,140,697**
[13] A1
[51] **Int.Cl. A61K 8/9789 (2017.01)**
[25] EN
[54] **ROSEBUSH EXTRACT**
[54] **EXTRAIT DE ROSIER**
[72] FAGOT, DOMINIQUE, FR
[72] DEJEAN, GERALDINE, FR
[71] L'OREAL, FR
[85] 2021-12-06
[86] 2020-06-18 (PCT/EP2020/067026)
[87] (WO2020/260138)
[30] FR (FR1907145) 2019-06-28

[21] **3,140,700**
[13] A1
[51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/34 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING ONLINE AND HYBRIDCARD INTERACTIONS**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'INTERACTIONS EN LIGNE ET PAR "HYBRIDCARD"**
[72] MOSSLER, LARA, US
[72] LERNER, EVAN, US
[72] MANIVANNAN, ARAVINDHAN, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-12-06
[86] 2020-06-23 (PCT/US2020/039124)
[87] (WO2021/003038)
[30] US (16/503,285) 2019-07-03

[21] **3,140,701**
[13] A1
[51] **Int.Cl. E21B 7/06 (2006.01) E21B 17/10 (2006.01) E21B 47/022 (2012.01)**
[25] EN
[54] **EASY BUILDING-UP HYBRID ROTARY STEERABLE DRILLING SYSTEM**
[54] **SYSTEME DE FORAGE ORIENTABLE ROTATIF HYBRIDE APTE A DEVIER FACILEMENT**
[72] XU, ZICHEN, CN
[72] WAN, XIAOYUE, CN
[71] WAN, XIAOYUE, CN
[85] 2021-12-06
[86] 2020-06-08 (PCT/CN2020/094998)
[87] (WO2020/244671)
[30] CN (201910491504.0) 2019-06-06
[30] CN (201910490984.9) 2019-06-06
[30] CN (201911074897.1) 2019-11-06
[30] CN (202010507545.7) 2020-06-05

[21] **3,140,702**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61K 39/29 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **COMBINATION OF HEPATITIS B VIRUS (HBV) VACCINES AND DIHYDROPYRIMIDINE DERIVATIVES AS CAPSID ASSEMBLY MODULATORS**
[54] **COMBINAISON DE VACCINS CONTRE LE VIRUS DE L'HEPATITE B (VHB) ET DE DERIVES DE DIHYDROPYRIMIDINE EN TANT QUE MODULATEURS D'ASSEMBLAGE DE CAPSIDE**
[72] HORTON, HELEN, BE
[72] BERKE, JAN MARTIN, BE
[72] PAUWELS, FREDERIK, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-12-06
[86] 2020-06-18 (PCT/IB2020/055708)
[87] (WO2020/255017)
[30] US (62/862,900) 2019-06-18

[21] **3,140,704**
[13] A1
[51] **Int.Cl. A61K 31/167 (2006.01) A61K 31/192 (2006.01) A61K 31/235 (2006.01) A61P 25/00 (2006.01) A61P 25/02 (2006.01) A61P 25/20 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **TREATMENT OF CNS DISORDERS WITH SLEEP DISTURBANCES**
[54] **TRAITEMENT DE TROUBLES DU SNC AVEC TROUBLES DU SOMMEIL**
[72] WELLENDORPH, PETRINE, DK
[72] KORNUM, BIRGITTE RAHBEK, DK
[72] FROLUND, BENTE, DK
[71] UNIVERSITY OF COPENHAGEN, DK
[85] 2021-12-06
[86] 2020-06-26 (PCT/DK2020/050197)
[87] (WO2020/259787)
[30] DK (PA 2019 70415) 2019-06-28

[21] **3,140,705**
[13] A1
[51] **Int.Cl. D06B 11/00 (2006.01) D06M 15/643 (2006.01) D06P 5/30 (2006.01)**
[25] FR
[54] **METHOD FOR INK-JET PRINTING A SILICONE-BASED COMPOSITION ONTO A TEXTILE SUBSTRATE**
[54] **PROCEDE D'IMPRESSION JET D'ENCRE D'UNE COMPOSITION A BASE DE SILICONE SUR UN SUPPORT TEXTILE**
[72] BOUTTE, GUILLAUME, FR
[72] FAYOLLE, DORIAN, FR
[71] SIGVARIS AG, CH
[85] 2021-12-06
[86] 2020-06-11 (PCT/EP2020/066237)
[87] (WO2020/249694)
[30] FR (FR1906202) 2019-06-11

[21] **3,140,706**
[13] A1
[51] **Int.Cl. A63B 71/06 (2006.01) A63B 22/08 (2006.01) A63B 22/10 (2006.01) A63B 22/12 (2006.01)**
[25] EN
[54] **CLIMBING EXERCISE MACHINE**
[54] **APPAREIL D'EXERCICE D'ESCALADE**
[72] CARRUTHERS, NATHANIEL, US
[71] CLMBR1, LLC, US
[85] 2021-12-06
[86] 2020-06-05 (PCT/US2020/036434)
[87] (WO2020/247826)
[30] US (62/858,966) 2019-06-07

[21] **3,140,708**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/55 (2006.01) A61K 39/12 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 31/20 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **COMBINATION OF HEPATITIS B VIRUS (HBV) VACCINES AND PYRIDOPYRIMIDINE DERIVATIVES**
[54] **ASSOCIATION DE VACCINS CONTRE LE VIRUS DE L'HEPATITE B (VHB) ET DE DERIVES DE PYRIDOPYRIMIDINE**
[72] HORTON, HELEN, BE
[72] CHEN, ANTONY CHIEN-HUNG, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-12-06
[86] 2020-06-18 (PCT/IB2020/055743)
[87] (WO2020/255038)
[30] US (62/863,206) 2019-06-18

[21] **3,140,710**
[13] A1
[51] **Int.Cl. A61B 18/18 (2006.01) A61B 18/00 (2006.01) A61B 18/12 (2006.01) A61B 18/14 (2006.01)**
[25] EN
[54] **ABLATION PROBE SYSTEMS**
[54] **SYSTEMES DE SONDE D'ABLATION**
[72] COLBY, LEIGH E., US
[71] TRIAGENICS, INC., US
[85] 2021-12-06
[86] 2020-06-08 (PCT/US2020/036705)
[87] (WO2020/247953)
[30] US (62/858,230) 2019-06-06
[30] US (62/876,574) 2019-07-19
[30] US (PCT/US2020/036508) 2020-06-05

[21] **3,140,712**
[13] A1
[51] **Int.Cl. C02F 9/14 (2006.01) C02F 1/72 (2006.01) C02F 1/74 (2006.01)**
[25] EN
[54] **EXTERNAL MICRO-INTERFACE PAPERMAKING WASTEWATER TREATMENT SYSTEM AND WASTEWATER TREATMENT METHOD THEREOF**
[54] **SYSTEME ET PROCEDE DE TRAITEMENT DES EAUX USEES DE FABRICATION DE PAPIER A MICRO-INTERFACE EXTERNE**
[72] ZHANG, ZHIBING, CN
[72] ZHOU, ZHENG, CN
[72] ZHANG, FENG, CN
[72] LI, LEI, CN
[72] MENG, WEIMIN, CN
[72] WANG, BAORONG, CN
[72] YANG, GAODONG, CN
[72] LUO, HUAXUN, CN
[72] YANG, GUOQIANG, CN
[72] TIAN, HONGZHOU, CN
[72] CAO, YU, CN
[71] NANJING YANCHANG REACTION TECHNOLOGY RESEARCH INSTITUTE CO., LTD., CN
[85] 2021-12-06
[86] 2020-05-27 (PCT/CN2020/092692)
[87] (WO2021/189635)
[30] CN (202010214344.8) 2020-03-24

[21] **3,140,748**
[13] A1
[51] **Int.Cl. A61K 31/18 (2006.01) A61K 31/337 (2006.01) A61K 31/40 (2006.01) A61K 31/407 (2006.01) A61K 31/429 (2006.01) A61K 31/44 (2006.01) A61K 31/445 (2006.01) A61K 31/4525 (2006.01) A61K 31/454 (2006.01) A61K 31/519 (2006.01) A61K 31/5375 (2006.01) A61K 31/55 (2006.01) A61K 39/29 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **COMBINATION OF HEPATITIS B VIRUS (HBV) VACCINES AND CAPSID ASSEMBLY MODULATORS BEING SULFONAMIDE DERIVATIVES**
[54] **COMBINAISON DE VACCINS CONTRE LE VIRUS DE L'HEPATITE B (HBV) ET DE MODULATEURS D'ASSEMBLAGE DE CAPSIDES QUI SONT DES DERIVES DE SULFONAMIDE**
[72] HORTON, HELEN, BE
[72] BERKE, JAN MARTIN, BE
[72] PAUWELS, FREDERIK, BE
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2021-12-07
[86] 2020-06-18 (PCT/IB2020/055702)
[87] (WO2020/255012)
[30] US (62/862,757) 2019-06-18

[21] **3,140,756**
[13] A1
[51] **Int.Cl. B65B 27/06 (2006.01) B65B 13/02 (2006.01) B65B 61/28 (2006.01)**
[25] EN
[54] **DEVICE AND SYSTEM FOR SEPARATING AND PACKAGING STEEL SLIT COILS**
[54] **DISPOSITIF ET SYSTEME DE SEPARATION ET D'EMBALLAGE DE BOBINES REFENDUES EN ACIER**
[72] QUINONES, VICTOR MANUEL, US
[71] QUINONES, VICTOR MANUEL, US
[85] 2021-12-07
[86] 2020-06-05 (PCT/US2020/036348)
[87] (WO2020/247767)
[30] US (62/858,652) 2019-06-07

[21] **3,140,761**
[13] A1
[51] **Int.Cl. A61M 25/06 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **PROVIDING RESISTANCE TO SEPARATION OF CATHETER ADAPTER AND A NEEDLE HUB**
[54] **FOURNITURE D'UNE RESISTANCE DE SEPARATION POUR ADAPTATEUR DE CATHETER ET EMBASE D'AIGUILLE**
[72] HARDING, WESTON F., US
[72] SONDEREGGER, RALPH L., US
[72] SPATARO, JOSEPH, US
[72] ISAACSON, S. RAY, US
[72] STALEY, SHAUN, US
[72] BLANCHARD, CURTIS H., US
[72] BURKHOLZ, JONATHAN KARL, US
[72] WANG, BIN, US
[72] HU, OLIVIA, CN
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-12-07
[86] 2020-06-17 (PCT/US2020/038070)
[87] (WO2020/257238)
[30] US (62/864,292) 2019-06-20
[30] US (16/902,963) 2020-06-16

[21] **3,140,767**
[13] A1
[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **BENZO[H][1,6] NAPHTHYRIDIN-2(1H)-ONES AS BMX INHIBITORS, FOR USE AGAINST CANCER**
[54] **BENZO[H][1,6] NAPHTYRIDIN-2(1H)-ONES UTILISES EN TANT QU'INHIBITEURS DE BMX DESTINES A ETRE UTILISES CONTRE LE CANCER**
[72] SEIXAS, JOAO, PT
[72] BERNARDES, GONCALO, PT
[71] INSTITUTO DE MEDICINA MOLECULAR JOAO LOBO ANTUNES, PT
[85] 2021-12-07
[86] 2020-06-05 (PCT/EP2020/065730)
[87] (WO2020/245430)
[30] GB (1908171.0) 2019-06-07

[21] **3,142,986**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 15/113 (2010.01) A61K 35/17 (2015.01) A61K 39/00 (2006.01) C07K 14/725 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **CELLS WITH MULTIPLEXED INHIBITORY RNA**
[54] **CELLULES A ARN INHIBITEUR MULTIPLEXE**
[72] BORNSCHEIN, SIMON, BE
[72] SOTIROPOULOU, PEGGY, BE
[72] BREMAN, EYTAN, BE
[72] STEKLOV, MIKHAIL, BE
[71] CELYAD, BE
[85] 2021-10-13
[86] 2020-05-04 (PCT/EP2020/062346)
[87] (WO2020/221939)
[30] EP (19172389.9) 2019-05-02

[21] **3,143,346**
[13] A1
[51] **Int.Cl. C22B 7/00 (2006.01) C22B 3/04 (2006.01) C22B 3/42 (2006.01) C22B 41/00 (2006.01)**
[25] EN
[54] **PROCEDURE FOR PRODUCING GERMANIUM CONCENTRATE FROM METALLURGICAL RESIDUES**
[54] **PROCEDURE POUR LA PRODUCTION D'UN CONCENTRE DE GERMANIUM DE RESIDUS METALLURGIQUES**
[72] ACUNA GOYCOLEA, MARCELO GUSTAVO, CL
[72] PEZOA CONTE, RICARDO MIGUEL, CL
[71] ECOMETALES LIMITED, CL
[85] 2021-12-20
[86] 2020-07-22 (PCT/IB2020/056895)
[87] (WO2022/018490)

[21] **3,143,721**
[13] A1
[51] **Int.Cl. G06K 19/07 (2006.01) G06Q 20/20 (2012.01) G06Q 20/34 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **CONSTRAINING TRANSACTIONAL CAPABILITIES FOR CONTACTLESS CARDS**
[54] **CONTRAINTE DE CAPACITES TRANSACTIONNELLES POUR CARTES SANS CONTACT**
[72] RULE, JEFFREY, US
[72] MORETON, PAUL, US
[72] LUTZ, WAYNE, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-12-15
[86] 2020-06-30 (PCT/US2020/040261)
[87] (WO2021/003137)
[30] US (16/503,142) 2019-07-03

[21] **3,145,387**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) C07K 14/705 (2006.01) C07K 16/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **FUSION PROTEINS COMPRISING A LIGAND-RECEPTOR PAIR AND A BIOLOGICALLY FUNCTIONAL PROTEIN**
[54] **PROTEINES DE FUSION COMPRENANT UNE PAIRE DE LIGAND-RECEPTEUR ET PROTEINE BIOLOGIQUEMENT FONCTIONNELLE**
[72] DIXIT, SURJIT BHIMARAO, CA
[72] VOLKERS, GESA, CA
[72] HEINKEL, FLORIAN, CA
[72] ESCOBAR-CABRERA, ERIC, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[72] VON ROSSUM, ANNA, CA
[71] ZYMEWORKS INC., CA
[85] 2022-01-11
[86] 2021-07-20 (PCT/CA2021/051006)
[87] (3145387)
[30] US (63/054,180) 2020-07-20
[30] US (63/172,626) 2021-04-08

[21] **3,146,676**
[13] A1
[51] **Int.Cl. H02K 9/16 (2006.01) H02K 9/193 (2006.01) H02K 15/00 (2006.01)**
[25] EN
[54] **ELECTRIC MACHINE AND MANUFACTURING METHOD**
[54] **MACHINE ELECTRIQUE ET PROCEDE DE FABRICATION**
[72] DURAND, FABIEN, FR
[72] BRUNET MANQUAT, LOIC, FR
[72] DELAUTRE, GUILLAUME, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2022-01-10
[86] 2020-06-23 (PCT/EP2020/067414)
[87] (WO2021/013451)
[30] FR (FR1908281) 2019-07-22

[21] **3,146,713**
[13] A1
[51] **Int.Cl. A61K 8/64 (2006.01) A61Q 7/00 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **GLYCOPEPTIDES INCREASING LIPID SYNTHESIS**
[54] **GLYCOPEPTIDES AUGMENTANT LA SYNTHESE DE LIPIDES**
[72] DELIENCOURT-GODEFROY, GERALDINE, FR
[72] LEGOEDEC, JOCELYNE, FR
[71] TFCHEM, FR
[85] 2022-01-10
[86] 2020-07-17 (PCT/EP2020/070339)
[87] (WO2021/009367)
[30] EP (19305945.8) 2019-07-17

[21] **3,146,715**
[13] A1
[51] **Int.Cl. A61K 31/4545 (2006.01) A61K 31/4985 (2006.01) A61K 31/5377 (2006.01) A61K 31/538 (2006.01) A61P 17/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **SUBSTITUTED AMINO TRIAZOLES USEFUL AS CHITINASE INHIBITORS**
[54] **AMINOTRIAZOLES SUBSTITUES UTILES EN TANT QU'INHIBITEURS DE CHITINASE**
[72] MAZUR, MARZENA, PL
[72] ANDRYIANAU, GLEB, PL
[72] JOACHIMIAK, LUKASZ, PL
[72] CZESTKOWSKI, WOJCIECH, PL
[72] KOWALSKI, MICHAL, PL
[72] NIEDZIEJKO, PIOTR, PL
[72] OLEJNICZAK, SYLWIA, PL
[72] MATYSZEWSKI, KRZYSZTOF, PL
[72] KORALEWSKI, ROBERT, PL
[72] OLCZAK, JACEK, PL
[72] GOLEBIOWSKI, ADAM, US
[72] BARTOSZEWICZ, AGNIESZKA, PL
[71] ONCOARENDI THERAPEUTICS S.A., PL
[85] 2022-01-10
[86] 2020-07-15 (PCT/EP2020/069974)
[87] (WO2021/009209)
[30] PL (P-430586) 2019-07-15
[30] US (62/874,108) 2019-07-15

[21] **3,146,716**
[13] A1
[51] **Int.Cl. A01M 21/00 (2006.01) G06V 20/17 (2022.01) A01B 76/00 (2006.01) A01M 21/04 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING AN APPLICATION MAP FOR TREATING A FIELD WITH AN AGRICULTURAL EQUIPMENT**
[54] **PROCEDE DE GENERATION D'UNE CARTE D'APPLICATION POUR LE TRAITEMENT D'UN CHAMP AVEC UN EQUIPEMENT AGRICOLE**
[72] LOPES AGNESE, MAURICIO, DE
[72] SCHIKORA, MAREK PIOTR, DE
[72] ILBASI, UMIT BARAN, BR
[72] HOFFMANN, HOLGER, DE
[72] ROMMEL, THOMAS, DE
[72] WAHABZADA, MIRWAES, DE
[72] SELINGER, SANDRA, DE
[71] BASF AGRO TRADEMARKS GMBH, DE
[85] 2022-01-10
[86] 2020-07-13 (PCT/EP2020/069786)
[87] (WO2021/009136)
[30] EP (19186343.0) 2019-07-15

[21] **3,146,717**
[13] A1
[51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **A DEVICE FOR PERFORMING A COSMETIC OR MEDICAL PROCEDURE**
[54] **DISPOSITIF POUR REALISER UNE PROCEDURE COSMETIQUE OU MEDICALE**
[72] SUTURIN, VICTOR, DE
[72] SOUTORINE, MIKHAIL, AU
[71] ALIFORM UG (HAFTUNGSBESCHRAENKT), DE
[85] 2022-01-10
[86] 2020-07-10 (PCT/EP2020/069612)
[87] (WO2021/009063)
[30] AU (2019902470) 2019-07-12

[21] **3,146,718**
[13] A1
[51] **Int.Cl. C12N 7/01 (2006.01) A61K 48/00 (2006.01) C07K 14/015 (2006.01) C12N 7/00 (2006.01) C12N 15/864 (2006.01) C12Q 1/70 (2006.01)**
[25] EN
[54] **CHEMICALLY-MODIFIED ADENO-ASSOCIATED VIRUS**
[54] **VIRUS ADENO-ASSOCIES CHIMIQUEMENT MODIFIES**
[72] DENIAUD, DAVID, FR
[72] MEVEL, MATHIEU, FR
[72] AYUSO, EDUARD, FR
[72] LERAY, AURELIEN, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE NANTES, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE NANTES, FR
[85] 2022-01-10
[86] 2020-07-10 (PCT/EP2020/069554)
[87] (WO2021/005210)
[30] EP (19185879.4) 2019-07-11

[21] **3,146,724**
[13] A1
[51] **Int.Cl. A61L 15/42 (2006.01) A61L 15/22 (2006.01) A61L 15/64 (2006.01)**
[25] EN
[54] **BIOCOMPATIBLE, FLEXIBLE, HAEMOSTATIC SHEET**
[54] **FEUILLE HEMOSTATIQUE FLEXIBLE BIOCOMPATIBLE**
[72] KEEREWEER, ABRAHAM REINIER, NL
[72] FELIX LANAO, ROSA PILAR, NL
[72] OPSTEEN, JOOST, NL
[72] BENDER, JOHANNES CASPAR MATHIAS ELIZABETH, NL
[72] LLANOS, GERARD, US
[71] GATT TECHNOLOGIES B.V., NL
[71] ETHICON, INC., US
[85] 2022-01-10
[86] 2020-07-09 (PCT/EP2020/069443)
[87] (WO2021/009015)
[30] EP (19186026.1) 2019-07-12

[21] **3,146,726**
[13] A1
[51] **Int.Cl. G02C 5/14 (2006.01) G02C 5/22 (2006.01)**
[25] EN
[54] **EYEGLASSES WITH SIMPLIFIED HINGE FOR TEMPLE**
[54] **LUNETTES A CHARNIERE SIMPLIFIEE POUR BRANCHE**
[72] NICOLIS, DIEGO, IT
[71] LUXOTTICA S.R.L., IT
[85] 2022-01-10
[86] 2020-07-07 (PCT/EP2020/069072)
[87] (WO2021/008934)
[30] IT (102019000012234) 2019-07-18

[21] **3,146,734**
[13] A1
[51] **Int.Cl. A61K 35/00 (2006.01) C08L 1/04 (2006.01) C12N 1/04 (2006.01) C12N 1/20 (2006.01) C12N 1/22 (2006.01)**
[25] EN
[54] **METHOD FOR LOADING OF MICROORGANISMS ON MULTIPHASE BIOMATERIALS**
[54] **PROCEDE DE CHARGEMENT DE MICRO-ORGANISMES SUR DES BIOMATERIAUX MULTIPHASES**
[72] TOM DIECK, HEIKE, DE
[72] AL MESLMANI, BASSAM, DE
[72] FISCHER, DAGMAR, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-01-10
[86] 2020-07-10 (PCT/EP2020/069536)
[87] (WO2021/009038)
[30] EP (19186045.1) 2019-07-12

[21] **3,146,736**
[13] A1
[51] **Int.Cl. H01B 3/47 (2006.01) H01F 27/32 (2006.01) H01F 38/26 (2006.01) H01F 38/30 (2006.01) H01F 38/36 (2006.01) H01F 41/12 (2006.01)**
[25] EN
[54] **INSTRUMENT TRANSFORMER AND METHOD TO ISOLATE PARTS**
[54] **TRANSFORMATEUR DE MESURE ET PROCEDE D'ISOLEMENT DE PIECES**
[72] NEGRI, FABRIZIO, DE
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-01-10
[86] 2020-06-12 (PCT/EP2020/066301)
[87] (WO2021/008787)
[30] EP (19186056.8) 2019-07-12

[21] **3,146,740**
[13] A1
[51] **Int.Cl. H01F 27/32 (2006.01) H01F 38/26 (2006.01) H01F 38/30 (2006.01) H01F 38/36 (2006.01) H01F 41/12 (2006.01)**
[25] EN
[54] **INSTRUMENT TRANSFORMER AND METHOD TO ISOLATE PARTS**
[54] **TRANSFORMATEUR DE MESURE ET PROCEDE D'ISOLEMENT DE PIECES**
[72] NEGRI, FABRIZIO, DE
[72] SANTINELLI, DARIO, IT
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-01-10
[86] 2020-06-17 (PCT/EP2020/066667)
[87] (WO2021/008799)
[30] EP (19186063.4) 2019-07-12

[21] **3,146,781**
[13] A1
[51] **Int.Cl. B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B29C 64/106 (2017.01) A01N 1/00 (2006.01) A61L 27/26 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **DETERGENT-FREE DECELLULARIZED EXTRACELLULAR MATRIX PREPARATION METHOD AND BIOINKS FOR 3D PRINTING**
[54] **PROCEDE DE PREPARATION DE MATRICE EXTRACELLULAIRE DECELLULARISEE SANS DETERGENT, ET ENCRES BIOLOGIQUES POUR IMPRESSION 3D**
[72] WSZOLA, MICHAL, PL
[72] KLAK, MARTA, PL
[72] BERMAN, ANDRZEJ, PL
[72] KOSOWSKA, KATARZYNA, PL
[72] BRYNIARSKI, TOMASZ, PL
[72] DOBRZANSKI, TOMASZ, PL
[72] TYMICKI, GRZEGORZ, PL
[72] GOMOLKA, MAGDALENA, PL
[72] KOWALSKA, PATRYCJA, PL
[72] CYWONIUK, PIOTR, PL
[72] TUROWSKI, PAWEL, PL
[72] ZAMORA, IGOR, PL
[72] OLENDER, EWA, PL
[72] OLKOWSKI, RADOSLAW, PL
[72] KAMINSKI, ARTUR, PL
[71] MEDISPACE SP. Z O. O., PL
[85] 2022-01-10
[86] 2020-07-21 (PCT/IB2020/056856)
[87] (WO2021/014359)
[30] EP (19461559.7) 2019-07-22
[30] EP (19218191.5) 2019-12-19

[21] **3,146,786**
[13] A1
[51] **Int.Cl. G02C 1/02 (2006.01) G02C 5/14 (2006.01) G02C 5/22 (2006.01)**
[25] EN
[54] **EYEGLASSES WITH SIMPLIFIED HINGE**
[54] **LUNETTES A CHARNIERE SIMPLIFIEE**
[72] NICOLIS, DIEGO, IT
[71] LUXOTTICA S.R.L., IT
[85] 2022-01-10
[86] 2020-07-15 (PCT/IB2020/056646)
[87] (WO2021/009690)
[30] IT (102019000012243) 2019-07-18

[21] **3,146,791**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/015 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **MODIFIED AAV CAPSID PROTEINS FOR TREATMENT OF ARTHRITIC DISEASE**
[54] **PROTEINES CAPSIDIQUES DE VIRUS ADENO-ASSOCIES MODIFIES POUR LE TRAITEMENT DE MALADIES ARTHRITIQUES**
[72] VAN DER SANDEN, SABINE MARIA GERTRUDE, NL
[72] SNOEK, SUSANNE ANNA, NL
[72] BROEKSTRA, NIELS, NL
[72] FINN, JONATHAN DOUGLAS, US
[72] GRIMM, DIRK, DE
[72] BORNER, KATHLEEN, DE
[71] MEIRAGTX UK II LIMITED, GB
[71] UNIVERSITY OF HEIDELBERG, DE
[85] 2022-01-10
[86] 2020-07-15 (PCT/IB2020/056635)
[87] (WO2021/009684)
[30] NL (2023505) 2019-07-15

[21] **3,146,794**
[13] A1
[51] **Int.Cl. A61K 31/235 (2006.01) A61K 9/12 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **USE OF A BENZOATE CONTAINING COMPOSITION TO TREAT NEURODEGENERATIVE DISORDERS**
[54] **UTILISATION D'UNE COMPOSITION CONTENANT DU BENZOATE POUR TRAITER DES TROUBLES NEURODEGENERATIFS**
[72] PAHAN, KALIPADA, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2022-01-10
[86] 2020-07-13 (PCT/US2020/041849)
[87] (WO2021/011500)
[30] US (62/874,625) 2019-07-16

[21] **3,146,797**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **WIDE CLIP WITH NONDEFORMABLE WINGS**
[54] **CLIP LARGE A AILES NON DEFORMABLES**
[72] ABUNASSAR, CHAD, US
[72] GARCIA, JESSIE, US
[72] GONZALES, GABRIEL, US
[72] JAIN, SAMIR, US
[72] BARBARINO, CASEY, US
[72] PRABHU, SANTOSH V., US
[71] EVALVE, INC., US
[85] 2022-01-10
[86] 2020-07-14 (PCT/US2020/041921)
[87] (WO2021/011531)
[30] US (62/874,342) 2019-07-15

[21] **3,146,800**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **BISPECIFIC ANTIBODIES TO TNF-ALPHA AND IL-1BETA AND USES THEREOF**
[54] **ANTICORPS BISPECIFIQUES SE LIANT AU TNF-ALPHA ET A IL-1BETA ET UTILISATIONS ASSOCIEES**
[72] ZHANG, DI, US
[72] TAM, SUSAN, US
[72] CHO, MINSEON, US
[72] NISHIDA, MOTOHIKO, US
[72] SHI, LIHUA, US
[72] FUNG, MAN-CHEONG, US
[71] TAVOTEK BIOTHERAPEUTICS (HONG KONG) LIMITED, CN
[85] 2022-01-10
[86] 2020-07-09 (PCT/US2020/041415)
[87] (WO2021/007439)
[30] US (62/872,108) 2019-07-09

[21] **3,146,806**
[13] A1
[51] **Int.Cl. G01D 11/24 (2006.01) G01D 18/00 (2006.01) H01L 23/02 (2006.01) H05K 3/00 (2006.01) H05K 3/28 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURE AND USE OF A FLEXIBLE COMPUTERIZED SENSING DEVICE**
[54] **PROCEDE DE FABRICATION ET D'UTILISATION D'UN DISPOSITIF DE DETECTION INFORMATISE FLEXIBLE**
[72] BODNAR, ERIC OLEG, US
[72] PRETORIUS, JACOB VAN REENEN, US
[71] VELVETWIRE LLC, US
[85] 2022-01-10
[86] 2020-07-14 (PCT/US2020/070269)
[87] (WO2021/011957)
[30] US (16/512,314) 2019-07-15

[21] **3,146,811**
[13] A1
[51] **Int.Cl. A61K 31/405 (2006.01) A61K 31/519 (2006.01)**
[25] EN
[54] **METHODS FOR ALLEVIATING PTERYGIUM-ASSOCIATED WORRY ABOUT EYE APPEARANCE**
[54] **PROCEDES POUR ATTENUER L'INQUIETUDE ASSOCIEE A UN PTERYGION CONCERNANT L'ASPECT OCULAIRE**
[72] NI, JINSONG, US
[72] WHITCUP, SCOTT, US
[72] YANG, RONG, US
[71] CLOUDBREAK THERAPEUTICS, LLC, US
[85] 2022-01-10
[86] 2020-09-10 (PCT/US2020/050150)
[87] (WO2021/050692)
[30] US (62/898,401) 2019-09-10

[21] **3,146,820**
[13] A1
[51] **Int.Cl. A61B 1/005 (2006.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR IMAGING WITHIN A BODY LUMEN**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES D'IMAGERIE A L'INTERIEUR D'UNE LUMIERE CORPORELLE**
[72] DAYTON, PETER L., US
[72] WEITZNER, BARRY, US
[72] CHROBAK, MEGAN, US
[72] JONES, THOMAS, US
[72] BODEN, MARK W., US
[72] WELDON, JAMES, US
[72] ALBRECHT, ELIZABETH M., US
[72] DUVAL, GEORGE WILFRED, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-01-10
[86] 2020-09-30 (PCT/US2020/053525)
[87] (WO2021/071722)
[30] US (62/911,763) 2019-10-07

[21] **3,146,860**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12Q 1/6816 (2018.01) C12Q 1/6827 (2018.01) C12N 15/09 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **RNA SEQUENCING METHODS**
[54] **PROCEDES DE SEQUENCAGE D'ARN**
[72] OBERSTRASS, FLORIAN, US
[72] ALMOGY, GILAD, US
[71] ULTIMA GENOMICS, INC., US
[85] 2022-01-10
[86] 2020-07-10 (PCT/US2020/041552)
[87] (WO2021/007495)
[30] US (62/872,558) 2019-07-10

[21] **3,146,868**
[13] A1
[51] **Int.Cl. B62D 5/24 (2006.01) B62D 5/08 (2006.01)**
[25] EN
[54] **COUPLED STEERING GEAR SHAFT**
[54] **ARBRE DE LA BOITE DE DIRECTION ACCOUPLE**
[72] TIPTON, JEFFREY, US
[72] VANTRAN, JOHN, US
[72] TERWAD, MANJUNATH, US
[72] PITZER, JARED, US
[71] R.H. SHEPPARD CO., INC., US
[85] 2022-01-10
[86] 2020-07-10 (PCT/US2020/041492)
[87] (WO2021/011328)
[30] US (62/873,420) 2019-07-12
[30] US (62/930,736) 2019-11-05

[21] **3,146,881**
[13] A1
[51] **Int.Cl. A61K 49/00 (2006.01) A61K 49/04 (2006.01) A61K 49/18 (2006.01) A61K 51/12 (2006.01) B82Y 5/00 (2011.01) B82Y 15/00 (2011.01)**
[25] FR
[54] **PARTICULATE STRUCTURES MADE FROM GOLD NANOPARTICLES, METHODS FOR PREPARING SAME AND USES THEREOF FOR TREATING SOLID TUMOURS**
[54] **STRUCTURES PARTICULAIRES A BASE DE NANOPARTICULES D'OR, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS DANS LE TRAITEMENT DES TUMEURS SOLIDES**
[72] LAURENT, GAUTIER, FR
[72] BEDUNEAU, ARNAUD, FR
[72] ROUX, STEPHANE, FR
[71] UNIVERSITE DE FRANCHE COMTE, FR
[85] 2022-01-11
[86] 2020-07-23 (PCT/FR2020/051352)
[87] (WO2021/014103)
[30] FR (19 08368) 2019-07-23

[21] **3,146,886**
[13] A1
[51] **Int.Cl. A01N 43/54 (2006.01) C07D 239/34 (2006.01)**
[25] EN
[54] **2-PHENOXY-PYRIMIDINE DERIVATIVES AS HERBICIDAL COMPOUNDS**
[54] **DERIVES DE 2-PHENOXY-PYRIMIDINE EN TANT QUE COMPOSES HERBICIDES**
[72] WAILES, JEFFREY STEVEN, GB
[72] TATE, JOSEPH ANDREW, GB
[72] INGRAM, KATHARINE MARY, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2022-01-11
[86] 2020-08-06 (PCT/EP2020/072168)
[87] (WO2021/028316)
[30] GB (1911429.7) 2019-08-09

[21] **3,146,889**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/44 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **BINDING MEMBERS**
[54] **ELEMENTS DE LIAISON**
[72] DURRANT, LINDA GILLIAN, GB
[72] VANKEMMELBEKE, MIREILLE, GB
[72] PARSONS, TINA ROSE, GB
[71] SCANCELL LIMITED, GB
[85] 2022-01-11
[86] 2020-07-31 (PCT/EP2020/071725)
[87] (WO2021/019095)
[30] GB (1910899.2) 2019-07-31

[21] **3,146,891**
[13] A1
[51] **Int.Cl. A01N 43/40 (2006.01) C07C 1/00 (2006.01) C07D 213/61 (2006.01) C07D 213/75 (2006.01) C07D 213/81 (2006.01) C07D 213/85 (2006.01) C07D 237/24 (2006.01) C07D 239/30 (2006.01) C07D 241/24 (2006.01) C07D 263/34 (2006.01) C07D 295/185 (2006.01) C07D 319/12 (2006.01)**
[25] EN
[54] **CYCLIC DIONES AS HERBICIDAL COMPOUNDS**
[54] **DIONES CYCLIQUES EN TANT QUE COMPOSES HERBICIDES**
[72] HENNESSY, ALAN JOSEPH, GB
[72] JONES, ELIZABETH PEARL, GB
[72] DALE, SUZANNA JANE, GB
[72] GREGORY, ALEXANDER WILLIAM, GB
[72] HOULSBY, IAN THOMAS TINMOUTH, GB
[72] BHONOAH, YUNAS, GB
[72] COMAS-BARCELO, JULIA, GB
[72] ELVES, PHILIP MICHAEL, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2022-01-11
[86] 2020-07-27 (PCT/EP2020/071131)
[87] (WO2021/018834)
[30] GB (1910926.3) 2019-07-31

[21] **3,146,895**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 39/00 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **IMMUNE CELLS DEFECTIVE FOR SUV39H1**
[54] **CELLULES IMMUNITAIRES DEFECTUEUSES POUR SUV39H1**
[72] AMIGORENA, SEBASTIAN, FR
[72] SAITAKIS, MICHAEL, FR
[72] LOPEZ-COBO, SHEILA, FR
[72] FUENTEALBA, JAIME RODRIGO, FR
[71] MNEMO THERAPEUTICS, FR
[71] INSTITUT CURIE, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[85] 2022-01-11
[86] 2020-07-23 (PCT/EP2020/070845)
[87] (WO2021/013950)
[30] US (62/877,789) 2019-07-23
[30] US (62/978,936) 2020-02-20
[30] US (63/048,328) 2020-07-06

[21] **3,146,898**
[13] A1
[51] **Int.Cl. C09K 5/10 (2006.01) H01M 10/6567 (2014.01) H01M 6/50 (2006.01)**
[25] EN
[54] **USE OF NANOPARTICLE COMPOSITIONS AS HEAT TRANSFER FLUIDS IN BATTERY OR OTHER ELECTRICAL EQUIPMENT SYSTEMS**
[54] **UTILISATION DE COMPOSITIONS DE NANOPARTICULES EN TANT QUE FLUIDES DE TRANSFERT DE CHALEUR DANS UNE BATTERIE OU D'AUTRES SYSTEMES D'EQUIPEMENT ELECTRIQUE**
[72] FISCHER, ULRICH, DE
[72] NESS, DANIEL, DE
[72] WIEBER, STEPHAN, DE
[72] HAGEMANN, MICHAEL GERHARD, CN
[72] SCHMITT, GUNTER, DE
[72] HEBERER, STEFAN, DE
[72] SCHRANTZ, JENNIFER (DECEASED), DE
[72] TURHAN, CAN METEHAN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-01-11
[86] 2020-07-13 (PCT/EP2020/069746)
[87] (WO2021/009116)
[30] EP (19186777.9) 2019-07-17

[21] **3,146,900**
[13] A1
[51] **Int.Cl. A61K 39/245 (2006.01) C07K 14/035 (2006.01)**
[25] EN
[54] **THERAPEUTIC VIRAL VACCINE**
[54] **VACCIN VIRAL THERAPEUTIQUE**
[72] BLAIS, NORMAND, BE
[72] CASTADO, CINDY, BE
[72] MOLS, JOHANN, BE
[72] SACCONNAY, LIONEL, FR
[72] TOUSSAINT, MARIE, BE
[72] WAHOME, NEWTON MUCHUGU, US
[72] MARUGGI, GIULIETTA, US
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE
[85] 2022-01-11
[86] 2020-07-20 (PCT/EP2020/070462)
[87] (WO2021/013798)
[30] EP (19187467.6) 2019-07-21
[30] EP (19188219.0) 2019-07-24
[30] EP (19191842.4) 2019-08-14

[21] **3,146,901**
[13] A1
[51] **Int.Cl. A61B 17/42 (2006.01) A61B 90/00 (2016.01) A61B 90/90 (2016.01) A61B 1/303 (2006.01) A61F 7/12 (2006.01) A61H 19/00 (2006.01)**
[25] EN
[54] **A DEVICE FOR TREATING VAGINAL ATROPHY**
[54] **DISPOSITIF DE TRAITEMENT DE L'ATROPHIE VAGINALE**
[72] NEWELL, PAULA, IE
[72] EATON-EVANS, JIMMY, IE
[71] NATIONAL UNIVERSITY OF IRELAND, GALWAY, IE
[85] 2022-01-11
[86] 2020-07-10 (PCT/EP2020/069668)
[87] (WO2021/005240)
[30] EP (19185897.6) 2019-07-11

[21] **3,146,910**
[13] A1
[51] **Int.Cl. A47G 21/00 (2006.01) A01G 9/12 (2006.01) B65D 65/46 (2006.01) A01C 1/04 (2006.01)**
[25] EN
[54] **DISPOSABLE KITCHEN UTENSILS AND CUTLERY**
[54] **USTENSILES DE CUISINE ET COUVERTS JETABLES**
[72] BOLTEZAR, MARK, SI
[71] BOLTEZAR, MARK, SI
[85] 2022-01-11
[86] 2020-07-14 (PCT/IB2020/056591)
[87] (WO2021/009668)
[30] SI (P-201900134) 2019-07-17

[21] **3,146,913**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **BINDING AGENTS AND USES THEREOF**
[54] **AGENTS DE LIAISON ET UTILISATIONS DE CEUX-CI**
[72] LAMKANFI, MOHAMED, BE
[72] VAN HAUWERMEIREN, FILIP FRANS J, BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-01-11
[86] 2020-07-10 (PCT/EP2020/069667)
[87] (WO2021/009081)
[30] EP (19186059.2) 2019-07-12

[21] **3,146,918**
[13] A1
[51] **Int.Cl. B60K 15/05 (2006.01) B60K 15/03 (2006.01) F16F 1/16 (2006.01)**
[25] EN
[54] **COMPOUND SPRING FOR CAPLESS DOOR**
[54] **RESSORT COMPOSITE POUR PORTE SANS BOUCHON**
[72] STANCU, SORIN, US
[71] MARTINREA INTERNATIONAL US INC., US
[85] 2022-01-11
[86] 2020-04-22 (PCT/US2020/029250)
[87] (WO2021/006939)
[30] US (62/872,743) 2019-07-11
[30] US (16/851,829) 2020-04-17

[21] **3,146,920**
[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/00 (2006.01)**
[25] EN
[54] **EUS ACCESS DEVICE WITH ELECTROSURGERY-ENHANCED PUNCTURE**
[54] **DISPOSITIF D'ACCES EUS DOTE D'UNE PERFORATION AMELIOREE PAR ELECTROCHIRURGIE**
[72] SCOTT, SERENA, US
[72] BENNING, CHRISTOPHER A., US
[72] CALLAGHAN, DAVID, US
[72] HANSEN, KATRINA, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-01-11
[86] 2020-11-24 (PCT/US2020/062029)
[87] (WO2021/133505)
[30] US (62/953,307) 2019-12-24

[21] **3,146,923**
[13] A1
[51] **Int.Cl. F21V 17/12 (2006.01) F21K 9/23 (2016.01) F21S 8/06 (2006.01) F21V 17/06 (2006.01) F21V 17/08 (2006.01) F21V 21/10 (2006.01)**
[25] EN
[54] **FIXTURE CONNECTION ASSEMBLY**
[54] **ENSEMBLE RACCORD D'APPAREIL D'ECLAIRAGE**
[72] LEATHLEAN, MARK LEE, US
[71] BARN LIGHT ELECTRIC COMPANY, LLC, US
[85] 2022-01-11
[86] 2020-07-07 (PCT/US2020/041083)
[87] (WO2021/011243)
[30] US (62/874,644) 2019-07-16

