Canadian Intellectual Property Office
An Agency of Industry Canada

Office de la propriété intellectuelle du Canada
Un organisme d'Industrie Canada

ISSN-1712-4034

The Patent Office Record

La Gazette du Bureau des brevets

Vol. 148 No. 37 September 15, 2020 Vol. 148 No. 37 le 15 septembre 2020

Canada

CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

Johanne Bélisle
Commissioner of Patents

Johanne Bélisle
Commissaire aux 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:

2,781,496
2,867,778
2,953,066

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 :

2,781,496
2,867,778
2,953,066

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

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

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

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.

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

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

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

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

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

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

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

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

Marques de commerce

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

8. Intellectual property acts, rules and regulations

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of September 15, 2020 contains applications open to public inspection from August 30, 2020 to September 5, 2020.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 15 septembre 2020 contient les demandes disponibles au public pour consultation pour la période du 30 août 2020 au 5 septembre 2020.

16. Erratum

All information respecting patent application number 3,083,700 referred to under the section *PCT Applications Entering the National Phase* contained in the July 28, 2020 issue of the *Canadian Patent Office Record* was erroneously published and should be disregarded.

16. Erratum

Toutes les informations relatives à la demande de brevet 3,083,700 dans la liste *des Demandes PCT entrant en phase nationale* contenues dans le numéro 28 juillet 2020 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

Canadian Patents Issued

September 15, 2020

Brevets canadiens délivrés

15 septembre 2020

---

[11] **2,609,593**
[13] C
[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01) C12N 15/63 (2006.01) C12P 21/08 (2006.01) G01N 33/53 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **ANTI-CD16 BINDING MOLECULES**
[54] **MOLECULES DE LIAISON ANTI-CD16**
[72] HOFFMANN, KARIN, DE
[72] KIPRIJANOV, SERGEJ, DE
[72] KNACKMUSS, STEFAN HANS JOACHIM, DE
[72] LE GALL, FABRICE, DE
[72] LITTLE, MELVYN, DE
[72] REUSCH, UWE, DE
[73] AFFIMED GMBH, DE
[85] 2007-11-23
[86] 2006-05-26 (PCT/EP2006/005057)
[87] (WO2006/125668)
[30] GB (0510790.9) 2005-05-26

---

[11] **2,650,963**
[13] C
[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/68 (2006.01) C07K 14/58 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **ST2 AS A CARDIOVASCULAR DISEASE MARKER FOR HIGH-BMI OR IMPAIRED RENAL FUNCTION PATIENTS**
[54] **ST2 EN TANT QUE MARQUEUR DE MALADIE CARDIOVASCULAIRE CHEZ DES PATIENTS PRESENTANT UN IMC ELEVE OU UNE FONCTION RENALE ALTEREE**
[72] SNIDER, JAMES V., US
[72] JACOBSON, SVEN, US
[73] CRITICAL CARE DIAGNOSTICS, INC., US
[85] 2008-10-31
[86] 2007-05-01 (PCT/US2007/067914)
[87] (WO2007/130962)
[30] US (60/796,912) 2006-05-01

---

[11] **2,725,750**
[13] C
[51] **Int.Cl. A61B 18/08 (2006.01) A61F 7/12 (2006.01)**
[25] EN
[54] **BALLOON CATHETER SYSTEMS AND METHODS FOR TREATING UTERINE DISORDERS**
[54] **SYSTEMES DE CATHETER A BALLONNET ET PROCEDE DE TRAITEMENT DES TROUBLES UTERINS**
[72] NGUYEN, STEVEN, US
[72] PODANY, VACLAV O., US
[73] ETHICON, INC., US
[85] 2010-11-24
[86] 2009-06-05 (PCT/US2009/046360)
[87] (WO2009/149321)
[30] US (12/134,265) 2008-06-06

---

[11] **2,735,591**
[13] C
[51] **Int.Cl. H04N 21/45 (2011.01) H04N 21/47 (2011.01) H04N 13/128 (2018.01) H04N 13/359 (2018.01) H04L 29/06 (2006.01)**
[25] EN
[54] **STREAMING AND RENDERING OF 3-DIMENSIONAL VIDEO**
[54] **COMPRESSION ET RENDU DE LA VIDEO TRIDIMENSIONNELLE**
[72] FRANCISCO, MARK, DAVID, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (2735591)
[87] (2735591)
[22] 2011-04-01
[30] US (12/755,382) 2010-04-06

---

[11] **2,745,012**
[13] C
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 31/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTITUMOR COMBINATIONS CONTAINING ANTIBODIES RECOGNIZING SPECIFICALLY CD38 AND CYCLOPHOSPHAMIDE**
[54] **ASSOCIATIONS ANTITUMORALES CONTENANT DES ANTICORPS RECONNAISSANT SPECIFIQUEMENT CD38 ET DU CYCLOPHOSPHAMIDE**
[72] LEJEUNE, PASCALE, FR
[72] VRIGNAUD, PATRICIA, FR
[73] SANOFI, FR
[85] 2011-05-26
[86] 2009-11-27 (PCT/IB2009/055392)
[87] (WO2010/061360)
[30] EP (08291119.9) 2008-11-28

---

[11] **2,752,792**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61H 39/02 (2006.01) G09B 23/28 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DIAGNOSIS AND TREATMENT OF A DEFINED CONDITION, AND METHODS FOR OPERATING SUCH SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE DIAGNOSTIC ET DE TRAITEMENT D'UN ETAT PATHOLOGIQUE DEFINI, ET PROCEDES D'EXPLOITATION DESDITS SYSTEMES**
[72] ROTH, RA'ANAN, IL
[73] S.M BALANCE HOLDINGS, IL
[85] 2011-08-17
[86] 2010-02-18 (PCT/IL2010/000143)
[87] (WO2010/095134)
[30] US (61/202,335) 2009-02-19

[11] **2,753,466**
[13] C
[51] **Int.Cl. A23D 7/00 (2006.01) A23D 7/005 (2006.01) A23D 7/015 (2006.01)**
[25] EN
[54] **CONDIMENT COMPRISING A POTATO PROTEIN PROTEASE INHIBITOR ISOLATE**
[54] **CONDIMENT RENFERMANT UN ISOLAT INHIBITEUR DE PROTEASE DE PROTEINE DE POMME DE TERRE**
[72] GIUSEPPIN, MARCO LUIGI FEDERICO, NL
[72] VAN NIEUWENHUIJZEN, NELLY HERMINA, NL
[72] TROMP, ROBERT HANS, NL
[73] COOPERATIE AVEBE U.A., NL
[85] 2011-08-24
[86] 2010-02-24 (PCT/NL2010/050094)
[87] (WO2010/098663)
[30] EP (09153677.1) 2009-02-25
[30] EP (09173129.9) 2009-10-15

[11] **2,755,731**
[13] C
[51] **Int.Cl. G16H 50/20 (2018.01) A61B 5/0402 (2006.01)**
[25] EN
[54] **MEDICAL APPARATUS**
[54] **APPAREIL MEDICAL**
[72] DRYSDALE, IAN GEORGE MOIR, GB
[72] WILLIAMS, DAVID MORRIS, GB
[73] DANMEDICAL LTD, GB
[85] 2011-09-16
[86] 2010-03-26 (PCT/GB2010/000564)
[87] (WO2010/112815)
[30] GB (0905377.8) 2009-03-30

[11] **2,759,291**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **MULTIPLE VIRUS RESISTANCE IN TRANSGENIC TOMATO PLANTS**
[54] **RESISTANCE MULTI VIRUS DANS LES PLANTS DE TOMATE TRANSGENIQUES**
[72] HUANG, SHIHSHIEH, US
[72] FLASINSKI, STANISLAW, US
[72] FRIZZI, ALESSANDRA, US
[72] GABOR, BRAD, US
[72] HAGEN, CHARLES, US
[72] KAO, JOHN, US
[72] SALATI, RAQUEL, US
[73] MONSANTO TECHNOLOGY LLC, US
[85] 2011-10-19
[86] 2010-04-20 (PCT/US2010/031757)
[87] (WO2010/123904)
[30] US (61/171,021) 2009-04-20

[11] **2,760,456**
[13] C
[51] **Int.Cl. E03C 1/04 (2006.01) A47K 3/00 (2006.01) E03C 1/24 (2006.01)**
[25] EN
[54] **PLUMBING FIXTURE AND ACCESSORY EQUIPMENT CONCEALING MODULE**
[54] **MODULE DE DISSIMULATION D'APPAREIL SANITAIRE ET D'EQUIPEMENT ACCESSOIRE DE PLOMBERIE**
[72] BRUNELLE, HENRY, CA
[72] GENDREAU, LOUIS, CA
[73] GESTION ULTRA INTERNATIONALE INC., CA
[86] (2760456)
[87] (2760456)
[22] 2011-12-02

[11] **2,764,456**
[13] C
[51] **Int.Cl. C12N 15/11 (2006.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01) C07H 21/00 (2006.01) C07H 21/02 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **OLIGONUCLEOTIDE DUPLEXES COMPRISING DNA-LIKE AND RNA-LIKE NUCLEOTIDES AND USES THEREOF**
[54] **DUPLEX OLIGONUCLEOTIDIQUES COMPRENANT DES NUCLEOTIDES DE TYPE ADN ET DE TYPE ARN ET LEURS UTILISATIONS**
[72] WATTS, JONATHAN K., US
[72] DELEAVEY, GLEN, CA
[72] DAMHA, MASAD J., CA
[73] PALADIN LABS INC., CA
[85] 2011-12-02
[86] 2009-06-05 (PCT/CA2009/000789)
[87] (WO2009/146556)
[30] US (61/059,186) 2008-06-05
[30] CA (2,635,187) 2008-06-17
[30] CA (PCT/CA2008/002259) 2008-12-19

[11] **2,765,108**
[13] C
[51] **Int.Cl. C12N 15/62 (2006.01) A61K 38/17 (2006.01) A61P 3/00 (2006.01) A61P 21/06 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01)**
[25] EN
[54] **TRUNCATED ACTRIIB-FC FUSION PROTEINS**
[54] **PROTEINES DE FUSION ACTRIIB-FC TRONQUEES**
[72] SEEHRA, JASBIR, US
[72] KUMAR, RAVINDRA, US
[73] ACCELERON PHARMA INC., US
[85] 2011-12-09
[86] 2010-06-08 (PCT/US2010/037787)
[87] (WO2010/151426)
[30] US (61/268420) 2009-06-12
[30] US (61/280543) 2009-11-03

[11] **2,768,573**
[13] C
[51] **Int.Cl. C12N 5/071 (2010.01) C12Q 1/04 (2006.01)**
[25] EN
[54] **A METHOD FOR CONSTRUCTING A CELL BANK AND A METHOD FOR DRUG DISCOVERY**
[54] **UNE METHODE DE CONSTRUCTION D'UNE BANQUE DE CELLULES ET UNE METHODE DE DECOUVERTE DE MEDICAMENT**
[72] VAN'T HOF, WOUTER, US
[73] ABT HOLDING COMPANY, US
[85] 2012-01-18
[86] 2010-07-21 (PCT/US2010/042690)
[87] (WO2011/011477)
[30] US (61/227,311) 2009-07-21

[11] **2,770,939**
[13] C
[51] **Int.Cl. A61M 5/20 (2006.01)**
[25] EN
[54] **MEDICINAL BIOSECURITY AUTO DISPOSABLE SYRINGE**
[54] **SERINGUE MEDICALE AUTO-JETABLE DE BIOSECURITE**
[72] POVEDA ESTEPA, LUIS ENRIQUE, ES
[73] POVEDA ESTEPA, LUIS ENRIQUE, ES
[85] 2012-02-10
[86] 2010-06-16 (PCT/ES2010/070401)
[87] (WO2011/018539)
[30] ES (U 200930368) 2009-08-13

[11] **2,771,174**
[13] C
[51] **Int.Cl. H04W 4/16 (2009.01) H04M 3/436 (2006.01)**
[25] EN
[54] **USER-SELECTABLE ENVIRONMENTS FOR MOBILE COMMUNICATIONS DEVICES**
[54] **ENVIRONNEMENTS POUR DISPOSITIFS DE COMMUNICATION DU SERVICE MOBILE SELECTIONNABLES PAR L'UTILISATEUR**
[72] FLYNN, DONNA K., US
[72] LOVEJOY, TRACEY N., US
[72] MEDLOCK, MICHAEL C., US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2012-02-14
[86] 2010-08-28 (PCT/US2010/047058)
[87] (WO2011/037722)
[30] US (12/564,450) 2009-09-22

[11] **2,773,073**
[13] C
[51] **Int.Cl. G01N 19/06 (2006.01) B82Y 40/00 (2011.01) A61L 2/28 (2006.01) G01T 1/02 (2006.01)**
[25] EN
[54] **MONITORING DEVICES AND PROCESSES BASED ON TRANSFORMATION, DESTRUCTION AND CONVERSION OF NANOSTRUCTURES**
[54] **DISPOSITIFS ET PROCESSUS DE CONTROLE BASES SUR LA TRANSFORMATION, LA DESTRUCTION ET LA CONVERSION DE NANOSTRUCTURES**
[72] PATEL, GORDHANBHAI, US
[73] JP LABORATORIES, INC., US
[85] 2012-03-02
[86] 2010-09-10 (PCT/US2010/048417)
[87] (WO2011/031959)
[30] US (61/276,349) 2009-09-11