[21] **3,146,963**
[13] A1
[51] **Int.Cl. C12N 15/57 (2006.01) C07K 14/745 (2006.01) C07K 14/81 (2006.01) C12N 5/10 (2006.01) C12N 9/68 (2006.01) C12N 15/15 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **METHODS FOR MAKING RECOMBINANT PROTEIN**
[54] **PROCEDES DE FABRICATION D'UNE PROTEINE RECOMBINANTE**
[72] WHISSTOCK, JAMES, AU
[72] LAW, RUBY, AU
[72] QUEK, ADAM, AU
[72] CONROY, PAUL, AU
[71] MONASH UNIVERSITY, AU
[85] 2022-01-04
[86] 2020-07-10 (PCT/AU2020/050719)
[87] (WO2021/007612)
[30] AU (2019902468) 2019-07-12

[21] **3,146,964**
[13] A1
[51] **Int.Cl. A61M 5/172 (2006.01) A61M 5/14 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **AMBULATORY DEVICE AND COMPONENTS THEREOF**
[54] **DISPOSITIF AMBULATOIRE ET COMPOSANTS CORRESPONDANTS**
[72] DAMIANO, EDWARD R., US
[72] KNODEL, BRYAN DALE, US
[72] HENDERSON, DAVID MATTHEW, US
[72] ROSINKO, MICHAEL J., US
[72] BROWN, JUSTIN P., US
[72] LIM, DAVID CHI-WAI, US
[72] DALL, MADS HENRIK, DK
[72] RAY, TODD S., US
[71] BETA BIONICS, INC., US
[85] 2022-01-10
[86] 2020-07-15 (PCT/US2020/042198)
[87] (WO2021/011699)
[30] US (62/874,928) 2019-07-16
[30] US (62/874,954) 2019-07-16
[30] US (62/874,959) 2019-07-16
[30] US (62/874,964) 2019-07-16
[30] US (62/874,972) 2019-07-16
[30] US (62/874,975) 2019-07-16
[30] US (62/874,977) 2019-07-16
[30] US (62/987,842) 2020-03-10
[30] US (63/037,472) 2020-06-10

[21] **3,146,965**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01)**
[25] EN
[54] **BLOOD GLUCOSE CONTROL SYSTEM**
[54] **SYSTEME DE REGULATION DE LA GLYCEMIE**
[72] EL-KHATIB, FIRAS H., US
[72] DAMIANO, EDWARD R., US
[72] RASKIN, EDWARD B., US
[71] BETA BIONICS, INC., US
[85] 2022-01-10
[86] 2020-07-16 (PCT/US2020/042269)
[87] (WO2021/011738)
[30] US (62/874,928) 2019-07-16
[30] US (62/874,934) 2019-07-16
[30] US (62/874,950) 2019-07-16
[30] US (62/874,954) 2019-07-16
[30] US (62/874,959) 2019-07-16
[30] US (62/874,964) 2019-07-16
[30] US (62/874,968) 2019-07-16
[30] US (62/874,972) 2019-07-16
[30] US (62/874,975) 2019-07-16
[30] US (62/874,977) 2019-07-16
[30] US (62/910,970) 2019-10-04
[30] US (62/911,017) 2019-10-04
[30] US (62/911,143) 2019-10-04
[30] US (62/987,842) 2020-03-10
[30] US (63/037,472) 2020-06-10
[30] US (PCT/US2020/042195) 2020-07-15
[30] US (PCT/US2020/042198) 2020-07-15

[21] **3,146,966**
[13] A1
[51] **Int.Cl. C12N 15/63 (2006.01) C12N 15/09 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND PRODUCTION OF NICKED CLOSED-ENDED DNA VECTORS**
[54] **COMPOSITIONS ET PRODUCTION DE VECTEURS D'ADN A EXTREMITES FERMEES NICKELES**
[72] ALKAN, OZAN, US
[72] KOTIN, ROBERT MICHAEL, US
[72] KERR, DOUGLAS ANTHONY, US
[72] MONDS, RUSSELL, US
[72] PELLETIER, CAROLYN, US
[72] STANTON, MATTHEW, US
[71] GENERATION BIO CO., US
[85] 2022-01-10
[86] 2020-07-17 (PCT/US2020/042445)
[87] (WO2021/011840)
[30] US (62/875,262) 2019-07-17

[21] **3,146,967**
[13] A1
[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **IMMUNE EFFECTOR CELL ENGINEERING AND USE THEREOF**
[54] **INGENIERIE DE CELLULES EFFECTRICES IMMUNITAIRES ET UTILISATION DE CELLES-CI**
[72] VALAMEHR, BAHRAM, US
[72] LEE, TOM TONG, US
[72] BJORDAHL, RYAN, US
[72] GOODRIDGE, JODE, US
[71] FATE THERAPEUTICS, INC., US
[85] 2022-01-10
[86] 2020-07-17 (PCT/US2020/042657)
[87] (WO2021/011919)
[30] US (62/875,490) 2019-07-17
[30] US (63/021,560) 2020-05-07

[21] **3,146,968**
[13] A1
[51] **Int.Cl. C07F 11/00 (2006.01) C10G 7/10 (2006.01) C10G 75/02 (2006.01) C10G 75/04 (2006.01)**
[25] EN
[54] **OIL SOLUBLE MOLYBDENUM COMPLEXES FOR INHIBITING HIGH TEMPERATURE CORROSION AND RELATED APPLICATIONS IN PETROLEUM REFINERIES**
[54] **COMPLEXES DE MOLYBDENE SOLUBLES DANS L'HUILE POUR INHIBER LA CORROSION A HAUTE TEMPERATURE ET UTILISATIONS ASSOCIEES DANS DES RAFFINERIES DE PETROLE**
[72] ZENASNI, OUSSAMA, US
[72] PENNINGTON, JANELLE, US
[72] COLORADO, RAMON, JR., US
[72] THORNTHWAITE, PHILIP ANDREW, GB
[71] ECOLAB USA INC., US
[85] 2022-01-10
[86] 2020-07-29 (PCT/US2020/044009)
[87] (WO2021/021891)
[30] US (62/879,817) 2019-07-29

[21] **3,146,969**
[13] A1
[51] **Int.Cl. G03H 1/04 (2006.01) G03H 1/26 (2006.01) G09F 13/08 (2006.01)**
[25] EN
[54] **HOLOGRAPHIC DISPLAY DEVICE AND METHOD OF USE**
[54] **DISPOSITIF D'AFFICHAGE HOLOGRAPHIQUE ET PROCEDE D'UTILISATION**
[72] NUSSBAUM, DAVID, US
[71] PORTL, INC., US
[85] 2021-12-31
[86] 2020-12-04 (PCT/US2020/063423)
[87] (WO2021/113719)
[30] US (62/944,546) 2019-12-06

[21] **3,146,970**
[13] A1
[51] **Int.Cl. A24F 9/02 (2006.01) A24F 9/00 (2006.01) A24F 9/16 (2006.01) A24F 13/20 (2006.01)**
[25] EN
[54] **SMOKING PIPE BOWL EXTINGUISHING DEVICE**
[54] **DISPOSITIF D'EXTINCTION DE FOURNEAU DE PIPE A FUMER**
[72] JACQUES, GREGORY S., US
[71] JACQUES, GREGORY S., US
[85] 2022-01-10
[86] 2020-07-31 (PCT/US2020/044512)
[87] (WO2021/022164)
[30] US (62/881,003) 2019-07-31

[21] **3,146,971**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/05 (2020.01) A24F 40/10 (2020.01) A24F 40/48 (2020.01) A24B 15/16 (2020.01) A24F 47/00 (2020.01)**
[25] EN
[54] **VAPORIZER APPARATUS**
[54] **APPAREIL VAPORISATEUR**
[72] MABEE, BRIAN, US
[72] MABEE, KATHRYN, US
[72] MABEE, AUSTIN, US
[72] LONGFELLOW, MARC, US
[71] MABEE ENGINEERED SOLUTIONS, INC., US
[85] 2022-01-10
[86] 2020-08-19 (PCT/US2020/046958)
[87] (WO2021/041108)
[30] US (16/549,241) 2019-08-23
[30] US (16/683,765) 2019-11-14

[21] **3,146,972**
[13] A1
[51] **Int.Cl. A24F 40/48 (2020.01) A24F 40/10 (2020.01) A24F 40/40 (2020.01) A24B 15/16 (2020.01)**
[25] EN
[54] **VAPORIZER APPARATUS HAVING BOTH A VACUUM PUMP AND A HEATING ELEMENT, AND METHOD OF USING SAME**
[54] **APPAREIL VAPORISATEUR COMPRENANT A LA FOIS UNE POMPE A VIDE ET UN ELEMENT CHAUFFANT, ET SON PROCEDE D'UTILISATION**
[72] MABEE, BRIAN, US
[72] MABEE, KATHRYN, US
[72] MABEE, AUSTIN, US
[72] LONGFELLOW, MARC, US
[71] MABEE ENGINEERED SOLUTIONS, INC., US
[85] 2022-01-10
[86] 2020-08-19 (PCT/US2020/046973)
[87] (WO2021/041111)
[30] US (16/549,241) 2019-08-23
[30] US (16/683,765) 2019-11-14
[30] US (16/818,257) 2020-03-13

[21] **3,146,973**
[13] A1
[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **RETAINER SYSTEMS**
[54] **SYSTEMES D'ELEMENT DE MAINTIEN**
[72] SENANAYAKE, MAHINDA PALITHA, AU
[72] CONROY, DAVID GARNET JOHN, AU
[72] SWINSCOE, MICHAEL JOHN, AU
[72] BAKER, BENJAMIN JAMES, AU
[71] 2MT MINING PRODUCTS PTY LTD, AU
[85] 2022-01-11
[86] 2020-07-13 (PCT/AU2020/050721)
[87] (WO2021/011993)
[30] AU (2019902587) 2019-07-22

[21] **3,146,974**
[13] A1
[51] **Int.Cl. B23K 26/60 (2014.01) B23K 20/12 (2006.01) B23K 20/24 (2006.01) B23K 26/26 (2014.01) B23K 33/00 (2006.01)**
[25] EN
[54] **PRE-WELD MODIFICATION TECHNIQUE FOR A CUSTOM WELDED BLANK**
[54] **TECHNIQUE DE MODIFICATION DE PRE-SOUDURE POUR UNE EBAUCHE SOUDEE PERSONNALISEE**
[72] EISENMENGER, MARK, US
[72] HUISMAN, WAYNE, US
[72] BEACH, ELVIN, US
[71] WORTHINGTON INDUSTRIES, INC., US
[71] TWB COMPANY, LLC, US
[85] 2022-01-10
[86] 2020-08-19 (PCT/US2020/046991)
[87] (WO2021/034930)
[30] US (16/543,744) 2019-08-19

[21] **3,146,975**
[13] A1
[51] **Int.Cl. B64C 25/36 (2006.01) B64C 25/10 (2006.01)**
[25] EN
[54] **AIRCRAFT MULTI-WHEEL TRUCK BEAM POSITIONER**
[54] **POSITIONNEUR DE POUTRE DE CAMION A ROUES MULTIPLES D'AERONEF**
[72] NING, JAMES, CA
[72] STEEL, GRAEME, CA
[72] LAWSON, MICHAEL, CA
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2022-01-11
[86] 2020-07-28 (PCT/CA2020/051034)
[87] (WO2021/016706)
[30] US (16/526,645) 2019-07-30

[21] **3,146,976**
[13] A1
[51] **Int.Cl. C12N 15/864 (2006.01) A61K 38/46 (2006.01) A61P 1/16 (2006.01) A61P 25/00 (2006.01) C12N 9/22 (2006.01)**
[25] EN
[54] **TREATMENT OF DISEASES BY EXPRESSION OF AN ENZYME WHICH HAS A DEOXYRIBONUCLEASE (DNASE) ACTIVITY**
[54] **TRAITEMENT DE MALADIES PAR EXPRESSION D'UNE ENZYME A ACTIVITE DESOXYRIBONUCLEASE (DNASE)**
[72] GENKIN, DMITRY DMITRIEVICH, RU
[72] TETS, GEORGY VIKTOROVICH, US
[72] TETS, VIKTOR VENIAMINOVICH, US
[71] CLS THERAPEUTICS LIMITED, GB
[85] 2022-01-10
[86] 2020-07-10 (PCT/US2020/041574)
[87] (WO2021/011365)
[30] US (62/873,816) 2019-07-12

[21] **3,146,977**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 47/62 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTIBODY CONSTRUCTS BINDING 4-1BB AND FOLATE RECEPTOR ALPHA AND USES THEREOF**
[54] **CONSTRUCTIONS D'ANTICORPS SE LIANT A 4-1BB ET RECEPTEURS ALPHA DE FOLATE ET LEURS UTILISATIONS**
[72] PATTON, DANIEL T., CA
[72] FREIBURGER, LEE, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[72] MILLS, DAVID M., CA
[72] VOLKERS, GESA, CA
[72] UROSEV, DUNJA, CA
[72] DUAN, ZHUANG, CA
[72] HALVORSEN, ELIZABETH, CA
[72] PRATAP, HARSH, CA
[72] CLAVETTE, BRANDON, CA
[72] VON ROSSUM, ANNA, CA
[72] ZWIERZCHOWSKI, PATRICIA, CA
[72] CHAN, PETER WING YIU, CA
[72] CHUI, DANNY, CA
[72] JANCOWSKI, SYLWIA, CA
[72] KANG, SUKHBIR SINGH, CA
[72] WICKMAN, GRANT RAYMOND, CA
[71] ZYMEWORKS INC., CA
[85] 2022-01-11
[86] 2021-04-09 (PCT/CA2021/050481)
[87] (WO2021/207827)
[30] US (63/010,497) 2020-04-15

[21] **3,146,978**
[13] A1
[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **METHOD FOR SHARING RADIO SPECTRUM ON BASIS OF BEAM CONSTANT OFFSET, AND LOW-ORBIT COMMUNICATION SATELLITE SYSTEM**
[54] **PROCEDE DE PARTAGE DE SPECTRE RADIO SELON UN DECALAGE CONSTANT DE FAISCEAU, ET SYSTEME DE SATELLITES DE COMMUNICATION A ORBITE BASSE**
[72] LI, FENG, CN
[72] HOU, FENGLONG, CN
[72] QI, YU, CN
[72] LIN, XIAOXIONG, CN
[72] PEI, SHENGWEI, CN
[72] CHEN, DONG, CN
[72] LI, XINGANG, CN
[72] BAO, ZEYU, CN
[71] CHINA ACADEMY OF SPACE TECHNOLOGY, CN
[85] 2022-01-11
[86] 2020-06-30 (PCT/CN2020/099137)
[87] (WO2021/008349)
[30] CN (201910630504.4) 2019-07-12

[21] **3,146,979**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING TEXTILE INFORMATION AND VISUALIZING SAME**
[54] **SYSTEME ET PROCEDE DE FOURNITURE D'INFORMATIONS TEXTILES ET DE VISUALISATION DE CEUX-CI**
[72] CHEN, HONGLING, CN
[72] SONG, HAIYAN, CN
[72] WEI, YI, CN
[72] ZHANG, LESHENG, CN
[72] ZHANG, XIAOZHEN, CN
[72] ZHAO, LIFENG, CN
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-01-11
[86] 2020-07-10 (PCT/CN2020/101384)
[87] (WO2021/008464)
[30] CN (201910628990.6) 2019-07-12

[21] **3,146,980**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) C12N 15/11 (2006.01)**
[25] EN
[54] **GENETIC MARKER COMBINATION AND USE THEREOF**
[54] **COMBINAISON DE MARQUEUR GENETIQUE ET APPLICATION ASSOCIEE**
[72] WU, XIAOLIN, CN
[72] LIU, XIANGLIN, CN
[72] LUO, YIN, CN
[72] ZOU, HONGZHI, CN
[71] CREATIVE BIOSCIENCES (GUANGZHOU) CO., LTD., CN
[85] 2022-01-11
[86] 2020-06-08 (PCT/CN2020/094954)
[87] (WO2021/004214)
[30] CN (201910624566.4) 2019-07-11

[21] **3,146,981**
[13] A1
[51] **Int.Cl. A01K 1/03 (2006.01) A01K 29/00 (2006.01) G02B 27/01 (2006.01) A01K 15/02 (2006.01)**
[25] EN
[54] **VIRTUAL REALITY SIMULATOR AND METHOD FOR SMALL LABORATORY ANIMALS**
[54] **PROCEDE ET SIMULATEUR DE REALITE VIRTUELLE POUR PETITS ANIMAUX DE LABORATOIRE**
[72] DOBOS, GERGELY, HU
[72] PINKE, DOMONKOS PETER, HU
[72] TOMPA, TAMAS, HU
[72] MAAK, PAL, HU
[72] MAROSI, MATE, HU
[72] KATONA, GERGELY, HU
[72] SZALAY, GERGELY, HU
[72] ROZSA, BALAZS, HU
[71] FEMTONICS KFT., HU
[85] 2022-01-11
[86] 2020-07-09 (PCT/HU2020/050029)
[87] (WO2021/009526)
[30] HU (P1900252) 2019-07-12
[30] HU (P1900400) 2019-11-27

[21] **3,146,983**
[13] A1
[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/10 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEMS FOR USING SENSORS TO DETERMINE RELATIVE SEED OR PARTICLE SPEED**
[54] **PROCEDE ET SYSTEMES D'UTILISATION DE CAPTEURS POUR DETERMINER LA VITESSE RELATIVE DE GRAINES OU DE PARTICULES**
[72] PLATTNER, CHAD, US
[71] PRECISION PLANTING LLC, US
[85] 2022-01-11
[86] 2020-07-08 (PCT/IB2020/056412)
[87] (WO2021/019331)
[30] US (62/881,684) 2019-08-01

[21] **3,146,984**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01)**
[25] EN
[54] **INFORMATION PROCESSING APPARATUS, TERMINAL APPARATUS, AND SECOND TERMINAL APPARATUS**
[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, DISPOSITIF DE TERMINAL ET SECOND DISPOSITIF DE TERMINAL**
[72] TANAKA, KUNIHIKO, JP
[72] HASHIMOTO, DAISUKE, JP
[71] KURA SUSHI, INC., JP
[85] 2022-01-11
[86] 2020-03-30 (PCT/JP2020/014450)
[87] (WO2021/009977)
[30] JP (2019-130814) 2019-07-16

[21] **3,146,986**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-TIGIT ANTIBODIES AND APPLICATION THEREOF**
[54] **ANTICORPS ANTI-TIGIT ET LEUR APPLICATION**
[72] MENG, QIN, CN
[72] YAO, JIAN, CN
[72] FENG, HUI, CN
[72] YAO, SHENG, CN
[72] WU, HAI, CN
[71] SHANGHAI JUNSHI BIOSCIENCES CO., LTD., CN
[71] SUZHOU JUNMENG BIOSCIENCES CO., LTD., CN
[85] 2022-01-11
[86] 2020-07-14 (PCT/CN2020/101883)
[87] (WO2021/008523)
[30] CN (201910634309.9) 2019-07-15

[21] **3,146,987**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/19 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **FUNCTIONAL BINDERS SYNTHESIZED AND SECRETED BY IMMUNE CELLS**
[54] **LIANTS FONCTIONNELS SYNTHETISES ET SECRETES PAR DES CELLULES IMMUNITAIRES**
[72] SHIMASAKI, NORIKO, SG
[72] CAMPANA, DARIO, SG
[71] NATIONAL UNIVERSITY OF SINGAPORE, SG
[85] 2022-01-11
[86] 2020-07-15 (PCT/IB2020/056659)
[87] (WO2021/009694)
[30] US (62/875,455) 2019-07-17

[21] **3,146,988**
[13] A1
[51] **Int.Cl. B64C 25/60 (2006.01) F16F 9/58 (2006.01) F16F 9/06 (2006.01) F16F 9/49 (2006.01)**
[25] EN
[54] **SHOCK ABSORBING STRUT**
[54] **JAMBE D'ABSORPTION DE CHOC**
[72] CHAPPELL, ROBERT, CA
[72] LEE, RANDY, CA
[72] PISTERS, PETER, CA
[72] SACCOCCIA, MICHAEL, CA
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2022-01-11
[86] 2020-07-27 (PCT/IB2020/057067)
[87] (WO2021/019422)
[30] US (16/523,777) 2019-07-26

[21] **3,146,990**
[13] A1
[51] **Int.Cl. G01M 5/00 (2006.01) B64F 5/60 (2017.01)**
[25] EN
[54] **APPARATUS FOR CARRYING OUT LOAD TESTING ON AN AIRCRAFT PART AND METHOD THEREOF**
[54] **APPAREIL POUR EFFECTUER UN ESSAI DE CHARGE SUR UNE PIECE D'AERONEF ET PROCEDE ASSOCIE**
[72] MENAFRO, FELICE, IT
[71] LEONARDO S.P.A., IT
[85] 2022-01-11
[86] 2020-07-16 (PCT/IB2020/056691)
[87] (WO2021/009703)
[30] IT (102019000011850) 2019-07-16

[21] **3,146,992**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/407 (2006.01) A61P 31/20 (2006.01) C07D 419/04 (2006.01) C07D 419/14 (2006.01)**
[25] EN
[54] **DIHYDROPYRIMIDINE DERIVATIVES AND USES THEREOF IN THE TREATMENT OF HBV INFECTION OR OF HBV-INDUCED DISEASES**
[54] **DERIVES DE DIHYDROPYRIMIDINE ET LEURS UTILISATIONS DANS LE TRAITEMENT D'UNE INFECTION PAR LE VIRUS DE L'HEPATITE B OU DE MALADIES INDUITES PAR LE VIRUS DE L'HEPATITE B**
[72] JIANG, YIMIN, CN
[72] CHENG, ZHANLING, CN
[72] DENG, GANG, CN
[72] LIU, ZHIGUO, CN
[72] LIANG, CHAO, CN
[72] WU, JIANPING, CN
[72] KONG, LINGLONG, CN
[72] DENG, XIANGJUN, CN
[72] XU, YANPING, CN
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2022-01-11
[86] 2020-07-30 (PCT/CN2020/105764)
[87] (WO2021/018237)
[30] CN (PCT/CN2019/098569) 2019-07-31
[30] CN (PCT/CN2020/077163) 2020-02-28
[30] CN (PCT/CN2020/096777) 2020-06-18

[21] **3,146,995**
[13] A1
[51] **Int.Cl. A23B 9/20 (2006.01) B65B 31/02 (2006.01)**
[25] EN
[54] **A VACUUM CHAMBER SYSTEM**
[54] **SYSTEME DE CHAMBRE A VIDE**
[72] NAIM, OREN, IL
[71] NAIM, OREN, IL
[85] 2022-01-11
[86] 2020-07-12 (PCT/IL2020/050778)
[87] (WO2021/009749)
[30] IL (268079) 2019-07-15

[21] **3,146,996**
[13] A1
[51] **Int.Cl. G08B 21/02 (2006.01) B60Q 9/00 (2006.01) G08B 21/04 (2006.01)**
[25] EN
[54] **VEHICLE-MOUNTABLE CHILD PROTECTIVE DEVICE**
[54] **DISPOSITIF DE PROTECTION POUR ENFANT POUVANT ETRE MONTE SUR UN VEHICULE**
[72] COPPERMAN, GIDEON, IL
[71] BABY FLAG LTD., IL
[85] 2022-01-11
[86] 2020-07-16 (PCT/IL2020/050797)
[87] (WO2021/028899)
[30] US (16/538,101) 2019-08-12

[21] **3,146,997**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **DIHYDROPYRIMIDINE DERIVATIVES AND USES THEREOF IN THE TREATMENT OF HBV INFECTION OR OF HBV-INDUCED DISEASES**
[54] **DERIVES DE DIHYDROPYRIMIDINE ET LEURS UTILISATIONS DANS LE TRAITEMENT D'UNE INFECTION PAR LE VIRUS DE L'HEPATITE B OU DE MALADIES INDUITES PAR LE VIRUS DE L'HEPATITE B**
[72] JIANG, YIMIN, CN
[72] CHENG, ZHANLING, CN
[72] DENG, GANG, CN
[72] LIU, ZHIGUO, CN
[72] LIANG, CHAO, CN
[72] WU, JIANPING, CN
[72] KONG, LINGLONG, CN
[72] DENG, XIANGJUN, CN
[72] XU, YANPING, CN
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2022-01-11
[86] 2020-07-30 (PCT/CN2020/105765)
[87] (WO2021/018238)
[30] CN (PCT/CN2019/098571) 2019-07-31

[21] **3,146,998**
[13] A1
[51] **Int.Cl. G02B 5/28 (2006.01) G01N 21/43 (2006.01) G01N 21/78 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM, AND METHOD FOR CHANGING ANGLE OF INCIDENCE OF A FILTER OR FILTER WHEEL**
[54] **DISPOSITIF, SYSTEME ET PROCEDE POUR CHANGER L'ANGLE D'INCIDENCE D'UN FILTRE OU D'UNE ROUE DE FILTRE**
[72] STEWART, DAVID, US
[71] RARECYTE, INC., US
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041523)
[87] (WO2021/011344)
[30] US (62/873,390) 2019-07-12

[21] **3,147,000**
[13] A1
[51] **Int.Cl. A01M 7/00 (2006.01) A01B 79/00 (2006.01) A01M 9/00 (2006.01) A01M 21/04 (2006.01)**
[25] FR
[54] **SYSTEM FOR TREATING PLANTS FOR USE IN AGRICULTURE**
[54] **SYSTEME DE TRAITEMENT DE PLANTES EN AGRICULTURE**
[72] SERRAT, HUGO, FR
[72] BEGUERIE, JULES, FR
[72] ROUCHAUD, PIERRE, FR
[72] STEUNOU, LOIC, FR
[71] BILBERRY SAS, FR
[85] 2022-01-11
[86] 2020-07-16 (PCT/IB2020/056704)
[87] (WO2021/009710)
[30] FR (FR1908025) 2019-07-16

[21] **3,147,001**
[13] A1
[51] **Int.Cl. C01B 3/38 (2006.01) C10J 3/84 (2006.01) C10K 3/02 (2006.01)**
[25] EN
[54] **A PROCESS FOR PRODUCING SYNGAS STARTING FROM PRETREATED RECOVERY PLASTIC POLYMERS**
[54] **PROCEDE DE PRODUCTION DE GAZ DE SYNTHESE A PARTIR DE POLYMERES PLASTIQUES DE RECUPERATION PRETRAITES**
[72] MANENTI, FLAVIO, IT
[72] MASI, MAURIZIO, IT
[72] MIELE, SERGIO, IT
[72] BARGIACCHI, ENRICA, IT
[71] POLITECNICO DI MILANO, IT
[71] CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA SCIENZA E TECNOLOGIA DEI MATERIALI (INSTM), IT
[85] 2022-01-11
[86] 2020-07-28 (PCT/IB2020/057097)
[87] (WO2021/019433)
[30] IT (102019000013239) 2019-07-29

[21] **3,147,002**
[13] A1
[51] **Int.Cl. A61K 47/64 (2017.01) C07K 7/08 (2006.01)**
[25] EN
[54] **PEPTIDE THERAPEUTICS FOR AUTOIMMUNE DISEASES AND INFLAMMATORY DISEASES**
[54] **AGENTS THERAPEUTIQUES PEPTIDIQUES POUR MALADIES AUTO-IMMUNES ET MALADIES INFLAMMATOIRES**
[72] CHOI, SANG DUN, KR
[72] SUH, CHANG HEE, KR
[72] KIM, WOOK, KR
[72] SHAH, MASAUD, KR
[72] ACHEK, ASMA, KR
[72] KIM, GIYOUNG, KR
[72] CHEONG, JAE YOUN, KR
[72] KIM, SOON SUN, KR
[71] GENESEN CO., LTD., KR
[85] 2022-01-11
[86] 2020-06-30 (PCT/KR2020/008536)
[87] (WO2021/010621)
[30] KR (10-2019-0085927) 2019-07-16

[21] **3,147,004**
[13] A1
[51] **Int.Cl. A61C 7/00 (2006.01)**
[25] EN
[54] **ORTHODONTIC TREATMENT TRACKING METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE SUIVI DE TRAITEMENT ORTHODONTIQUE**
[72] DHINSA, KIAN, GB
[72] AULAK, DEEPAK, GB
[71] TOOTH FAIRY HEALTHCARE LTD, GB
[85] 2022-01-11
[86] 2020-07-13 (PCT/SG2020/050400)
[87] (WO2021/010895)
[30] GB (1910027.0) 2019-07-12

[21] **3,147,005**
[13] A1
[51] **Int.Cl. C07D 417/04 (2006.01) A61K 31/506 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **DIHYDROPYRIMIDINE DERIVATIVES AND USES THEREOF IN THE TREATMENT OF HBV INFECTION OR OF HBV-INDUCED DISEASES**
[54] **DERIVES DE DIHYDROPYRIMIDINE ET LEURS UTILISATIONS DANS LE TRAITEMENT D'UNE INFECTION PAR LE VIRUS DE L'HEPATITE B OU DE MALADIES INDUITES PAR LE VIRUS DE L'HEPATITE B**
[72] JIANG, YIMIN, CN
[72] CHENG, ZHANLING, CN
[72] DENG, GANG, CN
[72] LIU, ZHIGUO, CN
[72] LIANG, CHAO, CN
[72] WU, JIANPING, CN
[72] KONG, LINGLONG, CN
[72] DENG, XIANGJUN, CN
[72] XU, YANPING, CN
[71] JANSSEN SCIENCES IRELAND UNLIMITED COMPANY, IE
[85] 2022-01-11
[86] 2020-07-30 (PCT/CN2020/105767)
[87] (WO2021/018239)
[30] CN (PCT/CN2019/098575) 2019-07-31

[21] **3,147,007**
[13] A1
[51] **Int.Cl. A61B 5/01 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **VAGINAL TEMPERATURE SENSING APPARATUS AND METHODS**
[54] **APPAREIL ET PROCEDES DE DETECTION DE TEMPERATURE VAGINALE**
[72] WEBSTER, WADE, US
[72] POLLACK, RICHARD, US
[72] HARDEN, ERIC, US
[72] DAENZER, CALDER, US
[72] KASIC, JAMES FRANK II, US
[71] PRIMA-TEMP, INC., US
[85] 2022-01-11
[86] 2018-07-12 (PCT/US2018/041908)
[87] (WO2020/013830)

[21] **3,147,008**
[13] A1
[51] **Int.Cl. A01B 63/32 (2006.01) A01B 61/04 (2006.01) A01B 63/111 (2006.01) A01B 79/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING AN AGRICULTURAL IMPLEMENT DURING THE PERFORMANCE OF A TILLAGE OPERATION**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN INSTRUMENT AGRICOLE PENDANT UNE OPERATION DE TRAVAIL DU SOL**
[72] SMITH, KEVIN M., US
[72] POSSELIUS, JOHN H., US
[72] FOSTER, CHRISTOPHER A., US
[72] HARMON, JOSHUA DAVID, US
[72] ANDERSON, BRUCE, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-01-11
[86] 2020-06-10 (PCT/US2020/036984)
[87] (WO2020/252011)
[30] US (16/442,026) 2019-06-14

[21] **3,147,010**
[13] A1
[51] **Int.Cl. A61M 5/32 (2006.01)**
[25] EN
[54] **PROTECTIVE DEVICE FOR THE NEEDLE TUBE OF A SYRINGE**
[54] **DISPOSITIF DE PROTECTION POUR LE TUBE D'AIGUILLE D'UNE SERINGUE**
[72] FISCHER, STEPHAN, DE
[72] WILKE, TOBIAS, DE
[72] MOHR, BERND, DE
[71] FISCHER, STEPHAN, DE
[71] WILKE, TOBIAS, DE
[71] MOHR, BERND, DE
[85] 2022-01-11
[86] 2019-10-28 (PCT/EP2019/079385)
[87] (WO2021/008717)
[30] DE (20 2019 103 876.4) 2019-07-15

[21] **3,147,012**
[13] A1
[51] **Int.Cl. A01B 71/08 (2006.01) A01B 23/06 (2006.01) A01B 63/00 (2006.01) A01B 63/24 (2006.01) A01B 76/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DE-PLUGGING AN AGRICULTURAL IMPLEMENT BY TRIPPING GROUND-ENGAGING TOOLS OF THE IMPLEMENT**
[54] **SYSTEME ET PROCEDE DE DE-SOLIDARISATION D'UN INSTRUMENT AGRICOLE PAR LE DECLENCHEMENT D'OUTILS DE MISE EN PRISE AVEC LE SOL DE L'INSTRUMENT**
[72] KNOBLOCH, DEAN A., CA
[72] STANHOPE, TREVOR, CA
[72] HENRY, JAMES WAYNE, CA
[71] CNH INDUSTRIAL CANADA, LTD., CA
[85] 2022-01-11
[86] 2020-06-17 (PCT/US2020/038074)
[87] (WO2020/263645)
[30] US (16/452,999) 2019-06-26

[21] **3,147,013**
[13] A1
[51] **Int.Cl. C07C 37/00 (2006.01) A61K 31/05 (2006.01) A61P 31/04 (2006.01) C07C 39/04 (2006.01) C07C 43/235 (2006.01) C07C 49/76 (2006.01) C07D 311/14 (2006.01) C07D 319/16 (2006.01) C07D 333/60 (2006.01) C07H 15/00 (2006.01)**
[25] EN
[54] **PHENOL DERIVATIVES FOR USE AS ANTIMICROBIAL, ANTIBACTERIAL, BACTERICIDE**
[54] **DERIVES DE PHENOL DESTINES A ETRE UTILISES COMME ANTIMICROBIENS, ANTIBACTERIENS, ET BACTERICIDES**
[72] DALLAVALLE, SABRINA, IT
[72] PISANO, CLAUDIO, IT
[72] FLORIO, MASSIMILIANO, IT
[72] CAMPONESCHI, CLAUDIO, IT
[71] SPECIAL PRODUCT'S LINE S.P.A., IT
[85] 2022-01-11
[86] 2020-02-24 (PCT/EP2020/054717)
[87] (WO2020/178053)
[30] IT (102019000003343) 2019-03-07

[21] **3,147,014**
[13] A1
[51] **Int.Cl. B29C 48/41 (2019.01) B29C 48/06 (2019.01) B29C 48/07 (2019.01) B29C 48/285 (2019.01) B29C 48/355 (2019.01) B29C 48/86 (2019.01) B29C 48/875 (2019.01) B29C 48/92 (2019.01)**
[25] EN
[54] **A METHOD FOR CONTINUOUSLY MANUFACTURING UHMWPE PRODUCTS**
[54] **METHODE DE FABRICATION EN CONTINU DE PRODUITS UHMWPE**
[72] FIFIELD, ROBERT MARC, NL
[72] TERBRACK, GUIDO, DE
[71] TEKALEN HOLDING VERWALTUNGS GMBH, DE
[85] 2022-01-11
[86] 2020-07-08 (PCT/EP2020/069255)
[87] (WO2021/008970)
[30] NL (2023518) 2019-07-17

[21] **3,147,015**
[13] A1
[51] **Int.Cl. H02P 8/32 (2006.01) H02P 8/18 (2006.01) A61C 1/00 (2006.01)**
[25] EN
[54] **METHOD OF OPERATING A STEPPER MOTOR IN A DENTAL TOOL MACHINE**
[54] **PROCEDE DE FONCTIONNEMENT D'UN MOTEUR PAS A PAS DANS UNE MACHINE-OUTIL DENTAIRE**
[72] SCHNEIDER, HANS-CHRISTIAN, DE
[72] TRAUTMANN, DANIEL, DE
[71] DENTSPLY SIRONA INC., US
[71] SIRONA DENTAL SYSTEMS GMBH, DE
[85] 2022-01-11
[86] 2020-07-08 (PCT/EP2020/069262)
[87] (WO2021/005115)
[30] EP (19185676.4) 2019-07-11

[21] **3,147,016**
[13] A1
[51] **Int.Cl. A44B 19/32 (2006.01) A41D 31/10 (2019.01) A41D 13/00 (2006.01) A41D 13/012 (2006.01) A41D 31/00 (2019.01) B63C 11/04 (2006.01) F16J 15/04 (2006.01)**
[25] EN
[54] **A SEALING ARRANGEMENT FOR A GARMENT**
[54] **AGENCEMENT D'ETANCHEITE POUR VETEMENTS**
[72] AXELSSON, JONAS, SE
[71] SI TECH AB, SE
[85] 2022-01-11
[86] 2020-07-10 (PCT/EP2020/069616)
[87] (WO2021/009064)
[30] SE (1950887-8) 2019-07-12

[21] **3,147,018**
[13] A1
[51] **Int.Cl. C08G 63/47 (2006.01) C08G 63/553 (2006.01) C09D 167/07 (2006.01)**
[25] EN
[54] **A COATING COMPOSITION**
[54] **COMPOSITION DE REVETEMENT**
[72] WEIJNEN, JOHN, NL
[72] BANDZUCH, JAN, CZ
[72] VLASAKOVA, JARMILA, CZ
[71] PPG EUROPE B.V, NL
[85] 2022-01-11
[86] 2020-07-10 (PCT/EP2020/069662)
[87] (WO2021/009079)
[30] EP (19186625.0) 2019-07-16

[21] **3,147,019**
[13] A1
[51] **Int.Cl. H01M 8/1226 (2016.01) C21D 6/00 (2006.01) C22C 38/18 (2006.01) C22C 38/40 (2006.01) C25D 3/04 (2006.01)**
[25] EN
[54] **A METHOD FOR CHROMIUM UPGRADING OF FERRITIC STEEL INTERCONNECTS FOR SOLID OXIDE CELL STACK APPLICATIONS**
[54] **PROCEDE D'ENRICHISSEMENT EN CHROME D'INTERCONNEXIONS EN ACIER FERRITIQUE POUR DES APPLICATIONS D'EMPILEMENT DE PILES A OXYDE SOLIDE**
[72] NORBY, TOBIAS HOLT, DK
[72] RASS-HANSEN, JEPPE, DK
[72] HEIREDAL-CLAUSEN, THOMAS, DK
[72] KUNGAS, RAINER, EE
[72] BLENNOW, BENGT PETER GUSTAV, DK
[71] HALDOR TOPSOE A/S, DK
[85] 2022-01-11
[86] 2020-07-13 (PCT/EP2020/069710)
[87] (WO2021/009100)
[30] DK (PA 2019 00882) 2019-07-17

[21] **3,147,021**
[13] A1
[51] **Int.Cl. A61J 1/22 (2006.01) A61J 1/20 (2006.01) B65B 3/12 (2006.01) B65B 3/26 (2006.01) B67C 3/22 (2006.01) G01N 9/00 (2006.01)**
[25] EN
[54] **DENSITY FLOW METER FOR PHARMACEUTICAL FORMULATION DOSING**
[54] **DEBITMETRE DE DENSITE POUR DOSAGE DE FORMULATION PHARMACEUTIQUE**
[72] WADDINGTON, DAVID, GB
[72] WORT, MATTHEW, GB
[72] ARNEIL, KATHERINE, GB
[71] CATALENT U.K. SWINDON ZYDIS LIMITED, GB
[85] 2022-01-11
[86] 2020-07-29 (PCT/EP2020/071428)
[87] (WO2021/018978)
[30] US (62/881,145) 2019-07-31

[21] **3,147,025**
[13] A1
[51] **Int.Cl. E04B 9/16 (2006.01) E04B 9/12 (2006.01)**
[25] EN
[54] **CEILING SUSPENSION SYSTEM HAVING A COUPLING BRACKET WITH RESILIENT RETAINING TABS**
[54] **SYSTEME DE SUSPENSION DE PLAFOND AYANT UN SUPPORT DE COUPLAGE A PATTES DE RETENUE ELASTIQUES**
[72] HEESBEEN, JAN-DIRK PIETER, NL
[71] SAINT-GOBAIN ACOUSTICAL PRODUCTS INTERNATIONAL B.V., NL
[85] 2022-01-11
[86] 2020-08-21 (PCT/EP2020/073529)
[87] (WO2021/037742)
[30] NL (2023698) 2019-08-23

[21] **3,147,029**
[13] A1
[51] **Int.Cl. G06F 3/14 (2006.01) G09G 5/14 (2006.01) H04N 9/31 (2006.01)**
[25] EN
[54] **PROVIDING A CONTIGUOUS VIRTUAL SPACE FOR A PLURALITY OF DISPLAY DEVICES**
[54] **FOURNITURE D'UN ESPACE VIRTUEL CONTIGU POUR UNE PLURALITE DE DISPOSITIFS D'AFFICHAGE**
[72] KAMINSKI, KURT, US
[72] RAGAN, MATTHEW, US
[71] MSG ENTERTAINMENT GROUP, LLC, US
[85] 2022-01-11
[86] 2020-07-01 (PCT/US2020/040414)
[87] (WO2021/011193)
[30] US (16/512,214) 2019-07-15

[21] **3,147,031**
[13] A1
[51] **Int.Cl. H01M 10/44 (2006.01) H01M 10/056 (2010.01) H01M 4/04 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **A METHOD FOR REDUCING INTERNAL RESISTANCE OF A BATTERY AND A BATTERY WITH REDUCED INTERNAL RESISTANCE**
[54] **PROCEDE DE REDUCTION DE LA RESISTANCE INTERNE D'UNE BATTERIE, ET BATTERIE A RESISTANCE INTERNE REDUITE**
[72] SAASTAMOINEN, PEKKA, FI
[72] LAPPALAINEN, REIJO, FI
[72] KOLJONEN, PETTERI, FI
[71] SPINDECO TECHNOLOGIES OY, FI
[85] 2022-01-11
[86] 2020-07-10 (PCT/FI2020/050492)
[87] (WO2021/005272)
[30] FI (20195627) 2019-07-11

[21] **3,147,032**
[13] A1
[51] **Int.Cl. E06B 9/68 (2006.01) E06B 9/40 (2006.01)**
[25] EN
[54] **MOTORIZED ROLLER SHADE HAVING A SMART HEMBAR AND METHODS OF OPERATING SAID MOTORIZED ROLLER SHADE AND**
[54] **STORE A ROULEAU MOTORISE AYANT UNE BARRE D'OURLET INTELLIGENTE ET PROCEDES DE FONCTIONNEMENT DUDIT STORE A ROULEAU MOTORISE**
[72] PIERCE, REGINALD, US
[72] POWELL, GARRETT, US
[72] REBBERT, THOMAS F., US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041481)
[87] (WO2021/011324)
[30] US (62/873,294) 2019-07-12

[21] **3,147,033**
[13] A1
[51] **Int.Cl. B23K 37/047 (2006.01) B25B 1/24 (2006.01) B23Q 1/03 (2006.01) B23Q 1/52 (2006.01)**
[25] EN
[54] **FABRICATION FIXTURE**
[54] **APPAREIL DE FABRICATION**
[72] HARRISON, KIRK JOHN, GB
[71] BAE SYSTEMS PLC, GB
[85] 2022-01-11
[86] 2020-07-09 (PCT/GB2020/051656)
[87] (WO2021/009485)
[30] GB (1910119.5) 2019-07-15

[21] **3,147,034**
[13] A1
[51] **Int.Cl. A61K 35/761 (2015.01) A61K 38/46 (2006.01) A61K 39/12 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **TREATMENT OF DISEASES ASSOCIATED WITH PROTEIN MISFOLDING BY NERVOUS SYSTEM EXPRESSION OF AN ENZYME WHICH HAS A DEOXYRIBONUCLEASE (DNASE) ACTIVITY**
[54] **TRAITEMENT DE MALADIES ASSOCIEES A UN MAUVAIS REPLIEMENT DE PROTEINES PAR EXPRESSION DU SYSTEME NERVEUX D'UNE ENZYME AYANT UNE ACTIVITE DESOXYRIBONUCLEASE (DNASE)**
[72] GENKIN, DMITRY DMITRIEVICH, RU
[72] TETS, GEORGY VIKTOROVICH, US
[72] TETS, VIKTOR VENIAMINOVICH, US
[71] CLS THERAPEUTICS LIMITED, GB
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041579)
[87] (WO2021/011368)
[30] US (62/873,840) 2019-07-12

[21] **3,147,036**
[13] A1
[51] **Int.Cl. G06Q 10/02 (2012.01) G06Q 10/10 (2012.01) G06F 9/451 (2018.01)**
[25] EN
[54] **FORENSICS SYSTEM**
[54] **SYSTEME D'INVESTIGATION**
[72] VANDERLAND, WILLIAM SIDNEY, US
[72] ANDERSON, WILLIAM, US
[72] SHIVERS, JUSTIN LEE, US
[71] DRILLING INFO, INC., US
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041581)
[87] (WO2021/007507)
[30] US (62/873,072) 2019-07-11

[21] **3,147,038**
[13] A1
[51] **Int.Cl. A61K 35/22 (2015.01) C12N 5/073 (2010.01) A61K 35/12 (2015.01) A61K 38/18 (2006.01) A61K 47/26 (2006.01) C07K 14/51 (2006.01) C12N 5/10 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT USING ENCAPSULATED CELLS**
[54] **METHODES DE TRAITEMENT FAISANT APPEL A DES CELLULES ENCAPSULEES**
[72] MARH, JOEL, US
[72] KIM, JULIA, US
[71] PRIMEGEN BIOTECH, LLC, US
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041580)
[87] (WO2021/011369)
[30] US (62/873,365) 2019-07-12

[21] **3,147,040**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01)**
[25] EN
[54] **METHOD FOR VACCINATING AVIANS AGAINST REOVIRUS**
[54] **PROCEDE DE VACCINATION D'OISEAUX CONTRE UN REOVIRUS**
[72] DORSEY, KRISTI MAE, US
[72] FORD, BRIANNA, US
[72] LUTHER, CHRISTOPHER, US
[72] ROSENBERGER, JOHN KNOX, US
[71] BIOMUNE COMPANY, US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041793)
[87] (WO2021/011465)
[30] US (62/873,271) 2019-07-12

[21] **3,147,042**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 3/00 (2006.01) C07K 14/435 (2006.01) C12N 15/00 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING PEROXISOMAL BIOGENESIS DISORDERS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE TROUBLES ASSOCIES A UNE BIOGENESE DES PEROXYSOMES**
[72] NUEBEL, ESTHER, US
[72] RUTTER, JARED, US
[72] CHEN, YU-CHAN, US
[72] BONKOWSKY, JOSHUA, US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041627)
[87] (WO2021/007527)
[30] US (62/873,119) 2019-07-11

[21] **3,147,044**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **AGENTS THAT INTERFERE WITH THYMIC STROMAL LYMPHOPOIETIN (TSLP)-RECEPTOR SIGNALING**
[54] **AGENTS QUI INTERFERENT AVEC LA SIGNALISATION DU RECEPTEUR DE LYMPHOPOIETINE STROMALE THYMIQUE (TSLP)**
[72] TAM, SUSAN, US
[72] ZHANG, DI, US
[72] SHI, LIHUA, US
[72] FUNG, MAN-CHEONG, US
[71] TAVOTEK BIOTHERAPEUTICS (HONG KONG) LIMITED, CN
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041642)
[87] (WO2021/007533)
[30] US (62/873,051) 2019-07-11

[21] **3,147,048**
[13] A1
[51] **Int.Cl. B01J 4/00 (2006.01) B01J 8/18 (2006.01) B01J 19/26 (2006.01) B05B 1/06 (2006.01) B05B 7/04 (2006.01) C10G 3/00 (2006.01) C10G 11/18 (2006.01)**
[25] EN
[54] **CATALYTIC CRACKING SYSTEM WITH BIO-OIL PROCESSING**
[54] **SYSTEME DE CRAQUAGE CATALYTIQUE DOUE D'UN TRAITEMENT DE BIO-HUILE**
[72] PATEL, BANDISH, US
[72] BOATMAN, DIGNA, US
[72] GBORDZOE, EUSEBIUS, US
[71] SPRAYING SYSTEMS CO., US
[71] TECHNIP PROCESS TECHNOLOGY, INC., US
[85] 2022-01-11
[86] 2020-07-10 (PCT/US2020/041679)
[87] (WO2021/007549)
[30] US (62/872,965) 2019-07-11

[21] **3,147,049**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/17 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **ENGINEERING NOTCH LIGANDS TO ENHANCE THE ANTI-TUMOR ACTIVITY OF ADOPTIVELY TRANSFERRED T CELLS**
[54] **LIGANDS NOTCH MODIFIES POUR AMELIORER L'ACTIVITE ANTITUMORALE DE LYMPHOCYTES T TRANSFERES DE MANIERE ADOPTIVE**
[72] LUCA, VINCENT, US
[72] RODRIGUEZ, PAULO, US
[72] GONZALEZ-PEREZ, DAVID, US
[71] H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE, INC., US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041765)
[87] (WO2021/007573)
[30] US (62/872,976) 2019-07-11

[21] **3,147,059**
[13] A1
[51] **Int.Cl. A61B 17/34 (2006.01) A61B 18/14 (2006.01) A61M 25/06 (2006.01) A61B 17/00 (2006.01) A61M 25/01 (2006.01)**
[25] EN
[54] **ENDOSCOPIC CATHETER DEVICE**
[54] **DISPOSITIF CATHETER ENDOSCOPIQUE**
[72] SCOTT, SERENA, US
[72] HANSEN, KATRINA, US
[72] ELLIS-RECH, DAVID SHLOMO RAFAEL, US
[72] CALLAGHAN, DAVID, US
[72] TASSONI, ANTHONY FRANK, JR., US
[72] STORBECK, GENE THOMAS, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-01-11
[86] 2020-09-30 (PCT/US2020/053567)
[87] (WO2021/086534)
[30] US (62/928,082) 2019-10-30

[21] **3,147,068**
[13] A1
[51] **Int.Cl. A61K 36/899 (2006.01) A61K 39/35 (2006.01) A61K 39/395 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING ALLERGY AND ENHANCING ALLERGEN-SPECIFIC IMMUNOTHERAPY BY ADMINISTERING AN IL-4R ANTAGONIST**
[54] **METHODES DE TRAITEMENT DE L'ALLERGIE ET D'AMELIORATION DE L'IMMUNOTHERAPIE SPECIFIQUE AUX ALLERGENES PAR ADMINISTRATION D'UN ANTAGONISTE DE L'IL-4R**
[72] HAMILTON, JENNIFER D., US
[72] O'BRIEN, MEAGAN P., US
[72] RADIN, ALLEN, US
[72] RUDDY, MARCELLA, US
[72] STAUDINGER, HERIBERT, US
[71] REGENERON PHARMACEUTICALS, INC., US
[71] SANOFI BIOTECHNOLOGY, FR
[85] 2022-01-11
[86] 2020-08-05 (PCT/US2020/044958)
[87] (WO2021/026203)
[30] US (62/882,992) 2019-08-05
[30] EP (20315351.5) 2020-07-16

[21] **3,147,074**
[13] A1
[51] **Int.Cl. A01M 1/20 (2006.01) A01N 43/72 (2006.01) A01P 5/00 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01) C07B 61/00 (2006.01) C07D 498/14 (2006.01)**
[25] EN
[54] **OXAZEPINONE DERIVATIVE, AGRICULTURAL/HORTICULTURAL INSECTICIDE CONTAINING THE SAME, AND METHOD FOR USING THE SAME**
[54] **DERIVE D'OXEPINONE, INSECTICIDE A USAGE AGRICOLE ET HORTICOLE CONTENANT LEDIT DERIVE, ET SON PROCEDE D'UTILISATION**
[72] HAYASHI, NOBUYUKI, JP
[72] GOSHO, YOSHINORI, JP
[72] AOSHIMA, MASATAKA, JP
[72] SATO, HIROKO, JP
[71] NIHON NOHYAKU CO., LTD., JP
[85] 2022-01-11
[86] 2020-08-06 (PCT/JP2020/030107)
[87] (WO2021/029308)
[30] JP (2019-147693) 2019-08-09
[30] JP (2019-231507) 2019-12-23

[21] **3,147,079**
[13] A1
[51] **Int.Cl. A61M 25/10 (2013.01) A61N 5/06 (2006.01) A61L 29/16 (2006.01)**
[25] EN
[54] **BALLOON DELIVERY DEVICE FOR A LIGHT ACTIVABLE TREATMENT MEDIA**
[54] **DISPOSITIF D'ADMINISTRATION PAR BALLONNET D'UN MILIEU DE TRAITEMENT ACTIVABLE PAR LA LUMIERE**
[72] BIRDNO, MERRILL J., US
[72] BROYLES, MICHAEL R., US
[72] HONER, JEFFREY J., US
[72] HYZIN, CHRISTOPHER, US
[72] SHORT, BRANDON C., US
[72] NELSON, JARED S., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2022-01-11
[86] 2020-08-07 (PCT/US2020/045450)
[87] (WO2021/026477)
[30] US (62/883,802) 2019-08-07
[30] US (62/940,777) 2019-11-26
[30] US (62/942,543) 2019-12-02

[21] **3,147,097**
[13] A1
[51] **Int.Cl. C08L 101/12 (2006.01) B29D 7/01 (2006.01) B65D 33/00 (2006.01)**
[25] EN
[54] **FILMS AND BAGS HAVING GRADIENT DEFORMATION PATTERNS**
[54] **FILMS ET SACS A PROFILS DE PENTE DE DEFORMATION**
[72] TUCKER, EDWARD B., US
[72] DORSEY, ROBERT T., US
[72] ZHU, RANYI, US
[72] FITES, THEODORE CORY, US
[72] VIDOVIC, ZELJKO, US
[72] BORCHARDT, MICHAEL G., US
[72] MAXWELL, JASON R., US
[72] BROERING, SHAUN T., US
[72] PECK, DANIEL C., US
[71] THE GLAD PRODUCTS COMPANY, US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041826)
[87] (WO2021/011483)
[30] US (62/875,633) 2019-07-18

[21] **3,147,098**
[13] A1
[51] **Int.Cl. A61N 5/01 (2006.01) A61N 5/10 (2006.01)**
[25] EN
[54] **A COMPACT DOSIMETRIC DATA COLLECTION PLATFORM FOR A BREAST CANCER STEREOTACTIC RADIOTHERAPY SYSTEM**
[54] **PLATE-FORME DE COLLECTE DE DONNEES DOSIMETRIQUE COMPACTE POUR UN SYSTEME DE RADIOTHERAPIE STEREOTAXIQUE DU CANCER DU SEIN**
[72] GU, XUEJUN, US
[72] PARSONS, DAVID, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041842)
[87] (WO2021/011495)
[30] US (62/873,515) 2019-07-12
[30] US (62/873,501) 2019-07-12

[21] **3,147,099**
[13] A1
[51] **Int.Cl. A61N 5/00 (2006.01)**
[25] EN
[54] **INDEPENDENT STEREOTACTIC RADIOTHERAPY DOSE CALCULATION AND TREATMENT PLAN VERIFICATION**
[54] **CALCUL DE DOSE DE RADIOTHERAPIE STEREOTAXIQUE INDEPENDANTE ET VERIFICATION DE PLAN DE TRAITEMENT**
[72] LU, WEIGUO, US
[72] GU, XUEJUN, US
[72] CHEN, MINGLI, US
[72] JIA, XUN, US
[72] JIANG, STEVE BIN, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041848)
[87] (WO2021/011499)
[30] US (62/873,515) 2019-07-12
[30] US (62/873,501) 2019-07-12

[21] **3,147,100**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6886 (2018.01) G16B 20/00 (2019.01) G16B 40/00 (2019.01) G06F 17/18 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **ADAPTIVE ORDER FULFILLMENT AND TRACKING METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES D'EXECUTION ET DE SUIVI DE COMMANDE ADAPTATIFS**
[72] JAROS, CHARLES, US
[72] TELL, ROBERT, US
[72] STEINMETZ, THOMAS, US
[72] MOORE, ELLE CHRISTINA, US
[72] SIMPSON, ISAIAH D., US
[71] TEMPUS LABS, US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041862)
[87] (WO2021/011507)
[30] US (62/873,693) 2019-07-12
[30] US (PCT/US2019/056713) 2019-10-17
[30] US (16/771,451) 2020-06-10

[21] **3,147,101**
[13] A1
[51] **Int.Cl. G06F 21/73 (2013.01) G06F 21/60 (2013.01) G16Y 30/10 (2020.01) H04L 9/08 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **ANTI-CLONING SYSTEM FOR INTERNET OF THINGS DEVICES**
[54] **SYSTEME ANTI-CLONAGE POUR DISPOSITIFS DE L'INTERNET DES OBJETS**
[72] AYOUB, MICHAEL ATEF, US
[72] WASILY, NABIL, US
[71] THIRDWAYV, INC., US
[85] 2022-01-11
[86] 2020-07-14 (PCT/US2020/042013)
[87] (WO2021/016005)
[30] US (62/876,254) 2019-07-19

[21] **3,147,102**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING BIDIRECTIONAL FORWARDING DETECTION WITH PERFORMANCE ROUTING MEASUREMENTS**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'UNE DETECTION D'EMISSION BIDIRECTIONNELLE A L'AIDE DE MESURES DE ROUTAGE SELON LA PERFORMANCE**
[72] GUPTA, ANUBHAV, US
[72] BHOLE, MAHESH EKNATH, US
[72] PONNURU, LAXMIKANTHA REDDY, US
[72] MISHRA, AJAY KUMAR, US
[72] RADHAKRISHNAN, PRABAHAR, US
[71] CISCO TECHNOLOGY, INC., US
[85] 2022-01-11
[86] 2020-07-15 (PCT/US2020/042155)
[87] (WO2021/016020)
[30] US (62/877,997) 2019-07-24
[30] US (16/675,465) 2019-11-06

[21] **3,147,103**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C12N 5/0786 (2010.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IMMUNOMODULATORY ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS IMMUNOMODULATEURS ET LEURS METHODES D'UTILISATION**
[72] PURI, KAMAL D., US
[72] CHANDRASEKARAN, SIDDARTH, US
[72] CONERLY, MELISSA L., US
[72] SIMMONS, RANDI M., US
[72] SMITH, TYREL T., US
[72] BRANUM, MARK E., US
[72] PROBST, PETER, US
[71] ONCORESPONSE, INC., US
[85] 2022-01-11
[86] 2020-07-17 (PCT/US2020/042668)
[87] (WO2021/016128)
[30] US (62/876,580) 2019-07-19
[30] US (62/876,579) 2019-07-19
[30] US (62/878,265) 2019-07-24

[21] **3,147,104**
[13] A1
[51] **Int.Cl. A01B 71/08 (2006.01) A01B 29/06 (2006.01) A01B 76/00 (2006.01) A01B 23/06 (2006.01) A01B 29/04 (2006.01) A01B 49/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING PLUGGING OF GROUND ENGAGING TOOLS BASED ON WIRELESS SIGNAL DETECTION**
[54] **SYSTEME ET PROCEDE POUR IDENTIFIER L'OBTURATION D'OUTILS D'ATTAQUE DU SOL SUR LA BASE D'UNE DETECTION DE SIGNAL SANS FIL**
[72] GLOVIER, SCOTT, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-01-11
[86] 2020-07-20 (PCT/US2020/042703)
[87] (WO2021/016147)
[30] US (16/521,099) 2019-07-24

[21] **3,147,105**
[13] A1
[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/529 (2006.01) A61K 45/06 (2006.01) A61P 9/06 (2006.01) A61P 11/00 (2006.01) A61P 25/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMBINATION OF AN A2-ADRENOCEPTOR SUBTYPE C (ALPHA-2C) ANTAGONISTS WITH A TASK1/3 CHANNEL BLOCKER FOR THE TREATMENT OF SLEEP APNEA**
[54] **COMBINAISON D'ANTAGONISTES D'UN SOUS-TYPE C DE RECEPTEUR A2-ADRENERGIQUE (ALPHA-2C) AVEC UN BLOQUEUR DE CANAL TASK1/3 POUR LE TRAITEMENT DE L'APNEE DU SOMMEIL**
[72] DELBECK, MARTINA, DE
[72] HAHN, MICHAEL, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2021-11-05
[86] 2020-05-04 (PCT/EP2020/062262)
[87] (WO2020/225185)
[30] EP (19173592.7) 2019-05-09

[21] **3,147,106**
[13] A1
[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/4162 (2006.01) A61P 35/00 (2006.01) C07D 209/00 (2006.01) C07D 231/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **INHIBITORS OF CYCLIN-DEPENDENT KINASE 7 AND USES THEREOF**
[54] **INHIBITEURS DE KINASE 7 DEPENDANTE DES CYCLINES ET LEURS UTILISATIONS**
[72] ZHANG, TINGHU, US
[72] KWIATKOWSKI, NICHOLAS PAUL, US
[72] GRAY, NATHANAEL S., US
[72] HE, ZHIXIANG, US
[72] LIANG, YANKE, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2022-01-11
[86] 2020-07-22 (PCT/US2020/043132)
[87] (WO2021/016388)
[30] US (62/877,788) 2019-07-23

[21] **3,147,107**
[13] A1
[51] **Int.Cl. A61F 7/02 (2006.01) A61F 7/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF PRESBYOPIA**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT DE LA PRESBYTIE**
[72] ROBINSON, MICHAEL R., US
[72] DIBAS, MOHAMMED, US
[72] GORE, ANURADHA, US
[71] ALLERGAN, INC., US
[85] 2022-01-11
[86] 2020-07-24 (PCT/US2020/043534)
[87] (WO2021/021646)
[30] US (62/879,296) 2019-07-26

[21] **3,147,108**
[13] A1
[51] **Int.Cl. G01N 23/04 (2018.01) G01N 23/083 (2018.01) G01N 23/087 (2018.01) G01N 33/02 (2006.01)**
[25] EN
[54] **X-RAY AUTOMATED CALIBRATION AND MONITORING**
[54] **ETALONNAGE ET SURVEILLANCE AUTOMATISES DE RAYONS X**
[72] GILL, JEFFREY C., US
[72] BUTT, AMER M., US
[72] TIMPERIO, RICHARD D., US
[71] JOHN BEAN TECHNOLOGIES CORPORATION, US
[85] 2022-01-11
[86] 2020-08-13 (PCT/US2020/046178)
[87] (WO2021/034610)
[30] US (62/888,209) 2019-08-16

[21] **3,147,109**
[13] A1
[51] **Int.Cl. C08L 23/12 (2006.01) C09J 123/12 (2006.01) C09J 123/14 (2006.01)**
[25] EN
[54] **POLYOLEFIN-CONTAINING HOT-MELT ADHESIVES**
[54] **ADHESIFS THERMOFUSIBLES CONTENANT DES POLYOLEFINES**
[72] MINIX, BRIAN R., US
[72] GRAY, STEVEN D., US
[72] HU, MIAO, US
[72] SECRIST, KIMBERLY E., US
[71] BOSTIK, INC., US
[85] 2022-01-11
[86] 2020-07-30 (PCT/US2020/044163)
[87] (WO2021/021990)
[30] US (62/881,462) 2019-08-01

[21] **3,147,110**
[13] A1
[51] **Int.Cl. G01R 33/44 (2006.01) A61N 5/10 (2006.01)**
[25] EN
[54] **INHOMOGENEOUS MRI SYSTEM**
[54] **SYSTEME D'IRM INHOMOGENE**
[72] JIA, XUN, US
[72] SHEN, CHENYANG, US
[72] HASSAN-REZAEIAN, NIMA, US
[72] GRADINETTI, JACE, US
[72] JIANG, STEVE BIN, US
[72] TIMMERMAN, ROBERT, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-01-11
[86] 2020-07-30 (PCT/US2020/044238)
[87] (WO2021/025943)
[30] US (62/882,692) 2019-08-05

[21] **3,147,111**
[13] A1
[51] **Int.Cl. A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/4745 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 491/20 (2006.01)**
[25] EN
[54] **DUAL ATM AND DNA-PK INHIBITORS FOR USE IN ANTI-TUMOR THERAPY**
[54] **INHIBITEURS DOUBLES DE L'ATM ET DE L'ADN-PK DESTINES A UNE UTILISATION EN THERAPIE ANTITUMORALE**
[72] FU, JIANMIN, CN
[72] WANG, YAODE, CN
[72] SUN, YUE, CN
[72] WU, GUOSHENG, CN
[72] LU, AIJUN, CN
[72] ZHANG, SHUANG, CN
[72] GOODNOW, ROBERT A., US
[72] GILMER, TONA, US
[72] KASTAN, MICHAEL, US
[72] KIRSCH, DAVID, US
[71] XRAD THERAPEUTICS, INC., US
[85] 2022-01-11
[86] 2020-07-30 (PCT/US2020/044322)
[87] (WO2021/022078)
[30] CN (201910695148.4) 2019-07-30
[30] US (62/883,325) 2019-08-06

[21] **3,147,113**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING ATOPIC DERMATITIS BY ADMINISTERING AN IL-4R ANTAGONIST**
[54] **METHODES DE TRAITEMENT DE LA DERMATITE ATOPIQUE PAR ADMINISTRATION D'UN ANTAGONISTE DE L'IL-4R**
[72] BANSAL, ASHISH, US
[72] GRAHAM, NEIL, US
[72] MINA-OSORIO, PAOLA, US
[72] DAVIS, JOHN, US
[72] KAMAL, MOHAMED, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-01-11
[86] 2020-08-05 (PCT/US2020/044960)
[87] (WO2021/026205)
[30] US (62/882,946) 2019-08-05
[30] US (62/940,108) 2019-11-25
[30] US (62/985,715) 2020-03-05
[30] US (63/024,467) 2020-05-13
[30] US (63/032,408) 2020-05-29

[21] **3,147,114**
[13] A1
[51] **Int.Cl. A23L 5/30 (2016.01) A61K 41/13 (2020.01) A61K 41/00 (2020.01)**
[25] FR
[54] **METHOD FOR ENHANCING THE BIOAVAILABILITY OF HYDROPHILIC ACTIVE COMPOUNDS IN AN AQUEOUS SOLUTION**
[54] **PROCEDE D'AMELIORATION DE LA BIODISPONIBILITE DE COMPOSES ACTIFS HYDROPHILES DANS UNE SOLUTION AQUEUSE**
[72] DESJARDINS-LAVISSE, ISABELLE, FR
[72] GILLET, GUILLAUME, FR
[71] GENIALIS, FR
[85] 2022-01-12
[86] 2020-07-09 (PCT/FR2020/051242)
[87] (WO2021/009450)
[30] FR (1907938) 2019-07-15

[21] **3,147,115**
[13] A1
[51] **Int.Cl. F16H 57/037 (2012.01) F16H 48/38 (2012.01) F16H 57/029 (2012.01) B61F 15/24 (2006.01)**
[25] EN
[54] **DIFFERENTIAL WITH A PLASTIC DEFLECTOR HAVING A STAINLESS STEEL RUNNING SURFACE**
[54] **DIFFERENTIEL A DEFLECTEUR EN PLASTIQUE COMPRENANT UNE SURFACE DE ROULEMENT EN ACIER INOXYDABLE**
[72] CABAJ, MICHAEL, US
[71] LINAMAR CORPORATION, CA
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/070260)
[87] (WO2021/011953)
[30] US (62/873,248) 2019-07-12

[21] **3,147,116**
[13] A1
[51] **Int.Cl. G01S 17/93 (2020.01) G01S 17/931 (2020.01) G01S 7/481 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **SOLID STATE LIDAR MACHINE VISION FOR POWER EQUIPMENT DEVICE**
[54] **VISIONIQUE UTILISANT UN SYSTEME LIDAR A SEMI-CONDUCTEURS POUR DISPOSITIF D'EQUIPEMENT ELECTRIQUE**
[72] HART, CHARLES, US
[72] KUCERA, JEFF, US
[71] MTD PRODUCTS INC, US
[85] 2022-01-11
[86] 2020-07-13 (PCT/US2020/041823)
[87] (WO2021/007577)
[30] US (16/509,097) 2019-07-11

[21] **3,147,117**
[13] A1
[51] **Int.Cl. B65F 1/14 (2006.01) B65F 1/16 (2006.01)**
[25] EN
[54] **BIN AID**
[54] **AIDE DE POUBELLE**
[72] CILELI, MEHMET, AU
[71] CILELI, MEHMET, AU
[85] 2022-01-12
[86] 2019-07-12 (PCT/AU2019/050739)
[87] (WO2020/010411)
[30] AU (2018902530) 2018-07-12

[21] **3,147,118**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01)**
[25] EN
[54] **MONITORING A QUALITY OF NEURAL RECORDINGS**
[54] **SURVEILLANCE D'UNE QUALITE D'ENREGISTREMENTS NEURONAUX**
[72] PARKER, DANIEL JOHN, AU
[72] OBRADOVIC, MILAN, AU
[72] KARANTONIS, DEAN MICHAEL, AU
[72] GUELTON, IVAN, AU
[72] ASCONE, STEPHANIE, AU
[72] NARAYANAN, MICHAEL, AU
[71] SALUDA MEDICAL PTY LTD, AU
[85] 2022-01-12
[86] 2020-07-13 (PCT/AU2020/050725)
[87] (WO2021/007615)
[30] AU (2019902485) 2019-07-12

[21] **3,147,119**
[13] A1
[51] **Int.Cl. G06Q 50/16 (2012.01) G06Q 30/06 (2012.01) G06F 16/29 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FACILITATING CONTACT BETWEEN PARTIES**
[54] **SYSTEME ET PROCEDE POUR FACILITER LE CONTACT ENTRE DES PARTIES**
[72] HOOPER, DEREK, CA
[72] MOUNT, DENNIS, CA
[71] KNOK'D INC., CA
[85] 2022-01-12
[86] 2019-07-12 (PCT/CA2019/050965)
[87] (WO2020/010467)
[30] US (62/697,936) 2018-07-13

[21] **3,147,120**
[13] A1
[51] **Int.Cl. H04L 12/22 (2006.01) G06F 21/62 (2013.01) G06F 16/903 (2019.01) G06Q 30/06 (2012.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SHARING CONTENT DATA BETWEEN NETWORKED DEVICES**
[54] **PROCEDE ET APPAREIL PERMETTANT DE PARTAGER DES DONNEES DE CONTENU ENTRE DES DISPOSITIFS EN RESEAU**
[72] TAFAZOLI BILANDI, FARSHID, CA
[72] SUZANI, AMIN, CA
[72] TAFAZOLI BILANDI, SHAHRAM, CA
[71] LINKME TECHNOLOGIES INC., CA
[85] 2022-01-12
[86] 2020-07-14 (PCT/CA2020/050980)
[87] (WO2021/007668)
[30] US (62/874,799) 2019-07-16

[21] **3,147,122**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **CLDN18.2 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS CLDN18.2 ET SON UTILISATION**
[72] JIN, ZHAOYU, CN
[72] LI, YUN, CN
[72] LI, FENG, CN
[72] HUO, NAIFAN, CN
[72] JIN, XIUMEI, CN
[72] REN, LI, CN
[72] YAN, ZHEXIAN, CN
[71] FUTUREGEN BIOPHARMACEUTICAL (BEIJING) CO., LTD., CN
[85] 2022-01-12
[86] 2020-07-10 (PCT/CN2020/101383)
[87] (WO2021/008463)
[30] CN (201910628018.9) 2019-07-12

[21] **3,147,123**
[13] A1
[51] **Int.Cl. H02J 50/20 (2016.01) H02J 50/40 (2016.01)**
[25] EN
[54] **MULTI-PHASE WIRELESS ELECTRIC FIELD POWER TRANSFER SYSTEM, TRANSMITTER AND RECEIVER**
[54] **SYSTEME DE TRANSFERT DE PUISSANCE DE CHAMP ELECTRIQUE SANS FIL MULTIPHASE, EMETTEUR ET RECEPTEUR**
[72] BARTLETT, ANDREW, CA
[72] ROUSE, CHRIS, CA
[72] TEBIANIAN, HAMED, CA
[71] SOLACE POWER INC., CA
[85] 2022-01-12
[86] 2020-07-17 (PCT/CA2020/050995)
[87] (WO2021/007680)
[30] US (62/875,043) 2019-07-17

[21] **3,147,124**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/396 (2006.01) A61K 47/10 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **STABLE AST-3424 INJECTION PREPARATION AND PREPARATION METHOD**
[54] **PREPARATION D'INJECTION D'AST-3424 STABLE ET PROCEDE DE PREPARATION**
[72] DUAN, JIANXIN, CN
[71] OBI PHARMA, INC., CN
[85] 2022-01-12
[86] 2020-07-14 (PCT/CN2020/101870)
[87] (WO2021/008520)
[30] CN (201910635633.2) 2019-07-15

[21] **3,147,125**
[13] A1
[51] **Int.Cl. G06N 5/00 (2006.01) G06F 16/50 (2019.01) G06F 16/901 (2019.01) G05D 1/02 (2020.01) G06K 9/62 (2022.01) G06T 7/00 (2017.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR STATE NAVIGATION**
[54] **PROCEDE ET SYSTEMES DE NAVIGATION D'ETAT**
[72] HATAMI-HANZA, HAMID, CA
[71] HATAMI-HANZA, HAMID, CA
[85] 2022-01-12
[86] 2020-07-20 (PCT/CA2020/051000)
[87] (WO2021/012040)
[30] US (61/876,753) 2019-07-21

[21] **3,147,126**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 7/06 (2006.01) C07K 14/54 (2006.01) C07K 16/00 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **MASKED IL12 FUSION PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE FUSION IL12 MASQUES ET LEURS PROCEDES D'UTILISATION**
[72] BLACKLER, RYAN, CA
[72] VOLKERS, GESA, CA
[72] DOUDA, DAVID, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[72] DESJARDINS, GENEVIEVE, CA
[72] AFACAN, NICOLE, CA
[71] ZYMEWORKS INC., CA
[85] 2022-01-12
[86] 2021-03-23 (PCT/CA2021/050383)
[87] (WO2021/189139)
[30] US (62/993,334) 2020-03-23
[30] US (63/146,567) 2021-02-05

[21] **3,147,127**
[13] A1
[51] **Int.Cl. G09F 3/20 (2006.01) G06Q 30/00 (2012.01) G09F 21/04 (2006.01) G09F 27/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR DISPLAYING PRICES BY MEANS OF A DISPLAY PANEL**
[54] **SYSTEME D'AFFICHAGE DE PRIX AU MOYEN D'UN PANNEAU D'AFFICHAGE**
[72] KALHEBER, KONSTANTIN, DE
[72] KALHEBER, STEFANIE, DE
[72] KALHEBER, MICHAEL, DE
[71] VISI/ONE GMBH, DE
[85] 2022-01-12
[86] 2020-03-26 (PCT/EP2020/058566)
[87] (WO2020/193705)
[30] DE (10 2019 107 731.1) 2019-03-26

[21] **3,147,128**
[13] A1
[51] **Int.Cl. H04L 1/16 (2006.01)**
[25] EN
[54] **INFORMATION PROCESSING METHOD AND DEVICE, EQUIPMENT, AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT D'INFORMATIONS, EQUIPEMENT ET SUPPORT DE STOCKAGE**
[72] LIN, YANAN, CN
[72] WU, ZUOMIN, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2022-01-12
[86] 2019-11-08 (PCT/CN2019/116779)
[87] (WO2021/088003)

[21] **3,147,129**
[13] A1
[51] **Int.Cl. B42D 25/36 (2014.01) B42D 25/328 (2014.01) B42D 25/373 (2014.01) B42D 25/40 (2014.01) B42D 25/425 (2014.01)**
[25] EN
[54] **SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF**
[54] **DISPOSITIFS DE SECURITE ET LEURS PROCEDES DE FABRICATION**
[72] HOLMES, BRIAN, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2022-01-12
[86] 2020-07-10 (PCT/GB2020/051675)
[87] (WO2021/009497)
[30] GB (1910041.1) 2019-07-12

[21] **3,147,131**
[13] A1
[51] **Int.Cl. B42D 25/36 (2014.01) B42D 25/328 (2014.01) B42D 25/373 (2014.01) B42D 25/40 (2014.01) B42D 25/425 (2014.01)**
[25] EN
[54] **SECURITY DEVICES AND METHODS OF MANUFACTURE**
[54] **DISPOSITIFS DE SECURITE ET PROCEDES DE FABRICATION**
[72] HOLMES, BRIAN, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2022-01-12
[86] 2020-07-10 (PCT/GB2020/051676)
[87] (WO2021/009498)
[30] GB (1910042.9) 2019-07-12

[21] **3,147,132**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD, COMMUNICATION APPARATUS, TERMINAL DEVICE, AND NETWORK DEVICE**
[54] **PROCEDE DE COMMUNICATION, APPAREIL DE COMMUNICATION, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] XIE, XINQIAN, CN
[72] GUO, ZHIHENG, CN
[72] LONG, YI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-01-12
[86] 2020-07-08 (PCT/CN2020/100933)
[87] (WO2021/008422)
[30] CN (201910632072.0) 2019-07-12

[21] **3,147,135**
[13] A1
[51] **Int.Cl. B60C 23/04 (2006.01)**
[25] EN
[54] **VEHICLE WHEEL MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE ROUE DE VEHICULE**
[72] BROADFIELD, GARY, GB
[71] TIZAP LIMITED, GB
[85] 2022-01-12
[86] 2019-07-24 (PCT/EP2019/069988)
[87] (WO2020/020985)
[30] GB (1812029.5) 2018-07-24

[21] **3,147,141**
[13] A1
[51] **Int.Cl. B60P 1/52 (2006.01) B60P 3/42 (2006.01)**
[25] EN
[54] **VEHICLE CONFIGURATOR**
[54] **CONFIGURATEUR DE VEHICULE**
[72] KAGI, PETER, CH
[72] RINDERKNECHT, FRANK M., CH
[71] CREATIVE INNOVATIONS AG, CH
[85] 2022-01-12
[86] 2020-07-01 (PCT/EP2020/068584)
[87] (WO2021/008874)
[30] CH (00916/19) 2019-07-16

[21] **3,147,154**
[13] A1
[51] **Int.Cl. A61K 31/4162 (2006.01) A61K 31/437 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **N-SUBSTITUTED-3,4-(FUSED 5-RING)-5-PHENYL-PYRROLIDINE-2-ONE COMPOUNDS AS INHIBITORS OF ISOQC AND/OR QC ENZYME**
[54] **COMPOSES DE 5-PHENYL-PYRROLIDINE-2-ONE N-SUBSTITUES EN POSITIONS 3 ET 4 A CYCLE 5 CONDENSE UTILISES EN TANT QU'INHIBITEURS DE L'ENZYME ISOQC ET/OU QC**
[72] EVERS, BASTIAAN, NL
[72] BRENNAN, PAUL E, GB
[71] SCENIC IMMUNOLOGY B.V., NL
[85] 2022-01-12
[86] 2020-07-10 (PCT/EP2020/069630)
[87] (WO2021/009068)
[30] EP (19185997.4) 2019-07-12

[21] **3,147,158**
[13] A1
[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/42 (2006.01) C08G 18/80 (2006.01) C09D 175/06 (2006.01)**
[25] EN
[54] **ONE-PACK POLYURETHANE DISPERSIONS, THEIR MANUFACTURE AND USE**
[54] **DISPERSIONS DE POLYURETHANE A UN SEUL COMPOSANT, LEUR FABRICATION ET LEUR UTILISATION**
[72] SCHOEPPING, TOBIAS, DE
[72] ZIHANG, SYLVIA, DE
[72] PODLASKI-PYZIK, BEATE, DE
[72] SPERBER, KERSTIN, DE
[71] BASF COATINGS GMBH, DE
[85] 2022-01-12
[86] 2020-07-15 (PCT/EP2020/070037)
[87] (WO2021/009252)
[30] EP (19186451.1) 2019-07-16

[21] **3,147,159**
[13] A1
[51] **Int.Cl. B32B 7/12 (2006.01) C09J 7/30 (2018.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING LAMINATE, LAMINATE, CARRIER, AND METHOD FOR MANUFACTURING THE CARRIER**
[54] **PROCEDE DE FABRICATION D'UN STRATIFIE, STRATIFIE, SUPPORT, ET PROCEDE DE FABRICATION DU SUPPORT**
[72] BAKKER, WRIDZER JAN WILLEM, NL
[72] KNEPPER, HANS DANIEL, NL
[71] PLANTICS HOLDING B.V., NL
[85] 2022-01-12
[86] 2020-07-16 (PCT/EP2020/070217)
[87] (WO2021/023495)
[30] EP (19189757.8) 2019-08-02

[21] **3,147,161**
[13] A1
[51] **Int.Cl. E21B 23/04 (2006.01) E21B 23/06 (2006.01)**
[25] EN
[54] **BALLISTICALLY ACTUATED WELLBORE TOOL**
[54] **OUTIL DE PUITS DE FORAGE A ACTIONNEMENT BALISTIQUE**
[72] EITSCHBERGER, CHRISTIAN, DE
[72] SCHARF, THILO, IE
[72] BURMEISTER, GERNOT UWE, US
[71] DYNAENERGETICS EUROPE GMBH, DE
[85] 2022-01-12
[86] 2020-07-17 (PCT/EP2020/070291)
[87] (WO2021/013731)
[30] US (62/876,447) 2019-07-19

[21] **3,147,164**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIBODY COMBINATIONS FOR TREATMENT OF CANCER IN SPECIFIC PATIENTS**
[54] **COMBINAISONS D'ANTICORPS DESTINEES AU TRAITEMENT DU CANCER CHEZ DES PATIENTS SPECIFIQUES**
[72] FRENDEUS, BJORN, SE
[72] TEIGE, INGRID, SE
[72] MARTENSSON, LINDA, SE
[72] KARLSSON, INGRID, SE
[72] CRAGG, MARK, GB
[72] BEERS, STEPHEN, GB
[72] OLDHAM, ROBERT, GB
[71] BIOINVENT INTERNATIONAL AB, SE
[71] UNIVERSITY OF SOUTHAMPTON, AF
[85] 2022-01-12
[86] 2020-07-17 (PCT/EP2020/070319)
[87] (WO2021/009358)
[30] EP (19186840.5) 2019-07-17

[21] **3,147,165**
[13] A1
[25] EN
[54] **DENTAL HYDRAULIC CEMENT COMPRISING ULTRAFINE CALCIUM SILICATE PARTICLES HAVING FAST HARDENING AND SUITABLE MECHANICAL PROPERTIES**
[54] **CIMENT HYDRAULIQUE DENTAIRE COMPRENANT DES PARTICULES ULTRAFINES DE SILICATE DE CALCIUM PRESENTANT UN DURCISSEMENT RAPIDE ET DES PROPRIETES MECANIQUES APPROPRIEES**
[72] RICHARD, GILLES, FR
[72] MARIE, OLIVIER, FR
[72] CO, CLEMENCE, FR
[71] SEPTODONT OU SEPTODONT SAS OU SPECIALITES SEPTODONT, FR
[85] 2022-01-12
[86] 2020-07-17 (PCT/EP2020/070350)
[87] (WO2021/009369)
[30] EP (19305951.6) 2019-07-18

[21] **3,147,214**
[13] A1
[51] **Int.Cl. A45F 3/04 (2006.01) A45C 13/30 (2006.01) A45F 3/12 (2006.01) A45F 3/14 (2006.01)**
[25] FR
[54] **CARRYING STRAP EQUIPPED WITH A SHAPING REINFORCEMENT**
[54] **BRETELLE DE PORTAGE EQUIPEE D'UNE ARMATURE DE CONFORMATION**
[72] ERRAFI, MOHAMMED, FR
[71] GRAVIBAG, FR
[85] 2021-12-24
[86] 2020-06-01 (PCT/FR2020/050929)
[87] (WO2020/245530)
[30] FR (FR1905872) 2019-06-03

[21] **3,147,220**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) H01M 50/358 (2021.01)**
[25] EN
[54] **AEROSOL GENERATION DEVICE WITH BATTERY VENTING SYSTEM**
[54] **DISPOSITIF DE GENERATION D'AEROSOL DOTE D'UN SYSTEME DE VENTILATION DE BATTERIE**
[72] HUPKES, ERNST, NL
[72] ZOMINY, CLAUDE, FR
[71] JT INTERNATIONAL SA, CH
[85] 2022-01-12
[86] 2020-08-07 (PCT/EP2020/072326)
[87] (WO2021/023890)
[30] EP (19190867.2) 2019-08-08
[30] EP (19194403.2) 2019-08-29
[30] EP (19211987.3) 2019-11-28