[11] ***2,781,496**
[13] C
[51] **Int.Cl. G06F 9/455 (2018.01)**
[25] EN
[54] **PORTING VIRTUAL MACHINE IMAGES BETWEEN PLATFORMS**
[54] **PORTAGE D'IMAGES DE MACHINE VIRTUELLE ENTRE PLATES-FORMES**
[72] PODDAR, INDRAJIT, US
[72] SUKHAREV, IGOR, RU
[72] MIROSHKIN, ALEXEY, RU
[72] PONOMAREV, VLADISLAV BORISOVICH, RU
[72] GAPONENKO, YULIA, RU
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2012-05-18
[86] 2010-12-14 (PCT/EP2010/069569)
[87] (WO2011/080063)
[30] US (12/651,277) 2009-12-31

[11] **2,786,118**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6858 (2018.01) C12Q 1/686 (2018.01) C12P 19/34 (2006.01)**
[25] EN
[54] **METHODS FOR PCR AND HLA TYPING USING RAW BLOOD**
[54] **METHODES S'APPLIQUANT A LA PCR ET AU TYPAGE HLA AU MOYEN DE SANG BRUT**
[72] HOGAN, MICHAEL E., US
[72] PADILLA, GEORGINA LOPEZ, US
[72] MAY, MELISSA R., US
[72] ABALOS, ANDREW T., US
[72] EGGERS, FREDERICK H., US
[72] O'BRIEN, KEVIN M., US
[73] GENOMICS USA, INC., US
[85] 2012-06-29
[86] 2010-11-16 (PCT/US2010/002981)
[87] (WO2011/059508)
[30] US (61/281,404) 2009-11-16
[30] US (12/924,301) 2010-09-24

[11] **2,789,044**
[13] C
[51] **Int.Cl. C07D 237/14 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR SYNTHESIZING IMAGING AGENTS, AND INTERMEDIATES THEREOF**
[54] **PROCEDES ET APPAREIL POUR EFFECTUER LA SYNTHESE D'AGENTS D'IMAGERIE ET LEURS INTERMEDIAIRES**
[72] CESATI, RICHARD R., US
[72] CHEESMAN, EDWARD H., US
[72] LAZEWATSKY, JOEL, US
[72] RADEKE, HEIKE S., US
[72] CASTNER, JAMES F., US
[72] MONGEAU, ENRICO, US
[72] ZDANKIEWICZ, DIANNE D., US
[72] SIEGLER, ROBERT WILBURN, US
[72] DEVINE, MARYBETH, US
[73] LANTHEUS MEDICAL IMAGING, INC., US
[85] 2012-08-03
[86] 2011-02-08 (PCT/US2011/024109)
[87] (WO2011/097649)
[30] US (61/302,477) 2010-02-08
[30] US (61/315,376) 2010-03-18
[30] US (61/333,693) 2010-05-11

[11] **2,790,825**
[13] C
[51] **Int.Cl. C10L 3/10 (2006.01)**
[25] EN
[54] **METHOD FOR TURNDOWN OF A LIQUEFIED NATURAL GAS (LNG) PLANT**
[54] **PROCEDE DE MISE AU RALENTI D'UNE INSTALLATION DE GAZ NATUREL LIQUEFIE (GNL)**
[72] VIST, SIVERT, NO
[72] LOELAND, TORE, NO
[72] SVENNING, MORTEN, NO
[72] GYLSETH, SILJA ERIKSSON, NO
[73] EQUINOR ENERGY AS, NO
[85] 2012-08-22
[86] 2011-02-25 (PCT/EP2011/052842)
[87] (WO2011/104359)
[30] NO (20100285) 2010-02-26

[11] **2,792,385**
[13] C
[51] **Int.Cl. G01N 35/10 (2006.01) G01N 35/02 (2006.01)**
[25] EN
[54] **AN APPARATUS FOR GRIPPING AND HOLDING DIAGNOSTIC CASSETTES**
[54] **UN APPAREIL POUR SAISIR ET MAINTENIR DES CASSETTES DE DIAGNOSTIC**
[72] JONES, ROBERT S., US
[72] WILLETT, LYNN J., US
[73] ORTHO-CLINICAL DIAGNOSTICS, INC., US
[86] (2792385)
[87] (2792385)
[22] 2012-10-10
[30] US (61/545,651) 2011-10-11

[11] **2,794,151**
[13] C
[51] **Int.Cl. G06F 30/10 (2020.01)**
[25] EN
[54] **DESIGNING A MODELED VOLUME REPRESENTED BY DEXELS**
[54] **CONCEPTION D'UN VOLUME MODELISE REPRESENTE EN DEXELS**
[72] MONTANA, NICOLAS, FR
[72] MONTEIL, MARC, FR
[72] NOSENZO, ROMAIN, FR
[72] LIEUTIER, ANDRE, FR
[73] DASSAULT SYSTEMES, FR
[86] (2794151)
[87] (2794151)
[22] 2012-11-01
[30] EP (11306422.4) 2011-11-03

[11] **2,795,384**
[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **UPLINK SOUNDING REFERENCE SIGNALS CONFIGURATION AND TRANSMISSION**
[54] **CONFIGURATION ET TRANSMISSION DE SIGNAUX DE REFERENCE DE SONDAGE DE LIAISON MONTANTE**
[72] KOO, CHANGSOO, US
[72] WANG, PETER S., US
[72] SHIN, SUNG-HYUK, US
[72] HAIM, JOHN W., US
[72] DICK, STEPHEN G., US
[72] BELURI, MIHAELA C., US
[72] STERN-BERKOWITZ, JANET A., US
[73] INTERDIGITAL PATENT HOLDINGS, INC., US
[85] 2012-10-02
[86] 2011-04-01 (PCT/US2011/030982)
[87] (WO2011/123805)
[30] US (61/320,576) 2010-04-02
[30] US (61/330,158) 2010-04-30
[30] US (61/388,992) 2010-10-01

[11] **2,797,535**
[13] C
[51] **Int.Cl. B62D 55/24 (2006.01) B62D 55/07 (2006.01)**
[25] EN
[54] **TRACK SYSTEM FOR TRACTION OF AN OFF-ROAD VEHICLE SUCH AS A SNOWMOBILE OR AN ALL-TERRAIN VEHICLE (ATV)**
[54] **SYSTEME DE TRACTION POUR VEHICULE HORS ROUTE COMME UNE MOTONEIGE OU UN VEHICULE TOUT TERRAIN (VTT)**
[72] DANDURAND, JULES, CA
[72] COURTEMANCHE, DENIS, CA
[72] LABBE, PASCAL, CA
[72] POULIN, LINDA, CA
[73] CAMSO INC., CA
[86] (2797535)
[87] (2797535)
[22] 2012-11-29
[30] US (61/564,630) 2011-11-29

[11] **2,798,301**
[13] C
[51] **Int.Cl. A61K 38/08 (2019.01) A61K 38/53 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) C07K 16/40 (2006.01) C12N 5/10 (2006.01) C12N 9/00 (2006.01) C12N 15/52 (2006.01)**
[25] EN
[54] **INNOVATIVE DISCOVERY OF THERAPEUTIC, DIAGNOSTIC, AND ANTIBODY COMPOSITIONS RELATED TO PROTEIN FRAGMENTS OF GLUTAMYL-PROLYL-TRNA SYNTHETASES**
[54] **DECOUVERTE INNOVANTE DE COMPOSITIONS THERAPEUTIQUES, DIAGNOSTIQUES ET A BASE D'ANTICORPS LIEES A DES FRAGMENTS PROTEIQUES DE GLUTAMYL-PROLYL-ARNT-SYNTHETASES**
[72] GREENE, LESLIE ANN, US
[72] CHIANG, KYLE P., US
[72] HONG, FEI, US
[72] VASSEROT, ALAIN P., US
[72] LO, WING-SZE, CN
[72] WATKINS, JEFFRY D., US
[72] MENDLEIN, JOHN D., US
[72] QUINN, CHERYL L., US
[73] ATYR PHARMA, INC., US
[73] PANGU BIOPHARMA LIMITED, CN
[85] 2012-11-01
[86] 2011-05-04 (PCT/US2011/035250)
[87] (WO2011/140266)
[30] US (61/331,084) 2010-05-04
[30] US (61/331,265) 2010-05-04
[30] US (61/331,280) 2010-05-04

[11] **2,798,355**
[13] C
[51] **Int.Cl. C07K 14/31 (2006.01) A61K 38/16 (2006.01) A61P 31/04 (2006.01) G01N 33/567 (2006.01)**
[25] EN
[54] **STAPHYLOCOCCUS AUREUS LEUKOCIDINS, THERAPEUTIC COMPOSITIONS, AND USES THEREOF**
[54] **LEUCOCIDINES DE STAPHYLOCOCCUS AUREUS, COMPOSITIONS THERAPEUTIQUES ET LEURS UTILISATIONS**
[72] TORRES, VICTOR J., US
[72] DUMONT, ASHLEY L., US
[73] NEW YORK UNIVERSITY, US
[85] 2012-11-02
[86] 2011-05-05 (PCT/US2011/035354)
[87] (WO2011/140337)
[30] US (61/331,550) 2010-05-05

[11] **2,800,079**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **MACROCYCLIC COMPOUNDS AS TRK KINASE INHIBITORS**
[54] **COMPOSES MACROCYCLIQUES EN TANT QU'INHIBITEURS DE KINASE TRK**
[72] ANDREWS, STEVEN WADE, US
[72] CONDROSKI, KEVIN RONALD, US
[72] HAAS, JULIA, US
[72] JIANG, YUTONG, US
[72] KOLAKOWSKI, GABRIELLE R., US
[72] SEO, JEONGBEOB, US
[72] YANG, HONG-WOON, US
[72] ZHAO, QIAN, US
[73] ARRAY BIOPHARMA INC., US
[85] 2012-11-20
[86] 2011-05-13 (PCT/US2011/036452)
[87] (WO2011/146336)
[30] US (61/346,767) 2010-05-20
[30] US (61/426,716) 2010-12-23

[11] **2,800,401**
[13] C
[51] **Int.Cl. C07C 229/12 (2006.01) A61K 9/14 (2006.01) A61K 47/44 (2017.01) C07H 21/00 (2006.01) C07J 41/00 (2006.01) C12N 5/10 (2006.01) C12N 15/11 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **BIODEGRADABLE LIPIDS FOR THE DELIVERY OF ACTIVE AGENTS**
[54] **LIPIDES BIODEGRADABLES POUR L'ADMINISTRATION DE PRINCIPES ACTIFS**
[72] MANOHARAN, MUTHIAH, US
[72] MAIER, MARTIN, US
[72] JAYARAMAN, MUTHUSAMY, US
[72] MATSUDA, SHIGEO, US
[72] JAYAPRAKASH, NARAYANANNAIR K., US
[72] RAJEEV, KALLANTHOTTATHIL G., US
[72] AKINC, AKIN, US
[72] BAILLIE, THOMAS A., US
[73] ALNYLAM PHARMACEUTICALS, INC., US
[85] 2012-11-19
[86] 2011-06-03 (PCT/US2011/039164)
[87] (WO2011/153493)
[30] US (61/351,146) 2010-06-03
[30] US (61/489,197) 2011-05-23

[11] **2,807,609**
[13] C
[51] **Int.Cl. B65H 29/40 (2006.01) B65B 25/14 (2006.01) B65G 51/00 (2006.01) B65H 31/06 (2006.01) B65H 31/24 (2006.01) B65H 31/30 (2006.01) B65H 33/18 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR FEEDING STACKS OF TISSUES OR SIMILAR FOLDED PRODUCTS TO AN AUTOMATIC PACKAGING SYSTEM**
[54] **APPAREIL ET PROCEDE DE FOURNITURE DE PILES DE MOUCHOIRS EN PAPIER OU DE PRODUITS PLIES SIMILAIRES A UN SYSTEME D'EMBALLAGE AUTOMATIQUE**
[72] TOMMASI, RENZO, IT
[73] RENT S.R.L., IT
[85] 2013-02-06
[86] 2011-08-09 (PCT/IB2011/053548)
[87] (WO2012/020374)
[30] IT (FI2010A000177) 2010-08-10

[11] **2,811,047**
[13] C
[51] **Int.Cl. D21H 17/06 (2006.01) D21H 17/17 (2006.01) D21H 17/53 (2006.01) D21H 17/55 (2006.01) D21H 17/59 (2006.01) D21H 17/60 (2006.01) D21H 19/32 (2006.01) D21H 21/16 (2006.01)**
[25] EN
[54] **METHOD OF APPLYING FUGITIVE HYDROPHOBIC TREATMENT TO TISSUE PRODUCT**
[54] **METHODE D'APPLICATION DE TRAITEMENT HYDROPHOBE EPHEMERE A UN PRODUIT MOUCHOIR EN PAPIER**
[72] LUU, PHUONG VAN, US
[72] EDWARDS, STEVEN L., US
[72] WHITE, DAVID W., US
[73] GPCP IP HOLDINGS LLC, US
[85] 2013-03-08
[86] 2011-10-25 (PCT/US2011/057620)
[87] (WO2012/061107)
[30] US (61/456,126) 2010-11-01
[30] US (13/279,799) 2011-10-24