[21] **3,147,221**
[13] A1
[51] **Int.Cl. C07D 471/08 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING PHENOL DERIVATIVE**
[54] **PROCEDE DE PRODUCTION D'UN DERIVE DU PHENOL**
[72] HIROSE, MASAAKI, JP
[71] NIPPON CHEMIPHAR CO., LTD., JP
[85] 2022-01-12
[86] 2020-07-17 (PCT/JP2020/027769)
[87] (WO2021/015109)
[30] JP (2019-134083) 2019-07-19

[21] **3,147,222**
[13] A1
[51] **Int.Cl. B03D 1/14 (2006.01) B03D 1/16 (2006.01) B03D 1/24 (2006.01)**
[25] EN
[54] **FLOTATION CELL**
[54] **CELLULE DE FLOTTATION**
[72] RINNE, ANTTI, FI
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2022-01-12
[86] 2019-07-29 (PCT/FI2019/050568)
[87] (WO2021/019122)

[21] **3,147,223**
[13] A1
[51] **Int.Cl. C22C 38/54 (2006.01) B21K 1/44 (2006.01) C21D 8/06 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/58 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A STEEL PART AND STEEL PART**
[54] **PROCEDE DE PRODUCTION D'UNE PIECE EN ACIER, ET PIECE EN ACIER**
[72] RESIAK, BERNARD, FR
[72] FROTEY, MARION, FR
[71] ARCELORMITTAL, LU
[85] 2022-01-12
[86] 2020-07-16 (PCT/IB2020/056695)
[87] (WO2021/009705)
[30] IB (PCT/IB2019/056061) 2019-07-16

[21] **3,147,225**
[13] A1
[51] **Int.Cl. G16H 20/30 (2018.01)**
[25] EN
[54] **ELECTRONIC ARRANGEMENT FOR THERAPEUTIC INTERVENTIONS UTILIZING VIRTUAL OR AUGMENTED REALITY AND RELATED METHOD**
[54] **AGENCEMENT ELECTRONIQUE POUR INTERVENTIONS THERAPEUTIQUES PAR REALITE VIRTUELLE OU AUGMENTEE ET METHODE ASSOCIEE**
[72] BRATTY, JOHN RAYMOND, GB
[72] ECCLESTON, CHRISTOPHER, GB
[72] LIIKKANEN, SAMMELI, FI
[72] STENFORS, CARINA, FI
[71] ORION CORPORATION, FI
[85] 2022-01-12
[86] 2020-07-10 (PCT/FI2020/050491)
[87] (WO2021/009412)
[30] FI (20195634) 2019-07-12

[21] **3,147,226**
[13] A1
[51] **Int.Cl. A61K 31/69 (2006.01) A61P 35/00 (2006.01) C07F 5/02 (2006.01)**
[25] EN
[54] **ARGINASE INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS D'ARGINASE ET PROCEDES D'UTILISATION ASSOCIES**
[72] MLYNARSKI, SCOTT NATHAN, US
[72] SHIELDS, JASON, US
[72] KAWATKAR, SAMEER, US
[72] YE, QING, US
[72] WANG, HAIXIA, US
[72] ZHENG, XIAOLAN, US
[72] FINLAY, RAY, GB
[72] SIMPSON, IAIN, GB
[71] ASTRAZENECA AB, SE
[85] 2022-01-12
[86] 2020-07-22 (PCT/IB2020/056899)
[87] (WO2021/014380)
[30] US (62/877,407) 2019-07-23

[21] **3,147,227**
[13] A1
[51] **Int.Cl. H04K 3/00 (2006.01) B60R 25/24 (2013.01)**
[25] EN
[54] **INTERFERING RADIO AND VEHICLE KEY LOCKER**
[54] **RADIO BROUILLEUSE ET CASIER A CLES DE VEHICULE**
[72] LEE, JASON, US
[72] KAMINSKI, JASON HENRY, US
[72] KIM, SIN IL, US
[72] LEE, IN YONG, US
[71] FIRSTECH, LLC, US
[85] 2022-01-12
[86] 2020-07-30 (PCT/US2020/044277)
[87] (WO2021/025953)
[30] US (16/533,426) 2019-08-06

[21] **3,147,228**
[13] A1
[51] **Int.Cl. A61K 31/4725 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61P 7/02 (2006.01) A61P 9/10 (2006.01) A61P 25/06 (2006.01) A61P 25/08 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **ENZYME INHIBITORS**
[54] **INHIBITEURS D'ENZYME**
[72] EDWARDS, HANNAH JOY, GB
[72] EVANS, DAVID MICHAEL, GB
[72] MAZZACANI, ALESSANDRO, GB
[72] OBARA, ALICJA STELA, GB
[72] CLARK, DAVID EDWARD, GB
[72] GANCIA, EMANUELA, GB
[72] PITTAWAY, RACHAEL, GB
[72] WRIGGLESWORTH, JOSEPH WILLIAM, GB
[71] KALVISTA PHARMACEUTICALS LIMITED, GB
[85] 2022-01-12
[86] 2020-02-13 (PCT/GB2020/050332)
[87] (WO2021/032937)
[30] GB (PCT/GB2019/052359) 2019-08-21

[21] **3,147,230**
[13] A1
[51] **Int.Cl. A46B 7/04 (2006.01)**
[25] EN
[54] **HYGIENIC BRUSH**
[54] **BROSSE HYGIENIQUE**
[72] CHAPMAN, JOSH, US
[72] LACEY, BRITTANY, US
[71] SDC U.S. SMILEPAY SPV, US
[85] 2022-01-12
[86] 2020-07-10 (PCT/US2020/041678)
[87] (WO2021/011402)
[30] US (16/510,239) 2019-07-12

[21] **3,147,231**
[13] A1
[51] **Int.Cl. H01M 10/0567 (2010.01) H01M 10/0525 (2010.01) H01M 10/0569 (2010.01)**
[25] EN
[54] **ELECTROLYTE SOLUTION FOR A LITHIUM ION CELL**
[54] **SOLUTION ELECTROLYTIQUE POUR UNE PILE AU LITHIUM-ION**
[72] WANG, HUI, US
[72] LIU, YAQUN, US
[72] HAN, YING, US
[72] XU, GANG, US
[72] HOU, JIAN, US
[72] PENG, SHUWEN, US
[72] SINGH, RAVJIV RATNA, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2022-01-12
[86] 2020-07-09 (PCT/US2020/041302)
[87] (WO2021/011275)
[30] US (62/873,555) 2019-07-12
[30] US (16/921,323) 2020-07-06

[21] **3,147,232**
[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/10 (2020.01) A24F 40/40 (2020.01) A24F 40/57 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEMS**
[54] **SYSTEMES DE FOURNITURE D'AEROSOL**
[72] BOHAM, SCOTT GEORGE, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-01-12
[86] 2020-07-08 (PCT/GB2020/051641)
[87] (WO2021/009483)
[30] GB (1910045.2) 2019-07-12

[21] **3,147,233**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/485 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **OPIOID GROWTH FACTOR RECEPTOR (OGFR) ANTAGONISTS, IN PARTICULAR NALOXONE AND/OR NALTREXONE FOR TREATING CANCER**
[54] **ANTAGONISTES DU RECEPTEUR DU FACTEUR DE CROISSANCE OPIOIDE (OGFR), EN PARTICULIER LA NALOXONE ET/OU LA NALTREXONE POUR LE TRAITEMENT DU CANCER**
[72] MARGULIES, BRYAN S., US
[72] THAKUR, NIKHIL A., US
[71] ROVAXA, US
[85] 2022-01-12
[86] 2020-07-14 (PCT/US2020/041917)
[87] (WO2021/011529)
[30] US (62/874,037) 2019-07-15

[21] **3,147,234**
[13] A1
[51] **Int.Cl. G16H 40/40 (2018.01) G06F 8/65 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR UPDATING FIRMWARE OF MEDICAL DEVICES WHILE MINIMIZING CLINICAL IMPACT**
[54] **SYSTEMES ET PROCEDES DE MISE A JOUR DE MICROLOGICIEL DE DISPOSITIFS MEDICAUX TOUT EN REDUISANT AU MINIMUM L'IMPACT CLINIQUE**
[72] HULAN, GREG T., US
[72] WEILER, ARON, US
[72] RAJENDRAN, KARTHI, US
[72] BORGES, GREGORY, US
[71] CAREFUSION 303, INC., US
[85] 2022-01-12
[86] 2020-07-14 (PCT/US2020/042015)
[87] (WO2021/011578)
[30] US (62/874,445) 2019-07-15

[21] **3,147,235**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) G06Q 10/08 (2012.01) G16H 20/10 (2018.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR OPTIMIZING DRUG MANAGEMENT**
[54] **PROCEDES ET SYSTEMES D'OPTIMISATION DE GESTION DE MEDICAMENTS**
[72] TRIBBLE, DENNIS ANTHONY, US
[72] LY, QUYEN, US
[72] PARR, RICHARD, US
[72] JASKELA, MARIA CONSOLACION, US
[72] SAMPATH, GAUTAM, US
[72] GREUBEL, ALAN, US
[71] CAREFUSION 303, INC., US
[85] 2022-01-12
[86] 2020-07-14 (PCT/US2020/042017)
[87] (WO2021/011580)
[30] US (62/874,444) 2019-07-15

[21] **3,147,236**
[13] A1
[51] **Int.Cl. H01M 50/46 (2021.01) H01M 50/26 (2021.01) H01M 50/414 (2021.01) H01M 50/514 (2021.01) H01M 10/04 (2006.01)**
[25] EN
[54] **BIPOLAR BATTERY**
[54] **BATTERIE BIPOLAIRE**
[72] CUNNINGHAM-BROWN, MAURIZIO GIOVANNI GIUSEPPE, GB
[72] EARP, MALCOLM DAVID, GB
[72] ELLIS, KEITH GORDON, GB
[71] THE ULTIMATE BATTERY COMPANY LTD, GB
[85] 2022-01-12
[86] 2020-07-21 (PCT/GB2020/051738)
[87] (WO2021/014141)
[30] GB (1910456.1) 2019-07-22

[21] **3,147,239**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/28 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **NEUTRALIZING ANTI-AMYLOID BETA ANTIBODIES FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
[54] **NEUTRALISATION D'ANTICORPS ANTI-AMYLOIDE BETA POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] JIN, MING, US
[72] PRADIER, LAURENT, FR
[72] RECZEK, DAVID, US
[72] SELKOE, DENNIS, US
[72] TRAVALINE, TARA, US
[72] WALSH, DOMINIC, US
[71] SANOFI, FR
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[85] 2022-01-12
[86] 2020-07-15 (PCT/US2020/042161)
[87] (WO2021/011673)
[30] US (62/874,724) 2019-07-16

[21] **3,147,240**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 9/14 (2006.01) A61K 31/12 (2006.01) A61K 31/717 (2006.01) A61K 31/724 (2006.01) A61K 36/9066 (2006.01) A61P 25/02 (2006.01)**
[25] FR
[54] **THERAPEUTIC POTENTIAL OF CURCUMIN/CYCLODEXTRIN/CELLULOSE NANOCRYSTALS IN THE TREATMENT OF PERIPHERAL NEUROPATHIES**
[54] **POTENTIEL THERAPEUTIQUE DES NANOCRISTAUX DE CELLULOSE-CYCLODEXTRINE-CURCUMINE DANS LE TRAITEMENT DES NEUROPATHIES PERIPHERIQUES**
[72] CAILLAUD, MARTIAL, FR
[72] DESMOULIERE, ALEXIS, FR
[72] BILLET, FABRICE, FR
[72] STURTZ, FRANCK, FR
[72] NDONG-NTOUTOUME, GAUTIER MARCK ARTHUR, FR
[72] SOL, VINCENT, FR
[72] GRANET, ROBERT, FR
[71] UNIVERSITE DE LIMOGES, FR
[85] 2022-01-11
[86] 2020-07-10 (PCT/IB2020/056505)
[87] (WO2021/009640)
[30] FR (1907897) 2019-07-12

[21] **3,147,241**
[13] A1
[51] **Int.Cl. C10G 9/16 (2006.01) C10G 9/20 (2006.01)**
[25] EN
[54] **FURNACE SYSTEMS AND METHODS FOR CRACKING HYDROCARBONS**
[54] **SYSTEMES DE FOUR ET PROCEDES DE CRAQUAGE D'HYDROCARBURES**
[72] ASLANER, WILLIAM A., US
[72] HIRST, THOMAS T., US
[72] SPICER, DAVID, US
[72] STEPHENS, GEORGE, JP
[71] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2022-01-12
[86] 2020-07-22 (PCT/US2020/042987)
[87] (WO2021/016301)
[30] US (62/878,038) 2019-07-24
[30] EP (19206404.6) 2019-10-31

[21] **3,147,243**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 9/19 (2006.01) A61K 47/06 (2006.01) F26B 5/04 (2006.01) F26B 25/06 (2006.01) F28D 1/02 (2006.01)**
[25] EN
[54] **METHODS AND ASSEMBLIES FOR PREPARING AND DISPENSING LYOSPHERES OF PHARMACEUTICAL COMPOSITIONS**
[54] **PROCEDES ET ENSEMBLES POUR PREPARER ET DISTRIBUER DES LYOSPHERES DE COMPOSITIONS PHARMACEUTIQUES**
[72] BHAMBHANI, AKHILESH, US
[72] JONES, MORRISA, US
[72] SMITH, DERRICK M., US
[72] THIRIOT, DAVID S., US
[72] ROCK, JOSEPH M., US
[71] MERCK SHARP & DOHME CORP., US
[85] 2022-01-12
[86] 2020-07-23 (PCT/US2020/043290)
[87] (WO2021/021567)
[30] US (62/878,802) 2019-07-26

[21] **3,147,244**
[13] A1
[51] **Int.Cl. C07H 21/04 (2006.01) A61P 31/04 (2006.01) C07K 14/22 (2006.01)**
[25] EN
[54] **POLYNUCLEOTIDES FOR THE AMPLIFICATION AND DETECTION OF NEISSERIA GONORRHOEAE**
[54] **POLYNUCLEOTIDES POUR L'AMPLIFICATION ET LA DETECTION DE NEISSERIA GONORRHOEAE**
[72] DEDENT, ANDREA C., US
[72] MAAMAR, HEDIA, US
[72] VANATTA, DANA KELLY, US
[71] TALIS BIOMEDICAL CORPORATION, US
[85] 2022-01-12
[86] 2020-07-24 (PCT/US2020/043620)
[87] (WO2021/016602)
[30] US (62/878,639) 2019-07-25
[30] US (16/523,609) 2019-07-26
[30] US (16/719,744) 2019-12-18

[21] **3,147,246**
[13] A1
[51] **Int.Cl. F01N 5/04 (2006.01) H01L 41/113 (2006.01) H02N 2/18 (2006.01)**
[25] EN
[54] **ENERGY HARVESTING SYSTEM AND METHOD OF MANUFACTURE**
[54] **SYSTEME DE RECUPERATION D'ENERGIE ET PROCEDE DE FABRICATION**
[72] VELAYUTHAM, KARTHIKEYAN, GB
[71] KATRICK TECHNOLOGIES LIMITED, GB
[85] 2022-01-12
[86] 2020-07-23 (PCT/GB2020/051765)
[87] (WO2021/019215)
[30] GB (1911017.0) 2019-08-01
[30] GB (2006829.2) 2020-05-07

[21] **3,147,247**
[13] A1
[51] **Int.Cl. C08L 5/00 (2006.01) C08L 5/02 (2006.01) C09K 8/50 (2006.01)**
[25] EN
[54] **AMINE-FUNCTIONALIZED SACCHARIDE POLYMERS PREPARED BY HYPOCHLORITE OXIDATION**
[54] **POLYMERES DE SACCHARIDE A FONCTION AMINE PREPARES PAR OXYDATION A L'HYPOCHLORITE**
[72] MADDURI, ASHOKA V.R., US
[72] BLACKMON, MATTHEW B., US
[72] GARDNER, CHRISTOPHER P., US
[71] INTEGRITY BIO-CHEMICALS, LLC, US
[85] 2022-01-12
[86] 2020-07-16 (PCT/US2020/042266)
[87] (WO2021/011736)
[30] US (62/875,122) 2019-07-17

[21] **3,147,248**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A61P 1/00 (2006.01) G01N 33/68 (2006.01) G01N 33/92 (2006.01)**
[25] EN
[54] **METHODS AND PRODUCTS FOR TREATMENT OF GASTROINTESTINAL DISORDERS**
[54] **METHODES ET PRODUITS POUR LE TRAITEMENT DE TROUBLES GASTRO-INTESTINAUX**
[72] SMITH, MARK, US
[72] VO, ANH-THU, ELAINE, US
[72] SADOVSKY, ROTEM, US
[72] HENSKE, JOHN, US
[72] GERARDIN, YLAINE, US
[72] TIMBERLAKE, SONIA, US
[71] FINCH THERAPEUTICS HOLDINGS LLC, US
[85] 2022-01-12
[86] 2020-07-17 (PCT/US2020/042546)
[87] (WO2021/016083)
[30] US (62/876,358) 2019-07-19

[21] **3,147,249**
[13] A1
[51] **Int.Cl. A61K 31/08 (2006.01) A23L 33/12 (2016.01) A61K 31/215 (2006.01) A61K 31/225 (2006.01) A61K 31/66 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 11/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR MAINTAINING OR MODULATING MIXTURES OF ETHER LIPID MOLECULES IN A TISSUE OF A HUMAN SUBJECT**
[54] **COMPOSITIONS POUR MAINTENIR OU MODULER DES MELANGES DE MOLECULES ETHER LIPIDIQUES DANS UN TISSU D'UN SUJET HUMAIN**
[72] MEIKLE, PETER JOHN, AU
[71] BAKER HEART AND DIABETES INSTITUTE, AU
[85] 2022-01-13
[86] 2020-07-17 (PCT/AU2020/050742)
[87] (WO2021/007623)
[30] AU (2019902527) 2019-07-17

[21] **3,147,253**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **OPTIMIZED PROTEIN LINKERS AND METHODS OF USE**
[54] **LIEURS PROTEIQUES OPTIMISES ET PROCEDES D'UTILISATION**
[72] GUFFY, SHARON LEIGH, US
[72] WATTS, JOSEPH MATTHEW, US
[71] PAIRWISE PLANTS SERVICES, INC., US
[85] 2022-01-12
[86] 2020-07-17 (PCT/US2020/042553)
[87] (WO2021/016086)
[30] US (62/876,275) 2019-07-19

[21] **3,147,255**
[13] A1
[51] **Int.Cl. F24F 7/02 (2006.01) F24F 7/00 (2021.01) F24F 7/013 (2006.01)**
[25] EN
[54] **ROOF VENT**
[54] **CHEMINEE D'APPEL**
[72] SCHOFEL, RICHARD A., US
[71] SCHOFEL, RICHARD A., US
[85] 2022-01-12
[86] 2020-07-21 (PCT/US2020/042938)
[87] (WO2021/016279)
[30] US (62/876,705) 2019-07-21

[21] **3,147,256**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61B 17/29 (2006.01) A61B 18/14 (2006.01)**
[25] EN
[54] **FORCE LIMITING MECHANISM FOR SURGICAL INSTRUMENTS**
[54] **MECANISME DE LIMITATION DE FORCE POUR INSTRUMENTS CHIRURGICAUX**
[72] WILLIAMS, MASON, US
[72] KOLTZ, JR., MICHAEL L., US
[71] CONMED CORPORATION, US
[85] 2022-01-12
[86] 2020-07-28 (PCT/US2020/043864)
[87] (WO2021/021803)
[30] US (62/881,078) 2019-07-31

[21] **3,147,257**
[13] A1
[51] **Int.Cl. A63J 25/00 (2009.01) A63H 33/00 (2006.01) A63H 33/26 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO SHAPE A MEDIUM**
[54] **SYSTEMES ET PROCEDES POUR FORMER UN MILIEU**
[72] BLUM, STEVEN C., US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-01-12
[86] 2020-07-28 (PCT/US2020/043806)
[87] (WO2021/021770)
[30] US (62/879,888) 2019-07-29
[30] US (16/702,145) 2019-12-03

[21] **3,147,258**
[13] A1
[51] **Int.Cl. A63J 99/00 (2009.01) A63G 31/00 (2006.01)**
[25] EN
[54] **ENHANCED GRANULAR MATERIAL EFFECTS**
[54] **EFFETS AMELIORES DE MATERIAU GRANULAIRE**
[72] KRAUTHAMER, AKIVA MEIR, US
[72] GARNIER, TIMOTHY FITZGERALD, US
[72] USI, MATTHEW, US
[72] HERTZLER, ELAM KEVIN, US
[72] BATRA, SIMRAN VEENA, US
[72] JEROMIN, AARON CHANDLER, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-01-12
[86] 2020-07-28 (PCT/US2020/043819)
[87] (WO2021/021779)
[30] US (62/879,892) 2019-07-29
[30] US (16/685,384) 2019-11-15

[21] **3,147,260**
[13] A1
[51] **Int.Cl. A63G 31/16 (2006.01) A63G 3/00 (2006.01) A63G 7/00 (2006.01)**
[25] EN
[54] **MOTION EXAGGERATING VIRTUAL REALITY RIDE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE CONDUITE A REALITE VIRTUELLE A EXAGERATION DE MOUVEMENT**
[72] KRAUTHAMER, AKIVA MEIR, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-01-12
[86] 2020-07-28 (PCT/US2020/043802)
[87] (WO2021/021769)
[30] US (16/524,939) 2019-07-29

[21] **3,147,261**
[13] A1
[51] **Int.Cl. A43B 13/36 (2006.01) A43B 1/00 (2006.01) A43B 1/02 (2022.01) A43B 3/24 (2006.01) A43B 9/02 (2006.01) A43B 9/06 (2006.01) A43B 13/41 (2006.01) A43B 23/02 (2006.01)**
[25] EN
[54] **SEPARABLE AND RECYCLABLE FOOTWEAR**
[54] **CHAUSSURE SEPARABLE ET RECYCLABLE**
[72] LAI, CHAO YUN, US
[72] DARDINSKI, ALEXANDER, US
[72] SMITH, TADD NICHOLAS, US
[72] HASS, DAVID, US
[71] TBL LICENSING LLC, US
[85] 2022-01-12
[86] 2020-07-17 (PCT/US2020/042520)
[87] (WO2021/011865)
[30] US (62/875,090) 2019-07-17

[21] **3,147,262**
[13] A1
[51] **Int.Cl. C12P 21/00 (2006.01) A23L 27/00 (2016.01) A23L 33/185 (2016.01) A23J 3/00 (2006.01) A23J 3/14 (2006.01) C12P 7/62 (2022.01)**
[25] EN
[54] **MODULATED VEGETABLE PROTEIN**
[54] **PROTEINE VEGETALE MODULEE**
[72] FRAUD, SEBASTIEN, FR
[72] EL YOUSSEF, CYNTHIA, FR
[72] BONARME, PASCAL, FR
[72] LANDAUD-LIATAUD, SOPHIE, FR
[72] HELINCK, SANDRA, FR
[71] SODIMA, FR
[71] INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA), FR
[71] INSTITUT DES SCIENCES ET INDUSTRIES DU VIVANT ET DE L'ENVIRONNEMENT, FR
[85] 2022-01-12
[86] 2019-07-31 (PCT/IB2019/000895)
[87] (WO2021/019269)

[21] **3,147,263**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/51 (2006.01) A61K 35/00 (2006.01) A61K 35/44 (2015.01) A61K 38/00 (2006.01) A61P 9/00 (2006.01) A61P 9/02 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING PULMONARY ARTERIAL HYPERTENSION**
[54] **METHODES ET COMPOSITIONS POUR TRAITER L'HYPERTENSION ARTERIELLE PULMONAIRE**
[72] SIMONS, MICHAEL, US
[71] YALE UNIVERSITY, US
[85] 2022-01-12
[86] 2020-07-14 (PCT/US2020/041957)
[87] (WO2021/011550)
[30] US (62/874,322) 2019-07-15

[21] **3,147,264**
[13] A1
[51] **Int.Cl. G01N 27/414 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL FET SENSOR**
[54] **CAPTEUR A FET ELECTROCHIMIQUE**
[72] LEFLER, SHARON, IL
[72] TAMIR, IDAN, IL
[72] SCHREIBER, DAVID, IL
[72] MASASA, HILA, IL
[71] QULAB MEDICAL LTD., IL
[85] 2022-01-12
[86] 2020-07-10 (PCT/IB2020/000568)
[87] (WO2021/009559)
[30] US (62/873,440) 2019-07-12

[21] **3,147,265**
[13] A1
[51] **Int.Cl. G01N 27/26 (2006.01) A61K 38/19 (2006.01) C12P 21/00 (2006.01) C12Q 1/70 (2006.01) G01N 27/447 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **A PROCESS FOR SEPARATION AND QUANTITATION OF PROTEINS USING CAPILLARY ELECTROPHORESIS**
[54] **TRAITEMENT DE SEPARATION ET DE QUANTIFICATION DE PROTEINES PAR ELECTROPHORESE CAPILLAIRE**
[72] UPADHYAY, ROSHAN GANESHLAL, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2022-01-12
[86] 2020-07-14 (PCT/IB2020/056593)
[87] (WO2021/009669)
[30] IN (201921028239) 2019-07-14

[21] **3,147,266**
[13] A1
[51] **Int.Cl. A61K 31/437 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **IMIDAZO[4,5-C]PYRIDINE DERIVATIVES AS TOLL-LIKE RECEPTOR AGONSITS**
[54] **DERIVES D'IMIDAZO [4,5-C] PYRIDINE EN TANT QU'AGONISTES DU RECEPTEUR DE TYPE TOLL**
[72] AHMAD, OMAR, US
[72] FENSOME, ANDREW, US
[72] FISHER, ETHAN LAWRENCE, US
[72] LACHAPELLE, ERIK ALPHIE, US
[72] UNWALLA, RAYOMAND J, US
[72] XIAO, JUN, US
[72] ZHANG, LEI, US
[71] PFIZER INC., US
[85] 2022-01-12
[86] 2020-07-14 (PCT/IB2020/056605)
[87] (WO2021/009676)
[30] US (62/875,465) 2019-07-17
[30] US (62/961,288) 2020-01-15

[21] **3,147,267**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/022 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS RELATING TO MEDICATION DOSE GUIDANCE**
[54] **SYSTEMES, DISPOSITIFS, ET PROCEDES DE RECOMMANDATIONS SUR LA DOSE DE MEDICAMENTS**
[72] HAYTER, GARY A., US
[72] BHATTACHARYA, APARAJITA, US
[72] BUDIMAN, ERWIN S., US
[72] NOVAK, MATTHEW T., US
[72] JIN, TAIHAO, US
[72] TAUB, MARC B., US
[72] FERN, JONATHAN M., US
[72] XU, YONGJIN, US
[72] ZHU, KAIYUAN, US
[72] COVINGTON, KENDALL, US
[71] ABBOTT DIABETES CARE INC., US
[85] 2022-01-12
[86] 2020-07-31 (PCT/US2020/044528)
[87] (WO2021/026004)
[30] US (62/882,249) 2019-08-02
[30] US (62/979,594) 2020-02-21
[30] US (62/979,618) 2020-02-21
[30] US (62/979,578) 2020-02-21
[30] US (63/058,799) 2020-07-30

[21] **3,147,270**
[13] A1
[51] **Int.Cl. G16B 25/00 (2019.01) G16B 25/10 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **IMPROVING DIAGNOSIS FOR VARIOUS DISEASES USING TUMOR MICROENVIRONMENT ACTIVE PROTEINS**
[54] **AMELIORATION DU DIAGNOSTIC POUR DIVERSES MALADIES A L'AIDE DE PROTEINES ACTIVES DU MICRO-ENVIRONNEMENT TUMORAL**
[72] KRASIK, GALINA, US
[72] LINGENFELTER, KEITH, US
[71] OTRACES INC., US
[85] 2022-01-12
[86] 2020-07-13 (PCT/US2020/041838)
[87] (WO2021/011491)
[30] US (62/873,862) 2019-07-13

[21] **3,147,271**
[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/4545 (2006.01) A61K 31/47 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING DEMENTIA WITH LEWY BODIES**
[54] **COMPOSITIONS ET PROCEDES DESTINES AU TRAITEMENT DE LA DEMENCE A CORPS DE LEWY**
[72] ALAM, JOHN JAHANGIR, US
[71] EIP PHARMA, INC., US
[85] 2022-01-12
[86] 2020-07-12 (PCT/US2020/041736)
[87] (WO2021/011432)
[30] US (62/873,813) 2019-07-12

[21] **3,147,272**
[13] A1
[51] **Int.Cl. A61K 31/497 (2006.01) A61P 35/00 (2006.01) C07D 241/28 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **KIF18A INHIBITORS**
[54] **INHIBITEURS DE KIF18A**
[72] TAMAYO, NURIA A., US
[72] KALLER, MATTHEW RICHARD, US
[72] NGUYEN, THOMAS T., US
[72] NISHIMURA, NOBUKO, US
[72] XUE, QIUFEN MAY, US
[72] ALLEN, JOHN GORDON, US
[71] AMGEN INC., US
[85] 2022-01-12
[86] 2020-08-03 (PCT/US2020/044798)
[87] (WO2021/026099)
[30] US (62/882,265) 2019-08-02

[21] **3,147,274**
[13] A1
[51] **Int.Cl. A61H 35/02 (2006.01) A61F 9/02 (2006.01) A61M 31/00 (2006.01) A61M 37/00 (2006.01) A61M 39/08 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR TREATING OCULAR CONDITIONS**
[54] **DISPOSITIFS ET PROCEDES DE TRAITEMENT DE TROUBLES OCULAIRES**
[72] ERIKSSON, ELOF, US
[72] BROOMHEAD, MICHAEL, US
[71] APPLIED TISSUE TECHNOLOGIES LLC, US
[85] 2022-01-12
[86] 2020-07-10 (PCT/US2020/041636)
[87] (WO2021/011388)
[30] US (62/873,407) 2019-07-12

[21] **3,147,276**
[13] A1
[51] **Int.Cl. A61K 31/444 (2006.01) A61P 35/00 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 498/08 (2006.01)**
[25] EN
[54] **KIF18A INHIBITORS**
[54] **INHIBITEURS DE KIF18A**
[72] TAMAYO, NURIA A., US
[72] ALLEN, JOHN GORDON, US
[72] BANERJEE, ABHISEK, US
[72] CHEN, JIAN JEFFREY, US
[72] FROHN, MICHAEL J., US
[72] KALLER, MATTHEW RICHARD, US
[72] NGUYEN, THOMAS T., US
[72] NISHIMURA, NOBUKO, US
[72] XUE, QIUFEN MAY, US
[71] AMGEN INC., US
[85] 2022-01-12
[86] 2020-08-03 (PCT/US2020/044799)
[87] (WO2021/026100)
[30] US (62/882,268) 2019-08-02

[21] **3,147,277**
[13] A1
[51] **Int.Cl. A01G 31/06 (2006.01) A01G 31/02 (2006.01)**
[25] EN
[54] **HYDROPONIC SYSTEM WITH REMOVABLE GROWING STRUCTURES FOR MULTIPLE TYPES OF PLANTS**
[54] **SYSTEME HYDROPONIQUE AYANT DES STRUCTURES DE CULTURE AMOVIBLES POUR PLUSIEURS TYPES DE PLANTES**
[72] ADAMS, HENRY W., US
[72] STEWART, SULLIVAN S., US
[72] KELVAKIS, ANGELO E., US
[72] BAY, BRANDON C., US
[71] RISE GARDENS INC., US
[85] 2022-01-12
[86] 2020-07-08 (PCT/US2020/041276)
[87] (WO2021/011269)
[30] US (62/873,764) 2019-07-12
[30] US (16/705,636) 2019-12-06

[21] **3,147,278**
[13] A1
[51] **Int.Cl. A01G 31/06 (2006.01)**
[25] EN
[54] **PLUMBING ARRANGEMENT FOR HYDROPONIC GROWING SYSTEM**
[54] **AGENCEMENT DE PLOMBERIE POUR SYSTEME DE CULTURE HYDROPONIQUE**
[72] ADAMS, HENRY W., US
[72] SAMPSON, CRAIG FIELD, US
[72] MARQUINA, SERGIO ALONSO, US
[72] PHILLIPS, NICHOLAS DANIEL, US
[72] STEWART, SULLIVAN S., US
[72] KELVAKIS, ANGELO E., US
[72] BAY, BRANDON C., US
[72] SALIDO, ENRIQUE LOPEZ, US
[72] PADRO, DIEGO ALONSO BLONDET, US
[72] DOMANSKI, JASON MATTHEW, US
[71] RISE GARDENS INC., US
[85] 2022-01-12
[86] 2020-07-08 (PCT/US2020/041275)
[87] (WO2021/011268)
[30] US (62/873,764) 2019-07-12
[30] US (16/705,731) 2019-12-06

[21] **3,147,280**
[13] A1
[51] **Int.Cl. A45D 40/00 (2006.01) B65D 77/10 (2006.01) C08L 91/06 (2006.01) C11C 5/00 (2006.01)**
[25] EN
[54] **SAMPLER FOR A SCENTED WAXY CANDLE AND PROCESS**
[54] **ECHANTILLONNEUR POUR UNE BOUGIE CIREUSE PARFUMEE ET PROCEDE**
[72] DEVASSINE, MICKAEL, FR
[72] BROHMI, AMAL, US
[72] GRIFFITHS, CATHOLYN T., US
[72] DOZIER, JOSHUA M., US
[72] DEVASSINE, HRAZHYNA, US
[71] AKI, INC., US
[85] 2022-01-12
[86] 2020-08-10 (PCT/US2020/045620)
[87] (WO2021/030269)
[30] US (62/884,820) 2019-08-09

[21] **3,147,281**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) A01H 5/00 (2018.01) A01H 9/00 (2006.01) C07H 21/04 (2006.01) C12N 5/00 (2006.01) C12N 15/00 (2006.01)**
[25] EN
[54] **NOVEL INTERGENIC SEQUENCE REGIONS AND USES THEREOF**
[54] **NOUVELLES REGIONS DE SEQUENCE INTERGENIQUES ET LEURS UTILISATIONS**
[72] DAVIS, IAN W., US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2022-01-12
[86] 2020-07-06 (PCT/US2020/040883)
[87] (WO2021/011216)
[30] US (62/875,752) 2019-07-18

[21] **3,147,282**
[13] A1
[51] **Int.Cl. A23L 2/39 (2006.01) A23L 7/20 (2016.01) A23L 27/30 (2016.01) A23C 9/156 (2006.01) A23G 1/32 (2006.01) A23G 1/40 (2006.01) A23G 1/56 (2006.01) A23L 2/38 (2021.01) A23L 2/60 (2006.01)**
[25] EN
[54] **COCOA AND/OR MALT BEVERAGE PRODUCTS**
[54] **PRODUITS DE BOISSON A BASE DE CACAO ET/OU DE MALT**
[72] JAIN, VISHIST KUMAR, SG
[72] TEOH, HOOI KHIM, SG
[72] WAING, SEINN LAE, SG
[72] ANANTA, EDWIN, SG
[72] YE, LIJUAN, CH
[72] MULLER, JEROEN ANDRE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-13
[86] 2020-09-24 (PCT/EP2020/076683)
[87] (WO2021/058635)
[30] SG (10201909063T) 2019-09-27

[21] **3,147,283**
[13] A1
[51] **Int.Cl. C21D 9/573 (2006.01) C21D 1/63 (2006.01)**
[25] EN
[54] **DEVICE FOR COOLING A STEEL STRIP**
[54] **DISPOSITIF DE REFROIDISSEMENT D'UNE BANDE D'ACIER**
[72] HAMIDE, MAKHLOUF, FR
[71] ARCELORMITTAL, LU
[85] 2022-01-12
[86] 2020-07-29 (PCT/IB2020/057132)
[87] (WO2021/024096)
[30] IB (PCT/IB2019/056684) 2019-08-06

[21] **3,147,284**
[13] A1
[51] **Int.Cl. A61B 90/30 (2016.01) A61B 50/20 (2016.01) A61B 50/30 (2016.01) A61B 90/35 (2016.01) A61B 18/14 (2006.01)**
[25] EN
[54] **LIGHTING DEVICE FOR HANDHELD SURGICAL INSTRUMENT WITH SMOKE EVACUATION SYSTEM**
[54] **DISPOSITIF D'ECLAIRAGE POUR INSTRUMENT CHIRURGICAL PORTATIF AVEC SYSTEME D'EVACUATION DE FUMEE**
[72] PATHY, VINOD V., US
[72] KLEYMAN, GENNADY, US
[71] PATHY MEDICAL, LLC, US
[85] 2022-01-12
[86] 2020-06-26 (PCT/US2020/039762)
[87] (WO2021/015925)
[30] US (16/519,744) 2019-07-23

[21] **3,147,285**
[13] A1
[51] **Int.Cl. A23G 3/02 (2006.01) A23G 3/20 (2006.01) A23G 3/34 (2006.01)**
[25] EN
[54] **DEPOSITING METHOD AND DEPOSITOR PLATE**
[54] **PROCEDE DE DEPOT ET PLAQUE DE MACHINE DE COULEE**
[72] ESTEBANEZ VILLACORTA, JUAN, ES
[72] CURIA, CELINE, ES
[72] BORISOV, BORISLAV ZDRAVKOV, GB
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-13
[86] 2020-08-21 (PCT/EP2020/073506)
[87] (WO2021/037727)
[30] EP (19194283.8) 2019-08-29

[21] **3,147,286**
[13] A1
[51] **Int.Cl. A61L 27/10 (2006.01) A61F 2/28 (2006.01) A61L 27/54 (2006.01) C04B 35/584 (2006.01)**
[25] EN
[54] **METHODS OF SURFACE FUNCTIONALIZATION OF ZIRCONIA-TOUGHENED ALUMINA WITH SILICON NITRIDE**
[54] **PROCEDES DE FONCTIONNALISATION DE SURFACE D'ALUMINE RENFORCEE PAR DE LA ZIRCONE AVEC DU NITRURE DE SILICIUM**
[72] MCENTIRE, BRYAN J., US
[72] BOCK, RYAN M., US
[72] BAL, BHAJANJIT SINGH, US
[71] SINTX TECHNOLOGIES, INC., US
[85] 2022-01-12
[86] 2020-06-11 (PCT/US2020/037170)
[87] (WO2021/034385)
[30] US (62/888,850) 2019-08-19

[21] **3,147,289**
[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01)**
[25] EN
[54] **IMPROVED FORMULATIONS FOR IMMUNE CELLS**
[54] **FORMULATIONS AMELIOREES POUR CELLULES IMMUNITAIRES**
[72] BAEZ, OMAR, US
[72] BLASS, DEVIN, US
[71] BELLICUM PHARMACEUTICALS, INC., US
[85] 2022-01-12
[86] 2020-08-12 (PCT/US2020/045999)
[87] (WO2021/030482)
[30] US (62/885,747) 2019-08-12

[21] **3,147,291**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **IMMUNOSTIMULATORY MULTIMERIC BINDING MOLECULES**
[54] **MOLECULES DE LIAISON MULTIMERIQUES IMMUNOSTIMULATRICES**
[72] BALIGA, RAMESH, US
[72] GIFFON, THIERRY, US
[72] NG, DEAN, US
[71] IGM BIOSCIENCES, INC., US
[85] 2022-01-12
[86] 2020-08-14 (PCT/US2020/046379)
[87] (WO2021/030688)
[30] US (62/887,458) 2019-08-15

[21] **3,147,292**
[13] A1
[51] **Int.Cl. G01N 37/00 (2006.01) G01N 23/00 (2006.01)**
[25] EN
[54] **X-RAY UNIT TECHNOLOGY MODULES AND AUTOMATED APPLICATION TRAINING**
[54] **MODULES TECHNIQUES D'APPAREIL DE RADIOGRAPHIE ET APPLICATION D'APPRENTISSAGE AUTOMATISEE**
[72] GILL, JEFFREY C., US
[72] BUTT, AMER M., US
[72] TIMPERIO, RICHARD, US
[71] JOHN BEAN TECHNOLOGIES CORPORATION, US
[85] 2022-01-12
[86] 2020-08-18 (PCT/US2020/046804)
[87] (WO2021/034829)
[30] US (62/890,484) 2019-08-22

[21] **3,147,294**
[13] A1
[51] **Int.Cl. A61B 5/1455 (2006.01) G02B 5/20 (2006.01)**
[25] EN
[54] **OPTICAL FILTER DEVICE, SYSTEM, AND METHOD FOR IMPROVED OPTICAL REJECTION OF OUT-OF-BAND WAVELENGTHS**
[54] **DISPOSITIF DE FILTRE OPTIQUE, SYSTEME ET PROCEDE POUR REJET OPTIQUE AMELIORE DE LONGUEURS D'ONDE HORS BANDE**
[72] LEPAK, CLAYTON, US
[71] PROFUSA, INC., US
[85] 2022-01-12
[86] 2020-08-20 (PCT/US2020/047188)
[87] (WO2021/035047)
[30] US (62/889,539) 2019-08-20

[21] **3,147,296**
[13] A1
[51] **Int.Cl. B29C 65/34 (2006.01) B29C 65/50 (2006.01) B29C 73/00 (2006.01) B32B 17/10 (2006.01) B32B 17/12 (2006.01)**
[25] EN
[54] **IMPROVED FIRE RESISTANT COMPOSITE POLE**
[54] **POTEAU COMPOSITE RESISTANT AU FEU AMELIORE**
[72] PAULIN, ROBERT, US
[71] VALMONT INDUSTRIES, INC., US
[85] 2022-01-12
[86] 2020-09-08 (PCT/US2020/049633)
[87] (WO2021/055182)
[30] US (62/900,693) 2019-09-16