[11] **2,812,439**
[13] C
[51] **Int.Cl. G06F 16/951 (2019.01) G06F 16/953 (2019.01) H04L 12/16 (2006.01)**
[25] EN
[54] **BUILDING OF A WEB CORPUS WITH THE HELP OF A REFERENCE WEB CRAWL**
[54] **CREATION D'UN CORPUS WEB A L'AIDE D'UN ROBOT D'INDEXATION DE REFERENCES**
[72] RICHARD, SEBASTIEN, FR
[72] GREHANT, XAVIER, FR
[72] FERENCZI, JIM, FR
[73] DASSAULT SYSTEMES, FR
[86] (2812439)
[87] (2812439)
[22] 2013-04-12
[30] EP (12305432.2) 2012-04-12

[11] **2,814,671**
[13] C
[51] **Int.Cl. C23C 4/08 (2016.01) C23C 4/12 (2016.01)**
[25] EN
[54] **BEARING PART AND THERMAL SPRAY METHOD**
[54] **PARTIE DE SUPPORT ET PROCEDE DE PULVERISATION THERMIQUE**
[72] ERNST, PETER, CH
[72] DISTLER, BERND, CH
[73] OERLIKON METCO AG, WOHLEN, CH
[86] (2814671)
[87] (2814671)
[22] 2013-05-02
[30] EP (12170426.6) 2012-06-01
[30] EP (12171373.9) 2012-06-08

[11] **2,815,181**
[13] C
[51] **Int.Cl. C07K 16/18 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **DKK1 ANTIBODIES AND METHODS OF USE**
[54] **ANTICORPS ANTI-DKK1 ET LEURS PROCEDES D'UTILISATION**
[72] RICHARDS, WILLIAM GLEASON, US
[72] LU, HSIENG SEN, US
[72] KE, HUA ZHU, US
[72] LI, CHAOYANG, US
[72] JACOBSEN, FREDERICK W., US
[73] AMGEN INC., US
[85] 2013-04-17
[86] 2011-10-27 (PCT/US2011/058025)
[87] (WO2012/058393)
[30] US (61/407,128) 2010-10-27

[11] **2,815,691**
[13] C
[51] **Int.Cl. G01N 25/16 (2006.01) H01M 8/0202 (2016.01) H01M 8/04313 (2016.01) G01B 11/00 (2006.01) G01H 5/00 (2006.01) G01N 25/20 (2006.01) G01N 29/07 (2006.01) G01N 29/12 (2006.01)**
[25] EN
[54] **NON-DESTRUCTIVE TESTING METHODS FOR FUEL CELL INTERCONNECT MANUFACTURING**
[54] **PROCEDES DE TEST NON-DESTRUCTIFS POUR FABRICATION D'INTERCONNEXIONS DE PILES A COMBUSTIBLE**
[72] HERCHEN, HARALD, US
[72] BALLANTINE, ARNE, US
[72] JANOUSEK, MARTIN, US
[72] COUSE, STEPHEN, US
[73] BLOOM ENERGY CORPORATION, US
[85] 2013-04-23
[86] 2011-11-29 (PCT/US2011/062328)
[87] (WO2012/074972)
[30] US (61/418,043) 2010-11-30

[11] **2,816,339**
[13] C
[51] **Int.Cl. A61B 34/10 (2016.01) A61B 34/20 (2016.01) A61B 17/17 (2006.01) A61B 17/56 (2006.01)**
[25] EN
[54] **SYSTEM OF PREOPERATIVE PLANNING AND PROVISION OF PATIENT-SPECIFIC SURGICAL AIDS**
[54] **SYSTEME DE PLANIFICATION PREOPERATOIRE ET DE FOURNITURE D'AIDES CHIRURGICALES SPECIFIQUES DU PATIENT**
[72] IANNOTTI, JOSEPH P., US
[72] BARSOUM, WAEL K., US
[72] BRYAN, JASON A., US
[72] O'NEILL, PETER D., US
[73] THE CLEVELAND CLINIC FOUNDATION, US
[85] 2013-04-26
[86] 2011-10-27 (PCT/US2011/057957)
[87] (WO2012/058355)
[30] US (61/408,392) 2010-10-29

[11] **2,816,845**
[13] C
[51] **Int.Cl. C22C 45/02 (2006.01)**
[25] EN
[54] **GLASSY NANO-MATERIALS**
[54] **NANOMATERIAUX VITREUX**
[72] BRANAGAN, DANIEL JAMES, US
[72] MEACHAM, BRIAN E., US
[72] WALLESER, JASON K., US
[72] SERGUEEVA, ALLA V., US
[72] BALL, ANDREW T., US
[72] JUSTICE, GRANT G., US
[73] THE NANOSTEEL COMPANY, INC., US
[85] 2013-05-02
[86] 2011-10-31 (PCT/US2011/058563)
[87] (WO2012/061282)
[30] US (61/409,374) 2010-11-02

[11] **2,818,454**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/9038 (2019.01) G06F 16/904 (2019.01) G06F 3/14 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DISPLAYING DATA ELEMENTS AXES**
[54] **METHODE ET APPAREIL POUR AFFICHER DES AXES D'ELEMENTS DE DONNEES**
[72] AUDET, MATHIEU, CA
[72] CASSISTAT, FRANCOIS, CA
[73] 9224-5489 QUEBEC INC., CA
[86] (2818454)
[87] (2818454)
[22] 2013-06-07
[30] US (61/658,171) 2012-06-11
[30] US (13/804,637) 2013-03-14

[11] **2,819,954**
[13] C
[51] **Int.Cl. H01B 7/17 (2006.01) H01B 3/00 (2006.01) H01B 9/00 (2006.01)**
[25] EN
[54] **ELECTRICAL CABLE RESISTANT TO FIRE, WATER AND MECHANICAL STRESSES**
[54] **CABLE ELECTRIQUE RESISTANT AU FEU, A L'EAU ET AUX CONTRAINTES MECANIQUES**
[72] SCAGLIONE, ANTONIO, IT
[72] SOCCAL, CARLO, IT
[72] MAZZUCATO, ALESSANDRO, IT
[72] BUCCI, RICCARDO, IT
[73] PRYSMIAN S.P.A., IT
[86] (2819954)
[87] (2819954)
[22] 2013-07-04
[30] IT (MI2012A001178) 2012-07-05

---

[11] **2,820,143**
[13] C
[51] **Int.Cl. G05G 1/58 (2009.01) B64C 13/04 (2006.01) B64D 47/00 (2006.01)**
[25] FR
[54] **ERGONOMIC FRAME FOR TACTILE COMMAND INTERFACE AND RELATED COMMAND INTERFACES**
[54] **CADRE ERGONOMIQUE POUR INTERFACE DE COMMANDE TACTILE ET INTERFACE DE COMMANDE CORRESPONDANTE**
[72] DE BOSSOREILLE, ROMAIN, FR
[72] NAHMIYACE, MICHAEL, FR
[73] ECE, FR
[86] (2820143)
[87] (2820143)
[22] 2013-07-04
[30] FR (12 56 574) 2012-07-09

---

[11] **2,820,970**
[13] C
[51] **Int.Cl. E04F 13/21 (2006.01)**
[25] EN
[54] **IMPROVED MODULAR SYSTEM FOR CONTINUOUSLY INSULATING EXTERIOR WALLS OF A STRUCTURE AND SECURING EXTERIOR CLADDING TO THE STRUCTURE**
[54] **SYSTEME MODULAIRE AMELIORE POUR ISOLER EN CONTINU DES MURS EXTERIEURS D'UNE STRUCTURE ET FIXER UN BARDAGE EXTERIEUR A LA STRUCTURE**
[72] KNIGHT, DOUGLAS JAMES, US
[72] NELSON, BRIAN E., US
[73] KNIGHT, DOUGLAS JAMES, US
[86] (2820970)
[87] (2820970)
[22] 2013-07-11
[30] US (61/784,843) 2013-03-14

---

[11] **2,821,000**
[13] C
[51] **Int.Cl. C08L 1/02 (2006.01) A61K 9/16 (2006.01) C08J 5/18 (2006.01) C09D 101/02 (2006.01)**
[25] EN
[54] **MEDICAL DEVICES BASED ON CELLULOSE**
[54] **DISPOSITIFS MEDICAUX A BASE DE CELLULOSE**
[72] TRAMONTANO, VALENTINO, US
[72] BLASKOVICH, PHILLIP, US
[72] OHRI, RACHIT, US
[72] KENNEDY, JOSHUA, US
[72] FAROOQI, SAJIDA, US
[73] COVIDIEN LP, US
[86] (2821000)
[87] (2821000)
[22] 2013-06-27
[30] US (61/665,518) 2012-06-28
[30] US (13/927,311) 2013-06-26

---

[11] **2,821,606**
[13] E
[51] **Int.Cl. E04F 15/10 (2006.01)**
[25] EN
[54] **INTERLOCKING PANEL**
[54] **PANNEAU D'INTERVERROUILLAGE**
[72] HANNIG, HANS-JURGEN, DE
[73] AKZENTA PANEELE + PROFILE GMBH, DE
[85] 2013-06-13
[86] 2011-12-13 (PCT/EP2011/072573)
[87] (WO2012/084604)
[48] 2020-09-15
[30] DE (10 2010 063 976.1) 2010-12-22

---

[11] **2,821,747**
[13] C
[51] **Int.Cl. G01V 1/38 (2006.01)**
[25] EN
[54] **METHOD FOR STEERING A TOWED ACOUSTIC LINEAR ANTENNA**
[54] **PROCEDE POUR ORIENTER UNE ANTENNE LINEAIRE ACOUSTIQUE REMORQUEE**
[72] ROGER, THIERRY, FR
[72] MELLIER, GAETAN, FR
[72] L'HER, CHRISTOPHE, FR
[73] SERCEL, FR
[86] (2821747)
[87] (2821747)
[22] 2013-07-23
[30] EP (12305910.7) 2012-07-25

---

[11] **2,822,267**
[13] C
[51] **Int.Cl. F23N 1/00 (2006.01) F23N 5/00 (2006.01)**
[25] EN
[54] **COMBUSTING VENT GASES USING AN AUXILIARY BURNER**
[54] **BRULAGE DE GAZ EVACUES AU MOYEN D'UN BRULEUR AUXILIAIRE**
[72] MALM, HOWARD L., CA
[72] KEAST, LESLIE A., CA
[73] REM TECHNOLOGY INC., CA
[86] (2822267)
[87] (2822267)
[22] 2013-07-31

[11] **2,826,078**
[13] C
[51] **Int.Cl. B01J 20/02 (2006.01) A62D 3/30 (2007.01) B01J 20/06 (2006.01) B01J 20/10 (2006.01) B01J 20/20 (2006.01) B01J 20/28 (2006.01) B01J 20/32 (2006.01) B09C 1/08 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **COMPOSITE ADSORBENT MATERIAL**
[54] **MATERIAU COMPOSITE ADSORBANT**
[72] DE LEIJ, FRANCISCUS ANTONIUS ANNA MARIA, GB
[72] STRATFORD, JAMES, GB
[72] SNEATH, HELEN, GB
[72] HUTCHINGS, TONY, GB
[73] THE UNIVERSITY OF SURREY, GB
[73] THE FORESTRY COMMISSION, GB
[85] 2013-07-30
[86] 2012-02-02 (PCT/GB2012/050218)
[87] (WO2012/104639)
[30] GB (1101864.5) 2011-02-03

[11] **2,827,355**
[13] C
[51] **Int.Cl. C08L 33/00 (2006.01) C08J 3/20 (2006.01) C08L 83/12 (2006.01)**
[25] EN
[54] **FORMULATION WITH DEFOAMER**
[54] **PREPARATION AVEC AGENT ANTI-MOUSSE**
[72] BALIJEPALLI, SUDHAKAR, US
[72] KEEFE, MELINDA H., US
[72] RUFE, LAUREL A., US
[73] ROHM AND HAAS COMPANY, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[86] (2827355)
[87] (2827355)
[22] 2013-09-19
[30] US (61/719,627) 2012-10-29

[11] **2,828,221**
[13] C
[51] **Int.Cl. G05F 1/66 (2006.01) G05F 1/565 (2006.01)**
[25] EN
[54] **QUEUING ACCESS TO A SHARED POWER SUPPLY**
[54] **ACCES AVEC FILE D'ATTENTE A UNE ALIMENTATION ELECTRIQUE PARTAGEE**
[72] ALMEIDA, EDISON, US
[72] STAHL, JONATHAN O., US
[73] ECURV, INC., US
[85] 2013-08-23
[86] 2012-02-23 (PCT/US2012/026355)
[87] (WO2012/116205)
[30] US (61/463,946) 2011-02-25
[30] US (13/402,283) 2012-02-22

[11] **2,829,684**
[13] C
[51] **Int.Cl. F04B 47/00 (2006.01) F04B 47/12 (2006.01) F04B 53/10 (2006.01) F16H 25/22 (2006.01)**
[25] EN
[54] **LINEAR PUMP AND MOTOR SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES POUR MOTEUR ET POMPE LINEAIRE**
[72] HENRY, JAMES C., US
[72] HENRY, JAMES DAVID, US
[72] WALLIN, RONALD DAVID, US
[72] MORROW, FREDERICK EUGENE, US
[72] HARDWAY, TREVOR, US
[73] HENRY RESEARCH & DEVELOPMENT, US
[86] (2829684)
[87] (2829684)
[22] 2013-10-01
[30] US (61/708/761) 2012-10-02

[11] **2,829,719**
[13] C
[51] **Int.Cl. A61N 5/06 (2006.01)**
[25] EN
[54] **FOCAL PHOTODYNAMIC THERAPY METHODS**
[54] **PROCEDES DE THERAPIE PHOTODYNAMIQUE FOCALISEE**
[72] ABENHAIM, LUCIEN, GB
[72] CHARBIT, SUZY, FR
[72] GAILLAC, BERTRAND, FR
[73] STEBA MAOR SA, LU
[73] ABENHAIM, LUCIEN, GB
[85] 2013-09-10
[86] 2012-03-09 (PCT/EP2012/054060)
[87] (WO2012/123343)
[30] US (61/451,939) 2011-03-11

[11] **2,831,713**
[13] C
[51] **Int.Cl. C07F 9/38 (2006.01) A61K 31/662 (2006.01) A61P 35/00 (2006.01)**
[25] FR
[54] **BIFUNCTIONAL HYDROXY-BISPHOSPHONIC ACID DERIVATIVES AND THEIR USE IN THEVECTORIZATION OF MOLECULES OF THERAPEUTIC OR DIAGNOSTIC INTEREST**
[54] **DERIVES D'ACIDE HYDROXYBISPHOSPHONIQUE BIFONCTIONNELS ET LEUR UTILISATION DANS LA VECTORISATION DE MOLECULES D'INTERET THERAPEUTIQUE OU DIAGNOSTIQUE**
[72] EGOROV, MAXIM, FR
[72] GOUJON, JEAN-YVES, FR
[72] LE BOT, RONAN, FR
[73] ATLANTHERA, FR
[85] 2013-09-27
[86] 2012-03-28 (PCT/EP2012/055569)
[87] (WO2012/130911)
[30] FR (1152546) 2011-03-28

[11] **2,832,398**
[13] C
[51] **Int.Cl. A45C 5/03 (2006.01) A45C 5/14 (2006.01)**
[25] EN
[54] **LUGGAGE WITH SHELLS HAVING VARIED DEPTHS**
[54] **VALISE A COQUES A PROFONDEURS VARIABLES**
[72] FARRELLY, SEAN B., US
[72] HILLAERT, RIK, BE
[72] CHENG, VIVIEN, BE
[72] VAN DE WALLE, JEAN-CLAUDE, BE
[72] DE VOS, WIM, BE
[72] MILES, RICHARD, GB
[73] SAMSONITE IP HOLDINGS S.A R.L., LU
[86] (2832398)
[87] (2832398)
[22] 2013-11-06
[30] US (61/724,660) 2012-11-09
[30] US (13/844,359) 2013-03-15

[11] **2,832,540**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 31/7088 (2006.01) A61K 35/12 (2015.01) A61K 35/76 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **ANTI-EPIDERMAL GROWTH FACTOR RECEPTOR VARIANT III CHIMERIC ANTIGEN RECEPTORS AND USE OF SAME FOR THE TREATMENT OF CANCER**
[54] **RECEPTEURS D'ANTIGENE CHIMERIQUE DE VARIANT III DU RECEPTEUR DU FACTEUR DE CROISSANCE ANTI-EPIDERMIQUE ET LEUR UTILISATION POUR LE TRAITEMENT DU CANCER**
[72] MORGAN, RICHARD A., US
[72] ROSENBERG, STEVEN A., US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2013-10-07
[86] 2012-03-21 (PCT/US2012/029861)
[87] (WO2012/138475)
[30] US (61/473,409) 2011-04-08

[11] **2,833,339**
[13] C
[51] **Int.Cl. C07D 207/22 (2006.01) A61K 31/40 (2006.01) A61K 31/403 (2006.01) A61P 3/00 (2006.01) C07D 403/04 (2006.01)**
[25] FR
[54] **NOVEL AMINO-PYRROLINE DERIVATIVES, AND USE THEREOF IN THE PREVENTION AND/OR TREATMENT OF METABOLIC SYNDROME**
[54] **NOUVEAUX DERIVES AMINO-PYRROLINIQUES, LEUR UTILISATION DANS LA PREVENTION ET/OU LE TRAITEMENT DU SYNDROME METABOLIQUE**
[72] BOUSQUET, PASCAL, FR
[72] EHRHARDT, JEAN DANIEL, FR
[72] FELLMANN, LYNE, FR
[72] GASPARIK, VINCENT, FR
[72] GRENEY, HUGUES, FR
[72] HADJERI, MOHAMED, FR
[72] MANN, ANDRE, FR
[72] NIEDERHOFFER, NATHALIE, FR
[72] SCHANN, STEPHAN, FR
[73] UNIVERSITE DE STRASBOURG, FR
[85] 2013-10-16
[86] 2012-04-17 (PCT/FR2012/050835)
[87] (WO2012/143660)
[30] FR (1153375) 2011-04-19
[30] FR (1251302) 2012-02-13

[11] **2,833,935**
[13] C
[51] **Int.Cl. C07D 311/22 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 311/36 (2006.01) C07D 473/34 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **NOVEL COMPOUNDS AS MODULATORS OF PROTEIN KINASES**
[54] **NOUVEAUX COMPOSES EN TANT QUE MODULATEURS DE PROTEINES KINASES**
[72] NAGARATHNAM, DHANAPALAN, CH
[72] VAKKALANKA, SWAROOP KUMAR V.S., CH
[72] MUTHUPPALANIAPPAN, MEYYAPPAN, IN
[72] VISWANADHA, SRIKANT, IN
[72] BABU, GOVINDARAJULU, IN
[72] BHAVAR, PRASHANT KASHINATH, IN
[73] RHIZEN PHARMACEUTICALS SA, CH
[85] 2013-10-21
[86] 2012-05-04 (PCT/US2012/036594)
[87] (WO2012/151525)
[30] IN (1542/CHE/2011) 2011-05-04
[30] IN (81/CHE/2012) 2012-01-09

[11] **2,835,768**
[13] C
[51] **Int.Cl. A63C 5/035 (2006.01) A63C 5/03 (2006.01) A63C 5/08 (2006.01)**
[25] EN
[54] **MOTORIZED SNOWBOARD**
[54] **PLANCHE A NEIGE MOTORISEE**
[72] MAIER, JASON N, CA
[73] MAIER, JASON N, CA
[86] (2835768)
[87] (2835768)
[22] 2013-12-04

[11] **2,835,778**
[13] C
[51] **Int.Cl. B65D 21/02 (2006.01) A47F 7/28 (2006.01)**
[25] EN
[54] **NESTABLE CAN TRAY**
[54] **PORTE-BOITES EMBOITABLE**
[72] MCCANLESS, MARGARET, US
[72] APPS, WILLIAM P., US
[72] BALTZ, KYLE L., US
[73] REHRIG PACIFIC COMPANY, US
[86] (2835778)
[87] (2835778)
[22] 2013-12-06
[30] US (61/734,259) 2012-12-06

[11] **2,836,005**
[13] C
[51] **Int.Cl. C01G 25/02 (2006.01) B01D 53/94 (2006.01) B01J 21/06 (2006.01) B01J 23/00 (2006.01) B01J 23/10 (2006.01) C01G 25/00 (2006.01)**
[25] FR
[54] **COMPOSITION BASED ON OXIDES OF CERIUM, OF ZIRCONIUM AND OF ANOTHER RARE EARTH METAL WITH HIGH REDUCIBILITY, PREPARATION PROCESS AND USE IN THE FIELD OF CATALYSIS**
[54] **COMPOSITION A BASE D'OXYDES DE CERIUM, DE ZIRCONIUM ET D'UNE AUTRE TERRE RARE A REDUCTIBILITE ELEVEE, PROCEDE DE PREPARATION ET UTILISATION DANS LE DOMAINE DE LA CATALYSE**
[72] IFRAH, SIMON, FR
[72] ROHART, EMMANUEL, FR
[72] HERNANDEZ, JULIEN, FR
[72] HORBEZ, DOMINIQUE, FR
[72] ITANI, LAMA, FR
[73] RHODIA OPERATIONS, FR
[85] 2013-11-13
[86] 2012-06-13 (PCT/EP2012/061179)
[87] (WO2012/171947)
[30] FR (1101867) 2011-06-17

[11] **2,837,320**
[13] C
[51] **Int.Cl. G08B 21/18 (2006.01) G01R 31/371 (2019.01) G01R 31/3835 (2019.01) G08C 17/02 (2006.01)**
[25] EN
[54] **BATTERY MONITORING SYSTEM**
[54] **SYSTEME DE CONTROLE DE BATTERIE**
[72] JONES, LAWRENCE A., US
[73] SPIREON, INC., US
[85] 2013-11-25
[86] 2012-05-24 (PCT/US2012/039248)
[87] (WO2012/162450)
[30] US (61/489,347) 2011-05-24
[30] US (61/489,520) 2011-05-24

[11] **2,837,904**
[13] C
[51] **Int.Cl. G07C 15/00 (2006.01) A63F 3/06 (2006.01) G06Q 30/00 (2012.01) G06Q 50/00 (2012.01)**
[25] EN
[54] **MANAGING GROUP PLAY IN LOTTERY DRAWS**
[54] **GESTION D'UN JEU DE GROUPE DANS DES TIRAGES DE LOTERIE**
[72] ROY, SERGE, CA
[72] ADAMS, CAMERON, CA
[72] RASSIAS, GEORGE, CA
[72] LAM, JASON, CA
[72] SCHULZKE, KEN, CA
[72] LUSSIER, LOUIS-PHILIPPE, CA
[72] HEINTZ, TODD, CA
[73] INTERPROVINCIAL LOTTERY CORPORATION, CA
[85] 2013-12-02
[86] 2012-05-31 (PCT/CA2012/050360)
[87] (WO2012/162835)
[30] US (61/492,665) 2011-06-02

[11] **2,840,272**
[13] C
[51] **Int.Cl. A61K 31/7032 (2006.01) A61K 31/07 (2006.01) A61K 31/203 (2006.01) A61K 31/4436 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **PREVENTION AND TREATMENT OF INFLAMMATORY CONDITIONS**
[54] **PREVENTION ET TRAITEMENT D'ETATS INFLAMMATOIRES**
[72] CHATURVEDI, VIPIN KUMAR, US
[73] GRI BIO, INC., US
[85] 2013-12-20
[86] 2012-06-22 (PCT/US2012/043875)
[87] (WO2012/178108)
[30] US (61/501,139) 2011-06-24

[11] **2,841,479**
[13] C
[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 20/32 (2012.01) H04W 4/21 (2018.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF A MEDIA DELIVERY SERVICES PLATFORM FOR TARGETING CONSUMERS IN REAL TIME**
[54] **SYSTEME ET PROCEDE DE PLATEFORME DE SERVICES DE DISTRIBUTION DE MULTIMEDIA POUR CIBLER DES CLIENTS EN TEMPS REEL**
[72] VOLPI, MATTHEW, US
[72] GOPALAKRISHNAN, SATISH, US
[72] GRIMES, MICHAEL D., US
[73] MODIV MEDIA, INC., US
[85] 2014-01-10
[86] 2012-07-12 (PCT/US2012/046478)
[87] (WO2013/009989)
[30] US (13/181,049) 2011-07-12

[11] **2,841,795**
[13] C
[51] **Int.Cl. A61L 27/14 (2006.01) A61F 2/44 (2006.01) A61L 27/20 (2006.01) A61L 27/22 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR SPINAL DISC REPAIR AND OTHER SURGICAL AND NON-SURGICAL INDICATIONS**
[54] **COMPOSITIONS ET METHODES POUR LA REPARATION DE DISQUE VERTEBRAL ET D'AUTRES INDICATIONS CHIRURGICALES ET NON CHIRURGICALES**
[72] DAVIS, RAPHAEL, US
[72] BHATNAGAR, DIVYA, US
[72] RAFAILOVICH, MIRIAM, US
[73] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
[85] 2014-01-03
[86] 2012-07-05 (PCT/US2012/045500)
[87] (WO2013/006671)
[30] US (61/504,506) 2011-07-05

[11] **2,842,185**
[13] C
[51] **Int.Cl. A62B 35/00 (2006.01) A44B 11/00 (2006.01) A44B 11/25 (2006.01) F16G 3/00 (2006.01) F16G 11/10 (2006.01)**
[25] EN
[54] **BELT BUCKLE FOR THE RELEASABLE CONNECTION OF A BELT**
[54] **BOUCLE DE CEINTURE PERMETTANT D'ATTACHER UNE CEINTURE DE MANIERE LIBERABLE**
[72] HORTNAGL, ANDREAS, AT
[73] ABA HORTNAGL GMBH, AT
[86] (2842185)
[87] (2842185)
[22] 2014-02-03
[30] AT (A086/2013) 2013-02-05

[11] **2,842,291**
[13] C
[51] **Int.Cl. A61K 36/88 (2006.01) A61K 38/48 (2006.01) A61P 19/02 (2006.01) A61P 19/04 (2006.01)**
[25] EN
[54] **PROTEOLYTIC EXTRACT FROM BROMELAIN FOR THE TREATMENT OF CONNECTIVE TISSUE DISORDERS**
[54] **EXTRAIT PROTEOLYTIQUE TIRE DE LA BROMELAINE ET CONVENANT AU TRAITEMENT DE TROUBLES DES TISSUS CONJONCTIFS**
[72] ROSENBERG, LIOR, IL
[72] RUBIN, GUY, IL
[72] ASCULAI, EILON, IL
[73] MEDIWOUND LTD., IL
[85] 2014-01-17
[86] 2012-07-19 (PCT/IL2012/050261)
[87] (WO2013/011514)
[30] US (61/509,612) 2011-07-20