[21] **3,147,297**
[13] A1
[51] **Int.Cl. C12Q 1/689 (2018.01) C12N 7/02 (2006.01) C12Q 1/68 (2018.01) C12Q 1/70 (2006.01) G01N 1/34 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR SINGLE-CELL BASED DIGITAL HIGH RESOLUTION MELT**
[54] **PROCEDES ET DISPOSITIFS POUR FUSION HAUTE RESOLUTION NUMERIQUE A CELLULE UNIQUE**
[72] SINHA, MRIDU, US
[72] SIMKOVSKY, RYAN, US
[72] SRIDHAR, KAUSHIK, US
[72] PAUL, SHUBHODEEP, US
[72] CHAUDHARY, AMOL, US
[71] MELIOLABS INC., US
[85] 2022-01-12
[86] 2020-09-16 (PCT/US2020/051142)
[87] (WO2021/011943)
[30] US (62/874,543) 2019-07-16

[21] **3,147,299**
[13] A1
[51] **Int.Cl. B23Q 5/06 (2006.01) B25B 21/00 (2006.01) B25F 5/00 (2006.01) F01B 25/06 (2006.01) F01D 15/06 (2006.01)**
[25] EN
[54] **DUAL SPEED ROTARY TOOL**
[54] **OUTIL ROTATIF A DOUBLE VITESSE**
[72] SHANE, SIMON RICHARD, US
[71] FIRST EASTERN EQUITIES LIMITED, BM
[85] 2022-01-10
[86] 2020-06-12 (PCT/US2020/037472)
[87] (WO2020/252291)
[30] US (62/860,538) 2019-06-12

[21] **3,147,302**
[13] A1
[51] **Int.Cl. B05B 12/24 (2018.01)**
[25] EN
[54] **FLEXIBLE TAPE WITH EMBEDDED CUTTING FILAMENT**
[54] **RUBAN SOUPLE AVEC FILAMENT DE COUPE INTEGRE**
[72] LANGEMAN, GARY D., US
[71] LANGEMAN MANUFACTURING LIMITED, CA
[85] 2022-01-13
[86] 2020-07-17 (PCT/CA2020/000092)
[87] (WO2021/012034)
[30] US (62/876,136) 2019-07-19

[21] **3,147,304**
[13] A1
[51] **Int.Cl. C02F 11/00 (2006.01) C02F 9/14 (2006.01) C02F 11/04 (2006.01) C02F 11/10 (2006.01) C02F 11/12 (2019.01)**
[25] EN
[54] **HIGH SOLIDS ANAEROBIC DIGESTION WITH POST-DIGESTION HYDROLYSIS**
[54] **DIGESTION ANAEROBIE A HAUTE TENEUR EN SOLIDES AVEC HYDROLYSE POST-DIGESTION**
[72] BENEDEK, ANDREW, US
[72] JOSSE, JUAN CARLOS, US
[71] ANAERGIA INC., CA
[85] 2022-01-13
[86] 2020-07-23 (PCT/CA2020/051017)
[87] (WO2021/012052)
[30] US (62/878,540) 2019-07-25

[21] **3,147,307**
[13] A1
[51] **Int.Cl. A22C 29/04 (2006.01) A22C 29/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR MOLLUSC PROCESSING**
[54] **APPAREIL ET PROCEDES DE TRAITEMENT DE MOLLUSQUES**
[72] LOHNES, KEITH, CA
[72] ROSE, TRACY, CA
[72] MCDONALD, MIKE, CA
[72] DICKSON, ELIZABETH JM, CA
[72] VASILE, FANEL, CA
[72] NAUSS, WILLIAM A, CA
[71] CLEARWATER SEAFOODS LIMITED PARTNERSHIP, CA
[85] 2022-01-13
[86] 2020-07-28 (PCT/CA2020/051033)
[87] (WO2021/016705)
[30] US (62/881,418) 2019-08-01

[21] **3,147,308**
[13] A1
[51] **Int.Cl. B60G 15/06 (2006.01) B60G 17/02 (2006.01) B60G 17/027 (2006.01) B62K 11/00 (2013.01) B62K 25/04 (2006.01) F16F 9/56 (2006.01) F16F 13/00 (2006.01)**
[25] EN
[54] **SHOCK ABSORBER ASSEMBLY WITH ADJUSTABLE HEIGHT**
[54] **ENSEMBLE AMORTISSEUR DE CHOCS A HAUTEUR REGLABLE**
[72] LUSSO, NIKO, IT
[72] MONTENEGRO, MARCO, IT
[71] VRM S.P.A., IT
[85] 2022-01-13
[86] 2020-10-21 (PCT/IB2020/059899)
[87] (WO2021/079288)
[30] IT (102019000019439) 2019-10-21

[21] **3,147,317**
[13] A1
[51] **Int.Cl. B60B 3/04 (2006.01) B23K 33/00 (2006.01)**
[25] EN
[54] **WHEEL**
[54] **ROUE DE VEHICULE**
[72] YE, YANFEI, CN
[72] SHENG, FENG, CN
[72] WU, BINGHUA, CN
[72] WANG, LUFEN, CN
[71] ZHEJIANG JINGU CO., LTD., CN
[85] 2022-01-13
[86] 2020-01-09 (PCT/CN2020/071209)
[87] (WO2021/012642)
[30] CN (201910667209.6) 2019-07-23

[21] **3,147,319**
[13] A1
[51] **Int.Cl. C07C 311/29 (2006.01) A61P 1/00 (2006.01) A61P 3/10 (2006.01) A61P 9/10 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 19/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 39/06 (2006.01) C07C 303/40 (2006.01) C07D 307/82 (2006.01)**
[25] EN
[54] **NAPHTHALENESULFONAMIDE COMPOUND, PREPARATION METHOD, AND APPLICATION**
[54] **COMPOSE DE NAPHTALENE SULFONAMIDE, PROCEDE DE PREPARATION ET UTILISATION**
[72] YOU, QIDONG, CN
[72] JIANG, ZHENGYU, CN
[72] LIU, YUTING, CN
[72] LU, MENGCHEN, CN
[72] SHAO, HONGLI, CN
[72] ZHAO, JING, CN
[72] XU, XIAOLI, CN
[72] GUO, XIAOKE, CN
[72] WANG, LEI, CN
[71] CHINA PHARMACEUTICAL UNIVERSITY, CN
[85] 2022-01-13
[86] 2020-04-13 (PCT/CN2020/084460)
[87] (WO2021/012721)
[30] CN (201910673326.3) 2019-07-24

[21] **3,147,320**
[13] A1
[51] **Int.Cl. G06T 17/10 (2006.01) G06N 3/04 (2006.01)**
[25] EN
[54] **ARTIFICIAL INTELLIGENCE SYSTEMS AND METHODS FOR INTERIOR DESIGN**
[54] **SYSTEMES D'INTELLIGENCE ARTIFICIELLE ET PROCEDES DE CONCEPTION D'INTERIEUR**
[72] YANG, BIN, CN
[72] HU, YILANG, CN
[72] ZHU, YI, CN
[72] BIAN, JIANG, CN
[72] YANG, YUKE, CN
[72] XIN, CHENGCONG, CN
[72] JIANG, XINYUAN, CN
[72] XIANG, CHAORAN, CN
[72] DENG, SHILI, CN
[72] SU, CHONG, CN
[71] REALSEE (BEIJING) TECHNOLOGY CO., LTD., CN
[85] 2022-01-13
[86] 2020-07-15 (PCT/CN2020/102215)
[87] (WO2021/008566)
[30] CN (201910637657.1) 2019-07-15
[30] CN (201910636694.0) 2019-07-15
[30] CN (201910637579.5) 2019-07-15
[30] CN (201910637659.0) 2019-07-15

[21] **3,147,321**
[13] A1
[51] **Int.Cl. D21C 9/16 (2006.01) D21C 9/10 (2006.01) D21C 9/14 (2006.01)**
[25] EN
[54] **HIGH EFFICIENCY FIBER BLEACHING PROCESS**
[54] **PROCEDE DE BLANCHIMENT DE FIBRES A HAUT RENDEMENT**
[72] LEE, JEFFREY A., US
[71] GPCP IP HOLDINGS LLC, US
[85] 2022-01-13
[86] 2020-09-01 (PCT/IB2020/058139)
[87] (WO2021/053446)
[30] US (62/901,288) 2019-09-17
[30] US (17/006,089) 2020-08-28

[21] **3,147,322**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORM OF ATR INHIBITOR AND USE THEREOF**
[54] **FORME CRISTALLINE D'UN INHIBITEUR D'ATR ET SON UTILISATION**
[72] WANG, JIAN, CN
[72] YAO, TING, CN
[72] QIAN, WENYUAN, CN
[72] LI, JIAN, CN
[72] CHEN, SHUHUI, CN
[71] WUXI BIOCITY BIOPHARMACEUTICS CO., LTD., CN
[85] 2022-01-13
[86] 2020-08-06 (PCT/CN2020/107474)
[87] (WO2021/023272)
[30] CN (201910722102.7) 2019-08-06

[21] **3,147,323**
[13] A1
[51] **Int.Cl. B60S 13/00 (2006.01) B25J 5/02 (2006.01) B62D 65/18 (2006.01) B66F 9/06 (2006.01) B66F 19/00 (2006.01) E04H 6/12 (2006.01)**
[25] EN
[54] **TRANSPORTATION ARRANGEMENT FOR TRANSPORTATION OF AN OBJECT ON A SURFACE**
[54] **AGENCEMENT DE TRANSPORT POUR LE TRANSPORT D'UN OBJET SUR UNE SURFACE**
[72] LIBAKKEN, ROLF, NO
[71] WHEEL.ME AS, NO
[85] 2022-01-13
[86] 2020-07-03 (PCT/EP2020/068851)
[87] (WO2021/008905)
[30] EP (19186556.7) 2019-07-16

[21] **3,147,325**
[13] A1
[51] **Int.Cl. B65G 1/02 (2006.01)**
[25] EN
[54] **MULTI-ZONE AUTOMATED STORAGE AND RETRIEVAL SYSTEM**
[54] **SYSTEME AUTOMATISE DE STOCKAGE ET DE RECUPERATION MULTI-ZONE**
[72] GRAVELLE, SCOTT, CA
[72] WINSTON, ROBERT, CA
[72] ROUSSEAU, DARIN, CA
[72] DHALIWAL, SUNDEEP, CA
[72] LANGEN, DOUGLAS, CA
[71] ATTABOTICS INC., CA
[85] 2022-01-12
[86] 2020-08-25 (PCT/IB2020/057931)
[87] (WO2021/038437)
[30] US (62/891,549) 2019-08-26

[21] **3,147,327**
[13] A1
[51] **Int.Cl. A47F 5/11 (2006.01) A47B 57/10 (2006.01) A47B 96/14 (2006.01)**
[25] EN
[54] **PAPERCRAFT DISPLAY UNIT**
[54] **UNITE D'AFFICHAGE DE MAQUETTES EN PAPIER**
[72] MEUTI, DIEGO, IT
[71] REDBOX S.R.L., IT
[85] 2022-01-12
[86] 2019-04-16 (PCT/IT2019/050076)
[87] (WO2020/012514)
[30] IT (102018000007158) 2018-07-13
[30] EP (19153727.3) 2019-01-25

[21] **3,147,329**
[13] A1
[51] **Int.Cl. F16F 5/00 (2006.01) F16F 9/02 (2006.01) F16F 9/32 (2006.01)**
[25] EN
[54] **GAS SPRING**
[54] **RESSORT A GAZ**
[72] CAPPELLER, ALESSANDRO, IT
[71] CAPPELLER FUTURA SRL, IT
[85] 2022-01-12
[86] 2020-07-23 (PCT/IT2020/050183)
[87] (WO2021/014478)
[30] IT (102019000012786) 2019-07-24

[21] **3,147,331**
[13] A1
[51] **Int.Cl. H04R 1/24 (2006.01) H04R 7/12 (2006.01)**
[25] EN
[54] **SPEAKER UNIT AND SPEAKER**
[54] **UNITE DE HAUT-PARLEUR ET DIAPHRAGME DE HAUT-PARLEUR INCURVE**
[72] SATO, KAZUNORI, JP
[72] MIYAHARA, NOBUHIRO, JP
[72] SAKAMOTO, YOSHIO, JP
[72] TANAKA, HIROSHI, JP
[71] SOUND FUN CORPORATION, JP
[85] 2022-01-12
[86] 2019-08-17 (PCT/JP2019/032203)
[87] (WO2021/033226)

[21] **3,147,334**
[13] A1
[51] **Int.Cl. E04H 15/54 (2006.01) E04H 15/02 (2006.01) E04H 15/14 (2006.01) E04H 15/20 (2006.01)**
[25] EN
[54] **SHADE TARP USING ADVERTISING BALLOON**
[54] **TOILE D'OMBRAGE UTILISANT UN BALLON PUBLICITAIRE**
[72] BAEK, JIN HEUM, KR
[71] BAEK, JIN HEUM, KR
[85] 2022-01-12
[86] 2020-07-10 (PCT/KR2020/009086)
[87] (WO2021/010668)
[30] KR (10-2019-0086574) 2019-07-16
[30] KR (10-2020-0084953) 2020-07-09

[21] **3,147,342**
[13] A1
[51] **Int.Cl. A61M 21/00 (2006.01) A61M 5/00 (2006.01)**
[25] EN
[54] **CIRCADIAN OPTIMIZED POLYCHROMATIC LIGHT**
[54] **LUMIERE POLYCHROMATIQUE OPTIMISEE CIRCADIENNE**
[72] MOORE-EDE, MARTIN, US
[72] PLATIKA, DOROS, US
[72] HEITMANN, ANNEKE, US
[72] GUTTKUHN, RAINER, US
[72] LUCIANI, JOHN, US
[71] CIRCADIAN ZIRCLIGHT INC., US
[85] 2022-01-12
[86] 2019-07-12 (PCT/US2019/041728)
[87] (WO2020/014688)
[30] US (62/697,911) 2018-07-13

[21] **3,147,344**
[13] A1
[51] **Int.Cl. B01D 11/02 (2006.01) C10C 3/02 (2006.01)**
[25] EN
[54] **METHOD FOR RECYCLING ASPHALT**
[54] **PROCEDE DE RECYCLAGE D'ASPHALTE**
[72] HOSEL, PETER, DE
[71] HEMO GMBH, DE
[85] 2022-01-13
[86] 2020-07-03 (PCT/EP2020/068863)
[87] (WO2021/008906)
[30] DE (10 2019 119 423.7) 2019-07-17

[21] **3,147,351**
[13] A1
[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/49 (2006.01) A61K 8/81 (2006.01) A61Q 19/10 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **A WATER-IN-OIL EMULSION COMPOSITION FOR ENHANCED DELIVERY OF WATER SOLUBLE SKIN BENEFIT AGENTS**
[54] **COMPOSITION D'EMULSION EAU-DANS-HUILE POUR L'ADMINISTRATION AMELIOREE D'AGENTS BENEFIQUES POUR LA PEAU SOLUBLES DANS L'EAU**
[72] ANANTHASUBRAMANIAN, SIVAKUMAR, IN
[72] GHATLIA, NARESH DHIRAJLAL, IN
[72] HEGISHTE, SWAPNIL RAVIKANT, IN
[72] MATHAPATHI, MRUTHYUNJAYA SWAMY, IN
[72] MAJUMDAR, AMITABHA, IN
[72] PARUCHURI, DIVYA, IN
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2022-01-13
[86] 2020-07-08 (PCT/EP2020/069227)
[87] (WO2021/013546)
[30] EP (19187809.9) 2019-07-23

[21] **3,147,358**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **A DERMATOSCOPY DEVICE AND A METHOD FOR CHECKING SKIN LESIONS**
[54] **DISPOSITIF DE DERMATOSCOPIE ET METHODE DE CONTROLE DE LESIONS CUTANEES**
[72] CAMPMOL AMETLLER, ENRIC, ES
[72] RICART GELI, NARCIS, ES
[71] DERMAVISION SOLUTIONS, SL, ES
[85] 2022-01-13
[86] 2020-07-14 (PCT/EP2020/069850)
[87] (WO2021/023481)
[30] EP (19382687.2) 2019-08-06

[21] **3,147,359**
[13] A1
[51] **Int.Cl. H02K 5/26 (2006.01) H02K 7/14 (2006.01)**
[25] EN
[54] **GEARLESS TORQUE MOTOR CATCHING STRUCTURE**
[54] **STRUCTURE DE CAPTURE DE MOTEUR COUPLE SANS ENGRENAGE**
[72] RICHTER, ULF, CH
[72] CAPLA, RADIM, CH
[71] ABB SCHWEIZ AG, CH
[85] 2022-01-13
[86] 2020-07-14 (PCT/EP2020/069912)
[87] (WO2021/009180)
[30] EP (19186304.2) 2019-07-15

[21] **3,147,363**
[13] A1
[51] **Int.Cl. G09F 3/20 (2006.01)**
[25] EN
[54] **IMAGING DEVICE FOR A SHELF SUPPORT AND SHELF SYSTEM COMPRISING THE IMAGING DEVICE**
[54] **DISPOSITIF D'IMAGERIE POUR UN SUPPORT D'ETAGERE ET SYSTEME D'ETAGERE COMPRENANT LE DISPOSITIF D'IMAGERIE**
[72] SCHWARZ, THOMAS, DE
[72] ROSSL, ANDREAS, AT
[71] SES-IMAGOTAG, FR
[85] 2022-01-13
[86] 2020-07-15 (PCT/EP2020/070024)
[87] (WO2021/009244)
[30] FR (FR1907973) 2019-07-15

[21] **3,147,364**
[13] A1
[51] **Int.Cl. C12Q 1/689 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/686 (2018.01) C12M 1/34 (2006.01) C40B 40/06 (2006.01)**
[25] EN
[54] **DETECTION OF GENOMIC SEQUENCES USING COMBINATIONS OF PROBES, PROBE MOLECULES AND ARRAYS COMPRISING THE PROBES FOR THE SPECIFIC DETECTION OF ORGANISMS**
[54] **DETECTION DE SEQUENCES GENOMIQUES EN AYANT RECOURS A DES COMBINAISONS DE SONDES, MOLECULES SONDES ET RESEAUX COMPRENANT LES SONDES POUR LA DETECTION SPECIFIQUE D'ORGANISMES**
[72] KLAPPROTH, HOLGER, DE
[72] BEDNAR, SONJA, DE
[71] SAFEGUARD BIOSYSTEMS HOLDINGS LTD., GB
[85] 2022-01-13
[86] 2020-07-17 (PCT/EP2020/070308)
[87] (WO2021/013736)
[30] US (62/876,413) 2019-07-19
[30] US (63/004,664) 2020-04-03

[21] **3,147,388**
[13] A1
[51] **Int.Cl. G16H 20/00 (2018.01) G16H 10/20 (2018.01) G16H 20/60 (2018.01) G16H 50/30 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING FERTILITY ENHANCING DIETARY AND LIFESTYLE RECOMMENDATIONS**
[54] **SYSTEME ET PROCEDE PERMETTANT DE FORMULER DES RECOMMANDATIONS ALIMENTAIRES ET DE STYLE DE VIE DESTINEES A AMELIORER LA FERTILITE**
[72] MALIKOV, EVGUENI, US
[72] RONGA, FREDERIC, CH
[72] AFEICHE ZEHIL, MYRIAM, CH
[72] CHRIST, MARY, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-13
[86] 2020-07-29 (PCT/EP2020/071333)
[87] (WO2021/023589)
[30] US (62/883,766) 2019-08-07

[21] **3,147,389**
[13] A1
[51] **Int.Cl. H04W 4/70 (2018.01)**
[25] EN
[54] **USER DATA TRANSPORT OVER CONTROL PLANE IN COMMUNICATION SYSTEM USING DESIGNATED PAYLOAD CONTAINER TYPES**
[54] **TRANSPORT DE DONNEES D'UTILISATEUR SUR UN PLAN DE COMMANDE DANS UN SYSTEME DE COMMUNICATION UTILISANT DES TYPES DE CONTENEURS DE CHARGE UTILE DESIGNES**
[72] LIU, JENNIFER J-N., US
[71] NOKIA TECHNOLOGIES OY, FI
[85] 2022-01-13
[86] 2020-07-29 (PCT/EP2020/071385)
[87] (WO2021/018955)
[30] US (62/879,875) 2019-07-29

[21] **3,147,390**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4725 (2006.01) A61P 29/00 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 491/107 (2006.01) C07D 491/147 (2006.01) C07D 491/20 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **PLASMA KALLIKREIN INHIBITORS**
[54] **INHIBITEURS DE LA KALLICREINE PLASMATIQUE**
[72] DAVIE, REBECCA LOUISE, GB
[72] EDWARDS, HANNAH JOY, GB
[72] EVANS, DAVID MICHAEL, GB
[72] HODGSON, SIMON TEANBY, GB
[72] MAZZACANI, ALESSANDRO, GB
[72] STOCKS, MICHAEL JOHN, GB
[72] BAKER, THOMAS MATTHEW, GB
[72] CONROY, MATTHEW ROBERT, GB
[72] SMITH, ALUN JOHN, GB
[72] CLARK, DAVID EDWARD, GB
[71] KALVISTA PHARMACEUTICALS LIMITED, GB
[85] 2022-01-13
[86] 2020-02-13 (PCT/GB2020/050331)
[87] (WO2021/028649)

[21] **3,147,391**
[13] A1
[51] **Int.Cl. A61F 2/01 (2006.01) A61F 2/95 (2013.01) A61F 2/958 (2013.01) A61M 25/10 (2013.01)**
[25] EN
[54] **POSITIONING DEVICE AND METHOD**
[54] **DISPOSITIF ET METHODE DE POSITIONNEMENT**
[72] ROCHE, ELLEN, IE
[72] KEILLOR, MATTHEW, FR
[72] POULETTY, PHILIPPE, FR
[72] PAU, ANTOINE, FR
[72] GARD, MARCO, IT
[72] WARNACK, BORIS, CH
[72] BRUNEAU, MAELLE, FR
[71] HOLISTICK MEDICAL, FR
[85] 2022-01-13
[86] 2019-08-20 (PCT/IB2019/000915)
[87] (WO2021/033004)

[21] **3,147,392**
[13] A1
[51] **Int.Cl. G06N 3/063 (2006.01) G06N 3/04 (2006.01)**
[25] EN
[54] **CONFIGURABLE PROCESSOR FOR IMPLEMENTING CONVOLUTION NEURAL NETWORKS**
[54] **PROCESSEUR CONFIGURABLE POUR LA MISE EN □UVRE DE RESEAUX NEURONAUX CONVOLUTIFS**
[72] SINHA, PAVEL, CA
[71] SINHA, PAVEL, CA
[85] 2022-01-13
[86] 2020-07-20 (PCT/IB2020/000609)
[87] (WO2021/014215)
[30] US (62/876,219) 2019-07-19
[30] US (62/941,646) 2019-11-27
[30] US (63/025,580) 2020-05-15

[21] **3,147,393**
[13] A1
[51] **Int.Cl. B62M 6/65 (2010.01) B62M 6/90 (2010.01) B62J 6/045 (2020.01) B62J 6/04 (2020.01)**
[25] EN
[54] **ELECTRIC BICYCLE**
[54] **VELO ELECTRIQUE**
[72] BASS, BENJAMIN RAYMOND, US
[72] LUND, BEN M., US
[72] SCHMIDT, ANDREW, US
[71] SERIAL 1 CYCLE COMPANY, LLC, US
[85] 2022-01-13
[86] 2020-07-14 (PCT/IB2020/056631)
[87] (WO2021/009681)
[30] US (62/874,663) 2019-07-16

[21] **3,147,394**
[13] A1
[51] **Int.Cl. B60R 21/0134 (2006.01) B66F 17/00 (2006.01)**
[25] EN
[54] **ANTI-COLLISION SYSTEM AND METHOD FOR GROUND VEHICLES**
[54] **SYSTEME ET PROCEDE ANTI-COLLISION POUR VEHICULES TERRESTRES**
[72] ORLANDO, MICHELE, IT
[72] CAPOLEI, ANDREA, IT
[72] ROSACE, CLAUDIO, IT
[72] SARASSO, STEFANO, IT
[71] UBIQUICOM S.R.L., IT
[85] 2022-01-13
[86] 2020-07-17 (PCT/IB2020/056730)
[87] (WO2021/014303)
[30] IT (102019000012414) 2019-07-19

[21] **3,147,395**
[13] A1
[51] **Int.Cl. A23K 50/10 (2016.01) A23L 33/00 (2016.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS WITH RENAL BENEFITS FOR FELINES**
[54] **PROCEDES ET COMPOSITIONS APPORTANT DES BENEFICES RENAUX AUX FELINS**
[72] WELLS, GEORGE ARTHUR BAILEY, US
[72] TU, HSIAO-WEI, US
[72] LYN, SANDRA, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-13
[86] 2020-07-17 (PCT/IB2020/056775)
[87] (WO2021/014325)
[30] US (62/877,493) 2019-07-23

[21] **3,147,396**
[13] A1
[51] **Int.Cl. B21B 27/02 (2006.01) B21B 27/06 (2006.01) B21B 27/10 (2006.01) C22C 21/00 (2006.01) C22F 1/04 (2006.01)**
[25] EN
[54] **COMPACT ALUMINIUM ALLOY HEAT TREATMENT METHOD**
[54] **PROCEDE DE TRAITEMENT THERMIQUE D'UN ALLIAGE D'ALUMINIUM COMPACT**
[72] MEYER, PHILIPPE, DE
[71] ALERIS ROLLED PRODUCTS GERMANY GMBH, DE
[85] 2022-01-13
[86] 2020-07-20 (PCT/IB2020/056809)
[87] (WO2021/024062)
[30] EP (19190299.8) 2019-08-06

[21] **3,147,397**
[13] A1
[51] **Int.Cl. A61K 31/4188 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 498/16 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **MACROCYCLIC COMPOUNDS AS STING AGONISTS AND METHODS AND USES THEREOF**
[54] **COMPOSES MACROCYCLIQUES UTILISES EN TANT QU'AGONISTES STING ET PROCEDES ET UTILISATIONS DE CEUX-CI**
[72] KARCHE, NAVNATH POPAT, IN
[72] BANERJEE, MOLOY, IN
[72] GUPTA, NISHANT RAMNIVASJI, IN
[72] JADHAV, GANESH RAJARAM, IN
[72] VYAVAHARE, VINOD POPATRAO, IN
[72] DAS, AMIT KUMAR, IN
[72] WALKE, DEEPAK SAHEBRAO, IN
[72] KALHAPURE, VAIBHAV MADHUKAR, IN
[72] BHOSKAR, SMITA ADITYA, IN
[72] RAMDAS, VIDYA, IN
[72] PALLE, VENKATA P., IN
[72] KAMBOJ, RAJENDER KUMAR, IN
[71] LUPIN LIMITED, IN
[85] 2022-01-13
[86] 2020-07-22 (PCT/IB2020/056875)
[87] (WO2021/014365)
[30] IN (201921029556) 2019-07-22
[30] IN (201921051086) 2019-12-10
[30] IN (202021003961) 2020-01-29

[21] **3,147,398**
[13] A1
[51] **Int.Cl. A61K 31/712 (2006.01) A61K 9/08 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **USE OF NANOPARTICLES FOR TREATING RESPIRATORY INFECTIONS ASSOCIATED WITH CYSTIC FIBROSIS**
[54] **UTILISATION DE NANOPARTICULES POUR LE TRAITEMENT D'INFECTIONS RESPIRATOIRES ASSOCIEES A LA FIBROSE KYSTIQUE**
[72] NIEDERMEYER, WILLIAM, US
[71] EVOQ NANO, INC., US
[85] 2022-01-10
[86] 2020-07-13 (PCT/US2020/041796)
[87] (WO2021/011466)
[30] US (62/873,516) 2019-07-12
[30] US (16/926,199) 2020-07-10

[21] **3,147,399**
[13] A1
[51] **Int.Cl. B29D 29/00 (2006.01) D06M 15/227 (2006.01) D06M 15/41 (2006.01) D06M 15/55 (2006.01) D06M 15/693 (2006.01) F16G 1/10 (2006.01) F16G 5/08 (2006.01)**
[25] EN
[54] **TRANSMISSION BELT CORE WIRE PRODUCTION METHOD, TRANSMISSION BELT PRODUCTION METHOD, PROCESSING AGENT AND PROCESSING KIT**
[54] **PROCEDE DE PRODUCTION DE FIL CENTRAL DE COURROIE DE TRANSMISSION, PROCEDE DE PRODUCTION DE COURROIE DE TRANSMISSION, AGENT DE TRAITEMENT ET KIT DE TRAITEMENT**
[72] OZAKI, TOSHIKI, JP
[72] HINENO, YORIFUMI, JP
[71] MITSUBOSHI BELTING LTD., JP
[85] 2022-01-13
[86] 2020-07-08 (PCT/JP2020/026758)
[87] (WO2021/014980)
[30] JP (2019-136378) 2019-07-24
[30] JP (2020-110650) 2020-06-26

[21] **3,147,400**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/353 (2006.01) A61P 19/04 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR CARTILAGE REGENERATION PROMOTION**
[54] **COMPOSITION POUR FAVORISER LA REGENERATION DU CARTILAGE**
[72] OTSUKA, YUTA, JP
[72] FUNAKI, AYUTA, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2022-01-13
[86] 2020-07-21 (PCT/JP2020/028306)
[87] (WO2021/024801)
[30] JP (2019-143144) 2019-08-02

[21] **3,147,401**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61M 25/00 (2006.01)**
[25] EN
[54] **DEVICE FOR IMPLANTING A PROSTHESIS FOR A HEART VALVE AND ASSEMBLY PROCEDURE**
[54] **DISPOSITIF D'IMPLANTATION D'UNE PROTHESE POUR UNE VALVULE CARDIAQUE ET PROCEDURE D'ASSEMBLAGE**
[72] RIGHINI, GIOVANNI, CH
[72] TRINH, CINDY, US
[72] SHIN, DONG IK, US
[72] DENISON, ANDY, US
[72] MAGRINI, KEVIN, US
[71] INNOVHEART S.R.L., IT
[85] 2022-01-13
[86] 2020-07-23 (PCT/IB2020/056960)
[87] (WO2021/014400)
[30] US (16/522,164) 2019-07-25
[30] IT (102019000015653) 2019-09-05

[21] **3,147,402**
[13] A1
[51] **Int.Cl. F01K 23/10 (2006.01) B01D 53/14 (2006.01) B01D 53/62 (2006.01) B01D 53/78 (2006.01) F02C 3/34 (2006.01) F02C 6/18 (2006.01)**
[25] EN
[54] **GAS TURBINE PLANT**
[54] **INSTALLATION DE TURBINE A GAZ**
[72] TSUTSUMI, ATSUSHI, JP
[72] TANAKA, TETSUYA, JP
[72] NAGAFUCHI, NAOYUKI, JP
[72] KAMIJO, TAKASHI, JP
[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP
[71] MITSUBISHI HEAVY INDUSTRIES ENGINEERING, LTD., JP
[85] 2022-01-13
[86] 2020-07-22 (PCT/JP2020/028515)
[87] (WO2021/015260)
[30] JP (2019-136180) 2019-07-24

[21] **3,147,403**
[13] A1
[51] **Int.Cl. A01N 25/02 (2006.01) A01N 25/30 (2006.01) B01D 19/04 (2006.01)**
[25] EN
[54] **AGRICULTURAL FORMULATION**
[54] **COMPOSITION CHIMIQUE AGRICOLE**
[72] SANO, MITSUO, JP
[72] AWAZU, TAKAO, JP
[72] OKADA, TAKASHI, JP
[72] ISHIBASHI, YUTAKA, JP
[72] KOBAYASHI, YUSUKE, JP
[71] ISHIHARA SANGYO KAISHA, LTD., JP
[85] 2022-01-13
[86] 2020-07-27 (PCT/JP2020/028744)
[87] (WO2021/024836)
[30] JP (2019-143474) 2019-08-05

[21] **3,147,404**
[13] A1
[51] **Int.Cl. A61M 25/09 (2006.01) A61F 2/95 (2013.01) A61F 2/24 (2006.01)**
[25] EN
[54] **DEVICE FOR ARRANGING GUIDEWIRES AROUND A HEART VALVE**
[54] **DISPOSITIF D'AGENCEMENT DE FILS DE GUIDAGE AUTOUR D'UNE VALVE CARDIAQUE**
[72] RIGHINI, GIOVANNI, CH
[72] TRINH, CINDY, US
[72] SHIN, DONG IK, US
[72] DENISON, ANDY, US
[72] MAGRINI, KEVIN, US
[71] INNOVHEART S.R.L., IT
[85] 2022-01-13
[86] 2020-07-23 (PCT/IB2020/056962)
[87] (WO2021/014401)
[30] US (16/522,204) 2019-07-25
[30] IT (102019000015494) 2019-09-03

[21] **3,147,405**
[13] A1
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/02 (2006.01) A61H 3/00 (2006.01)**
[25] EN
[54] **ORTHOTIC**
[54] **ORTHETIQUE**
[72] YAMADA, SATOSHI, JP
[72] CHEN, YAO, JP
[72] SUZUKI, HIDETOSHI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2022-01-13
[86] 2020-08-06 (PCT/JP2020/030225)
[87] (WO2021/029325)
[30] JP (2019-147629) 2019-08-09

[21] **3,147,406**
[13] A1
[51] **Int.Cl. C08L 33/02 (2006.01) C08L 101/00 (2006.01)**
[25] EN
[54] **TRACEABLE COMPOSITE POLYMERS AND PREPARATION METHODS THEREOF**
[54] **POLYMERES COMPOSITES TRACABLES ET LEURS PROCEDES DE PREPARATION**
[72] BAREKET, YIFAT, IL
[72] YORAN, NADAV, IL
[72] ALON, HAGGAI, IL
[72] FIRSTENBERG, MICHAL, IL
[72] NAHUM, TEHILA, IL
[71] SECURITY MATTERS LTD., IL
[85] 2022-01-13
[86] 2020-07-15 (PCT/IL2020/050794)
[87] (WO2021/009758)
[30] US (62/874,141) 2019-07-15

[21] **3,147,407**
[13] A1
[51] **Int.Cl. C07D 215/233 (2006.01) A61K 31/4375 (2006.01) A61K 31/47 (2006.01) A61K 31/4706 (2006.01) A61K 31/4725 (2006.01) A61K 31/5025 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01) A61P 31/12 (2006.01) A61P 33/00 (2006.01) A61P 35/00 (2006.01) C07D 215/38 (2006.01) C07D 215/42 (2006.01) C07D 215/48 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 405/12 (2006.01) C07D 413/04 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF ACETYL COENZYME A SYNTHETASE SHORT CHAIN 2 (ACSS2)**
[54] **INHIBITEURS A PETITES MOLECULES DE L'ACETYL-COENZYME A SYNTHETASE A CHAINE COURTE 2 (ACSS2)**
[72] BASU, SOURAV, IN
[72] YADAV, B. DHARMENDRA, IN
[72] GHOSH, RAJIB, IN
[72] SHRIVASTAVA, RITESH, IN
[72] MIDDYA, SANDIP, IN
[72] PRYDE, DAVID, GB
[72] BANERJEE, MONALI, IN
[72] SURYA, ARJUN, IN
[71] CURADEV PHARMA PVT. LTD., IN
[85] 2022-01-13
[86] 2020-07-24 (PCT/IB2020/057007)
[87] (WO2021/014415)
[30] GB (1910624.4) 2019-07-25
[30] IN (201911030106) 2019-07-25

[21] **3,147,408**
[13] A1
[51] **Int.Cl. D21H 11/00 (2006.01) C08L 1/00 (2006.01) D21H 27/30 (2006.01)**
[25] EN
[54] **TISSUE WITH NANOFIBRILLAR CELLULOSE SURFACE LAYER**
[54] **PAPIER SANITAIRE ET DOMESTIQUE DOTE D'UNE COUCHE DE SURFACE EN CELLULOSE NANOFIBRILLAIRE**
[72] SALAS ARAUJO, CARLOS L., US
[71] GPCP IP HOLDINGS LLC, US
[85] 2022-01-13
[86] 2020-08-18 (PCT/IB2020/057775)
[87] (WO2021/053428)
[30] US (62/900,691) 2019-09-16
[30] US (16/992,257) 2020-08-13

[21] **3,147,410**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**
[25] EN
[54] **PROXIMAL ELEMENT ACTUATOR FIXATION AND RELEASE MECHANISMS**
[54] **MECANISMES DE FIXATION ET DE LIBERATION D'ACTIONNEUR D'ELEMENT PROXIMAL**
[72] CHILDS, RICHARD, US
[72] KIZUKA, KOJI, US
[72] GONZALES, GABRIEL, US
[72] VAN HOVEN, DYLAN, US
[72] MAHMOUD, TAMER, US
[72] ABUNASSAR, CHAD, US
[72] PRABHU, SANTOSH, US
[71] EVALVE, INC., US
[85] 2022-01-13
[86] 2020-07-15 (PCT/US2020/042139)
[87] (WO2021/011655)
[30] US (62/874,280) 2019-07-15

[21] **3,147,411**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER PROTECTIVE COMPOSITE COATING**
[54] **REVETEMENT COMPOSITE DE PROTECTION DE FIBRE OPTIQUE**
[72] RAVANBAKHSH, MEHDI, IR
[71] RAVANBAKHSH, MEHDI, IR
[85] 2022-01-13
[86] 2020-07-23 (PCT/IR2020/050023)
[87] (WO2021/019579)
[30] IR (139850140003003621) 2019-07-27

[21] **3,147,412**
[13] A1
[51] **Int.Cl. B07B 13/18 (2006.01) B01D 21/26 (2006.01) B01D 21/28 (2006.01) B01D 21/30 (2006.01) B04B 5/10 (2006.01) B04B 11/02 (2006.01) B04B 13/00 (2006.01) B07B 15/00 (2006.01) E21B 21/06 (2006.01) B07B 1/42 (2006.01)**
[25] EN
[54] **SMART SOLIDS CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE INTELLIGENT DE SOLIDES**
[72] BIRCHFIELD, ROBERT CHARLES MASON, US
[72] STOCKER, CHARLES, US
[72] DERRICK, MITCHELL J., US
[72] ROONEY, BRIAN J., US
[72] SCHWEC, MICHAEL J., US
[72] NEWMAN, CHRISTIAN, US
[72] KIRSCH, RAYMOND, US
[71] DERRICK CORPORATION, US
[85] 2022-01-13
[86] 2020-07-16 (PCT/US2020/042383)
[87] (WO2021/011805)
[30] US (62/874,853) 2019-07-16

[21] **3,147,413**
[13] A1
[51] **Int.Cl. A61B 17/32 (2006.01) A61B 17/00 (2006.01) A61B 17/04 (2006.01) A61B 17/10 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR TETHER CUTTING**
[54] **DISPOSITIFS ET PROCEDES DESTINES A LA COUPE D'ATTACHE**
[72] SAMPSON, RUSSEL, US
[72] BARON, DAVID SCOTT, US
[72] KOTMEL, ROB, US
[71] ANCORA HEART, INC., US
[85] 2022-01-13
[86] 2020-07-15 (PCT/US2020/042145)
[87] (WO2021/011659)
[30] US (62/874,279) 2019-07-15

[21] **3,147,414**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/09 (2006.01) C12N 15/64 (2006.01) C12N 15/66 (2006.01)**
[25] EN
[54] **SYNTHETIC PRODUCTION OF SINGLE-STRANDED ADENO ASSOCIATED VIRAL DNA VECTORS**
[54] **PRODUCTION SYNTHETIQUE DE VECTEURS DE TYPE ADN VIRAUX ADENO-ASSOCIES SIMPLE BRIN**
[72] ALKAN, OZAN, US
[72] KOTIN, ROBERT MICHAEL, US
[72] KERR, DOUGLAS ANTHONY, US
[72] MONDS, RUSSELL, US
[72] PELLETIER, CAROLYN, US
[72] STANTON, MATTHEW, US
[71] GENERATION BIO CO., US
[85] 2022-01-13
[86] 2020-07-17 (PCT/US2020/042449)
[87] (WO2021/011842)
[30] US (62/875,244) 2019-07-17

[21] **3,147,415**
[13] A1
[51] **Int.Cl. G06F 11/00 (2006.01)**
[25] EN
[54] **SECURE RUNTIME SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'EXECUTION SECURISES**
[72] MICHALEVSKY, YAN, US
[72] MITTLEBERG, BORIS, US
[72] CHEN, JUN, US
[72] CHHABRA, DALJEET SINGH, US
[71] ANJUNA SECURITY, INC., US
[85] 2022-01-13
[86] 2020-07-17 (PCT/US2020/042472)
[87] (WO2021/011851)
[30] US (16/516,079) 2019-07-18

[21] **3,147,416**
[13] A1
[51] **Int.Cl. H04B 7/155 (2006.01) H04W 40/28 (2009.01) H04W 84/18 (2009.01)**
[25] EN
[54] **DISTRIBUTED COLLABORATIVE BEAMFORMING IN WIRELESS NETWORKS**
[54] **FORMATION DE FAISCEAUX COLLABORATIVE DISTRIBUEE DANS DES RESEAUX SANS FIL**
[72] POLYDOROS, ANDREAS, US
[72] KOSE, CENK, US
[71] TRELLISWARE TECHNOLOGIES, INC., US
[85] 2022-01-13
[86] 2020-07-16 (PCT/US2020/042277)
[87] (WO2021/011743)
[30] US (16/513,642) 2019-07-16

[21] **3,147,417**
[13] A1
[51] **Int.Cl. A61G 3/00 (2006.01) H04W 4/02 (2018.01) A61G 1/00 (2006.01) A61G 1/003 (2006.01) A61G 1/04 (2006.01) A61G 1/044 (2006.01) A61G 5/10 (2006.01) A61G 7/10 (2006.01) B63C 9/01 (2006.01) B64B 1/24 (2006.01) B64C 17/00 (2006.01) B64C 19/00 (2006.01) B64C 27/04 (2006.01) B64C 37/02 (2006.01) B64D 1/08 (2006.01) B64D 1/22 (2006.01) B64D 9/00 (2006.01) B66C 13/08 (2006.01) B66C 13/18 (2006.01) B66C 23/18 (2006.01) B66D 1/60 (2006.01) G05D 1/10 (2006.01) G05D 13/02 (2006.01) G05D 13/62 (2006.01)**
[25] EN
[54] **PATIENT LITTER BASKET WITH SPIN CONTROL**
[54] **PANIER DE CIVIERE POUR PATIENT AVEC COMMANDE DE ROTATION**
[72] TYLER, NELSON, US
[71] TYLER, NELSON, US
[85] 2022-01-13
[86] 2020-07-20 (PCT/US2020/042790)
[87] (WO2021/016192)
[30] US (62/876,545) 2019-07-19
[30] US (63/018,657) 2020-05-01