[11] **2,842,392**
[13] C
[51] **Int.Cl. C12N 15/866 (2006.01)**
[25] EN
[54] **IMPROVED BACULOVIRUS EXPRESSION SYSTEMS**
[54] **SYSTEMES D'EXPRESSION DE BACULOVIRUS PERFECTIONNES**
[72] GALIBERT, LIONEL, FR
[72] MERTEN, OTTO-WILHELM, FR
[72] VAN OERS, MONIQUE, NL
[72] RIVIERE, CHRISTEL, FR
[73] GENETHON, FR
[85] 2014-01-20
[86] 2012-07-27 (PCT/EP2012/064843)
[87] (WO2013/014294)
[30] US (61/512,142) 2011-07-27

[11] **2,842,654**
[13] C
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 31/4412 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF A PHARMACEUTICAL COMPOSITION CONTAINING PIRFENIDONE IN SUSTAINED-RELEASE TABLET FORM AND ITS APPLICATION IN THE REGRESSION OF HUMAN CHRONIC RENAL FAILURE, BREAST CAPSULAR CONTRACTURE AND HEPATIC FIBROSIS**
[54] **PROCEDE DE FABRICATION D'UNE COMPOSITION PHARMACEUTIQUE SOUS FORME DE COMPRIMES A LIBERATION PROLONGEE CONTENANT DE LA PIRFENIDONE, UTILISATION POUR FAIRE REGRESSER L'INSUFFISANCERENALE CHRONIQUE, LA CONTRACTURE CAPSULAIRE MAMMAIRE ET LA FIBROSE HEPATIQUE CHEZ L'HOMME**
[72] ARMENDARIZ BORUNDA, JUAN, MX
[72] MAGANA CASTRO, JOSE AUGUSTIN ROGELIO, MX
[72] CERVANTES GUADARRAMA, JORGE, MX
[73] CELL THERAPY AND TECHNOLOGY, SA. DE C.V., MX
[85] 2014-01-16
[86] 2012-07-13 (PCT/MX2012/000067)
[87] (WO2013/012307)
[30] MX (MX/a/2011/007675) 2011-07-19

[11] **2,842,842**
[13] C
[51] **Int.Cl. G06Q 10/06 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSESSING MOBILE ASSET EFFICIENCIES**
[54] **SYSTEMES ET PROCEDES D'EVALUATION D'EFFICACITES D'ACTIFS MOBILES**
[72] DAVIDSON, MARK J., US
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2014-01-22
[86] 2012-07-26 (PCT/US2012/048405)
[87] (WO2013/016579)
[30] US (61/511,915) 2011-07-26

[11] **2,843,055**
[13] C
[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING MEDIA-RELATED NOTIFICATIONS**
[54] **SYSTEME ET PROCEDE PERMETTANT DE GENERER DES ALERTES RELATIVES A DES SUPPORTS**
[72] MASKATIA, IMRAN, US
[72] RUBINSTEIN, JASON, US
[73] REDBOX AUTOMATED RETAIL, LLC, US
[85] 2014-01-23
[86] 2012-07-31 (PCT/US2012/049076)
[87] (WO2013/019820)
[30] US (61/514,451) 2011-08-02
[30] US (13/562,244) 2012-07-30

[11] **2,843,857**
[13] C
[51] **Int.Cl. H02G 3/14 (2006.01) H01R 13/447 (2006.01) H01R 13/66 (2006.01)**
[25] EN
[54] **ACTIVE COVER PLATES**
[54] **PLAQUE DE REVETEMENT ACTIVE**
[72] SMITH, JEREMY, US
[73] SNAPRAYS, LLC, US
[85] 2014-01-31
[86] 2012-07-16 (PCT/US2012/046946)
[87] (WO2013/019394)
[30] US (61/574,344) 2011-08-01
[30] US (13/461,915) 2012-05-02

[11] **2,843,960**
[13] C
[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) A61P 25/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTIBODIES BINDING TO PHOSPHORYLCHOLINE (PC) AND/OR PC CONJUGATES**
[54] **ANTICORPS APTES A SE LIER A LA PHOSPHORYLCHOLINE (PC) ET/OU A UN CONJUGUE DE PC**
[72] PETTERSSON, KNUT, SE
[72] CAMBER, OLA, SE
[72] SEXTON, DAN, US
[72] NIXON, ANDREW E., US
[73] ATHERA BIOTECHNOLOGIES AB, SE
[73] DYAX CORP., US
[85] 2014-01-31
[86] 2012-08-08 (PCT/US2012/049990)
[87] (WO2013/022968)
[30] US (61/521,607) 2011-08-09

[11] **2,844,023**
[13] C
[51] **Int.Cl. F03B 13/18 (2006.01) F03B 13/24 (2006.01)**
[25] EN
[54] **FREE FLOATING WAVE ENERGY CONVERTER WITH CONTROL DEVICES**
[54] **CONVERTISSEUR D'ENERGIE DES VAGUES FLOTTANT LIBREMENT EQUIPE DE DISPOSITIFS DE CONTROLE**
[72] GHOUSE, SYED MOHAMMED, IN
[73] GHOUSE, SYED MOHAMMED, IN
[85] 2014-01-22
[86] 2012-07-20 (PCT/IN2012/000510)
[87] (WO2013/014682)
[30] IN (2511/CHE/2011) 2011-07-22

[11] **2,844,089**
[13] C
[51] **Int.Cl. B65D 19/28 (2006.01) B65D 19/30 (2006.01)**
[25] EN
[54] **LOAD BEARING STRUCTURE**
[54] **STRUCTURE DE SUPPORT DE CHARGE**
[72] SMOLENAERS, PETER, AU
[73] UNITLOAD PTY LTD, AU
[85] 2014-02-04
[86] 2012-08-07 (PCT/AU2012/000932)
[87] (WO2013/023238)
[30] AU (2011903311) 2011-08-18
[30] AU (2012901541) 2012-04-19

[11] **2,844,123**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/48 (2014.01)**
[25] EN
[54] **AMUSEMENT DEVICES AND GAMES INVOLVING MULTIPLE OPERATORS, MULTIPLE PLAYERS, AND/OR MULTIPLE JURISDICTIONS**
[54] **DISPOSITIFS DE DIVERTISSEMENT ET JEUX IMPLIQUANT DE MULTIPLES OPERATEURS, JOUEURS ET/OU JURIDICTIONS**
[72] AMAITIS, LEE, US
[72] FLAHERTY, PHILLIP, US
[73] CFPH, LLC, US
[85] 2014-02-03
[86] 2012-07-31 (PCT/US2012/048967)
[87] (WO2013/019789)
[30] US (61/513,757) 2011-08-01

[11] **2,844,473**
[13] C
[51] **Int.Cl. A61K 47/10 (2017.01) A61J 3/10 (2006.01) A61K 8/02 (2006.01) A61K 8/86 (2006.01) A61K 9/20 (2006.01) A61K 9/46 (2006.01) A61Q 11/02 (2006.01)**
[25] EN
[54] **TABLETS WITH IMPROVED FRIABILITY**
[54] **COMPRIMES A FRIABILITE AMELIOREE**
[72] RAU, ALLEN, US
[72] STADOLNIK, DONALD, US
[72] CORCINO, MELVIN, US
[72] ACOSTA, FREDDY, US
[73] TOWER LABORATORIES, LTD., US
[86] (2844473)
[87] (2844473)
[22] 2014-03-06
[30] US (13/867,308) 2013-04-22

[11] **2,845,576**
[13] C
[51] **Int.Cl. C12N 1/00 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **ENZYME PRODUCING BACILLUS STRAINS**
[54] **SOUCHES DE BACILLUS PRODUISANT UNE ENZYME**
[72] DAVIS, MARI ELLEN, US
[72] SAWALL, JUSTIN, US
[72] NEUMANN, ANTHONY, US
[72] SIRAGUSA, GREG, US
[72] ROMERO, LUIS, GB
[73] DUPONT NUTRITION BIOSCIENCES APS, DK
[85] 2014-02-14
[86] 2012-08-24 (PCT/US2012/052360)
[87] (WO2013/029013)
[30] US (61/526,881) 2011-08-24
[30] US (61/527,371) 2011-08-25

[11] **2,847,693**
[13] C
[51] **Int.Cl. G01V 99/00 (2009.01)**
[25] EN
[54] **CORE-PLUG TO GIGA-CELLS LITHOLOGICAL MODELING**
[54] **MODELISATION LITHOLOGIQUE BOUCHON DE CAROTTE VERS GIGA-CELLULES**
[72] SUNG, ROGER R., SA
[72] AL-RAMADAN, AHMED S., SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2014-03-04
[86] 2012-09-14 (PCT/US2012/055270)
[87] (WO2013/040281)
[30] US (61/534,988) 2011-09-15

[11] **2,848,935**
[13] C
[51] **Int.Cl. D21C 1/02 (2006.01) C08L 1/02 (2006.01) C08L 5/00 (2006.01) C08L 97/02 (2006.01) C12P 7/02 (2006.01) C12P 7/10 (2006.01) C12P 19/00 (2006.01) D21C 1/10 (2006.01) C13K 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR HEATING A FEEDSTOCK**
[54] **PROCEDE DE CHAUFFAGE D'UNE CHARGE D'ALIMENTATION**
[72] VAN DER MEULEN, TORBJORN, CA
[72] ROWLAND, STEPHEN A., CA
[73] IOGEN ENERGY CORPORATION, CA
[85] 2014-03-17
[86] 2012-09-19 (PCT/CA2012/050647)
[87] (WO2013/040702)
[30] US (61/536,805) 2011-09-20

[11] **2,850,786**
[13] C
[51] **Int.Cl. F41A 3/58 (2006.01) F41A 3/72 (2006.01) F41A 17/42 (2006.01) F41A 19/11 (2006.01) F41A 19/54 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR BREAKING AND COCKING A SINGLE SHOT FIREARM**
[54] **SYSTEME ET PROCEDE POUR BASCULE ET ARMEMENT D'UNE ARME A FEU A UN COUP**
[72] WOODMAN, MARK, US
[73] WOODMAN ARMS INC., US
[86] (2850786)
[87] (2850786)
[22] 2014-05-01
[30] US (61/818,585) 2013-05-02

[11] **2,851,373**
[13] C
[51] **Int.Cl. G01S 1/02 (2010.01) G01S 5/02 (2010.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTING LOCATION OF FIXED WIRELESS ASSET**
[54] **PROCEDE ET SYSTEME POUR DETECTER LA POSITION D'UN BIEN FIXE SANS FIL**
[72] BEAUDRY, SERGE, CA
[73] CAREFUSION 303, INC., US
[85] 2014-04-07
[86] 2012-10-18 (PCT/US2012/060870)
[87] (WO2013/059492)
[30] US (13/277,033) 2011-10-19

[11] **2,851,839**
[13] C
[51] **Int.Cl. A61B 8/08 (2006.01) A61N 7/00 (2006.01)**
[25] EN
[54] **TRANSMISSIVE IMAGING AND RELATED APPARATUS AND METHODS**
[54] **IMAGERIE TRANSMISSIVE ET APPAREILS ET PROCEDES ASSOCIES**
[72] ROTHBERG, JONATHAN M., US
[72] SANCHEZ, NEVADA, US
[72] CHARVAT, GREGORY, US
[72] RALSTON, TYLER, US
[73] BUTTERFLY NETWORK, INC., US
[85] 2014-04-10
[86] 2012-10-17 (PCT/US2012/060665)
[87] (WO2013/059358)
[30] US (61/548,047) 2011-10-17

[11] **2,852,538**
[13] C
[51] **Int.Cl. A47H 23/00 (2006.01)**
[25] EN
[54] **RETRACTABLE CURTAIN SYSTEM**
[54] **SYSTEME DE RIDEAU RETRACTABLE**
[72] DIMMER, JERRY, US
[72] KNOUSE, TROY, US
[73] RUSH COMPANY, INC., US
[86] (2852538)
[87] (2852538)
[22] 2014-05-20
[30] US (61/825,276) 2013-05-20

[11] **2,852,669**
[13] C
[51] **Int.Cl. B01J 29/00 (2006.01) B01J 29/40 (2006.01) B01J 37/00 (2006.01) B01J 37/02 (2006.01) B01J 37/06 (2006.01) B01J 37/28 (2006.01) C01B 39/02 (2006.01) C01B 39/04 (2006.01) C01B 39/40 (2006.01) C07C 1/20 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING PHOSPHORUS MODIFIED ZEOLITE CATALYSTS**
[54] **PROCEDE DE PRODUCTION DE CATALYSEURS DE ZEOLITHE MODIFIES PAR DU PHOSPHORE**
[72] LAI, WENYIH FRANK, US
[72] HAMILTON, MERCI A., US
[72] MCCARTHY, STEPHEN J., US
[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2014-04-16
[86] 2012-10-16 (PCT/US2012/060393)
[87] (WO2013/059176)
[30] US (61/548,057) 2011-10-17
[30] US (61/548,052) 2011-10-17
[30] US (61/548,015) 2011-10-17
[30] US (61/548,044) 2011-10-17
[30] US (61/548,064) 2011-10-17
[30] US (61/548,038) 2011-10-17

[11] **2,852,847**
[13] C
[51] **Int.Cl. G01L 9/00 (2006.01) G01L 19/06 (2006.01)**
[25] FR
[54] **MICROMECHANICAL STRUCTURE HAVING A DEFORMABLE MEMBRANE AND A PROTECTION AGAINST STRONG DEFORMATIONS**
[54] **STRUCTURE MICROMECANIQUE A MEMBRANE DEFORMABLE ET A PROTECTION CONTRE DE FORTES DEFORMATIONS**
[72] BRIDA, SEBASTIANO, FR
[73] AUXITROL S.A., FR
[85] 2014-04-17
[86] 2012-10-24 (PCT/EP2012/071000)
[87] (WO2013/060697)
[30] FR (1159726) 2011-10-26

[11] **2,855,773**
[13] C
[51] **Int.Cl. A47J 27/62 (2006.01) F24C 7/08 (2006.01) H05B 6/00 (2006.01)**
[25] FR
[54] **COOKING DEVICE**
[54] **DISPOSITIF DE CUISSON**
[72] VALANCE, NICOLAS, FR
[73] SEB S.A., FR
[85] 2014-05-01
[86] 2012-11-16 (PCT/FR2012/052652)
[87] (WO2013/072640)
[30] FR (11/60507) 2011-11-18

[11] **2,858,317**
[13] C
[51] **Int.Cl. A61K 8/38 (2006.01) A61K 8/64 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **MULTI-PART ORAL CARE COMPOSITION PROVIDING ENZYME-CATALYZED PERACID WHITENING MATERIAL**
[54] **COMPOSITION DE SOIN BUCCAL MULTIPIECE FOURNISSANT UN MATERIAU BLANCHISSANT PERACIDE CATALYSE PAR UNE ENZYME**
[72] BOYD, THOMAS, US
[72] XU, GUOFENG, US
[72] ADAMS, RICHARD, US
[72] PIERCE, ROBERT, US
[72] SAMAROO, DEREK, US
[72] VISCIO, DAVID, US
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2014-06-05
[86] 2011-12-19 (PCT/US2011/065827)
[87] (WO2013/095331)

[11] **2,858,697**
[13] C
[51] **Int.Cl. C10G 1/00 (2006.01) C10G 1/04 (2006.01)**
[25] EN
[54] **METHOD OF TREATING CRUDE OIL WITH ULTRASOUND VIBRATIONS AND MICROWAVE ENERGY**
[54] **PROCEDE DE TRAITEMENT DE PETROLE BRUT AU MOYEN DE VIBRATIONS ULTRASONORES ET D'ENERGIE MICROONDE**
[72] ROUT, BRUCE, CA
[73] 1555771 ALBERTA LTD., CA
[86] (2858697)
[87] (2858697)
[22] 2014-08-07
[30] US (61/863,726) 2013-08-08

[11] **2,859,852**
[13] C
[51] **Int.Cl. C07J 7/00 (2006.01) C07J 75/00 (2006.01)**
[25] EN
[54] **PROCESS FOR ALKYNYLATING 16-SUBSTITUTED-17-KETO STEROIDS**
[54] **PROCEDE POUR ALCYNYLER DES 17-CETO-STEROIDES 16-SUBSTITUES**
[72] GUTIERREZ FUENTES, LUIS GERARDO, ES
[72] SANDOVAL RODRIGUEZ, CELSO MIGUEL, ES
[73] CRYSTAL PHARMA, S.A.U., ES
[73] THE POPULATION COUNCIL INC., US
[85] 2014-06-19
[86] 2012-12-19 (PCT/EP2012/076095)
[87] (WO2013/092668)
[30] US (61/580,010) 2011-12-23
[30] EP (11382395.9) 2011-12-23

---

[11] **2,860,577**
[13] C
[51] **Int.Cl. C07D 207/16 (2006.01) A61K 31/397 (2006.01) A61K 31/40 (2006.01) A61K 31/4025 (2006.01) A61K 31/404 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 205/04 (2006.01) C07D 207/22 (2006.01) C07D 209/18 (2006.01) C07D 209/42 (2006.01) C07D 209/94 (2006.01) C07D 403/04 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 487/04 (2006.01) C07D 487/10 (2006.01) C07D 498/10 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS ANGIOTENSIN II TYPE 2 RECEPTOR ANTAGONISTS**
[54] **COMPOSES HETEROCYCLIQUES COMME ANTAGONISTES DU RECEPTEUR DE TYPE 2 DE L'ANGIOTENSINE II**
[72] MCCARTHY, THOMAS DAVID, AU
[72] NAYLOR, ALAN, GB
[73] NOVARTIS AG, CH
[85] 2014-07-04
[86] 2013-01-04 (PCT/AU2013/000003)
[87] (WO2013/102242)
[30] AU (2012900057) 2012-01-06

---

[11] **2,860,662**
[13] C
[51] **Int.Cl. E21B 43/267 (2006.01) E21B 47/10 (2012.01)**
[25] EN
[54] **METHOD FOR PERFORMING A STIMULATION OPERATION WITH PROPPANT PLACEMENT AT A WELLSITE**
[54] **PROCEDE D'EXECUTION D'UNE OPERATION DE STIMULATION AVEC AGENT DE SOUTENEMENT A UN SITE DE FORAGE**
[72] MORRIS, JOSEPH P., US
[73] SCHLUMBERGER CANADA LIMITED, CA
[86] (2860662)
[87] (2860662)
[22] 2014-08-27
[30] US (61/870,901) 2013-08-28
[30] US (14/460,654) 2014-08-15

---

[11] **2,860,952**
[13] C
[51] **Int.Cl. A61K 31/137 (2006.01) A61K 9/22 (2006.01) A61K 9/48 (2006.01) A61K 31/4045 (2006.01) A61K 45/06 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **FIXED DOSE COMBINATION THERAPY OF PARKINSON'S DISEASE**
[54] **POLYTHERAPIE A BASE DE DOSES FIXES POUR LE TRAITEMENT DE LA MALADIE DE PARKINSON**
[72] LIVNAH, NURIT, IL
[72] LITMAN, PNINIT, IL
[72] ZAKSH, SARIT, IL
[73] PHARMA TWO B LTD., IL
[85] 2014-07-10
[86] 2013-01-10 (PCT/IL2013/050025)
[87] (WO2013/105092)
[30] US (61/585,824) 2012-01-12

---

[11] **2,861,059**
[13] C
[51] **Int.Cl. C10M 175/00 (2006.01)**
[25] EN
[54] **METHOD FOR REDUCING COLOR IN USED LUBRICATING OIL**
[54] **PROCEDE POUR REDUIRE LA COULEUR D'UNE HUILE LUBRIFIANTE USAGEE**
[72] MEIJERHOF, ANTJO H., NL
[73] ASCENSUS SPECIALTIES LLC, US
[85] 2014-07-11
[86] 2013-01-21 (PCT/US2013/022361)
[87] (WO2013/112395)
[30] US (61/591,407) 2012-01-27

---

[11] **2,861,275**
[13] C
[51] **Int.Cl. C23C 28/04 (2006.01) C23C 14/08 (2006.01) C23C 16/40 (2006.01) F01D 5/28 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A CERAMIC LAYER ON A SURFACE FORMED FROM A NI BASE ALLOY**
[54] **PROCEDE DE REALISATION D'UNE COUCHE CERAMIQUE SUR UNE SURFACE FORMEE A PARTIR D'UN ALLIAGE A BASE DE NICKEL**
[72] FEHR, KARL THOMAS, DE
[72] YE, YAPING, CN
[72] WOLF, GERHARD, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2014-07-15
[86] 2013-01-14 (PCT/EP2013/050577)
[87] (WO2013/107712)
[30] DE (10 2012 200 560.9) 2012-01-16

[11] **2,861,650**
[13] C
[51] **Int.Cl. A01F 29/00 (2006.01)**
[25] EN
[54] **BALE PROCESSOR FOR BALES OF ALL SHAPES**
[54] **PROCESSEUR DE BALLES POUR BALLES DE TOUTES FORMES**
[72] GRAHAM, LUCAS B., US
[73] VERMEER MANUFACTURING COMPANY, US
[85] 2014-06-25
[86] 2013-01-25 (PCT/US2013/023153)
[87] (WO2013/112841)
[30] US (61/591,594) 2012-01-27
[30] US (13/749,895) 2013-01-25

[11] **2,861,872**
[13] C
[51] **Int.Cl. C07F 5/02 (2006.01) C07B 63/04 (2006.01)**
[25] EN
[54] **METHODS OF ISOLATING (4-CHLORO-2-FLUORO-3-SUBSTITUTED-PHENYL)BORONATES AND METHODS OF USING THE SAME**
[54] **PROCEDES D'ISOLEMENT DE PHENYLBORONATES 4-CHLORO-2-FLUORO-3 SUBSTITUES ET LEURS PROCEDES D'UTILISATION**
[72] OPPENHEIMER, JOSSIAN, US
[72] MENNING, CATHERINE A., US
[72] HENTON, DANIEL R., US
[73] DOW AGROSCIENCES LLC, US
[85] 2014-06-26
[86] 2012-12-28 (PCT/US2012/071920)
[87] (WO2013/101987)
[30] US (61/582,175) 2011-12-30

[11] **2,863,288**
[13] C
[51] **Int.Cl. B29C 65/78 (2006.01) F03D 1/06 (2006.01)**
[25] EN
[54] **A CRADLE FOR A WIND TURBINE BLADE**
[54] **SYSTEME DE SERRAGE CONCU POUR UNE PALE D'EOLIENNE**
[72] DE WAAL MALEFIJT, BERNARD WILLEM, DK
[72] DUEGAARD JENSEN, RASMUS, DK
[73] LM WP PATENT HOLDING A/S, DK
[85] 2014-07-30
[86] 2013-01-31 (PCT/EP2013/051896)
[87] (WO2013/113813)
[30] EP (12153694.0) 2012-02-02
[30] GB (1222982.9) 2012-12-20

[11] **2,864,153**
[13] C
[51] **Int.Cl. C12M 1/26 (2006.01) A01G 7/00 (2006.01) C12M 3/00 (2006.01) C12N 15/82 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **PLANT INFILTRATION DEVICE**
[54] **DISPOSITIF D'INFILTRATION POUR PLANTES**
[72] D'AOUST, MARC-ANDRE, CA
[72] BECHTOLD, NICOLE, CA
[72] LAURIN, LUC, CA
[72] VEZINA, LOUIS-PHILIPPE, CA
[72] DUBUC, NORMAND, CA
[73] MEDICAGO INC., CA
[85] 2014-08-08
[86] 2013-02-15 (PCT/CA2013/050118)
[87] (WO2013/120204)
[30] US (61/599,094) 2012-02-15

[11] **2,864,547**
[13] C
[51] **Int.Cl. F24S 80/00 (2018.01) H02S 20/00 (2014.01) H02S 40/42 (2014.01) F24S 40/00 (2018.01) A62C 2/06 (2006.01) E04B 1/94 (2006.01)**
[25] EN
[54] **SOLAR PANEL ASSEMBLY WITH MOVABLE BARRIERS**
[54] **SYSTEME DE PANNEAU SOLAIRE COMPRENANT DES BARRIERES MOBILES**
[72] HUBBARD, MICHAEL J., US
[72] MCQUILLEN, TIMOTHY J., US
[73] FIRESTONE BUILDING PRODUCTS CO, LLC, US
[85] 2014-08-13
[86] 2013-02-14 (PCT/US2013/026121)
[87] (WO2013/123175)
[30] US (61/598,561) 2012-02-14
[30] US (61/645,717) 2012-05-11

[11] **2,864,624**
[13] C
[51] **Int.Cl. A61M 25/02 (2006.01) A61B 90/11 (2016.01) A61B 17/34 (2006.01) A61M 39/02 (2006.01)**
[25] EN
[54] **NEUROSURGICAL APPARATUS**
[54] **APPAREIL NEUROCHIRURGICAL**
[72] GILL, STEVEN, GB
[72] ANTALFY, ATTILA, GB
[73] RENISHAW PLC, GB
[85] 2014-08-14
[86] 2013-02-27 (PCT/EP2013/053972)
[87] (WO2013/127884)
[30] GB (1203426.0) 2012-02-28

[11] **2,864,734**
[13] C
[51] **Int.Cl. A61M 39/22 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **DISTAL VALVE FOR A CATHETER**
[54] **SOUPAPE DISTALE POUR CATHETER**
[72] COX, JEREMY B., US
[72] BLANCHARD, DANIEL B., US
[72] CHRISTENSEN, MARK A., US
[73] C. R. BARD, INC., US
[85] 2014-08-14
[86] 2013-04-05 (PCT/US2013/035511)
[87] (WO2013/152324)
[30] US (61/621,276) 2012-04-06

[11] **2,866,036**
[13] C
[51] **Int.Cl. E06B 1/52 (2006.01)**
[25] EN
[54] **DOOR JAMB FOR FLUSH IN-SWING DOOR**
[54] **MONTANT DE PORTE POUR PORTE BATTANTE VERS L'INTERIEUR PLANE**
[72] STEVENS, GORDON, US
[73] STUDCO BUILDING SYSTEMS US, LLC, US
[86] (2866036)
[87] (2866036)
[22] 2014-09-26
[30] US (61/882,836) 2013-09-26

[11] **2,866,229**
[13] C
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 19/08 (2006.01)**
[25] EN
[54] **FGFR INHIBITOR FOR USE IN THE TREATMENT OF HYPOPHOSPHATEMIC DISORDERS**
[54] **INHIBITEUR DE FGFR DESTINE AU TRAITEMENT DE TROUBLES HYPOPHOSPHATEMIQUES**
[72] KNEISSEL, MICHAELA, CH
[72] GUAGNANO, VITO, CH
[72] GRAUS PORTA, DIANA, CH
[72] WOHRLE, SIMON, DE
[73] NOVARTIS AG, CH
[85] 2014-09-03
[86] 2013-03-29 (PCT/EP2013/056811)
[87] (WO2013/144339)
[30] US (61/617,889) 2012-03-30