[21] **3,147,418**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G06K 9/62 (2022.01)**
[25] EN
[54] **LIVING BODY DETECTION METHOD AND SYSTEM FOR HUMAN FACE BY USING TWO LONG-BASELINE CAMERAS**
[54] **PROCEDE ET SYSTEME DE DETECTION DE CORPS VIVANT D'UN VISAGE HUMAIN A L'AIDE DE DEUX CAMERAS A LONGUE LIGNE DE BASE**
[72] JI, HUAIYUAN, CN
[72] LIU, SHU, CN
[72] YANG, XIAN, CN
[72] XU, ZHAOKUN, CN
[72] XU, YANRU, CN
[71] 10353744 CANADA LTD., CA
[85] 2021-12-13
[86] 2020-06-11 (PCT/CN2020/095663)
[87] (WO2020/249054)
[30] CN (201910505346.X) 2019-06-12

[21] **3,147,419**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **MODULATORS OF TREX1**
[54] **MODULATEURS DE TREX1**
[72] KHANNA, AVINASH, US
[72] WILSON, JONATHAN E., US
[71] CONSTELLATION PHARMACEUTICALS, INC., US
[85] 2022-01-13
[86] 2020-07-22 (PCT/US2020/043012)
[87] (WO2021/016317)
[30] US (62/877,482) 2019-07-23

[21] **3,147,420**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-EGFR/ANTI-4-1BB BISPECIFIC ANTIBODY AND USE THEREOF**
[54] **ANTICORPS BISPECIFIQUE ANTI-EGFR/ANTI-4-1BB ET SON UTILISATION**
[72] YONG, YERYOUNG, KR
[72] JUNG, UI-JUNG, KR
[72] CHUNG, HYEJIN, KR
[72] PARK, KYEONGSU, KR
[72] SON, WONJUN, KR
[72] LEE, YANGSOON, KR
[72] KIM, YEUNJU, KR
[72] SUNG, EUNSIL, KR
[72] KIM, YOUNGKWANG, KR
[72] PAK, YOUNGDON, KR
[72] PARK, MINJI, KR
[72] EOM, JAEHYUN, KR
[72] CHOI, HYOJU, KR
[72] SONG, MOO YOUNG, KR
[72] LEE, NA RAE, KR
[72] PARK, YOUNG BONG, KR
[72] LEE, EUN-JUNG, KR
[71] ABL BIO INC., KR
[71] YUHAN CORPORATION, KR
[85] 2022-01-13
[86] 2020-07-27 (PCT/KR2020/009870)
[87] (WO2021/020845)
[30] US (62/878,977) 2019-07-26

[21] **3,147,421**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61B 5/053 (2021.01) A61N 1/40 (2006.01) G01N 15/08 (2006.01) G01N 27/22 (2006.01) G01R 27/26 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MEASURING TISSUE PARAMETERS BY USE OF CAPACITIVE TACTILE SENSOR**
[54] **SYSTEME ET PROCEDE DE MESURE DE PARAMETRES DE TISSU AU MOYEN D'UN CAPTEUR TACTILE CAPACITIF**
[72] CAMPISI, MATTHEW S., US
[72] SHAH, MIHIR, US
[72] SANGHVI, BHAUMIK, IN
[71] UE LIFESCIENCES INC., US
[85] 2022-01-13
[86] 2020-07-16 (PCT/US2020/042298)
[87] (WO2021/011757)
[30] US (62/875,485) 2019-07-17

[21] **3,147,422**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 413/04 (2006.01)**
[25] EN
[54] **INHIBITORS OF CYCLIN-DEPENDENT KINASES**
[54] **INHIBITEURS DE KINASES DEPENDANTES DES CYCLINES**
[72] KANOUNI, TOUFIKE, US
[72] ARNOLD, LEE D., US
[72] KALDOR, STEPHEN W., US
[72] MURPHY, ERIC A., US
[72] TYHONAS, JOHN, US
[71] KINNATE BIOPHARMA INC., US
[85] 2022-01-13
[86] 2020-07-16 (PCT/US2020/042371)
[87] (WO2021/011796)
[30] US (62/875,168) 2019-07-17

[21] **3,147,423**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-HER2/ANTI-4-1BB BISPECIFIC ANTIBODY AND USE THEREOF**
[54] **ANTICORPS BISPECIFIQUE ANTI-HER2/ANTI-4-1BB ET SON UTILISATION**
[72] CHUNG, HYEJIN, KR
[72] YONG, YERYOUNG, KR
[72] PARK, KYEONGSU, KR
[72] PARK, EUNYOUNG, KR
[72] JUNG, UI-JUNG, KR
[72] LEE, YANGSOON, KR
[72] KIM, EUNJUNG, KR
[72] SON, YONG-GYU, KR
[72] SON, WONJUN, KR
[72] AHN, SEAWON, KR
[72] YEOM, DONGHOON, KR
[72] LEE, CHANMOO, KR
[72] HONG, JUNGHYEON, KR
[72] SONG, MOO YOUNG, KR
[72] LEE, EUN-JUNG, KR
[72] LEE, NA RAE, KR
[72] PARK, YOUNG BONG, KR
[72] KIM, TAEWANG, KR
[71] ABL BIO INC., KR
[71] YUHAN CORPORATION, KR
[85] 2022-01-13
[86] 2020-07-27 (PCT/KR2020/009871)
[87] (WO2021/020846)
[30] US (62/878,951) 2019-07-26
[30] US (63/024,608) 2020-05-14

[21] **3,147,424**
[13] A1
[51] **Int.Cl. C12N 9/02 (2006.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01) C12P 7/24 (2006.01)**
[25] EN
[54] **MODIFIED HOST CELLS FOR HIGH EFFICIENCY PRODUCTION OF VANILLIN**
[54] **CELLULES HOTES MODIFIEES POUR LA PRODUCTION A HAUT RENDEMENT DE VANILLINE**
[72] RAETZ, LAUREN, US
[72] HANSEN, CHAD, US
[71] AMYRIS, INC., US
[85] 2022-01-13
[86] 2020-07-31 (PCT/US2020/044613)
[87] (WO2021/022216)
[30] US (62/881,874) 2019-08-01

[21] **3,147,426**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **AFFINITY CHROMATOGRAPHY-COUPLED NATIVE MASS SPECTROMETRY FOR ANTIBODY ANALYSIS**
[54] **SPECTROMETRIE DE MASSE NATIVE COUPLEE A UNE CHROMATOGRAPHIE D'AFFINITE POUR ANALYSE D'ANTICORPS**
[72] WANG, SHUNHAI, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-01-13
[86] 2020-07-22 (PCT/US2020/043098)
[87] (WO2021/016366)
[30] US (62/877,037) 2019-07-22
[30] US (62/907,485) 2019-09-27

[21] **3,147,428**
[13] A1
[51] **Int.Cl. C07K 1/18 (2006.01) C07K 1/30 (2006.01) C07K 1/34 (2006.01) C07K 14/33 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING BOTULINUM TOXIN**
[54] **PROCEDE DE PREPARATION DE TOXINE BOTULINIQUE**
[72] KIM, DONG SHOO, KR
[72] SONG, CHI JONG, KR
[72] LEE, EUN YOUNG, KR
[72] AHN, JIN HEE, KR
[71] PROTOX INC., KR
[85] 2022-01-13
[86] 2020-08-14 (PCT/KR2020/010885)
[87] (WO2021/029740)
[30] KR (10-2019-0099531) 2019-08-14

[21] **3,147,429**
[13] A1
[51] **Int.Cl. G10L 21/0208 (2013.01) H04B 3/20 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COVARIANCE SMOOTHING**
[54] **SYSTEMES ET PROCEDES DE LISSAGE DE COVARIANCE**
[72] MCGRATH, DAVID S., US
[72] BROWN, STEFANIE, US
[72] TORRES, JUAN FELIX, US
[71] DOLBY LABORATORIES LICENSING CORPORATION, US
[85] 2022-01-13
[86] 2020-07-31 (PCT/US2020/044670)
[87] (WO2021/022235)
[30] US (62/881,825) 2019-08-01
[30] US (63/057,533) 2020-07-28

[21] **3,147,430**
[13] A1
[51] **Int.Cl. A61K 38/18 (2006.01) A61P 21/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS OF PREVENTING OR TREATING FATTY DEGENERATION OF SKELETAL MUSCLE**
[54] **PROCEDES DE PREVENTION OU DE TRAITEMENT DE LA DEGENERESCENCE GRAISSEUSE DU MUSCLE SQUELETTIQUE**
[72] MARTINEZ-HACKERT, ERIK, US
[72] FLOER, MONIQUE, US
[71] BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, US
[85] 2022-01-13
[86] 2020-07-22 (PCT/US2020/043119)
[87] (WO2021/021528)
[30] US (62/879,009) 2019-07-26

[21] **3,147,431**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/10 (2006.01) A61K 31/4164 (2006.01) A61K 31/429 (2006.01) A61K 31/5415 (2006.01) A61K 31/7048 (2006.01) A61K 31/714 (2006.01) A61K 33/04 (2006.01) A61K 47/06 (2006.01) A61K 47/08 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61K 47/20 (2006.01) A61K 47/26 (2006.01) A61K 47/44 (2017.01) A61P 33/00 (2006.01)**
[25] EN
[54] **TRANSDERMAL SOLVENT SYSTEM AND METHODS OF USE**
[54] **SYSTEME DE SOLVANT TRANSDERMIQUE ET PROCEDES D'UTILISATION**
[72] YERITSYAN, KAREN, NZ
[71] DONAGHYS LIMITED, NZ
[85] 2022-01-13
[86] 2020-07-15 (PCT/NZ2020/050068)
[87] (WO2021/010843)
[30] NZ (755474) 2019-07-16

[21] **3,147,432**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) G16B 40/00 (2019.01) G01N 21/27 (2006.01) G01N 21/49 (2006.01) G06F 17/18 (2006.01)**
[25] EN
[54] **METHOD, APPARATUS, AND COMPUTER-READABLE MEDIUM FOR ADAPTIVE NORMALIZATION OF ANALYTE LEVELS**
[54] **PROCEDE, APPAREIL ET SUPPORT LISIBLE PAR ORDINATEUR POUR LA NORMALISATION ADAPTATIVE DE NIVEAUX D'ANALYTE**
[72] TABACMAN, EDUARDO DANIEL, US
[72] ZICHI, DOMINIC ANTHONY, US
[72] WESTACOTT, MATTHEW JOEL, US
[72] PERRY, DARRYL JOHN, US
[71] SOMALOGIC, INC., US
[85] 2022-01-13
[86] 2020-07-24 (PCT/US2020/043614)
[87] (WO2021/021678)
[30] US (62/880,791) 2019-07-31

[21] **3,147,433**
[13] A1
[51] **Int.Cl. G06F 9/44 (2018.01) G06F 8/41 (2018.01) G06F 15/78 (2006.01)**
[25] EN
[54] **HARDWARE ACCELERATION FOR FUNCTION PROCESSING**
[54] **ACCELERATION DU MATERIEL POUR TRAITEMENT DE FONCTION**
[72] TANDON, PRATEEK, US
[72] CORELL, BRIAN JACOB, US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2022-01-13
[86] 2020-06-11 (PCT/US2020/037117)
[87] (WO2021/040836)
[30] US (16/555,927) 2019-08-29

[21] **3,147,434**
[13] A1
[51] **Int.Cl. A61K 31/55 (2006.01) A61K 31/352 (2006.01) A61K 31/404 (2006.01) A61P 25/30 (2006.01)**
[25] EN
[54] **METHODS FOR THE NON-TOXIC TREATMENT FOR OPIOID DRUG WITHDRAWAL COMBINING NORIBOGAINE AND CANNABINOIDS**
[54] **METHODES POUR LE TRAITEMENT NON TOXIQUE DE SEVRAGE DE MEDICAMENT OPIOIDE COMBINANT LA NORIBOGAINE ET LES CANNABINOIDES**
[72] SIGEL, PHILIP, US
[72] MASH, DEBORAH, US
[72] GOLDSCHMIDT, PASCAL, US
[71] DEMERX, INC., US
[85] 2022-01-13
[86] 2020-07-13 (PCT/US2020/041789)
[87] (WO2021/011462)
[30] US (62/874,092) 2019-07-15

[21] **3,147,435**
[13] A1
[51] **Int.Cl. B01J 29/064 (2006.01) C10G 47/16 (2006.01) C10G 47/18 (2006.01)**
[25] EN
[54] **LARGE PORE ZEOLITIC CATALYSTS AND USE THEREOF IN CATALYTIC CRACKING**
[54] **CATALYSEURS ZEOLITIQUES A GRANDS PORES ET LEUR UTILISATION DANS LE CRAQUAGE CATALYTIQUE**
[72] O'NEILL, BRANDON J., US
[72] FALKOWSKI, JOSEPH M., US
[72] BURTON, ALLEN W., US
[72] WEIGEL, SCOTT J., US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2022-01-13
[86] 2020-07-14 (PCT/US2020/041867)
[87] (WO2021/034425)
[30] US (62/889,126) 2019-08-20

[21] **3,147,436**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 11/06 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING OR PREVENTING ASTHMA BY ADMINISTERING AN IL-4R ANTAGONIST**
[54] **METHODES DE TRAITEMENT OU DE PREVENTION DE L'ASTHME PAR ADMINISTRATION D'UN ANTAGONISTE D'IL-4R**
[72] STAUDINGER, HERIBERT, US
[72] TEPER, ARIEL, US
[72] AMIN, NIKHIL, US
[72] HAREL, SIVAN, US
[72] GRAHAM, NEIL, US
[71] SANOFI BIOTECHNOLOGY, FR
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-01-13
[86] 2020-07-15 (PCT/US2020/042075)
[87] (WO2021/011614)
[30] US (62/874,747) 2019-07-16
[30] US (62/877,031) 2019-07-22
[30] US (63/004,084) 2020-04-02
[30] EP (20315237.6) 2020-05-07

[21] **3,147,437**
[13] A1
[51] **Int.Cl. F24H 9/1832 (2022.01) F23M 9/10 (2006.01) F24H 1/28 (2006.01) F28F 1/40 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER BAFFLES AND METHODS FOR MANUFACTURING THE SAME**
[54] **DEFLECTEURS D'ECHANGEUR DE CHALEUR ET LEURS PROCEDES DE FABRICATION**
[72] SEYED AHMADI, MEHRAN, US
[72] HILL, BRUCE, US
[71] BRADFORD WHITE CORPORATION, US
[85] 2022-01-13
[86] 2020-07-15 (PCT/US2020/042096)
[87] (WO2021/011627)
[30] US (62/874,574) 2019-07-16

[21] **3,147,443**
[13] A1
[51] **Int.Cl. A61K 31/4402 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61P 29/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHOD FOR TREATING CYTOKINE RELEASE SYNDROME**
[54] **COMPOSES ET METHODE DE TRAITEMENT DU SYNDROME DE LIBERATION DE CYTOKINE**
[72] TAYLOR, VANESSA, US
[72] ISSAKANI, SARKIZ, US
[72] YOUNG, CHI, US
[71] RIGEL PHARMACEUTICALS, INC., US
[85] 2022-01-13
[86] 2020-08-07 (PCT/US2020/045402)
[87] (WO2021/026451)
[30] US (62/884,457) 2019-08-08

[21] **3,147,444**
[13] A1
[51] **Int.Cl. A61K 31/5383 (2006.01) A61K 31/7064 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **METHOD OF BLOCKING OR AMELIORATING CYTOKINE RELEASE SYNDROME**
[54] **PROCEDE DE BLOCAGE OU D'AMELIORATION DU SYNDROME DE LIBERATION DES CYTOKINES**
[72] TAYLOR, VANESSA, US
[72] ISSAKANI, SARKIZ, US
[72] YOUNG, CHI, US
[71] RIGEL PHARMACEUTICALS, INC., US
[85] 2022-01-13
[86] 2020-08-13 (PCT/US2020/046060)
[87] (WO2021/030526)
[30] US (62/886,806) 2019-08-14

[21] **3,147,445**
[13] A1
[51] **Int.Cl. A01K 1/015 (2006.01) A01K 1/01 (2006.01)**
[25] EN
[54] **ANIMAL LITTER AND LITTER BOX SYSTEM**
[54] **LITIERE POUR ANIMAUX ET SYSTEME DE BAC A LITIERE**
[72] WEBER, PATRICIA LYNNE, US
[72] WEBER, KEVIN JON, US
[71] SIMPLY PAWS DESIGN, LLC, US
[85] 2022-01-13
[86] 2020-08-18 (PCT/US2020/046806)
[87] (WO2021/041088)
[30] US (62/890,951) 2019-08-23

[21] **3,147,446**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01)**
[25] EN
[54] **CONDUCTIVITY CONTROL SYSTEMS**
[54] **SYSTEMES DE CONTROLE DE CONDUCTIVITE**
[72] REBACZ, NATALIE, US
[72] ADAMS, KERISSA, US
[72] MERCHANT, STEPHEN, US
[72] HOOVER, MARY, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2022-01-13
[86] 2020-08-03 (PCT/US2020/044751)
[87] (WO2021/026073)
[30] US (62/882,733) 2019-08-05

[21] **3,147,447**
[13] A1
[51] **Int.Cl. G06T 3/00 (2006.01) G06T 5/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ENDOSCOPIC VIDEO ENHANCEMENT, QUANTITATION AND SURGICAL GUIDANCE**
[54] **SYSTEME ET PROCEDE D'AMELIORATION, DE QUANTIFICATION ET DE GUIDAGE CHIRURGICAL DE VIDEO ENDOSCOPIQUE**
[72] RAUNIYAR, NIRAJ PRASAD, US
[72] RIKER, ROBERT J., US
[72] HARRAH, TIMOTHY PAUL, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-01-13
[86] 2020-08-27 (PCT/US2020/048202)
[87] (WO2021/061335)
[30] US (62/904,408) 2019-09-23

[21] **3,147,450**
[13] A1
[51] **Int.Cl. H04W 52/02 (2009.01)**
[25] EN
[54] **POWER-EFFICIENT PASSIVE DISCOVERY BY NETWORK DEVICES**
[54] **DECOUVERTE PASSIVE DE PUISSANCE EFFICACE PAR DES DISPOSITIFS DE RESEAU**
[72] MONIER, FABRICE, US
[72] UHLING, THOMAS, US
[72] JAMIL, IMAD, US
[72] BARNES, KEITH, US
[71] ITRON, INC., US
[85] 2022-01-13
[86] 2020-08-28 (PCT/US2020/048546)
[87] (WO2021/041911)
[30] US (16/555,642) 2019-08-29
[30] US (16/555,787) 2019-08-29
[30] US (16/555,747) 2019-08-29
[30] US (16/555,821) 2019-08-29

[21] **3,147,451**
[13] A1
[51] **Int.Cl. A61K 31/498 (2006.01) A61P 35/00 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **KIF18A INHIBITORS**
[54] **INHIBITEURS DE KIF18A**
[72] TAMAYO, NURIA A., US
[72] BANERJEE, ABHISEK, US
[72] BOURBEAU, MATTHEW PAUL, US
[71] AMGEN INC., US
[85] 2022-01-13
[86] 2020-08-03 (PCT/US2020/044800)
[87] (WO2021/026101)
[30] US (62/882,271) 2019-08-02

[21] **3,147,452**
[13] A1
[51] **Int.Cl. A61B 10/04 (2006.01)**
[25] EN
[54] **NEEDLE BIOPSY DEVICE**
[54] **DISPOSITIF DE BIOPSIE A AIGUILLE**
[72] ROHL, JAMES P., US
[72] HAVERKOST, PATRICK A., US
[72] MAYO, JOSEPH, US
[72] GIESE, TROY ANTHONY, US
[72] GROFF, JOEL N., US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-01-13
[86] 2020-10-28 (PCT/US2020/057748)
[87] (WO2021/101686)
[30] US (62/937,949) 2019-11-20

[21] **3,147,456**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 30/02 (2012.01) G06Q 10/00 (2012.01) H04M 3/51 (2006.01) H04M 3/523 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR PAIRING CONTACTS AND AGENTS IN A CONTACT CENTER SYSTEM**
[54] **TECHNIQUES D'APPARIEMENT DE CONTACTS ET D'AGENTS DANS UN SYSTEME DE CENTRE DE CONTACT**
[72] KHATRI, VIKASH, US
[71] AFINITI, LTD., BM
[85] 2022-01-13
[86] 2020-08-06 (PCT/US2020/045107)
[87] (WO2021/030128)
[30] US (16/538,288) 2019-08-12

[21] **3,147,457**
[13] A1
[51] **Int.Cl. H01G 11/02 (2013.01) H01M 12/02 (2006.01)**
[25] EN
[54] **HYBRID ENERGY STORAGE DEVICE**
[54] **DISPOSITIF DE STOCKAGE D'ENERGIE HYBRIDE**
[72] KHAZAELI, ALI, CA
[72] BARZ, DOMINIK, CA
[71] QUEEN'S UNIVERSITY AT KINGSTON, CA
[85] 2022-01-14
[86] 2020-07-15 (PCT/CA2020/050984)
[87] (WO2021/007670)
[30] US (62/874,723) 2019-07-16

[21] **3,147,459**
[13] A1
[51] **Int.Cl. B65B 13/04 (2006.01) B65B 27/00 (2006.01) B65B 27/08 (2006.01) B65G 19/02 (2006.01) B65G 47/00 (2006.01)**
[25] EN
[54] **GOODS BUNDLING DEVICE, STORAGE AND ORDER-PICKING SYSTEM, AND METHOD FOR STACKING GOODS AND SECURING THE STACK OF GOODS WITH A BELT**
[54] **DISPOSITIF DE GROUPAGE DE MARCHANDISES, SYSTEME DE STOCKAGE ET DE PREPARATION DES COMMANDES ET PROCEDE D'EMPILEMENT DE MARCHANDISES ET DE FIXATION DE L'EMPILEMENT DE MARCHANDISES A L'AIDE D'UNE BANDE**
[72] DESTRO, RAFFAELE, IT
[71] TGW LOGISTICS GROUP GMBH, AT
[85] 2022-01-14
[86] 2020-07-22 (PCT/AT2020/060273)
[87] (WO2021/011978)
[30] AT (A50660/2019) 2019-07-22

[21] **3,147,462**
[13] A1
[51] **Int.Cl. A01K 15/04 (2006.01) A01K 1/06 (2006.01) A61D 3/00 (2006.01)**
[25] EN
[54] **SIDE-GATE ASSEMBLY FOR NEEDLING ACCESS IN A LIVESTOCK SQUEEZE CHUTE**
[54] **ENSEMBLE PORTE LATERALE POUR UN ACCES POUR TRAITEMENT PAR SERINGUE DANS UNE STRUCTURE DE CONTENTION POUR BETAIL**
[72] FIRTH, PHILIP MALCOLM, CA
[72] LANGRELL, STEPHEN ARTHUR, CA
[71] NORTHQUIP INC., CA
[85] 2022-01-14
[86] 2019-11-29 (PCT/CA2019/051708)
[87] (WO2021/081618)
[30] US (62/929,188) 2019-11-01

[21] **3,147,463**
[13] A1
[51] **Int.Cl. B29C 45/14 (2006.01) B29C 45/04 (2006.01) B29C 45/17 (2006.01)**
[25] EN
[54] **MOLDING PROCESS FOR FORMING THERMOPLASTIC ARTICLES**
[54] **PROCEDE DE MOULAGE POUR FORMER DES ARTICLES THERMOPLASTIQUES**
[72] SANJABI, SEAN, CA
[72] MOTWANI, SUNNY, CA
[71] ABC TECHNOLOGIES INC., CA
[85] 2022-01-14
[86] 2020-07-16 (PCT/CA2020/050991)
[87] (WO2021/007677)
[30] US (62/875,436) 2019-07-17

[21] **3,147,466**
[13] A1
[51] **Int.Cl. B01D 37/03 (2006.01) B01D 21/01 (2006.01)**
[25] EN
[54] **TREATED FLOC CURTAINS**
[54] **RIDEAUX FLOCONS TRAITES**
[72] HANNA, GERALD, CA
[71] CLEARFLOW GROUP INC., CA
[85] 2022-01-14
[86] 2020-07-17 (PCT/CA2020/050998)
[87] (WO2021/007681)
[30] US (62/875,935) 2019-07-18

[21] **3,147,469**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **RESOURCE MANAGEMENT FOR REPORTING SIGNAL-TO-INTERFERENCE-PLUS-NOISE RATIO**
[54] **GESTION DE RESSOURCES PERMETTANT DE RAPPORTER UN RAPPORT SIGNAL SUR BROUILLAGE PLUS BRUIT**
[72] GAO, BO, CN
[72] LU, ZHAOHUA, CN
[72] LI, YU NGOK, CN
[72] WU, HAO, CN
[72] JIANG, CHUANGXIN, CN
[71] ZTE CORPORATION, CN
[85] 2022-01-14
[86] 2019-07-16 (PCT/CN2019/096130)
[87] (WO2021/007768)

[21] **3,147,473**
[13] A1
[51] **Int.Cl. A01N 43/40 (2006.01) A01N 43/54 (2006.01) A01N 43/56 (2006.01) A01N 43/78 (2006.01) A01N 47/12 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITION COMPRISING R-PYRIDYLOXYCARBOXYLIC ACID AND DERIVATIVE AND AN APPLICATION THEREOF**
[54] **COMPOSITION HERBICIDE CONTENANT UN DERIVE D'ACIDE PYRIDYLOXYCARBOXYLIQUE DE TYPE R ET SON UTILISATION**
[72] PENG, XUEGANG, CN
[72] ZHAO, DE, CN
[72] CUI, QI, CN
[72] JIN, TAO, CN
[72] ZHANG, JINGYUAN, CN
[72] LIU, NA, CN
[71] QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD., CN
[85] 2022-01-14
[86] 2020-07-14 (PCT/CN2020/101901)
[87] (WO2021/017817)
[30] CN (201910685431.9) 2019-07-27
[30] CN (201910796285.7) 2019-08-27
[30] CN (202010228317.6) 2020-03-27
[30] CN (202010228765.6) 2020-03-27
[30] CN (202010406451.0) 2020-05-14

[21] **3,147,474**
[13] A1
[51] **Int.Cl. A47J 31/06 (2006.01) A47J 31/44 (2006.01) B65D 79/00 (2006.01)**
[25] EN
[54] **CARTRIDGE RECEPTACLE, CARTRIDGE SYSTEM, BEVERAGE PREPARATION MACHINE, AND METHOD FOR PRODUCING A BEVERAGE**
[54] **LOGEMENT DE CARTOUCHE, SYSTEME DE CARTOUCHE, MACHINE DE PREPARATION DE BOISSONS ET PROCEDE DE PRODUCTION D'UNE BOISSON**
[72] KRUEGER, MARC, DE
[72] EMPL, GUENTER, DE
[71] FREEZIO AG, CH
[85] 2022-01-14
[86] 2020-07-15 (PCT/EP2020/069981)
[87] (WO2021/009214)
[30] DE (10 2019 119 144.0) 2019-07-15

[21] **3,147,476**
[13] A1
[51] **Int.Cl. A61B 18/12 (2006.01) A61B 18/18 (2006.01) G01R 31/00 (2006.01)**
[25] EN
[54] **PORTABLE TEST APPARATUS AND METHOD OF TESTING RF/MICROWAVE TREATMENT SYSTEM**
[54] **APPAREIL D'ESSAI PORTABLE ET PROCEDE D'ESSAI DE SYSTEME DE TRAITEMENT PAR RF/MICRO-ONDES**
[72] MCERLEAN, EAMON, GB
[72] BEALE, GARY, GB
[71] EMBLATION LIMITED, GB
[85] 2022-01-14
[86] 2020-07-15 (PCT/EP2020/070038)
[87] (WO2021/009253)
[30] GB (1910097.3) 2019-07-15
[30] GB (2001377.7) 2020-01-31

[21] **3,147,478**
[13] A1
[51] **Int.Cl. G07F 17/34 (2006.01)**
[25] EN
[54] **REGULATED MULTI-LEVEL CASINO GAMES AND GAMING MACHINES CONFIGURED TO ENCOURAGE EXPLORATION OF GAME LEVELS, STAGES, AREAS**
[54] **JEUX DE CASINO MULTI-NIVEAUX REGLEMENTES ET MACHINES DE JEU CONCUS POUR ENCOURAGER L'EXPLORATION DE NIVEAUX, DE PHASES ET DE ZONES DE JEUX**
[72] OBERBERGER, MICHAEL M., US
[72] LOW, MICHAEL, US
[71] SYNERGY BLUE, LLC, US
[85] 2022-01-10
[86] 2020-06-10 (PCT/US2020/036964)
[87] (WO2021/006985)
[30] US (16/506,744) 2019-07-09

[21] **3,147,479**
[13] A1
[51] **Int.Cl. B66F 9/12 (2006.01) E02F 3/96 (2006.01)**
[25] EN
[54] **AN EXCAVATOR HAVING A LIFTING DEVICE FOR LIFTING A PALLET**
[54] **EXCAVATEUR DOTE D'UN DISPOSITIF DE LEVAGE DESTINE A LEVER UNE PALETTE**
[72] RUSSELL, JAMES, GB
[71] RUSSELL, JAMES, GB
[85] 2022-01-14
[86] 2020-07-16 (PCT/EP2020/070139)
[87] (WO2021/009284)
[30] GB (1910310.0) 2019-07-18

[21] **3,147,482**
[13] A1
[51] **Int.Cl. H04W 24/08 (2009.01)**
[25] EN
[54] **MEASUREMENT METHOD, RESOURCE CONFIGURATION METHOD, TERMINAL, AND NETWORK-SIDE DEVICE**
[54] **PROCEDE DE MESURE, PROCEDE DE CONFIGURATION DE RESSOURCE, TERMINAL ET DISPOSITIF COTE RESEAU**
[72] YANG, YU, CN
[72] SUN, PENG, CN
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2022-01-14
[86] 2020-07-15 (PCT/CN2020/102089)
[87] (WO2021/013007)
[30] CN (201910663402.2) 2019-07-22

[21] **3,147,484**
[13] A1
[51] **Int.Cl. A61N 1/375 (2006.01) A61N 1/372 (2006.01) A61N 1/378 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **ACTIVE IMPLANTABLE MEDICAL DEVICE (AIMD) COMPRISING A TRANSPARENT ENCAPSULATION**
[54] **DISPOSITIF MEDICAL IMPLANTABLE ACTIF (AIMD) COMPRENANT UNE ENCAPSULATION TRANSPARENTE**
[72] GODFRAIND, CARMEN, BE
[72] DOGUET, PASCAL, BE
[72] DE COCK DE RAMEYEN, AURELIE, BE
[72] NIEUWENHUYS, AURORE, BE
[71] SYNERGIA MEDICAL, BE
[85] 2022-01-14
[86] 2019-07-16 (PCT/EP2019/069087)
[87] (WO2021/008688)

[21] **3,147,485**
[13] A1
[51] **Int.Cl. G01J 3/433 (2006.01) G01N 21/39 (2006.01)**
[25] EN
[54] **CHIRPED LASER DISPERSION SPECTROMETER AND METHOD**
[54] **SPECTROMETRE A DISPERSION A LASER A COMPRESSION D'IMPULSIONS ET PROCEDE**
[72] HOBBY, JAMES, GB
[72] WEIDMANN, DAMIEN, GB
[72] KOVACICH, RICHARD, GB
[71] MIRICO LIMITED, GB
[85] 2022-01-14
[86] 2020-07-16 (PCT/EP2020/070155)
[87] (WO2021/009289)
[30] GB (1910200.3) 2019-07-16

[21] **3,147,487**
[13] A1
[51] **Int.Cl. H02J 3/18 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING AN INDUCTIVE REACTIVE POWER BY MEANS OF AN ELECTRICAL LOAD APPARATUS, ELECTRICAL LOAD APPARATUS, AND ELECTROLYSIS APPARATUS**
[54] **PROCEDE DE GENERATION D'UNE ENERGIE REACTIVE INDUCTIVE AU MOYEN D'UN DISPOSITIF DE CONSOMMATEUR ELECTRIQUE, DISPOSITIF DE CONSOMMATEUR ELECTRIQUE ET DISPOSITIF D'ELECTROLYSE**
[72] UTZ, PETER, DE
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-01-14
[86] 2020-05-26 (PCT/EP2020/064509)
[87] (WO2021/008762)
[30] EP (19186743.1) 2019-07-17

[21] **3,147,488**
[13] A1
[51] **Int.Cl. H01L 21/20 (2006.01) H01L 33/00 (2010.01)**
[25] EN
[54] **NANOWIRE DEVICE**
[54] **DISPOSITIF A NANOFILS**
[72] MUNSHI, MAZID, NO
[72] WEMAN, HELGE, CH
[72] DHEERAJ, DASA L, SG
[72] FIMLAND, BJORN-OVE M, NO
[72] VIGEN, LEIDULV, NO
[72] BARRIET, DAVID, NO
[71] CRAYONANO AS, NO
[71] NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU), NO
[85] 2022-01-14
[86] 2020-07-16 (PCT/EP2020/070228)
[87] (WO2021/009325)
[30] GB (1910170.8) 2019-07-16

[21] **3,147,489**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01)**
[25] EN
[54] **CATION EXCHANGE MATERIALS FOR DIALYSIS SYSTEMS**
[54] **MATERIAUX D'ECHANGE DE CATIONS POUR SYSTEMES DE DIALYSE**
[72] BARRETT, SPENCER, US
[72] KAUFMAN, COLIN, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2022-01-13
[86] 2020-07-31 (PCT/US2020/044441)
[87] (WO2021/025983)
[30] US (16/532,161) 2019-08-05

[21] **3,147,491**
[13] A1
[51] **Int.Cl. A23J 3/14 (2006.01) A23J 3/16 (2006.01) A23J 3/18 (2006.01) A23J 3/22 (2006.01) A23J 3/26 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING A FORMED MEAT ANALOGUE PRODUCT**
[54] **PROCEDE DE FABRICATION D'UN PRODUIT ANALOGUE DE VIANDE FORME**
[72] SHAMAILA, MAWELE, DE
[72] GADDIPATI, SANYASI, US
[72] SOMERVILLE, JEREMY, US
[72] ERLE, ULRICH JOHANNES, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-01-14
[86] 2020-07-17 (PCT/EP2020/070287)
[87] (WO2021/018633)
[30] US (62/880,981) 2019-07-31

[21] **3,147,511**
[13] A1
[51] **Int.Cl. B65G 23/22 (2006.01) B65G 23/23 (2006.01)**
[25] EN
[54] **CONVEYOR HAVING AN ELECTRIC MOTOR**
[54] **DISPOSITIF DE TRANSPORT POURVU D'UN MOTEUR ELECTRIQUE**
[72] BLICKE, RAINER, US
[71] SEW-EURODRIVE GMBH & CO. KG, DE
[85] 2022-01-10
[86] 2020-06-29 (PCT/EP2020/025305)
[87] (WO2021/004656)
[30] US (62/872,931) 2019-07-11
[30] DE (10 2019 005 068.1) 2019-07-22

[21] **3,147,514**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/103 (2006.01)**
[25] FR
[54] **SYSTEM FOR ASSISTING IN THE SIMULATION OF THE SWALLOWING OF A PATIENT AND ASSOCIATED METHOD**
[54] **SYSTEME D'AIDE A LA SIMULATION DE LA DEGLUTITION D'UN PATIENT ET PROCEDE ASSOCIE**
[72] NICOLINI, LINDA, FR
[71] SWALLIS MEDICAL, FR
[85] 2022-01-13
[86] 2020-07-07 (PCT/EP2020/069076)
[87] (WO2021/013531)
[30] FR (FR1908396) 2019-07-24

[21] **3,147,515**
[13] A1
[51] **Int.Cl. B65D 83/48 (2006.01) B65D 83/38 (2006.01)**
[25] FR
[54] **VALVE CUP FOR PRESSURISED CONTAINER**
[54] **COUPELLE DE VALVE POUR RECIPIENT SOUS PRESSION**
[72] BODET, HERVE, FR
[72] GAILLARD, ERIC, FR
[71] LINDAL FRANCE SAS, FR
[85] 2022-01-14
[86] 2020-07-13 (PCT/EP2020/069732)
[87] (WO2021/013605)
[30] FR (FR1908421) 2019-07-24
[30] BE (BE2019/5836) 2019-11-25

[21] **3,147,516**
[13] A1
[51] **Int.Cl. G01Q 60/24 (2010.01) G01Q 10/04 (2010.01)**
[25] FR
[54] **ATOMIC FORCE MICROSCOPE**
[54] **MICROSCOPE A FORCE ATOMIQUE**
[72] NIGUES, ANTOINE, FR
[72] SIRIA, ALESSANDRO, FR
[71] PARIS SCIENCES ET LETTRES, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[71] SORBONNE UNIVERSITE, FR
[71] UNIVERSITE DE PARIS, FR
[85] 2022-01-14
[86] 2020-07-16 (PCT/EP2020/070156)
[87] (WO2021/009290)
[30] FR (1908027) 2019-07-16

[21] **3,147,523**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01) C07C 15/00 (2006.01)**
[25] EN
[54] **SOLID FORMULATION OF A 1,2,4-OXADIAZOLE DERIVATIVE**
[54] **FORMULATION SOLIDE D'UN DERIVE DE 1,2,4-OXADIAZOLE**
[72] WOUTERS, JOHAN, BE
[72] MAMBOURG, KALINA, BE
[72] GARCIA-LADONA, FRANCISCO JAVIER, BE
[71] ABAXYS THERAPEUTICS, BE
[85] 2022-01-14
[86] 2020-07-17 (PCT/EP2020/070307)
[87] (WO2021/009355)
[30] EP (19187053.4) 2019-07-18

[21] **3,147,540**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/28 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISINFECTING A FACILITY**
[54] **SYSTEMES ET PROCEDES POUR DESINFECTER UNE INSTALLATION**
[72] HUNT, BARRY, CA
[71] HUNT, BARRY, CA
[85] 2021-11-08
[86] 2020-05-07 (PCT/CA2020/050626)
[87] (WO2020/223820)
[30] US (62/844,475) 2019-05-07

[21] **3,147,541**
[13] A1
[51] **Int.Cl. A61K 31/4172 (2006.01) A61P 13/12 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **ERGOTHIONEINE, S-METHYL-ERGOTHIONEINE, AND USES THEREOF**
[54] **ERGOTHIONEINE, S-METHYL-ERGOTHIONEINE ET LEURS UTILISATIONS**
[72] NUNES MARTINEZ, VIRGINIA, ES
[72] LOPEZ DE HEREDIA ALONSO, MIGUEL, ES
[71] FUNDACIO INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL), ES
[71] UNIVERSITAT DE BARCELONA, ES
[71] CONSORCIO CENTRO DE INVESTIGACION BIOMEDICA EN RED, M.P., ES
[85] 2022-01-14
[86] 2020-07-24 (PCT/EP2020/070964)
[87] (WO2021/018774)
[30] EP (19382644.3) 2019-07-26

[21] **3,147,542**
[13] A1
[51] **Int.Cl. A61K 31/472 (2006.01) A61P 33/10 (2006.01) C07D 401/12 (2006.01) C07D 405/12 (2006.01) C07D 409/12 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **ISOQUINOLINE DERIVATIVES AND THEIR USE FOR THE TREATMENT OF PARASITIC INFECTIONS**
[54] **DERIVES D'ISOQUINOLEINE ET LEUR UTILISATION DANS LE TRAITEMENT D'INFECTIONS PARASITAIRES**
[72] ALIG, BERND, DE
[72] HUBSCH, WALTER, DE
[72] GRIEBENOW, NILS, DE
[72] SCHWARZ, HANS-GEORG, DE
[72] ZHUANG, WEI, DE
[72] KULKE, DANIEL, DE
[72] BOHM, CLAUDIA, DE
[72] HEISLER, IRING, DE
[72] JANSSEN, ISA JANA IRINA, DE
[72] BORNGEN, KIRSTEN, DE
[71] BAYER ANIMAL HEALTH GMBH, DE
[85] 2022-01-14
[86] 2020-07-27 (PCT/EP2020/071139)
[87] (WO2021/018839)
[30] EP (19189099.5) 2019-07-30

[21] **3,147,544**
[13] A1
[51] **Int.Cl. A61M 15/00 (2006.01)**
[25] EN
[54] **DISPENSER**
[54] **DISTRIBUTEUR**
[72] THAU, MARKUS, DE
[72] KRIEGER, JOHANNES, DE
[71] RPC FORMATEC GMBH, DE
[85] 2022-01-14
[86] 2020-08-04 (PCT/EP2020/071908)
[87] (WO2021/032469)
[30] DE (20 2019 104 547.7) 2019-08-19

[21] **3,147,545**
[13] A1
[51] **Int.Cl. B42D 25/373 (2014.01) B42D 25/328 (2014.01) B42D 25/405 (2014.01)**
[25] EN
[54] **SECURITY ELEMENT**
[54] **ELEMENT DE SECURITE**
[72] TRASSL, STEPHAN, AT
[71] HUECK FOLIEN GESELLSCHAFT M.B.H., AT
[85] 2022-01-14
[86] 2020-08-12 (PCT/EP2020/072573)
[87] (WO2021/028458)
[30] EP (19191227.8) 2019-08-12

[21] **3,147,563**
[13] A1
[51] **Int.Cl. H01L 33/50 (2010.01) C09K 11/02 (2006.01) C09K 11/70 (2006.01) C09K 11/88 (2006.01)**
[25] EN
[54] **A METHOD TO PREPARE SURFACE STABILIZED QUANTUM DOTS AND SURFACE STABILIZED QUANTUM DOTS RESULTING FROM SUCH METHOD**
[54] **PROCEDE DE PREPARATION DE POINTS QUANTIQUES STABILISES EN SURFACE, ET POINTS QUANTIQUES STABILISES EN SURFACE RESULTANT DE CE PROCEDE**
[72] DUPONT, DORIAN, BE
[72] HENS, ZEGER, BE
[72] TESSIER, MICKAEL, BE
[71] QUSTOMDOT B.V., BE
[85] 2022-01-14
[86] 2020-08-31 (PCT/EP2020/074213)
[87] (WO2021/038100)
[30] EP (19194675.5) 2019-08-30

[21] **3,147,564**
[13] A1
[51] **Int.Cl. A61P 7/02 (2006.01) A61P 9/10 (2006.01) A61P 25/06 (2006.01) A61P 25/08 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) C07D 213/81 (2006.01) C07D 217/22 (2006.01) C07D 333/38 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01)**
[25] EN
[54] **ENZYME INHIBITORS**
[54] **INHIBITEURS D'ENZYMES**
[72] DAVIE, REBECCA LOUISE, GB
[72] EDWARDS, HANNAH JOY, GB
[72] EVANS, DAVID MICHAEL, GB
[72] HODGSON, SIMON TEANBY, GB
[72] MARSH, SALLY LOUISE, GB
[72] MAZZACANI, ALESSANDRO, GB
[72] ROOKER, DAVID PHILIP, GB
[72] STOCKS, MICHAEL JOHN, GB
[72] CRIDLAND, ANDREW PETER, GB
[72] GANCIA, EMANUELA, GB
[72] HAMBLIN, JULIE NICOLE, GB
[72] HINCHLIFFE, PAUL STUART, GB
[72] LEVANTO, STEFANO, GB
[72] PANCHAL, TERENCE AARON, GB
[72] MILLER, IAIN ROBERT, GB
[71] KALVISTA PHARMACEUTICALS LIMITED, GB
[85] 2022-01-14
[86] 2019-08-21 (PCT/GB2019/052356)
[87] (WO2021/032933)

[21] **3,147,566**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/5377 (2006.01) A61K 31/541 (2006.01) A61K 31/551 (2006.01) A61P 7/02 (2006.01) A61P 9/10 (2006.01) A61P 25/06 (2006.01) A61P 25/08 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 453/02 (2006.01) C07D 471/04 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **ENZYME INHIBITORS**
[54] **INHIBITEURS D'ENZYME**
[72] DAVIE, REBECCA LOUISE, GB
[72] EDWARDS, HANNAH JOY, GB
[72] EVANS, DAVID MICHAEL, GB
[72] HODGSON, SIMON TEANBY, GB
[72] CRIDLAND, ANDREW PETER, GB
[72] GANCIA, EMANUELA, GB
[72] GOLDSMITH, ERICA LEE, GB
[72] HINCHLIFFE, PAUL STUART, GB
[72] JANDU, KARAMJIT SINGH, GB
[72] SMITH, ALUN JOHN, GB
[71] KALVISTA PHARMACEUTICALS LIMITED, GB
[85] 2022-01-14
[86] 2019-08-21 (PCT/GB2019/052357)
[87] (WO2021/032934)

[21] **3,147,567**
[13] A1
[51] **Int.Cl. B01J 47/00 (2017.01) C01D 3/14 (2006.01) C22B 3/42 (2006.01)**
[25] EN
[54] **PROCESS FOR PURIFYING POTASSIUM CHLORIDE**
[54] **PROCEDE DE PURIFICATION DE CHLORURE DE POTASSIUM**
[72] LOCKIE, STEVE, GB
[72] BROWN, DOUGLAS HUGH, GB
[71] KLINGE CHEMICALS LIMITED, GB
[85] 2022-01-14
[86] 2020-07-14 (PCT/GB2020/051691)
[87] (WO2021/009503)
[30] GB (1910137.7) 2019-07-15

[21] **3,147,570**
[13] A1
[51] **Int.Cl. A61K 47/50 (2017.01) A61K 38/12 (2006.01) A61P 35/00 (2006.01) C07K 7/54 (2006.01)**
[25] EN
[54] **HETEROTANDEM BICYCLIC PEPTIDE COMPLEXES**
[54] **COMPLEXES PEPTIDIQUES BICYCLIQUES HETEROTANDEMS**
[72] MCDONNELL, KEVIN, GB
[72] UPADHYAYA, PUNIT, GB
[72] LAHDENRANTA, JOHANNA, GB
[72] MUDD, GEMMA, GB
[71] BICYCLETX LIMITED, GB
[85] 2022-01-14
[86] 2020-07-30 (PCT/GB2020/051831)
[87] (WO2021/019246)
[30] US (62/880,191) 2019-07-30
[30] US (62/910,088) 2019-10-03
[30] US (62/931,442) 2019-11-06
[30] US (63/022,667) 2020-05-11
[30] US (63/024,715) 2020-05-14

[21] **3,147,571**
[13] A1
[51] **Int.Cl. A61K 31/343 (2006.01) A61K 31/381 (2006.01) A61K 31/64 (2006.01) A61P 1/16 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) C07C 311/60 (2006.01) C07D 307/93 (2006.01) C07D 333/78 (2006.01)**
[25] EN
[54] **NLRP3 MODULATORS**
[54] **MODULATEURS DE NLRP3**
[72] MOHAN, RAJU, US
[72] NUSS, JOHN, US
[72] HARRIS, JASON, US
[72] YUAN, SHENDONG, US
[71] ZOMAGEN BIOSCIENCES LTD, US
[85] 2022-01-14
[86] 2020-07-16 (PCT/IB2020/000668)
[87] (WO2021/009567)
[30] US (62/875,409) 2019-07-17

[21] **3,147,573**
[13] A1
[51] **Int.Cl. C07C 311/29 (2006.01) A61K 31/18 (2006.01) A61K 31/337 (2006.01) A61K 31/341 (2006.01) A61K 31/397 (2006.01) A61K 31/44 (2006.01) A61K 31/4402 (2006.01) A61K 31/4409 (2006.01) A61K 31/4453 (2006.01) A61K 31/505 (2006.01) A61K 31/519 (2006.01) C07D 205/04 (2006.01) C07D 213/30 (2006.01) C07D 213/38 (2006.01) C07D 213/85 (2006.01) C07D 239/48 (2006.01) C07D 295/096 (2006.01) C07D 305/06 (2006.01) C07D 307/46 (2006.01) C07D 487/04 (2006.01) C07K 1/107 (2006.01) C07K 1/113 (2006.01)**
[25] EN
[54] **BENZENESULFONAMIDE DERIVATIVES AND USES THEREOF**
[54] **DERIVES DE BENZENESULFONAMIDE ET LEURS UTILISATIONS**
[72] GUNNING, PATRICK T, CA
[72] PARK, JI SUNG, CA
[72] AHMAR, SIAWASH, CA
[72] CABRAL, AARON, D., CA
[72] TIN, GARY K.C., CA
[72] RASHEED, SANA, CA
[72] ABDELDAYEM, AYAH, CA
[72] ARMSTRONG, DAVID, CA
[72] FRERE, GEORDON A., CA
[72] QUILATES, ERICA J., CA
[72] ROSA, DAVID ALEXANDER, CA
[72] GOZHINA, OLGA, CA
[72] OMEARA, JEFFREY ALAN, CA
[72] SIMPSON, GRAHAM, GB
[72] ZOPPI, VITTORIA, CA
[71] 2692372 ONTARIO, INC., CA
[71] DUNAD THERAPEUTICS LTD., GB
[85] 2022-01-14
[86] 2020-07-17 (PCT/IB2020/000670)
[87] (WO2021/009568)
[30] US (62/875,457) 2019-07-17
[30] US (62/875,456) 2019-07-17

[21] **3,147,582**
[13] A1
[51] **Int.Cl. A01N 3/00 (2006.01) A23B 4/10 (2006.01) A23B 7/00 (2006.01) B27K 1/00 (2006.01)**
[25] EN
[54] **PROTECTIVE COATING FOR PLANTS AND POSTHARVEST PLANT MATTER**
[54] **REVETEMENT PROTECTEUR POUR PLANTES ET MATIERE VEGETALE POST-RECOLTE**
[72] NUSSINOVITCH, AMOS, IL
[72] SASON, GAL, IL
[71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD, IL
[85] 2022-01-14
[86] 2020-07-15 (PCT/IL2020/050790)
[87] (WO2021/009755)
[30] US (62/874,512) 2019-07-16

[21] **3,147,583**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**
[25] EN
[54] **INDEPENDENT PROXIMAL ELEMENT ACTUATION METHODS**
[54] **PROCEDES D'ACTIONNEMENT D'ELEMENT PROXIMAL INDEPENDANT**
[72] KIZUKA, KOJI, US
[72] CHILDS, RICHARD, US
[72] GONZALES, GABRIEL, US
[72] VAN HOVEN, DYLAN, US
[72] ABUNASSAR, CHAD, US
[72] MOSLEY, ROB, US
[72] PATEL, NISU, US
[72] VALENCIA, FRANCISCO, US
[72] MARSOT, TRAVIS, US
[71] EVALVE, INC., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042137)
[87] (WO2021/011653)
[30] US (62/874,327) 2019-07-15
[30] US (62/930,948) 2019-11-05

[21] **3,147,584**
[13] A1
[51] **Int.Cl. F16L 17/02 (2006.01) F16J 15/08 (2006.01) F16J 15/12 (2006.01) F16L 17/00 (2006.01) F16L 19/02 (2006.01)**
[25] EN
[54] **HAMMER UNION**
[54] **RACCORD A MARTEAU**
[72] TAUSCH, JAMES, JR., US
[71] TAUSCH, JAMES, JR., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042147)
[87] (WO2021/011661)
[30] US (62/874,708) 2019-07-16

[21] **3,147,585**
[13] A1
[51] **Int.Cl. C08K 5/05 (2006.01) C08L 91/00 (2006.01) C08L 95/00 (2006.01) E01C 7/18 (2006.01)**
[25] EN
[54] **RECYCLING OF STEROL-CONTAINING ASPHALT BINDER**
[54] **RECYCLAGE DE LIANT D'ASPHALTE CONTENANT UN STEROL**
[72] REINKE, GERALD H., US
[72] BAUMGARDNER, GAYLON L., US
[72] HANZ, ANDREW, US
[71] A.L.M HOLDING COMPANY, US
[71] ERGON ASPHALT & EMULSIONS, INC., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042202)
[87] (WO2021/011703)
[30] US (62/874,196) 2019-07-15
[30] US (62/887,811) 2019-08-16
[30] US (63/027,845) 2020-05-20

[21] **3,147,586**
[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 1/04 (2006.01) C07D 213/34 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND KITS FOR OMEPRAZOLE SUSPENSION**
[54] **COMPOSITIONS ET KITS POUR SUSPENSION D'OMEPRAZOLE**
[72] PENDON, ZEUS, US
[72] DINH, STEVEN, US
[71] AZURITY PHARMACEUTICALS, INC., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042157)
[87] (WO2021/011669)
[30] US (16/513,604) 2019-07-16

[21] **3,147,587**
[13] A1
[51] **Int.Cl. B28B 23/00 (2006.01) B09B 1/00 (2006.01) B28B 5/10 (2006.01) B28B 7/08 (2006.01) B28B 13/02 (2006.01) B28B 19/00 (2006.01)**
[25] EN
[54] **ARTICULABLE EROSION CONTROL MATTRESS, MANUFACTURING SYSTEM, MATTRESS ROLLING SYSTEM, AND METHODS**
[54] **MATELAS DE LUTTE CONTRE L'EROSION ARTICULABLE, SYSTEME DE FABRICATION, SYSTEME DE ROULEMENT DE MATELAS ET PROCEDES**
[72] SCALES, JOHN M., US
[71] SCALES, JOHN M., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042208)
[87] (WO2021/011706)
[30] US (62/875,422) 2019-07-17
[30] US (62/987,404) 2020-03-10

[21] **3,147,588**
[13] A1
[51] **Int.Cl. A61K 31/19 (2006.01) A61K 31/437 (2006.01) A61K 31/4745 (2006.01)**
[25] EN
[54] **METHODS USEFUL IN TREATING CANCERS HARBORING A KRAS OR HRAS MUTATION OR AMPLIFICATION**
[54] **PROCEDES UTILES DANS LE TRAITEMENT DE CANCERS PRESENTANT UNE MUTATION OU UNE AMPLIFICATION KRAS OU HRAS**
[72] HELLER, DANIEL, US
[72] HOROSZKO, CHRISTOPHER, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042162)
[87] (WO2021/011674)
[30] US (62/874,474) 2019-07-15

[21] **3,147,589**
[13] A1
[51] **Int.Cl. G06F 40/166 (2020.01) G10L 15/26 (2006.01) G11B 27/02 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR TRANSCRIPTION OF AUDIO DATA**
[54] **PROCEDES ET SYSTEMES DE TRANSCRIPTION DE DONNEES AUDIO**
[72] SPITZER-WILLIAMS, NOAH, US
[72] CHO, CHOONGYEUN, US
[72] CROSLEY, THOMAS, US
[72] GOIST, ZACHARY, US
[72] BELLIA, DANIEL, US
[72] NGUYEN, VINH, US
[72] ALEXANDER-TAYLOR, CHELSEA, US
[71] AXON ENTERPRISE, INC., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042211)
[87] (WO2021/011708)
[30] US (62/874,501) 2019-07-15
[30] US (62/901,074) 2019-09-16

[21] **3,147,590**
[13] A1
[51] **Int.Cl. C08L 95/00 (2006.01)**
[25] EN
[54] **ANTI-AGING AGENTS FOR ASPHALT BINDERS**
[54] **AGENTS ANTI-VIEILLISSEMENT POUR LIANTS D'ASPHALTE**
[72] COOLEY, KEN, US
[72] JOHNSON, JERRY, US
[72] DARANGA, CODRIN, US
[72] JOHNSON, ROBERT DWAYNE, US
[71] ERGON, INC., US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042166)
[87] (WO2021/011677)
[30] US (62/874,320) 2019-07-15

[21] **3,147,591**
[13] A1
[51] **Int.Cl. H01M 4/62 (2006.01) H01M 4/00 (2006.01) H01M 4/02 (2006.01)**
[25] EN
[54] **ELECTRODE PARTICLES SUITABLE FOR BATTERIES**
[54] **PARTICULES D'ELECTRODE APPROPRIEES POUR DES BATTERIES**
[72] MAO, ZHENHUA, US
[72] LI, NAN, US
[72] TROPF, COREY W., US
[72] SHI, DACHUAN, US
[72] LAFRANCOIS, CHRISTOPHER J., US
[71] PHILLIPS 66 COMPANY, US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042133)
[87] (WO2021/011650)
[30] US (62/875,318) 2019-07-17
[30] US (62/875,299) 2019-07-17
[30] US (62/875,315) 2019-07-17
[30] US (16/929,233) 2020-07-15
[30] US (16/929,222) 2020-07-15
[30] US (16/929,248) 2020-07-15

[21] **3,147,592**
[13] A1
[51] **Int.Cl. A61B 18/12 (2006.01) A61B 18/04 (2006.01) A61B 18/14 (2006.01)**
[25] EN
[54] **TREATMENT OF THE REPRODUCTIVE TRACT WITH PULSED ELECTRIC FIELDS**
[54] **TRAITEMENT DE L'APPAREIL REPRODUCTEUR A L'AIDE DE CHAMPS ELECTRIQUES PULSES**
[72] O'BRIEN, TIMOTHY J., US
[72] CASTELLVI, QUIM, US
[72] ARBELO, LUIS L. MANGUAL, US
[72] WALDSTREICHER, JONATHAN R., US
[72] GLEIMAN, SETH S., US
[72] MERCER, NICHOLAS S., US
[72] TAYLOR, KEVIN J., US
[72] NEAL II, ROBERT E., US
[72] KRIMSKY, WILLIAM S., US
[72] VACHANI, ARMAAN G., US
[71] GALARY, INC., US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042260)
[87] (WO2021/011733)
[30] US (62/874,605) 2019-07-16

[21] **3,147,593**
[13] A1
[51] **Int.Cl. H01M 4/62 (2006.01) H01M 4/00 (2006.01) H01M 4/02 (2006.01)**
[25] EN
[54] **ELECTRODE PARTICLES SUITABLE FOR BATTERIES**
[54] **PARTICULES D'ELECTRODE APPROPRIEES POUR DES BATTERIES**
[72] MAO, ZHENHUA, US
[72] LI, NAN, US
[72] TROPF, COREY W., US
[72] SHI, DACHUAN, US
[72] LAFRANCOIS, CHRISTOPHER J., US
[71] PHILLIPS 66 COMPANY, US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042130)
[87] (WO2021/011647)
[30] US (62/875,299) 2019-07-17
[30] US (62/875,315) 2019-07-17
[30] US (62/875,318) 2019-07-17
[30] US (16/929,222) 2020-07-15
[30] US (16/929,248) 2020-07-15
[30] US (16/929,233) 2020-07-15

[21] **3,147,594**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61B 5/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISPLAYING AUGMENTED ANATOMICAL FEATURES**
[54] **SYSTEMES ET PROCEDES D'AFFICHAGE DE CARACTERISTIQUES ANATOMIQUES AUGMENTEES**
[72] LO, GUSTAV, US
[71] LO, GUSTAV, US
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/042042)
[87] (WO2021/011596)
[30] US (16/514,163) 2019-07-17

[21] **3,147,595**
[13] A1
[51] **Int.Cl. A23B 7/02 (2006.01)**
[25] EN
[54] **VEGETATION HANGER**
[54] **DISPOSITIF DE SUSPENSION DE VEGETATION**
[72] LARKINS, TODD CHANDLER, US
[71] DRIFLOWER, LLC, US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042261)
[87] (WO2021/011734)
[30] US (62/874,939) 2019-07-16

[21] **3,147,596**
[13] A1
[51] **Int.Cl. B05B 1/04 (2006.01)**
[25] EN
[54] **LOW DRIFT, HIGH EFFICIENCY SPRAYING SYSTEM**
[54] **SYSTEME DE PULVERISATION A HAUT RENDEMENT ET A FAIBLE DERIVE**
[72] ARENSON, MARC, US
[72] CEDERBERG, DANIEL, US
[71] SPRAYING SYSTEMS CO., US
[85] 2022-01-14
[86] 2020-07-14 (PCT/US2020/041880)
[87] (WO2021/011514)
[30] US (62/874,183) 2019-07-15

[21] **3,147,597**
[13] A1
[51] **Int.Cl. G01S 17/34 (2020.01) G01S 17/931 (2020.01) G01S 17/32 (2020.01) G01S 17/58 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ENHANCED VELOCITY RESOLUTION AND SIGNAL TO NOISE RATIO IN OPTICAL PHASE-ENCODED RANGE DETECTION**
[54] **PROCEDE ET SYSTEME A RESOLUTION DE VITESSE ET A RAPPORT SIGNAL SUR BRUIT AMELIORES DANS UNE DETECTION DE DISTANCE A CODAGE DE PHASE OPTIQUE**
[72] CROUCH, STEPHEN C., US
[72] BARBER, ZEB WILLIAM, US
[72] KADLEC, EMIL A., US
[72] RUPAVATHARAM, KRISHNA, US
[71] BLACKMORE SENSORS & ANALYTICS, LLC, US
[85] 2022-01-14
[86] 2020-07-13 (PCT/US2020/041809)
[87] (WO2021/011472)
[30] US (62/874,835) 2019-07-16
[30] US (16/732,167) 2019-12-31

[21] **3,147,598**
[13] A1
[51] **Int.Cl. G07C 5/00 (2006.01) H04W 4/40 (2018.01)**
[25] EN
[54] **REMOTE PROFILE MANAGER FOR A VEHICLE**
[54] **GESTIONNAIRE DE PROFILS A DISTANCE POUR UN VEHICULE**
[72] KENNEDY, JOHN C., US
[72] KOPCHINSKY, SCOTT, US
[72] SON, DON, US
[72] FIELDS, JACOB, US
[72] DEMCHUK, DARRIN, US
[71] PLATFORM SCIENCE, INC., US
[85] 2022-01-14
[86] 2020-07-13 (PCT/US2020/041788)
[87] (WO2021/011461)
[30] US (62/873,922) 2019-07-14

[21] **3,147,599**
[13] A1
[51] **Int.Cl. H02G 3/14 (2006.01) H01R 13/46 (2006.01) H01R 13/502 (2006.01) H01R 13/52 (2006.01) H02G 3/08 (2006.01) H02G 3/16 (2006.01)**
[25] EN
[54] **PIVOTABLE AND ADJUSTABLE SUPPORT FOR ELECTRICAL DEVICE**
[54] **SUPPORT PIVOTANT ET REGLABLE POUR DISPOSITIF ELECTRIQUE**
[72] KORCZ, KRZYSZTOF, US
[72] JOHNSON, STEVEN, US
[71] HUBBELL INCORPORATED, US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042311)
[87] (WO2021/011764)
[30] US (62/874,707) 2019-07-16

[21] **3,147,600**
[13] A1
[25] EN
[54] **SECURE RESOURCE MANAGEMENT TO PREVENT FRAUDULENT RESOURCE ACCESS**
[54] **GESTION DE RESSOURCES SECURISEE POUR EMPECHER UN ACCES FRAUDULEUX A DES RESSOURCES**
[72] BONDUGULA, RAJKUMAR, US
[72] MCBURNETT, MICHAEL, US
[71] EQUIFAX INC., US
[85] 2022-01-14
[86] 2020-07-09 (PCT/US2020/041427)
[87] (WO2021/011308)
[30] US (62/875,814) 2019-07-18

[21] **3,147,601**
[13] A1
[51] **Int.Cl. F04B 53/10 (2006.01) F04B 9/14 (2006.01) F04B 23/02 (2006.01) F04B 53/16 (2006.01) F15B 20/00 (2006.01) F16K 11/074 (2006.01)**
[25] EN
[54] **MANUAL HYDRAULIC OVERRIDE PUMPS FOR USE WITH ACTUATORS**
[54] **POMPES DE SURPASSEMENT HYDRAULIQUES MANUELLES DESTINEES A ETRE UTILISEES AVEC DES ACTIONNEURS**
[72] CHRISTOPHERSON, MATT, US
[72] CHENG, MICHAEL, US
[72] SUN, JOSEPH, US
[71] EMERSON PROCESS MANAGEMENT, VALVE AUTOMATION, INC., US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042315)
[87] (WO2021/021455)
[30] US (16/523,760) 2019-07-26

[21] **3,147,602**
[13] A1
[51] **Int.Cl. A61L 29/08 (2006.01) A61L 29/04 (2006.01) A61L 29/12 (2006.01) A61L 29/14 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **CATHETER COMPRISING PTFE LINER**
[54] **CATHETER COMPRENANT UN REVETEMENT EN PTFE**
[72] WAHAB, ZAHIDUL, US
[72] ALPIZAR, GUILLERMO, US
[72] COOPER, PATRICK, US
[72] COX, JEFFREY M., US
[72] GONZALEZ, LAURENCE C., US
[72] GREEN, DANIEL, US
[72] RAST, EDWARD, US
[72] SALVADOR, BERNARD, US
[72] SINGH, RAVINDER, US
[72] TOURVILLE, DOUGLAS, US
[72] VILLAGRA, FRANKLIN, US
[71] ZEUS COMPANY INC., US
[85] 2022-01-14
[86] 2020-07-02 (PCT/US2020/040646)
[87] (WO2021/025814)
[30] US (16/534,020) 2019-08-07

[21] **3,147,603**
[13] A1
[51] **Int.Cl. G01M 17/00 (2006.01)**
[25] EN
[54] **EVALUATING THE SAFETY PERFORMANCE OF VEHICLES**
[54] **EVALUATION DE LA PERFORMANCE DE SECURITE DE VEHICULES**
[72] BALAKRISHNAN, HARI, US
[72] MADDEN, SAMUEL, US
[72] PARK, JUN-GEUN, US
[72] BRADLEY, WILLIAM, US
[71] CAMBRIDGE MOBILE TELEMATICS INC., US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042320)
[87] (WO2021/016035)
[30] US (16/521,856) 2019-07-25

[21] **3,147,604**
[13] A1
[51] **Int.Cl. G06F 21/00 (2013.01) H04W 12/06 (2021.01) H04L 9/32 (2006.01)**
[25] EN
[54] **CERTIFICATE CHAIN COMPRESSION TO EXTEND NODE OPERATIONAL LIFETIME**
[54] **COMPRESSION DE CHAINE DE CERTIFICATS POUR PROLONGER LA DUREE DE VIE OPERATIONNELLE D'UN N□UD**
[72] BARNES, KEITH, US
[72] HAESKA, GARTEN, US
[72] BRACE, HOWARD, US
[72] SINGH, KALVINDER, US
[71] ITRON, INC., US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042347)
[87] (WO2021/011782)
[30] US (16/515,953) 2019-07-18

[21] **3,147,605**
[13] A1
[51] **Int.Cl. C12P 19/04 (2006.01) C12P 19/14 (2006.01) C13K 13/00 (2006.01)**
[25] EN
[54] **IMPROVED METHOD FOR PRODUCING ISOMALTO-OLIGOSACCHARIDES**
[54] **PROCEDE AMELIORE DE PRODUCTION D'ISOMALTO-OLIGOSACCHARIDES**
[72] KOOPS, BART C., US
[71] DANISCO US INC, US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042367)
[87] (WO2021/011793)
[30] US (62/874,541) 2019-07-16

[21] **3,147,606**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) A61N 5/10 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **ANTI-GRP78 ANTIBODIES AND METHOD OF USE THEREOF**
[54] **ANTICORPS ANTI-GRP78 ET PROCEDE D'UTILISATION DE CELUI-CI**
[72] HALLAHAN, DENNIS, US
[72] KAPOOR, VAISHALI, US
[72] SINGH, ABHAY KUMAR, US
[71] WASHINGTON UNIVERSITY, US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042374)
[87] (WO2021/011798)
[30] US (62/874,791) 2019-07-16

[21] **3,147,608**
[13] A1
[51] **Int.Cl. G06F 12/0868 (2016.01)**
[25] EN
[54] **DATA PRESERVATION USING MEMORY APERTURE FLUSH ORDER**
[54] **CONSERVATION DE DONNEES A L'AIDE D'UN ORDRE DE PURGE D'OUVERTURE DE MEMOIRE**
[72] BULUSU, MALLIK, US
[72] NGUYEN, TOM L., US
[72] LADKANI, NEERAJ, US
[72] MYSORE SHANTAMURTHY, RAVI, US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2022-01-14
[86] 2020-06-15 (PCT/US2020/037681)
[87] (WO2021/034391)
[30] US (16/546,337) 2019-08-21

[21] **3,147,609**
[13] A1
[51] **Int.Cl. A61F 2/958 (2013.01) A61M 25/01 (2006.01) A61M 25/10 (2013.01) A61M 29/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR ADVANCING CATHETERS OR OTHER MEDICAL DEVICES THROUGH A LUMEN**
[54] **APPAREIL ET PROCEDE POUR FAIRE AVANCER DES CATHETERS OU D'AUTRES DISPOSITIFS MEDICAUX A TRAVERS UNE LUMIERE**
[72] SARDESAI, RAJENDRA, US
[72] PANCHOLY, SAMIR, US
[72] PATEL, TEJAS, IN
[71] VASOINNOVATIONS INC., US
[71] VASOINNOVATIONS, INC., US
[85] 2022-01-14
[86] 2020-04-26 (PCT/US2020/029999)
[87] (WO2021/029920)
[30] US (62/886,349) 2019-08-14
[30] US (16/701,966) 2019-12-03
[30] US (16/721,909) 2019-12-19

[21] **3,147,610**
[13] A1
[51] **Int.Cl. F04B 51/00 (2006.01) G01M 99/00 (2011.01) E21B 47/00 (2012.01)**
[25] EN
[54] **METHOD OF CALCULATING VISCOUS PERFORMANCE OF A PUMP FROM ITS WATER PERFORMANCE CHARACTERISTICS AND NEW DIMENSIONLESS PARAMETER FOR CONTROLLING AND MONITORING VISCOSITY, FLOW AND PRESSURE**
[54] **PROCEDE DE CALCUL D'UNE PERFORMANCE VISQUEUSE D'UNE POMPE A PARTIR DE SES CARACTERISTIQUES DE PERFORMANCE AVEC DE L'EAU ET NOUVEAU PARAMETRE SANS DIMENSION POUR LA COMMANDE ET LA SURVEILLANCE DE LA VISCOSITE, DE L'ECOULEMENT ET DE LA PRESSION**
[72] SHETH, KETANKUMAR KANTILAL, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-01-14
[86] 2019-09-25 (PCT/US2019/052966)
[87] (WO2021/061121)
[30] US (16/582,684) 2019-09-25

[21] **3,147,612**
[13] A1
[51] **Int.Cl. C12C 11/11 (2019.01) C12G 3/00 (2019.01) C12H 1/044 (2006.01) C12H 1/07 (2006.01)**
[25] EN
[54] **REFINED FERMENTED BEVERAGES, AND A METHOD THEREOF**
[54] **BOISSONS FERMENTEES RAFFINEES ET PROCEDE ASSOCIE**
[72] FOX, DAVID G., US
[72] VIEIRA, ANTHONY C., US
[72] MATTSON, JACOB M., US
[71] MARK ANTHONY INTERNATIONAL SRL, BB
[85] 2022-01-14
[86] 2019-08-13 (PCT/US2019/046308)
[87] (WO2020/036932)
[30] US (62/880,827) 2019-07-31

[21] **3,147,615**
[13] A1
[51] **Int.Cl. A61K 35/766 (2015.01) A61P 35/00 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **METHODS FOR TREATMENT OF CANCER USING CHIKUNGUNYA-VSV CHIMERIC VIRUS**
[54] **METHODES DE TRAITEMENT DU CANCER A L'AIDE D'UN VIRUS CHIMERE CHIKUNGUNYA-VSV**
[72] VAN DEN POL, ANTHONY N., US
[71] YALE UNIVERSITY, US
[85] 2022-01-14
[86] 2019-07-17 (PCT/US2019/042265)
[87] (WO2020/018705)
[30] US (62/699,521) 2018-07-17

[21] **3,147,616**
[13] A1
[51] **Int.Cl. H01Q 3/26 (2006.01) G01S 7/40 (2006.01)**
[25] EN
[54] **PHASED ARRAY ANTENNA CALIBRATION SYSTEM AND METHODS FOR USE IN MILLIMETER WAVE APPLICATIONS**
[54] **SYSTEME D'ETALONNAGE D'ANTENNE RESEAU A COMMANDE DE PHASE ET PROCEDES DESTINES A ETRE UTILISES DANS DES APPLICATIONS A ONDES MILLIMETRIQUES**
[72] SHAMSINEJAD, SOUREN, US
[71] METAWAVE CORPORATION, US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/042419)
[87] (WO2021/011825)
[30] US (62/874,904) 2019-07-16

[21] **3,147,618**
[13] A1
[51] **Int.Cl. A61K 35/19 (2015.01) C12N 5/078 (2010.01)**
[25] EN
[54] **USE OF PLATELETS IN TREATING INFECTIONS**
[54] **UTILISATION DE PLAQUETTES DANS LE TRAITEMENT D'INFECTIONS**
[72] LEE, AMBER NICOLE, US
[72] MOSKOWITZ, KEITH ANDREW, US
[71] CELLPHIRE, INC., US
[85] 2022-01-14
[86] 2020-07-17 (PCT/US2020/042492)
[87] (WO2021/011857)
[30] US (62/875,055) 2019-07-17

[21] **3,147,620**
[13] A1
[51] **Int.Cl. E02F 3/00 (2006.01) G05B 9/02 (2006.01) G05B 23/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING A MINING AND/OR CONSTRUCTION MACHINE**
[54] **PROCEDE ET SYSTEME DE COMMANDE D'UNE MACHINE D'EXPLOITATION MINIERE ET/OU DE CONSTRUCTION**
[72] HENDEBERG, RICHARD, SE
[72] GUSTAVSSON, HANS, SE
[72] AYDOGAN, MEHMET, SE
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE
[85] 2022-01-14
[86] 2020-08-21 (PCT/SE2020/050808)
[87] (WO2021/040601)
[30] SE (1950966-0) 2019-08-23

[21] **3,147,621**
[13] A1
[51] **Int.Cl. C07K 14/71 (2006.01) C07K 16/28 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TARGETING TGF-.BETA. SIGNALING IN CD4+ HELPER T CELLS FOR CANCER IMMUNOTHERAPY**
[54] **PROCEDES ET COMPOSITIONS POUR CIBLER LA SIGNALISATION DU TGF-S DANS DES LYMPHOCYTES T AUXILIAIRES CD4+ POUR IMMUNOTHERAPIE ANTICANCEREUSE**
[72] LI, MING, US
[72] LI, SHUN, US
[72] LIU, MING, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2022-01-14
[86] 2020-07-17 (PCT/US2020/042517)
[87] (WO2021/011864)
[30] US (62/875,778) 2019-07-18

[21] **3,147,622**
[13] A1
[51] **Int.Cl. A61J 1/00 (2006.01) A61M 5/00 (2006.01)**
[25] EN
[54] **PACKAGED MEDICAL DEVICE AND METHOD FOR MANUFACTURING PACKAGED MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL EMBALLE ET PROCEDE DE FABRICATION DE DISPOSITIF MEDICAL EMBALLE**
[72] YOSHIDA, TAKAYUKI, JP
[71] DAIKYO SEIKO, LTD., JP
[85] 2022-01-14
[86] 2019-07-18 (PCT/JP2019/028236)
[87] (WO2021/009898)

[21] **3,147,625**
[13] A1
[51] **Int.Cl. A61J 1/00 (2006.01) A61M 5/00 (2006.01)**
[25] EN
[54] **PACKAGED MEDICAL DEVICE**
[54] **INSTRUMENT MEDICAL EMBALLE**
[72] YOSHIDA, TAKAYUKI, JP
[71] DAIKYO SEIKO, LTD., JP
[85] 2022-01-14
[86] 2019-07-18 (PCT/JP2019/028241)
[87] (WO2021/009899)

[21] **3,147,627**
[13] A1
[51] **Int.Cl. F03B 13/08 (2006.01) F03B 11/00 (2006.01) F03B 13/06 (2006.01) F03B 17/06 (2006.01)**
[25] EN
[54] **PUMPED-STORAGE HYDROELECTRIC POWER STATION HAVING PIPE INSTALLED SUCH THAT BOTH ENDS OF PIPE HAVE DIFFERENT HEIGHTS, THEREBY INDUCING FLUID FLOW INSIDE PIPE AND UTILIZING FLUID FLOW**
[54] **CENTRALE HYDROELECTRIQUE DE STOCKAGE PAR POMPAGE DOTEE DE TUYAU INSTALLE DE SORTE QUE LES DEUX EXTREMITES DU TUYAU AIENT DES HAUTEURS DIFFERENTES, CE QUI PERMET DE PROVOQUER UN ECOULEMENT DE FLUIDE A L'INTERIEUR DU TUYAU, ET D'UTILISER L'ECOULEMENT DE FLUIDE**
[72] HEO, KYU-HWE, KR
[71] HEO, KYU-HWE, KR
[85] 2022-01-14
[86] 2019-07-15 (PCT/KR2019/008728)
[87] (WO2021/010510)

[21] **3,147,629**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A61P 1/00 (2006.01) A61P 37/00 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **METHODS AND PRODUCTS FOR TREATMENT OF GASTROINTESTINAL DISORDERS**
[54] **METHODES ET PRODUITS DESTINES AU TRAITEMENT DE TROUBLES GASTRO-INTESTINAUX**
[72] SMITH, MARK, US
[72] VO, ANH-THU ELAINE, US
[72] SADOVSKY, ROTEM, US
[72] HENSKE, JOHN, US
[72] GERARDIN, YLAINE, US
[72] TIMBERLAKE, SONIA, US
[72] GIALLOURAKIS, COSMOS, US
[72] TAYLOR, EWAN, US
[71] FINCH THERAPEUTICS HOLDINGS LLC., US
[71] MILLENNIUM PHARMACEUTCALS, INC., US
[85] 2022-01-14
[86] 2020-07-17 (PCT/US2020/042541)
[87] (WO2021/016081)
[30] US (62/876,350) 2019-07-19
[30] US (63/001,888) 2020-03-30

[21] **3,147,630**
[13] A1
[51] **Int.Cl. E06B 9/44 (2006.01) E06B 9/66 (2006.01) E06B 9/80 (2006.01)**
[25] EN
[54] **A DEVICE FOR PREVENTING BENDING OF LOWER ROTARY ROD AND WRINKLING OF FABRICS IN DOUBLE BLINDS WITHOUT STRINGS**
[54] **TISSU DE STORE DOUBLE SANS FIL ET DISPOSITIF POUR EMPECHER LA FLEXION D'UNE BARRE ROTATIVE INFERIEURE**
[72] KWAK, JAE SUK, KR
[72] KWAK, WOO-JIN, KR
[71] KWAK, JAE SUK, KR
[85] 2022-01-14
[86] 2019-12-20 (PCT/KR2019/018178)
[87] (WO2021/010553)
[30] KR (10-2019-0085419) 2019-07-16

[21] **3,147,633**
[13] A1
[51] **Int.Cl. G06F 8/51 (2018.01)**
[25] EN
[54] **AUTOMATICALLY CONVERTING A PROGRAM WRITTEN IN A PROCEDURAL PROGRAMMING LANGUAGE INTO A DATAFLOW GRAPH AND RELATED SYSTEMS AND METHODS**
[54] **CONVERSION AUTOMATIQUE D'UN PROGRAMME ECRIT DANS UN LANGAGE PROCEDURAL DE PROGRAMMATION EN UN GRAPHE DE FLUX DE DONNEES, ET SYSTEMES ET PROCEDES APPARENTES**
[72] RABINOVITCH, YURI GENNADY, US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2022-01-14
[86] 2020-07-17 (PCT/US2020/042574)
[87] (WO2021/011886)
[30] US (16/515,995) 2019-07-18

[21] **3,147,634**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01) G06F 16/332 (2019.01) G06F 40/205 (2020.01) G06F 40/279 (2020.01) G10L 15/02 (2006.01) G10L 15/26 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ANALYZING SALES CONVERSATION BASED ON VOICE RECOGNITION**
[54] **PROCEDE ET DISPOSITIF D'ANALYSE D'UNE CONVERSATION DE VENTE SUR LA BASE DE RECONNAISSANCE VOCALE**
[72] LEE, JIN KOOK, KR
[72] BAEK, SE MYOUNG, KR
[72] HONG, DAE YOUNG, KR
[72] SEO, JEONG WOO, KR
[71] VODABI CO., LTD., KR
[85] 2022-01-14
[86] 2020-07-15 (PCT/KR2020/009310)
[87] (WO2021/010744)
[30] KR (10-2019-0086037) 2019-07-16

[21] **3,147,638**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 35/76 (2015.01) A61K 38/00 (2006.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/36 (2006.01)**
[25] EN
[54] **FACTOR H POTENTIATING ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS DE POTENTIALISATION DU FACTEUR H ET LEURS UTILISATIONS**
[72] LAUDER, SCOTT, US
[72] PURCELL, TOM, US
[72] GOVINDARAJAN, SRIDHAR, US
[72] WOUTERS, DIANA, NL
[72] POUW, RICHARD BENJAMIN, NL
[72] JONGERIUS, ILSE, NL
[72] KUIJPERS, TACO WILLEM, NL
[72] BROUWER, MARIA CLARA, NL
[72] RISPENS, TAEDE, NL
[72] DEKKERS, GILLIAN, NL
[71] GEMINI THERAPEUTICS SUB, INC., US
[71] STICHTING SANQUIN BLOEDVOORZIENING, NL
[85] 2022-01-14
[86] 2020-07-17 (PCT/US2020/042627)
[87] (WO2021/011903)
[30] US (62/875,309) 2019-07-17

[21] **3,147,639**
[13] A1
[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/506 (2006.01) A61K 38/16 (2006.01)**
[25] EN
[54] **TREATMENT OF UROTHELIAL AND KIDNEY CANCERS BY USE OF ENDOTHELIN B RECEPTOR ANTAGONISTS**
[54] **TRAITEMENT DES CANCERS UROTHELIAL ET RENAL PAR L'UTILISATION D'ANTAGONISTES DU RECEPTEUR DE L'ENDOTHELINE B**
[72] JAMAL, SUMAYAH, US
[71] ENB THERAPEUTICS, INC., US
[85] 2022-01-14
[86] 2020-07-17 (PCT/US2020/042673)
[87] (WO2021/011925)
[30] US (62/875,458) 2019-07-17

[21] **3,147,643**
[13] A1
[51] **Int.Cl. A61P 1/16 (2006.01) C07K 14/47 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MODULATING HEPATOCYTE NUCLEAR FACTOR 4-ALPHA (HNF4.ALPHA.) GENE EXPRESSION**
[54] **COMPOSITIONS ET PROCEDES DE MODULATION DE L'EXPRESSION GENIQUE DU FACTEUR NUCLEAIRE HEPATOCYTAIRE 4-ALPHA (HNF4?)**
[72] RAO, TIMSI, US
[72] COBAUGH, CHRISTIAN WESSEL, US
[72] KASSA, YOSEPH, US
[72] SMITH, JESSE JEROME, US
[72] KENNEDY, JODI MICHELLE, US
[72] FARELLI, JEREMIAH D., US
[72] GOSS, KENDRICK ALAN, US
[72] SCHEIDEGGER, ADAM WALTER, US
[71] OMEGA THERAPEUTICS, INC., US
[85] 2022-01-14
[86] 2020-09-23 (PCT/US2020/052275)
[87] (WO2021/061815)
[30] US (62/904,178) 2019-09-23

[21] **3,147,645**
[13] A1
[51] **Int.Cl. B60N 2/12 (2006.01) B60N 2/08 (2006.01)**
[25] EN
[54] **SEAT TRACK ASSEMBLY WITH MEMORY MECHANISM**
[54] **ENSEMBLE RAIL DE SIEGE COMPRENANT UN MECANISME DE MEMOIRE**
[72] ZANG, CRESTON A., US
[72] KURZEJA, KRISTOF M., US
[71] MAGNA SEATING INC., CA
[85] 2022-01-14
[86] 2020-07-15 (PCT/US2020/070276)
[87] (WO2021/011963)
[30] US (62/874,716) 2019-07-16