[11] **2,866,769**
[13] C
[51] **Int.Cl. C23C 18/22 (2006.01)**
[25] EN
[54] **PROCESS FOR METALLIZING NONCONDUCTIVE PLASTIC SURFACES**
[54] **PROCEDE POUR LA METALLISATION DE SURFACES PLASTIQUES NON CONDUCTRICES**
[72] MIDDEKE, HERMANN, DE
[72] KUHMEISER, ENRICO, DE
[72] SCHNEIDER, STEVE, DE
[73] ATOTECH DEUTSCHLAND GMBH, DE
[85] 2014-09-09
[86] 2013-03-15 (PCT/EP2013/055357)
[87] (WO2013/135863)
[30] EP (12159659.7) 2012-03-15

---

[11] **2,867,367**
[13] C
[51] **Int.Cl. E04F 11/18 (2006.01) E04F 11/00 (2006.01)**
[25] EN
[54] **BALUSTER CONNECTOR**
[54] **RACCORD DE BALUSTRE**
[72] MILANOWSKI, DANIEL, US
[73] UNIVERSAL CONSUMER PRODUCTS, INC., US
[86] (2867367)
[87] (2867367)
[22] 2014-10-15
[30] US (61/891,753) 2013-10-16

---

[11] ***2,867,778**
[13] C
[51] **Int.Cl. B29C 64/153 (2017.01) B22F 3/105 (2006.01)**
[25] EN
[54] **MACHINE FOR PRODUCING CIRCULAR PRODUCTS BY MEANS OF LAYER-BY-LAYER ADDITION**
[54] **MACHINE POUR LA FABRICATION DE PRODUITS CIRCULAIRES PAR ADDITION COUCHE PAR COUCHE**
[72] CARROUSET, PIERRE, FR
[72] CARROUSET, NICOLE, FR
[72] CARROUSET, GABRIELLE, FR
[73] CARPYZ SAS, FR
[85] 2014-09-18
[86] 2013-07-31 (PCT/EP2013/066083)
[87] (WO2014/032895)
[30] FR (12/02318) 2012-08-29

---

[11] **2,868,085**
[13] C
[51] **Int.Cl. A23L 27/21 (2016.01) C07C 233/47 (2006.01) C07C 233/49 (2006.01) C07C 321/14 (2006.01) C07D 207/16 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS**
[54] **AMELIORATIONS APPORTEES A DES COMPOSES ORGANIQUES OU SE RAPPORTANT A CEUX-CI**
[72] RENES, HARRY, NL
[72] VAN OMMEREN, ESTHER, NL
[72] VORSTER, SUSANNA MAGDALENA, NL
[72] WANG, YILI, US
[72] DE KLERK, ADRI, NL
[72] AUGELLI, JENIFER, US
[72] SHI, FENG, US
[73] GIVAUDAN S.A., CH
[85] 2014-09-19
[86] 2013-03-28 (PCT/US2013/034403)
[87] (WO2013/149035)
[30] US (61/617,796) 2012-03-30

---

[11] **2,868,447**
[13] C
[51] **Int.Cl. C07D 498/06 (2006.01) A61K 31/5365 (2006.01) A61P 35/00 (2006.01) C07D 209/60 (2006.01)**
[25] EN
[54] **CYCLIC PRODRUGS OF DUOCARMYCIN ANALOGS**
[54] **PROMEDICAMENTS CYCLIQUES D'ANALOGUES DE DUOCARMYCINE**
[72] BOGER, DALE L., US
[73] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2014-09-24
[86] 2013-03-26 (PCT/US2013/033809)
[87] (WO2013/148631)
[30] US (61/617,787) 2012-03-30

---

[11] **2,868,485**
[13] C
[51] **Int.Cl. G01N 33/00 (2006.01) G01N 33/52 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS USEFUL FOR FOODBORNE PATHOGEN DETECTION**
[54] **PROCEDES ET SYSTEMES POUVANT ETRE UTILISES EN VUE DE LA DETECTION D'AGENTS PATHOGENES CONTAMINANT LES ALIMENTS**
[72] LADISCH, MICHAEL R., US
[72] XIMENES, EDUARDO DE AQUINO, US
[73] PURDUE RESEARCH FOUNDATION, US
[85] 2014-09-24
[86] 2013-03-28 (PCT/US2013/034349)
[87] (WO2013/149003)
[30] US (61/617,036) 2012-03-28

---

[11] **2,869,400**
[13] C
[51] **Int.Cl. G02B 6/43 (2006.01) H04B 10/80 (2013.01) H03K 17/78 (2006.01) A61B 17/00 (2006.01) A61B 18/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR OBTAINING LARGE CREEPAGE ISOLATION ON PRINTED CIRCUIT BOARDS**
[54] **SYSTEMES ET PROCEDES PERMETTANT D'OBTENIR UNE GRANDE ISOLATION CONTRE LE GLISSEMENT SUR DES CARTES DE CIRCUITS IMPRIMES**
[72] TEOFILOVIC, DEJAN, US
[73] HISTOSONICS, INC., US
[85] 2014-10-01
[86] 2013-04-11 (PCT/US2013/036138)
[87] (WO2013/155279)
[30] US (13/446,783) 2012-04-13

[11] **2,869,516**
[13] C
[51] **Int.Cl. C10G 3/00 (2006.01) C07C 11/02 (2006.01) C10G 9/36 (2006.01) C10G 49/04 (2006.01) C10G 49/08 (2006.01) C10G 69/06 (2006.01)**
[25] EN
[54] **METHODS OF DEOXYGENATION OF TALL OIL AND PRODUCTION OF POLYMERIZABLE MONOMERS THEREFROM**
[54] **PROCEDES DE DESOXYGENATION DE TALLOL ET PRODUCTION DE MONOMERES POLYMERISABLES A PARTIR DE CELUI-CI**
[72] HARLIN, ALI, FI
[72] AALTONEN, OLLI, FI
[72] LAITINEN, ANTERO, FI
[72] RASANEN, JARI, FI
[72] KYLLIAINEN, OUTI, FI
[73] STORA ENSO OYJ, FI
[85] 2014-10-03
[86] 2013-04-12 (PCT/FI2013/050406)
[87] (WO2013/153287)
[30] FI (20125407) 2012-04-13

[11] **2,869,661**
[13] C
[51] **Int.Cl. A61J 1/14 (2006.01) A61J 1/06 (2006.01) A61M 5/32 (2006.01) B65D 39/00 (2006.01)**
[25] EN
[54] **DRUG VIAL SAFETY DEVICE**
[54] **DISPOSITIF DE SECURITE DE FIOLE DE MEDICAMENT**
[72] BANIK, ROBERT, US
[72] ROSEN, EDWARD, US
[72] MANOCCHIO, JOHN, US
[72] BATES, JAMES, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2014-10-03
[86] 2013-04-08 (PCT/US2013/035655)
[87] (WO2013/155005)
[30] US (61/686,608) 2012-04-09

[11] **2,869,975**
[13] C
[51] **Int.Cl. G01N 7/00 (2006.01) G01N 15/00 (2006.01) G01N 33/38 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RAPID MEASUREMENT OF THE AIR VOID DISTRIBUTION OF FRESH CONCRETE**
[54] **SYSTEME ET PROCEDE POUR LA MESURE RAPIDE DE DISTRIBUTION DE VIDES INTERSTITIELS DE BETON FRAIS**
[72] LEY, MATTHEW TYLER, US
[72] FRAZIER, ROBERT MABREY, US
[72] TABB, BRADEN MICHAEL, US
[73] THE BOARD OF REGENTS FOR OKLAHOMA STATE UNIVERSITY, US
[85] 2014-10-07
[86] 2013-09-17 (PCT/US2013/060184)
[87] (WO2014/043709)
[30] US (61/701,761) 2012-09-17

[11] **2,870,119**
[13] C
[51] **Int.Cl. A23L 7/109 (2016.01)**
[25] EN
[54] **COATED FROZEN NOODLES COMPRISING XANTHAN GUM AND PRODUCTION METHOD THEREFOR**
[54] **NOUILLES SURGELEES ENDUITES RENFERMANT DE LA GOMME DE XANTHANE ET METHODE DE PRODUCTION ASSOCIEE**
[72] IRIE, KENTAROU, JP
[72] SUGA, YOUHEI, JP
[72] KOIZUMI, NORIO, JP
[72] WATANABE, TAKENORI, JP
[72] MIYA, YOUICHIROU, JP
[72] YOSHIDA, TSUGUHIKO, JP
[73] NISSHIN FOODS INC., JP
[85] 2014-10-09
[86] 2013-04-05 (PCT/JP2013/060498)
[87] (WO2013/172117)
[30] JP (2012-111539) 2012-05-15
[30] CN (201210250795.2) 2012-07-19

[11] **2,870,215**
[13] C
[51] **Int.Cl. C08F 220/58 (2006.01) C02F 5/00 (2006.01) C08F 220/06 (2006.01) C08F 220/56 (2006.01) C08F 230/02 (2006.01)**
[25] EN
[54] **PROCESS FOR INHIBITION OF SULPHIDE SCALES**
[54] **PROCEDE D'INHIBITION DE TARTRE A BASE DE SULFURES**
[72] TODD, MALCOLM, GB
[72] STRACHAN, CATHERINE, GB
[72] MOIR, GORDON, GB
[72] GOULDING, JOHN, GB
[73] CLARIANT FINANCE (BVI) LIMITED, VG
[85] 2014-10-10
[86] 2013-03-26 (PCT/EP2013/000934)
[87] (WO2013/152832)
[30] EP (12002636.4) 2012-04-13

[11] **2,870,413**
[13] C
[51] **Int.Cl. C10L 1/188 (2006.01) C10L 1/19 (2006.01) C10L 10/16 (2006.01)**
[25] EN
[54] **PHASE BEHAVIORS AND PROPERTIES OF CERTAIN TRIACYLGLYCEROLS AND FATTY ACID METHYL ESTERS**
[54] **COMPORTEMENTS DE PHASE ET PROPRIETES DE CERTAINS TRIACYLGLYCEROLS ET ESTERS METHYLIQUES D'ACIDES GRAS**
[72] NARINE, SURESH, CA
[72] BOUZIDI, LAZIZ, CA
[72] DARLING, BRUCE, CA
[72] BAKER, MARK, CA
[72] LI, SHAOJUN, CA
[72] MAHDEVARI, ALI, CA
[73] TRENT UNIVERSITY, CA
[85] 2014-10-14
[86] 2013-04-15 (PCT/IB2013/001465)
[87] (WO2013/156872)
[30] US (61/624,364) 2012-04-15
[30] US (61/780,817) 2013-03-13

[11] **2,871,622**
[13] C
[51] **Int.Cl. E21B 43/1185 (2006.01) F42D 1/04 (2006.01)**
[25] EN
[54] **FIRING MECHANISM FOR A PERFORATING GUN OR OTHER DOWNHOLE TOOL**
[54] **MECANISME DE MISE A FEU POUR UN FUSIL A PERFORATION OU AUTRE OUTIL DE FOND DE TROU**
[72] COFFEY, NATHAN BRIAN, CA
[72] MYTOPHER, TERRY LEE, CA
[73] NINE ENERGY CANADA INC., CA
[86] (2871622)
[87] (2871622)
[22] 2014-11-14
[30] US (14/332,230) 2014-07-15

[11] **2,871,793**
[13] C
[51] **Int.Cl. C07C 235/46 (2006.01) A61K 31/166 (2006.01) A61K 31/18 (2006.01) C07C 311/28 (2006.01) C12N 9/04 (2006.01)**
[25] EN
[54] **SUBSTITUTED 3-HALOALLYLAMINE INHIBITORS OF SSAO AND USES THEREOF**
[54] **INHIBITEURS DE SSAO 3-HALOGENOALLYLAMINES SUBSTITUEES ET LEURS UTILISATIONS**
[72] DEODHAR, MANDAR, AU
[72] FINDLAY, ALISON DOROTHY, AU
[72] FOOT, JONATHAN STUART, AU
[72] JAROLIMEK, WOLFGANG, AU
[72] MCDONALD, IAN ALEXANDER, AU
[72] ROBERTSON, ALAN DUNCAN, AU
[72] TURNER, CRAIG IVAN, AU
[73] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2014-10-28
[86] 2013-04-05 (PCT/AU2013/000356)
[87] (WO2013/163675)
[30] US (61/641,814) 2012-05-02

[11] **2,871,884**
[13] C
[51] **Int.Cl. F16B 37/08 (2006.01) F16B 5/00 (2006.01) F16B 33/02 (2006.01)**
[25] EN
[54] **FASTENING DEVICES FOR EXPLOSION-PROOF ENCLOSURES**
[54] **DISPOSITIFS DE FIXATION POUR ENCEINTES ANTIDEFLAGRANTES**
[72] MANAHAN, JOSEPH MICHAEL, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2014-10-28
[86] 2013-03-11 (PCT/US2013/030214)
[87] (WO2013/165561)
[30] US (61/640,827) 2012-05-01

[11] **2,872,611**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/82 (2013.01) A61M 25/01 (2006.01) A61M 39/22 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PLACING A COAPTING MEMBER BETWEEN VALVULAR LEAFLETS**
[54] **SYSTEMES ET PROCEDES POUR PLACER UN ELEMENT DE COAPTATION ENTRE DES VALVES DE VALVULE**
[72] KHALIL, VIVIAN, US
[72] SPINNER, ERIN, US
[72] ZIMMERMAN, NEIL, US
[72] NGUYEN, SON V., US
[72] SIEGEL, ALEXANDER J., US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2014-11-04
[86] 2013-05-16 (PCT/US2013/041413)
[87] (WO2013/173618)
[30] US (61/647,973) 2012-05-16
[30] US (61/734,728) 2012-12-07

[11] **2,872,867**
[13] C
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **DIAGNOSTIC GENE MARKER PANEL FOR COLORECTAL CANCER**
[54] **GROUPE DE MARQUEURS GENETIQUES DIAGNOSTIQUES DESTINE AU CANCER COLORECTAL**
[72] MOLLOY, PETER, AU
[72] LAPOINTE, LAWRENCE, AU
[72] PEDERSEN, SUSANNE, AU
[73] CLINICAL GENOMICS PTY LTD, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2014-11-06
[86] 2013-05-10 (PCT/AU2013/000481)
[87] (WO2013/166558)
[30] US (61/646,174) 2012-05-11

[11] **2,873,347**
[13] C
[51] **Int.Cl. C10C 5/00 (2006.01) B01D 1/06 (2006.01) C10K 1/04 (2006.01) C10K 1/08 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING THE WATER CONTENT IN PYROLYSIS LIQUIDS**
[54] **PROCEDE DE REGULATION DE LA TENEUR EN EAU DANS LES LIQUIDES DE PYROLYSE**
[72] VAN DE BELD, LAMBERTUS, NL
[72] LEIJENHORST, EVERT JOHANNES, NL
[73] BTG BIOLIQUIDS B.V., NL
[85] 2014-11-12
[86] 2013-05-10 (PCT/NL2013/050353)
[87] (WO2013/172705)
[30] NL (2008835) 2012-05-16

[11] **2,873,827**
[13] C
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12M 1/34 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHODS TO ASSESS THE LIKELIHOOD OF DYSPLASIA OR ESOPHAGEAL ADENOCARCINOMA**
[54] **PROCEDES D'EVALUATION DE PROBABILITE D'UNE DYSPLASIE OU D'UN ADENOCARCINOME OESOPHAGIEN**
[72] FITZGERALD, REBECCA, GB
[72] ALVI, MUHAMMAD, GB
[72] LIU, XINXUE, GB
[73] UNITED KINGDOM RESEARCH AND INNOVATION, GB
[85] 2014-11-17
[86] 2013-05-17 (PCT/GB2013/051278)
[87] (WO2013/171504)
[30] GB (1208874.6) 2012-05-18

[11] **2,873,868**
[13] C
[51] **Int.Cl. B01J 13/14 (2006.01)**
[25] EN
[54] **AN ENCAPSULATED PARTICLE**
[54] **PARTICULE ENCAPSULEE**
[72] NEFF, RAYMOND, US
[72] GERSHANOVICH, ALEXANDER, US
[72] MENTE, DONALD, US
[73] BASF SE, DE
[85] 2014-11-14
[86] 2013-05-20 (PCT/US2013/041862)
[87] (WO2013/173836)
[30] US (61/648,707) 2012-05-18
[30] US (61/648,884) 2012-05-18
[30] US (61/648,766) 2012-05-18

[11] **2,873,918**
[13] C
[51] **Int.Cl. G06T 17/00 (2006.01) A61B 6/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR THE THREE-DIMENSIONAL RECONSTRUCTION OF STRUCTURES**
[54] **PROCEDE ET SYSTEME POUR LA RECONSTRUCTION TRIDIMENSIONNELLE DE STRUCTURES**
[72] BENAMEUR, SAID, CA
[72] LAVOIE, FREDERIC, CA
[73] EIFFEL MEDTECH INC., CA
[85] 2014-11-17
[86] 2013-05-17 (PCT/CA2013/000481)
[87] (WO2013/170360)
[30] CA (2,778,347) 2012-05-17
[30] US (61/688,629) 2012-05-18

[11] **2,874,140**
[13] C
[51] **Int.Cl. A61M 39/10 (2006.01)**
[25] EN
[54] **FLUSH ENHANCING MALE LUER TIP DESIGN FOR SYRINGES AND ANY LUER CONNECTOR**
[54] **CONCEPTION D'EMBOUT LUER MALE A RINCAGE AMELIORE POUR SERINGUES ET AUTRE RACCORD LUER**
[72] STOUT, MARTY L., US
[72] BURKHOLZ, JONATHAN KARL, US
[72] ISAACSON, S. RAY, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2014-11-19
[86] 2013-05-20 (PCT/US2013/041810)
[87] (WO2013/177034)
[30] US (13/476,357) 2012-05-21

[11] **2,875,389**
[13] C
[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/445 (2006.01) A61K 31/4523 (2006.01) A61K 31/4545 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 211/62 (2006.01)**
[25] EN
[54] **1-[M-CARBOXAMIDO(HETERO)ARYL-METHYL]-HETEROCYCLYL-CARBOXAMIDE DERIVATIVES**
[54] **DERIVES DE 1-[M-CARBOXAMIDO(HETERO)ARYL METHYL]HETEROCYCLYLCARBOXAMIDE**
[72] FRETZ, HEINZ, CH
[72] GUDE, MARKUS, CH
[72] GUERRY, PHILIPPE, CH
[72] KIMMERLIN, THIERRY, CH
[72] LEHEMBRE, FRANCOIS, CH
[72] PFEIFER, THOMAS, CH
[72] VALDENAIRE, ANJA, CH
[73] IDORSIA PHARMACEUTICALS LTD, CH
[85] 2014-12-01
[86] 2013-06-21 (PCT/IB2013/055095)
[87] (WO2013/190508)
[30] EP (12173227.5) 2012-06-22

[11] **2,875,735**
[13] C
[51] **Int.Cl. G06F 16/245 (2019.01) G06F 12/0802 (2016.01) G06Q 10/06 (2012.01) G06Q 50/14 (2012.01)**
[25] EN
[54] **UPDATING CACHED DATABASE QUERY RESULTS**
[54] **MISE A JOUR DE RESULTATS D'INTERROGATIONS DE BASE DE DONNEES MIS EN ANTEMEMOIRE**
[72] CIABRINI, DAMIEN, FR
[72] LEGRAND, GUILLAUME, FR
[72] JANIN, BENOIT, FR
[72] ISNARDY, LUC, FR
[72] MAILLOT, NICOLAS, FR
[72] ROBELIN, CHARLES-ANTOINE, FR
[72] DANIELLO, RUDY, FR
[73] AMADEUS S.A.S., FR
[85] 2014-12-04
[86] 2013-08-09 (PCT/EP2013/002390)
[87] (WO2014/026753)
[30] EP (12368020.9) 2012-08-14
[30] US (13/585,286) 2012-08-14

[11] **2,875,814**
[13] C
[51] **Int.Cl. A63B 21/06 (2006.01) A63B 21/00 (2006.01) A63B 21/22 (2006.01) A63B 22/00 (2006.01) A63B 22/20 (2006.01)**
[25] EN
[54] **HYBRID RESISTANCE SYSTEM**
[54] **SYSTEME DE RESISTANCE HYBRIDE**
[72] HABING, DOUGLAS JOHN, US
[73] HABING, DOUGLAS JOHN, US
[85] 2014-12-04
[86] 2013-06-14 (PCT/US2013/045998)
[87] (WO2013/192048)
[30] US (61/661,294) 2012-06-18
[30] US (13/801,941) 2013-03-13

---

[11] **2,875,836**
[13] C
[51] **Int.Cl. C09D 11/30 (2014.01) B82Y 30/00 (2011.01) B41F 7/02 (2006.01) B41J 2/01 (2006.01) C09D 11/10 (2014.01)**
[25] EN
[54] **AQUEOUS DISPERSIBLE POLYMER INKS**
[54] **ENCRES POLYMERES DISPERSIBLES AQUEUSES**
[72] BRETON, MARCEL, CA
[72] MOORLAG, CAROLYN, CA
[72] SACRIPANTE, GUERINO, CA
[73] XEROX CORPORATION, US
[86] (2875836)
[87] (2875836)
[22] 2014-12-18
[30] US (14/139,708) 2013-12-23

---

[11] **2,876,423**
[13] C
[51] **Int.Cl. G06Q 30/02 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING OFFER ELIGIBILITY USING A PREDICATE LOGIC TREE AGAINST SETS OF INPUT DATA**
[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE L'ELIGIBILITE A UNE OFFRE A L'AIDE D'UNE ARBORESCENCE LOGIQUE D'ATTRIBUTS EN FONCTION D'ENSEMBLES DE DONNEES D'ENTREE**
[72] ZACHRISEN, ESPEN, US
[73] TRANSFORM SR BRANDS, LLC, US
[85] 2014-12-11
[86] 2013-05-29 (PCT/US2013/042994)
[87] (WO2013/188101)
[30] US (13/495,228) 2012-06-13

---

[11] **2,876,519**
[13] C
[51] **Int.Cl. C12N 15/53 (2006.01) A23K 10/30 (2016.01) A23L 33/115 (2016.01) A01H 6/20 (2018.01) A01H 5/00 (2018.01) A23D 9/00 (2006.01) A61K 31/20 (2006.01) A61K 31/201 (2006.01) A61K 31/202 (2006.01) C11B 1/10 (2006.01) C11C 3/10 (2006.01) C12N 5/10 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 9/10 (2006.01) C12N 15/52 (2006.01) C12N 15/62 (2006.01) C12N 15/82 (2006.01) C12P 7/64 (2006.01)**
[25] EN
[54] **PRODUCTION OF LONG CHAIN POLYUNSATURATED FATTY ACIDS IN PLANT CELLS**
[54] **PRODUCTION D'ACIDES GRAS POLYINSATURES A CHAINE LONGUE DANS DES CELLULES VEGETALES**
[72] PETRIE, JAMES ROBERTSON, AU
[72] SINGH, SURINDER PAL, AU
[72] DE FEYTER, ROBERT CHARLES, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[73] NUSEED PTY LTD, AU
[73] GRAINS RESEARCH AND DEVELOPMENT CORPORATION, AU
[85] 2014-12-12
[86] 2013-06-14 (PCT/AU2013/000639)
[87] (WO2013/185184)
[30] US (61/660,392) 2012-06-15
[30] US (61/663,344) 2012-06-22
[30] US (61/697,676) 2012-09-06
[30] US (61/782,680) 2013-03-14

---

[11] **2,876,528**
[13] C
[51] **Int.Cl. C13B 50/00 (2011.01) C13B 40/00 (2011.01) A23G 3/42 (2006.01) A61K 31/70 (2006.01) A61K 36/77 (2006.01) A61K 9/20 (2006.01)**
[25] EN
[54] **SOLID MAPLE SYRUP COMPOSITIONS**
[54] **COMPOSITIONS DE SIROP D'ERABLE SOLIDES**
[72] ROWE, JOHN LAWRENCE, CA
[73] ISLAND ABBEY FOODS LTD., CA
[85] 2014-12-12
[86] 2013-07-11 (PCT/CA2013/050537)
[87] (WO2014/008602)
[30] US (61/671,171) 2012-07-13

[11] **2,876,537**
[13] C
[51] **Int.Cl. C13K 3/00 (2006.01) A23L 29/30 (2016.01) A23L 33/125 (2016.01) A23G 3/42 (2006.01) A61K 36/88 (2006.01)**
[25] EN
[54] **SOLID AGAVE SYRUP COMPOSITIONS**
[54] **COMPOSITIONS DE SIROP D'AGAVE SOLIDES**
[72] ROWE, JOHN LAWRENCE, CA
[73] ISLAND ABBEY FOODS LTD., CA
[85] 2014-12-12
[86] 2013-07-11 (PCT/CA2013/050538)
[87] (WO2014/008603)
[30] US (61/671,159) 2012-07-13

[11] **2,876,655**
[13] C
[51] **Int.Cl. B65G 47/71 (2006.01) B65G 47/57 (2006.01) B65G 47/82 (2006.01) B65G 47/84 (2006.01)**
[25] EN
[54] **SERVO ROTARY SHINGLE DIVERTER AND METHOD**
[54] **ELEMENT ET PROCEDE DE DEVIATION DE BARDEAU SERVO ROTATIF**
[72] MISHLER, PATRICK C., US
[73] BUILDING MATERIALS INVESTMENT CORPORATION, US
[86] (2876655)
[87] (2876655)
[22] 2014-12-31
[30] US (61/922,189) 2013-12-31
[30] US (14/586,146) 2014-12-30

[11] **2,876,675**
[13] C
[51] **Int.Cl. C11C 3/00 (2006.01) C10G 3/00 (2006.01) C11B 3/02 (2006.01) A23D 9/00 (2006.01)**
[25] EN
[54] **NATURAL OIL METATHESIS COMPOSITIONS**
[54] **COMPOSITIONS OBTENUES PAR METATHESE D'HUILE NATURELLE**
[72] COHEN, STEVEN A., US
[72] MORIE-BEBEL, M. MICHELLE, US
[72] ILSEMAN, ALEXANDER D., US
[72] BERGMANN, BENJAMIN, US
[72] DIBIASE, STEPHEN A., US
[72] CHRISTENSEN, S. ALEXANDER, US
[73] WILMAR TRADING PTE LTE, SG
[85] 2014-12-12
[86] 2013-06-20 (PCT/US2013/046735)
[87] (WO2013/192384)
[30] US (61/662,318) 2012