[21] **3,147,647**
[13] A1
[51] **Int.Cl. E02B 15/04 (2006.01) B01D 15/02 (2006.01) C01G 49/04 (2006.01) C01G 49/06 (2006.01) C02F 1/28 (2006.01) C02F 1/40 (2006.01) C02F 1/48 (2006.01) C02F 1/68 (2006.01) E02B 15/10 (2006.01)**
[25] EN
[54] **MAGNETIZATION AND MANIPULATION OF HYDROPHOBIC ABSORBENTS**
[54] **MAGNETISATION ET MANIPULATION D'ABSORBANTS HYDROPHOBES**
[72] WARNER, ARDEN A., US
[71] WARNER, ARDEN A., US
[85] 2022-01-14
[86] 2020-07-16 (PCT/US2020/070283)
[87] (WO2021/011965)
[30] US (16/513,152) 2019-07-16

[21] **3,147,651**
[13] A1
[51] **Int.Cl. C12N 7/01 (2006.01) A01N 63/00 (2020.01) A01P 1/00 (2006.01) A61L 2/16 (2006.01) A61L 2/18 (2006.01) C12N 15/09 (2006.01) C12N 15/63 (2006.01) C12N 15/64 (2006.01)**
[25] EN
[54] **GENETICALLY ENGINEERED BACTERIOPHAGE**
[54] **BACTERIOPHAGE GENETIQUEMENT MODIFIE**
[72] THERIAULT, STEVEN, CA
[71] CYTOPHAGE TECHNOLOGIES, CA
[85] 2022-01-17
[86] 2019-07-18 (PCT/CA2019/050992)
[87] (WO2021/007647)

[21] **3,147,652**
[13] A1
[51] **Int.Cl. B62D 53/00 (2006.01)**
[25] EN
[54] **TRACKED VEHICLE ARRANGEMENT INCLUDING MAIN VEHICLE AND TRAILER**
[54] **AGENCEMENT DE VEHICULE A CHENILLES COMPRENANT UN VEHICULE PRINCIPAL ET UNE REMORQUE**
[72] STEBEN, ERIC, CA
[72] HEBERT, PATRICK, CA
[72] PAOLETTI, ALBERTO, IT
[71] PRINOTH LTD., CA
[71] PRINOTH AG, IT
[85] 2022-01-17
[86] 2019-07-19 (PCT/CA2019/050999)
[87] (WO2021/012030)

[21] **3,147,653**
[13] A1
[51] **Int.Cl. A01K 15/04 (2006.01) A01K 1/00 (2006.01)**
[25] EN
[54] **MODULAR LIVESTOCK ALLEY CONSTRUCTION AND STRATEGIC CLADDING OF LIVESTOCK HANDLING EQUIPMENT TO OPTIMIZE LIVESTOCK FLOW THERETHROUGH**
[54] **CONSTRUCTION MODULAIRE DE COULOIR POUR BETAIL ET REVETEMENT STRATEGIQUE D'EQUIPEMENT DE MANIPULATION DE BETAIL POUR OPTIMISER L'ECOULEMENT DU BETAIL A TRAVERS CELUI-CI**
[72] LANGRELL, STEPHEN ARTHUR, CA
[71] NORTHQUIP INC., CA
[85] 2022-01-17
[86] 2019-07-30 (PCT/CA2019/051038)
[87] (WO2021/016698)

[21] **3,147,654**
[13] A1
[51] **Int.Cl. A01K 1/062 (2006.01) A01K 1/06 (2006.01) A01K 15/04 (2006.01) A61D 3/00 (2006.01)**
[25] EN
[54] **ADAPTABLE LIVESTOCK HEAD HOLDER WITH LOWER SCOOP EXTENSIONS AND UPPER STABILIZER**
[54] **SUPPORT DE TETE DE BETAIL ADAPTABLE DOTE D'EXTENSIONS DE NACELLE INFERIEURE ET D'UN STABILISATEUR SUPERIEUR**
[72] LANGRELL, STEPHEN ARTHUR, CA
[72] FIRTH, PHILIP MALCOLM, CA
[71] NORTHQUIP INC., CA
[85] 2022-01-17
[86] 2019-10-28 (PCT/CA2019/051517)
[87] (WO2021/081615)

[21] **3,147,656**
[13] A1
[51] **Int.Cl. A01K 1/00 (2006.01) A01K 1/06 (2006.01)**
[25] EN
[54] **PORTABLE LIVESTOCK HANDLING APPARATUS WITH FOLDABLE FORCE TUB AND EXTENDABLE/COLLAPSIBLE CHASSIS**
[54] **APPAREIL DE MANIPULATION DE BETAIL TRANSPORTABLE AVEC ENCLOS DE FORCAGE PLIANT ET CHASSIS EXTENSIBLE/TELESCOPIQUE**
[72] LANGRELL, STEPHEN ARTHUR, CA
[72] FIRTH, PHILIP MALCOLM, CA
[71] NORTHQUIP INC., CA
[85] 2022-01-17
[86] 2019-11-04 (PCT/CA2019/051566)
[87] (WO2021/087596)

[21] **3,147,659**
[13] A1
[51] **Int.Cl. A61M 5/24 (2006.01) A61M 5/178 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION**
[72] HAMEL, SIMON, CA
[72] CLOUTIER, SYLVAIN, CA
[71] SIMON WILLIAMS PHARMA CONSULTING LLC, US
[85] 2022-01-17
[86] 2020-07-23 (PCT/CA2020/000093)
[87] (WO2021/012035)
[30] CA (3,050,501) 2019-07-24

[21] **3,147,660**
[13] A1
[51] **Int.Cl. F03D 80/40 (2016.01)**
[25] EN
[54] **THIN ELECTROTHERMAL FILM HEATER WITH VARIABLE THERMAL OUTPUT**
[54] **DISPOSITIF DE CHAUFFAGE DE FILM ELECTROTHERMIQUE MINCE A SORTIE THERMIQUE VARIABLE**
[72] HE, RUIXUAN, CN
[72] DERRY, CAMERON E., CA
[72] DIVIGALPITIYA, RANJITH, CA
[72] ROCCA, PAOLO, CA
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2022-01-17
[86] 2019-07-17 (PCT/CN2019/096289)
[87] (WO2021/007797)

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] **3,140,163**
[13] A1
[51] **Int.Cl. B60N 2/005 (2006.01) B62D 21/00 (2006.01)**
[25] EN
[54] **UTILITY VEHICLE**
[54] **VEHICULE UTILITAIRE**
[72] SCHOUNARD, KYLE J., US
[72] BARBREY, WILLIAM L., US
[72] PETERSON, SHAWN D., US
[72] WEBER, DANIEL S., US
[72] FRIE, DEREK M., US
[71] POLARIS INDUSTRIES INC., US
[22] 2019-04-03
[41] 2019-10-10
[62] 3,038,943
[30] US (62/655384) 2018-04-10

---

[21] **3,146,289**
[13] A1
[51] **Int.Cl. H04L 49/253 (2022.01) H04L 49/35 (2022.01)**
[25] EN
[54] **INTERCONNECTION PLATFORM FOR REAL-TIME CONFIGURATION AND MANAGEMENT OF A CLOUD-BASED SERVICES EXCHANGE**
[54] **PLATEFORME D'INTERCONNEXION POUR UNE CONFIGURATION ET UNE GESTION EN TEMPS REEL D'UN ECHANGE DE SERVICES EN NUAGE**
[72] KUMAR, PARVEEN, US
[72] MAHESHWARI, GAGAN, US
[72] JEYAPAUL, JAGANATHAN, US
[72] LILLIE, BRIAN J., US
[71] EQUINIX, INC., US
[22] 2015-10-30
[41] 2016-05-06
[62] 2,951,939
[30] US (62/072,976) 2014-10-30
[30] US (62/233,933) 2015-09-28
[30] US (14/927,451) 2015-10-29

---

[21] **3,146,311**
[13] A1
[51] **Int.Cl. G01K 7/02 (2021.01)**
[25] EN
[54] **POLYMER INSULATED THERMOCOUPLE BUNDLES**
[54] **FAISCEAUX DE THERMOCOUPLES A ISOLANT DE POLYMERE**
[72] MELNYCHUK, MICHAEL, CA
[71] PRECISE DOWNHOLE SERVICES LTD., CA
[22] 2019-01-25
[41] 2020-07-25
[62] 3,031,478

---

[21] **3,146,314**
[13] A1
[51] **Int.Cl. G06Q 30/00 (2012.01) G06Q 50/10 (2012.01) G06F 16/95 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR WEB-BASED CUSTOMER CHECK-IN**
[54] **SYSTEME ET METHODE DE CONTROLE POUR CLIENTS SUR LE WEB**
[72] KAISER, PETER, US
[71] KAISER, PETER, US
[22] 2008-08-20
[41] 2009-02-20
[62] 2,638,938
[30] US (60/965,358) 2007-08-20
[30] US (11/974,074) 2007-10-11

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[21] **3,146,333**
[13] A1
[25] EN
[54] **PHENYL-QUINAZOLIN-4(3H)-ONE AND PHENYL-PYRIDO[2,3-D]PYRIMIDIN-4(3H)-ONE DERIVATIVES AND COMPOSITIONS THEREOF USEFUL AS ANTI-INFLAMMATORY AGENTS**
[54] **DERIVES DE LA PHENYL-QUINAZOLIN-4(3H)-ONE ET DE LA PHENYL-PYRIDO[2,3-D]PYRIMIDIN-4(3H)-ONE ET LEURS COMPOSITIONS UTILES COMME AGENTS ANTI-INFLAMMATOIRES**
[72] HANSEN, C. HENRIK, CA
[71] RESVERLOGIX CORP., CA
[22] 2010-03-16
[41] 2010-09-23
[62] 2,992,231
[30] US (61/161,089) 2009-03-18

---

[21] **3,146,402**
[13] A1
[51] **Int.Cl. F28D 19/04 (2006.01) F23L 15/04 (2006.01) F28F 3/04 (2006.01)**
[25] EN
[54] **HEAT TRANSFER ELEMENTS FOR ROTARY HEAT EXCHANGERS**
[54] **ELEMENTS DE TRANSFERT DE CHALEUR POUR ECHANGEURS DE CHALEUR ROTATIFS**
[72] REID, MERON, GB
[72] HOGG, DOUGAL, GB
[71] HOWDEN UK LIMITED, GB
[22] 2018-06-18
[41] 2019-01-03
[62] 3,066,702
[30] US (15/636,673) 2017-06-29
[30] US (15/703,092) 2017-09-13

[21] **3,146,470**
[13] A1
[25] EN
[54] **SPRINKLER MOTOR WITH BYPASS FILTER FOR GEAR-LUBRICATING WATER**
[54] **MOTEUR DE GICLEUR COMPORTANT UN FILTRE DE DERIVATION POUR L'EAU DE LUBRIFICATION D'ENGRENAGE**
[72] JUERGEN, NIES, US
[71] MELNOR, INC., US
[22] 2019-06-04
[41] 2019-12-06
[62] 3,045,174
[30] US (62/681,336) 2018-06-06

---

[21] **3,146,488**
[13] A1
[51] **Int.Cl. B25H 5/00 (2006.01) A47B 46/00 (2006.01) B60R 11/00 (2006.01)**
[25] EN
[54] **VEHICLE SHELF SYSTEM AND METHOD OF USE**
[54] **SYSTEME DE TABLETTES POUR VEHICULE ET UTILISATION**
[72] HERRIMAN, ELIZABETH, US
[72] HENRY JR., MARK ANTHONEY, US
[72] BEAULEAUX JR., RICHARD NORMAN, US
[72] WILLIS, THOMAS MICHAEL, US
[72] WOOD III, WILLIAM, US
[72] MOHR, MARK ALAN, US
[71] ADRIAN STEEL COMPANY, US
[22] 2020-07-10
[41] 2021-01-11
[62] 3,086,579
[30] US (62/872,895) 2019-07-11

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[21] **3,146,509**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR DESIGNING, AND IMPROVING RETENTION OF, ORTHODONTIC ALIGNERS**
[54] **SYSTEMES ET PROCEDES DE CONCEPTION ET D'AMELIORATION DE LA RETENUE DE GOUTTIERES ORTHODONTIQUES**
[72] MAH, JAMES, US
[71] CLEARCORRECT OPERATING, LLC, US
[22] 2018-06-15
[41] 2019-01-10
[62] 3,068,654
[30] US (15/640,941) 2017-07-03

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[21] **3,146,536**
[13] A1
[51] **Int.Cl. G06F 3/0481 (2022.01) G06F 3/0486 (2013.01) G06F 3/14 (2006.01)**
[25] EN
[54] **GRAPHICAL USER INTERFACE THAT SIMPLIFIES USER CREATION OF CUSTOM CALCULATIONS FOR DATA VISUALIZATIONS**
[54] **INTERFACE UTILISATEUR GRAPHIQUE SIMPLIFIANT LES CREATIONS D'UTILISATEURS ET LES CALCULS PERSONNALISE POUR LES VISUALISATIONS DE DONNEES**
[72] KIM, JUN, US
[72] STOLTE, RICHARD, US
[72] MACKINLAY, DOUGLAS, US
[72] STEWART, ROBIN, US
[72] BERAN, BORA, US
[72] TALBOT, JUSTIN, US
[72] WILDENRADT, CLARK, US
[71] TABLEAU SOFTWARE, LLC, US
[22] 2015-09-04
[41] 2016-03-10
[62] 3,075,162
[30] US (62/046,794) 2014-09-05
[30] US (14/737,380) 2015-06-11

---

[21] **3,146,537**
[13] A1
[51] **Int.Cl. E04H 4/16 (2006.01) B04C 5/08 (2006.01)**
[25] EN
[54] **SWIMMING POOL CLEANER WITH HYDROCYCLONIC PARTICLE SEPARATOR AND/OR SIX-ROLLER DRIVE SYSTEM**
[54] **NETTOYEUR DE PISCINE AVEC SEPARATEUR DE PARTICULES HYDROCYCLONIQUE ET/OU SYSTEME D'ENTRAINEMENT A SIX ROULEAUX**
[72] HAYES, GRAHAM, M., US
[72] TEUSCHER, SCOTT, US
[72] MARCIANO, EDWARD, LAWRENCE, US
[71] HAYWARD INDUSTRIES, INC., US
[22] 2016-01-26
[41] 2016-08-04
[62] 3,080,383
[30] US (62/107,565) 2015-01-26

---

[21] **3,146,545**
[13] A1
[51] **Int.Cl. B65D 88/74 (2006.01) F24H 9/1809 (2022.01) B65D 90/24 (2006.01)**
[25] EN
[54] **HYDROCARBON STORAGE VESSEL WITH INTEGRAL CONTAINMENT**
[54] **RESERVOIR DE STOCKAGE D'HYDROCARBURES AVEC CONFINEMENT INTEGRE**
[72] THIESSEN, TYLAN, CA
[71] 2376016 ALBERTA INC., CA
[22] 2020-11-05
[41] 2021-05-14
[62] 3,098,353
[30] US (62935454) 2019-11-14

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[21] **3,146,597**
[13] A1
[51] **Int.Cl. B66D 1/60 (2006.01) A47B 51/00 (2006.01) F16C 1/10 (2006.01) F16H 7/18 (2006.01)**
[25] EN
[54] **STEEL CABLE STEERING DEVICE, STEEL CABLE STEERING SYSTEM AND LIFTING CABINET**
[54] **DISPOSITIF DE DIRECTION DE CABLES D`ACIER, SYSTEME DE DIRECTION DE CABLES D`ACIER ET COFFRET ELEVATEUR**
[72] QIU, JIA SEN, CN
[71] CMECH (GUANGZHOU) LTD., CN
[22] 2019-11-29
[41] 2021-02-05
[62] 3,063,382
[30] CN (201921261566.4) 2019-08-05
[30] CN (201910718446.0) 2019-08-05
[30] CN (201910717730.6) 2019-08-05
[30] CN (201910718438.6) 2019-08-05
[30] US (16/695,850) 2019-11-26
[30] US (16/695,659) 2019-11-26
[30] US (16/695,655) 2019-11-26
[30] US (16/695,789) 2019-11-26

[21] **3,146,603**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS TO IDENTIFY INTENTIONALLY PLACED PRODUCTS**
[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION DE PRODUITS INTEGRES DE MANIERE INTENTIONNELLE**
[72] HARKNESS, DAVID H., US
[72] RAMASWAMY, ARUN, US
[71] THE NIELSEN COMPANY (US), LLC, US
[22] 2008-03-14
[41] 2008-10-02
[62] 2,961,303
[30] US (60/896,389) 2007-03-22

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[21] **3,146,617**
[13] A1
[51] **Int.Cl. G10L 19/02 (2013.01)**
[25] EN
[54] **PROCESSING OF AUDIO SIGNALS DURING HIGH FREQUENCY RECONSTRUCTION**
[54]
[72] KJOERLING, KRISTOFER, SE
[71] DOLBY INTERNATIONAL AB, NL
[22] 2011-07-14
[41] 2012-01-26
[62] 3,087,957
[30] US (61/365518) 2010-07-19
[30] US (61/386725) 2010-09-27

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[21] **3,146,618**
[13] A1
[51] **Int.Cl. C01D 7/00 (2006.01) C01B 32/60 (2017.01) C01D 7/12 (2006.01) C01D 7/38 (2006.01) C01F 11/18 (2006.01)**
[25] EN
[54] **A PROCESS FOR PREPARING CHEMICALLY MODIFIED BICARBONATE SALT PARTICLES**
[54]
[72] BHUSHAN, INDU, IN
[72] RAO, VINAY, IN
[72] SHETTY, RAKSHITH, IN
[71] STEERLIFE INDIA PRIVATE LIMITED, IN
[22] 2019-12-20
[41] 2020-06-25
[62] 3,123,787
[30] IN (201841048298) 2018-12-20

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[21] **3,146,623**
[13] A1
[25] EN
[54] **METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING RADIO SIGNALS IN A WIRELESS COMMUNICATION SYSTEM**
[54] **PROCEDE ET APPAREIL D'EMISSION ET DE RECEPTION D'UN SIGNAL SANS FIL DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] YANG, SUCKCHEL, KR
[72] KIM, KIJUN, KR
[72] KIM, SEONWOOK, KR
[72] PARK, CHANGHWAN, KR
[72] AHN, JOONKUI, KR
[72] PARK, HANJUN, KR
[72] HWANG, SEUNGGYE, KR
[71] LG ELECTRONICS INC., KR
[22] 2018-03-08
[41] 2018-09-13
[62] 3,052,414
[30] US (62/468,380) 2017-03-08
[30] US (62/469,546) 2017-03-10
[30] US (62/475,860) 2017-03-23
[30] US (62/501,048) 2017-05-03
[30] US (62/520,562) 2017-06-16
[30] US (62/566,339) 2017-09-30
[30] KR (10-2018-0027207) 2018-03-08

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[21] **3,146,626**
[13] A1
[25] EN
[54] **RAPID-ENTRY FOOTWEAR HAVING A COMPRESSIBLE LATTICE STRUCTURE**
[54] **CHAUSSURE A ENFILAGE RAPIDE AYANT UNE STRUCTURE EN TREILLIS COMPRESSIBLE**
[72] CHENEY, CRAIG, US
[72] HERMANN, STEVEN, US
[71] FAST IP, LLC, US
[22] 2019-12-19
[41] 2020-07-16
[62] 3,114,654
[30] US (62/789,367) 2019-01-07
[30] US (62/935,556) 2019-11-14

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[21] **3,146,627**
[13] A1
[25] EN
[54] **MINIMALLY INVASIVE METHODS FOR SPINAL FACET THERAPY TO ALLEVIATE PAIN AND ASSOCIATED SURGICAL TOOLS, KITS AND INSTRUCTIONAL MEDIA**
[54] **METHODES MINIMALEMENT INVASIVES POUR UNE THERAPIE DE FACETTE VERTEBRALE PERMETTANT DE SOULAGER LA DOULEUR, INSTRUMENTS CHIRURGICAUX, TROUSSES ET SUPPORTS D'ENSEIGNEMENT ASSOCIES**
[72] HAUFE, SCOTT M. W., US
[72] GULLICKSON, ADAM L., US
[72] CARTER, ROBERT D., US
[71] MEDOVEX CORP., US
[22] 2014-04-21
[41] 2014-10-30
[62] 2,938,631
[30] US (61/815,416) 2013-04-24
[30] US (61/977,817) 2014-04-10

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[21] **3,146,636**
[13] A1
[25] EN
[54] **SIMULATED TISSUE STRUCTURE FOR SURGICAL TRAINING**
[54] **STRUCTURE DE TISSU SIMULEE POUR ENTRAINEMENT CHIRURGICAL**
[72] HOKE, ADAM, US
[72] BRESLIN, TRACY, US
[72] HART, CHARLES C., US
[72] BOLANOS, EDUARDO, US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[22] 2012-10-19
[41] 2013-04-25
[62] 2,852,269
[30] US (61/549,838) 2011-10-21

[21] **3,146,641**
[13] A1
[25] EN
[54] **ADAPTER AND DISPENSER WITH ADAPTER**
[54] **ADAPTATEUR ET DISTRIBUTEUR AVEC ADAPTATEUR**
[72] LAIDLER, KEITH, GB
[72] RODD, TIMOTHY, GB
[71] PLASTIPAK BAWT S.A.R.L., LU
[22] 2019-11-06
[41] 2020-05-14
[62] 3,118,731
[30] US (62/756,159) 2018-11-06

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[21] **3,146,667**
[13] A1
[25] EN
[54] **BREATHABLE GAS APPARATUS WITH HUMIDIFIER**
[54]
[72] KENYON, BARTON JOHN, AU
[72] YEE, ARTHUR KIN-WAI, AU
[72] PRIMROSE, ROHAN NEIL, AU
[72] SAADA, JIM, AU
[72] SNOW, JOHN MICHEAL, AU
[72] SAPULA, MAREK TOMASZ, AU
[72] CRUMBLIN, GEOFFREY, AU
[72] TREVOR-WILSON, DUNCAN LOVEL, AU
[72] LITHGOW, PERRY DAVID, AU
[72] VIRR, ALEXANDER, AU
[72] RICHMOND, DONALD ANGUS, AU
[72] MURRAY, ANDREW CHARLES, AU
[72] PAYNE, MARK JOHN, AU
[72] JEHA, SIMONE MARIE, AU
[71] RESMED PTY LTD, AU
[22] 2004-06-21
[41] 2004-12-29
[62] 3,045,674
[30] AU (2003903139) 2003-06-20
[30] AU (2003905136) 2003-09-22
[30] AU (2004901008) 2004-02-27

---

[21] **3,146,669**
[13] A1
[51] **Int.Cl. C12P 7/04 (2006.01) C12N 9/04 (2006.01) C12N 9/10 (2006.01) C12N 9/18 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/54 (2006.01) C12N 15/55 (2006.01) C12N 15/63 (2006.01) C12P 7/02 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING A FATTY ALCOHOL IN A HOST CELL**
[54] **PROCEDES PERMETTANT DE PRODUIRE UN ALCOOL GRAS DANS UNE CELLULE HOTE**
[72] HU, ZHIHAO, US
[71] GENOMATICA, INC., US
[22] 2009-10-07
[41] 2010-06-03
[62] 3,041,892
[30] US (61/109,131) 2008-10-28

---

[21] **3,146,671**
[13] A1
[25] EN
[54] **METHODS AND APPARATUS TO SHARE ONLINE MEDIA IMPRESSIONS DATA**
[54] **PROCEDES ET APPAREIL POUR PARTAGER DES DONNEES D'IMPRESSION MULTIMEDIA EN LIGNE**
[72] SETH, AMIT, US
[72] SHIVAMPET, BRAHMANAND REDDY, US
[71] THE NIELSEN COMPANY (US), LLC, US
[22] 2013-06-11
[41] 2013-12-19
[62] 2,875,210
[30] US (61/658,233) 2012-06-11
[30] US (61/810,235) 2013-04-09
[30] AU (2013204865) 2013-04-12

---

[21] **3,146,692**
[13] A1
[25] EN
[54] **INFILL WELL METHODS FOR HYDROCARBON RECOVERY**
[54] **METHODES DE PUITS INTERCALAIRE POUR LA RECUPERATION D'HYDROCARBURES**
[72] CHAN, RICHARD, CA
[72] GHANNADI, SAHAR, CA
[71] SUNCOR ENERGY INC., CA
[22] 2017-09-25
[41] 2019-03-25
[62] 3,071,806

---

[21] **3,146,727**
[13] A1
[25] EN
[54] **RECOMBINANT NON-PATHOGENIC MAREK'S DISEASE VIRUS CONSTRUCTS ENCODING INFECTIOUS LARYNGOTRACHEITIS VIRUS AND NEWCASTLE DISEASE VIRUS ANTIGENS**
[54] **PRODUITS DE RECOMBINAISON D'UN VIRUS NON PATHOGENE DE LA MALADIE DE MAREK QUI CODENT DES ANTIGENES DU VIRUS INFECTIEUX DE LA LARYNGOTRACHEITE ET DU VIRUS DE LA MALADIE DE NEWCASTL E**
[72] COOK, STEPHANIE, US
[72] MORSEY, MOHAMAD, US
[72] PETERSEN, GARY, US
[72] SONDERMEIJER, PAULUS JACOBUS ANTONIUS, NL
[71] INTERVET INTERNATIONAL B.V., NL
[22] 2012-10-19
[41] 2013-04-25
[62] 2,851,658
[30] US (61/549,844) 2011-10-21

---

[21] **3,146,748**
[13] A1
[25] EN
[54] **ANGULARLY ADJUSTED SPRAY NOZZLE**
[54] **BUSE A JET AJUSTE DE MANIERE ANGULAIRE**
[72] DUONG, HA V., US
[72] MICHAEL, VICKY A., US
[72] JUERGEN, NIES, US
[72] HOYLE, MARK, US
[71] MELNOR, INC., US
[22] 2018-03-21
[41] 2018-09-23
[62] 2,998,798
[30] US (62/475,493) 2017-03-23

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,146,758**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-CD137 ANTIBODIES**
[54] **ANTICORPS ANTI-CD137**
[72] FRYE, CHRISTOPHER CARL, US
[72] KALOS, MICHAEL DEWAIN, US
[72] KOTANIDES, HELEN, US
[72] SANDEFUR, STEPHANIE LYNN, US
[71] ELI LILLY AND COMPANY, US
[22] 2018-07-25
[41] 2019-02-07
[62] 3,071,383
[30] US (62/539,687) 2017-08-01

[21] **3,146,764**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G06Q 50/34 (2012.01) G06N 3/02 (2006.01)**
[25] EN
[54] **FRAUD DETECTION SYSTEM IN CASINO**
[54] **SYSTEME DE DETECTION DE FRAUDE DANS UNE SALLE DE JEU**
[72] SHIGETA, YASUSHI, JP
[71] ANGEL PLAYING CARDS CO., LTD., JP
[22] 2016-08-02
[41] 2017-02-09
[62] 2,994,520
[30] JP (2015-163213) 2015-08-03
[30] JP (2015-206735) 2015-10-01

[21] **3,146,767**
[13] A1
[51] **Int.Cl. G01N 1/18 (2006.01) G01N 1/22 (2006.01)**
[25] EN
[54] **MICROFLUIDIC ASSEMBLIES FOR STUDYING THE EFFECTS OF SPACE TRAVEL ON HUMAN BRAIN CELLS**
[54] **ENSEMBLE MICROFLUIDIQUES POUR ETUDIER LES EFFETS D'UN VOYAGE DANS L'ESPACE SUR LES CELLULES CEREBRALES HUMAINES**
[72] HINOJOSA, CHRISTOPHER DAVID, US
[72] SLIZ, JOSIAH, US
[72] PEDIADITAKIS, IOSIF, US
[72] BARTHAKUR, SONALEE, US
[71] EMULATE, INC., US
[22] 2018-06-14
[41] 2018-12-20
[62] 3,067,384
[30] US (62/519,739) 2017-06-14
[30] US (62/561,465) 2017-09-21
[30] US (62/648,715) 2018-03-27

[21] **3,146,768**
[13] A1
[25] EN
[54] **PROCESSES FOR RECYCLING POLYSTYRENE WASTE**
[54] **PROCEDES DE RECYCLAGE DE DECHETS DE POLYSTYRENE**
[72] COTE, ROLAND, CA
[71] POLYSTYVERT INC., CA
[22] 2018-11-20
[41] 2019-05-23
[62] 3,082,298
[30] US (62/588,805) 2017-11-20

[21] **3,146,879**
[13] A1
[51] **Int.Cl. A61K 8/9789 (2017.01) A61P 17/00 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **TOPICAL SKIN CARE FORMULATIONS COMPRISING PLANT EXTRACTS**
[54] **FORMULATIONS TOPIQUES DE SOINS DE BEAUTE COMPORTANT DES EXTRAITS DE PLANTES**
[72] FLORENCE, TIFFANY, US
[72] GAN, DAVID, US
[72] HINES, MICHELLE, US
[71] MARY KAY INC., US
[22] 2010-08-26
[41] 2011-03-10
[62] 2,969,823
[30] US (61/237,087) 2009-08-26

[21] **3,146,902**
[13] A1
[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/10 (2006.01) A61M 16/12 (2006.01) A61M 16/16 (2006.01)**
[25] EN
[54] **NASAL CANNULA WITH REINFORCING FEATURE**
[54] **CANULE NASALE ET MECANISME DE RENFORCEMENT**
[72] BEURDEN, JASON VAN, NZ
[72] HOBSON, NICHOLAS ALEXANDER, NZ
[72] KORNER, STEVEN CHARLES, NZ
[72] WHITE, CRAIG KARL, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2009-12-01
[41] 2010-06-01
[62] 3,011,836
[30] US (61/118750) 2008-12-01

[21] **3,146,924**
[13] A1
[25] EN
[54] **EFFICIENT COMMUNICATION FOR DEVICES OF A HOME NETWORK**
[54] **COMMUNICATION EFFICACE DESTINEE A DES DISPOSITIFS DANS UN RESEAU DOMESTIQUE**
[72] ERICKSON, GRANT M., US
[72] LOGUE, JAY D., US
[72] BOROSS, CHRISTOPHER A., US
[72] SMITH, ZACHARY B., US
[72] HARDISON, OSBORNE B., US
[72] SCHULTZ, RICHARD J., US
[72] GUJJARU, SUNNY P., US
[72] NEELEY, MATTHEW G., US
[71] GOOGLE LLC, US
[22] 2014-06-23
[41] 2014-12-31
[62] 3,081,957
[30] US (13/926,335) 2013-06-25

[21] **3,146,939**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01)**
[25] EN
[54] **HARD SURFACE DISINFECTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DESINFECTION DE SURFACE DURE**
[72] GARNER, MICHAEL SCOTT, US
[72] SMIGELSKI, THOMAS, US
[72] PUHALLA, DENNIS MATHEW, US
[72] WILSON, SCOTT HAROLD, US
[72] LYSLO, WALDEMAR JOHN, US
[71] SURFACIDE, LLC, US
[22] 2013-01-31
[41] 2013-08-08
[62] 3,077,805
[30] US (61/593,182) 2012-01-31

[21] **3,146,941**
[13] A1
[51] **Int.Cl. G16H 20/00 (2018.01) G16H 20/10 (2018.01) G06F 16/903 (2019.01) A61B 5/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CAPTURING PATIENT FEEDBACK FOR A MEDICAL TREATMENT**
[54] **PROCEDE ET SYSTEME DE CAPTURE DE RETOUR D'INFORMATION DE PATIENT POUR UN TRAITEMENT MEDICAL**
[72] BROCKELMAN, FRANCO, US
[72] KEELING, KEENAN, US
[72] HALL, BRANDEN, US
[71] MOREBETTER, LTD., US
[22] 2018-04-26
[41] 2018-11-01
[62] 3,061,167
[30] US (62/490,240) 2017-04-26

[21] **3,146,947**
[13] A1
[25] EN
[54] **NMR MEASUREMENTS OF GLYCA**
[54] **MESURES DE RMN DE GLYCA**
[72] OTVOS, JAMES D., US
[72] SHALAUROVA, IRINA Y., US
[72] BENNETT, DENNIS W., US
[72] WOLAK-DINSMORE, JUSTYNA E., US
[71] LIPOSCIENCE, INC., US
[22] 2013-05-30
[41] 2013-12-12
[62] 2,874,550
[30] US (61/657,315) 2012-06-08
[30] US (61/711,471) 2012-10-09
[30] US (61/739,305) 2012-12-19
[30] US (13/830,199) 2013-03-14

[21] **3,146,949**
[13] A1
[25] EN
[54] **METHOD OF ENGRAFTING CELLS FROM SOLID TISSUES**
[54] **PROCEDE DE GREFFAGE DE CELLULES A PARTIR DE TISSUS SOLIDES**
[72] TURNER, RACHAEL, US
[72] GERBER, DAVID, US
[72] LOZOYA, OSWALDO, US
[72] REID, LOLA M., US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[22] 2011-05-06
[41] 2011-11-10
[62] 2,798,458
[30] US (61/332,441) 2010-05-07

[21] **3,146,951**
[13] A1
[25] EN
[54] **POWERED FASTENER DRIVER AND OPERATING METHOD THEREOF**
[54] **DISPOSITIF D'ENTRAINEMENT D'ATTACHE MOTORISE ET SON PROCEDE DE FONCTIONNEMENT**
[72] SCHNELL, JOHN, US
[72] POMEROY, EDWARD A., US
[72] NAMOUZ, ESSAM, US
[72] JOHNSON, HENRY, US
[72] LIU, JIE, CN
[72] LIN, HAILING, CN
[72] ZHOU, JINLIN, CN
[72] LI, XINGHONG, CN
[72] CAO, ZIQIANG, CN
[72] MA, LIGUO, CN
[71] TECHTRONIC POWER TOOLS TECHNOLOGY LIMITED, VG
[22] 2014-05-15
[41] 2015-10-01
[62] 2,943,806
[30] US (61/970,963) 2014-03-27

[21] **3,146,952**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR THE SPECIFIC INHIBITION OF BETA-CATENIN BY DOUBLE-STRANDED RNA**
[54] **PROCEDES ET COMPOSITIONS POUR L'INHIBITION SPECIFIQUE DE BETA-CATENINE PAR ARN DOUBLE BRIN**
[72] BROWN, BOB DALE, US
[72] DUDEK, HENRYK T., US
[71] DICERNA PHARMACEUTICALS, INC., US
[22] 2011-07-01
[41] 2012-01-12
[62] 2,804,214
[30] US (61/361,776) 2010-07-06

---

[21] **3,146,962**
[13] A1
[25] EN
[54] **TREATMENT OF ANGIOGENESIS DISORDERS**
[54] **TRAITEMENT DE TROUBLES D'ANGIOGENESE**
[72] TAVAZOIE, SOHAIL, US
[72] HALBERG, NILS, US
[72] PNG, KIM, US
[71] THE ROCKEFELLER UNIVERSITY, US
[22] 2012-02-10
[41] 2012-08-16
[62] 2,841,404
[30] US (61/441,738) 2011-02-11

---

[21] **3,146,993**
[13] A1
[51] **Int.Cl. B63B 17/02 (2006.01) E04F 10/00 (2006.01) F16B 7/14 (2006.01) F16C 11/10 (2006.01)**
[25] EN
[54] **ARTICULATED TOP**
[54] **DESSUS ARTICULE**
[72] HOUGH, JUSTIN B., US
[71] DOWCO, INC., US
[22] 2016-11-15
[41] 2018-05-09
[62] 2,948,745
[30] US (15/347,479) 2016-11-09

---

[21] **3,147,003**
[13] A1
[25] EN
[54] **POLYMORPHS OF METHYL (E)-2-{2-[6-(2-CYANOPHENOXY) PYRIMIDIN-4-YLOXY]PHENYL}-3-METHOXYACRYLATE**
[54] **POLYMORPHES DE 3-(E)-2-{2-[6-(2-CYANOPHENOXY) PYRIMIDIN-4-YLOXY]PHENYL}-3-METHOXYACRYLATE**
[72] FAKTOROVITCH, INNA, IL
[72] ZAMIR, SHARONA, IL
[71] ADAMA MAKHTESHIM LTD., IL
[22] 2008-01-16
[41] 2008-08-07
[62] 2,677,058
[30] IL (181125) 2007-02-01

---

[21] **3,147,030**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G06Q 50/34 (2012.01)**
[25] EN
[54] **SYSTEM FOR PROVIDING BETS REGARDING INTERMEDIATE POINTS IN A RACE EVENT USING FRACTIONAL TIMING**
[54] **SYSTEME DE PARIS CONCERNANT DES POINTS INTERMEDIAIRES DANS UN EVENEMENT COURSE PAR CHRONOMETRAGE FRACTIONNAIRE**
[72] AMAITIS, LEE M., GB
[72] ASHER, JOSEPH M., US
[72] MILLER, KENNETH L., US
[72] ROTONDO, PETER C., US
[71] CFPH, LLC, US
[22] 2006-05-17
[41] 2006-11-23
[62] 2,607,423
[30] US (60/682,521) 2005-05-18
[30] US (11/201,830) 2005-08-10

---

[21] **3,147,051**
[13] A1
[25] EN
[54] **MODULAR EXTRUDER**
[54] **EXTRUDEUSE MODULAIRE**
[72] CONRAD, WAYNE ERNEST, CA
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA
[22] 2020-03-24
[41] 2020-10-01
[62] 3,134,624
[30] US (16/366,867) 2019-03-27
[30] US (16/366,840) 2019-03-27
[30] US (16/366,782) 2019-03-27

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[21] **3,147,112**
[13] A1
[25] EN
[54] **ENDOCRINE PRECURSOR CELLS, PANCREATIC HORMONE-EXPRESSING CELLS AND METHODS OF PRODUCTION**
[54] **CELLULES PRECURSEURS ENDOCRINES, CELLULES EXPRIMANT DES HORMONES PANCREATIQUES ET PROCEDES DE PRODUCTIONS ASSOCIES**
[72] D'AMOUR, KEVIN, US
[72] CARPENTER, MELISSA, US
[72] BANG, ANNE, US
[72] MOORMAN, MARK, US
[72] KELLY, OLIVIA G., US
[72] BAETGE, EMMANUEL E., US
[71] VIACYTE, INC., US
[22] 2007-03-02
[41] 2007-09-13
[62] 2,644,468
[30] US (60/778,649) 2006-03-02
[30] US (60/833,633) 2006-07-26
[30] US (60/852,878) 2006-10-18

---

[21] **3,147,229**
[13] A1
[25] EN
[54] **MULTIPLE-FIRING CRIMP DEVICE**
[54] **DISPOSITIF DE SERTISSAGE A DECLENCHEMENT MULTIPLE**
[72] SMITH, KEVIN W., US
[72] MENDEZ, MAX PIERRE, US
[72] PALMER, MATTHEW A., US
[72] MCBRAYER, M. SEAN, US
[72] DEVILLE, DEREK DEE, US
[72] CARTLEDGE, RICHARD, US
[72] KLINE, KOREY, US
[72] RIVERA, CARLOS, US
[72] NUNEZ, GEORGE, US
[72] BALES, THOMAS O., JR., US
[71] EDWARDS LIFESCIENCES AG, FR
[22] 2014-11-18
[41] 2015-05-21
[62] 2,934,307
[30] US (61/905,578) 2013-11-18
[30] US (61/951,162) 2014-03-11
[30] US (62/069,183) 2014-10-27
[30] US (14/543,240) 2014-11-17

[21] **3,147,251**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR LOWERING BLOOD PRESSURE THROUGH REDUCTION OF VENTRICLE FILLING**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE REDUIRE LA PRESSION ARTERIELLE PAR REDUCTION DU REMPLISSAGE VENTRICULAIRE**
[72] MIKA, YUVAL, US
[72] SHERMAN, DARREN, US
[72] SCHWARTZ, ROBERT S., US
[72] VAN TASSEL, ROBERT A., US
[72] BURKHOFF, DANIEL, US
[71] BACKBEAT MEDICAL, INC., US
[22] 2013-12-19
[41] 2014-06-26
[62] 2,893,222
[30] US (61/740,977) 2012-12-21
[30] US (13/826,215) 2013-03-14

[21] **3,147,259**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C07H 21/00 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **HIGH EFFICIENCY, SMALL VOLUME NUCLEIC ACID SYNTHESIS**
[54] **SYNTHESE HAUTEMENT EFFICACE DE PETITS VOLUMES D'ACIDES NUCLEIQUES**
[72] POEHMERER, THOMAS, DE
[72] KUHN, PHILLIP, DE
[72] NOTKA, FRANK, DE
[72] ZEIDLER, ANDREAS, DE
[72] HEIL, KORBINIAN, DE
[72] TREFZER, AXEL, DE
[72] FONNUM, GEIR, DE
[72] KATZEN, FEDERICO, DE
[72] ANDERSSON, KRISTIAN, DE
[72] LIANG, XIQUAN, DE
[71] LIFE TECHNOLOGIES CORPORATION, US
[71] THERMO FISHER SCIENTIFIC GENEART GMBH, DE
[71] LIFE TECHNOLOGIES AS, NO
[22] 2015-12-09
[41] 2016-06-16
[62] 2,970,477
[30] US (62/089,590) 2014-12-09
[30] US (62/145,359) 2015-04-09

[21] **3,147,440**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING FLAME EFFECT**
[54] **SYSTEME ET PROCEDE POUR PRODUIRE UN EFFET DE FLAMME**
[72] BLUM, STEVEN C., US
[72] CLARK, BENJAMIN ROBERT, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[22] 2015-04-08
[41] 2015-10-29
[62] 2,946,540
[30] US (14/258,981) 2014-04-22

Index of Canadian Patents Issued

February 22, 2022

Index des brevets canadiens délivrés

22 février 2022

Index of Canadian Patents Issued
February 22, 2022

Index des brevets canadiens délivrés
22 février 2022

Index of Canadian Patents Issued
February 22, 2022

Index des brevets canadiens délivrés
22 février 2022

Index of Canadian Patents Issued
February 22, 2022

Index of Canadian Applications Open to Public Inspection

February 6, 2022 to February 12, 2022

Index des demandes canadiennes mises à la disponibilité du public

6 février 2022 au 12 février 2022

Index des demandes canadiennes mises à la disponibilité du public
6 février 2022 au 12 février 2022

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 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 des demandes PCT entrant en phase nationale

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 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

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant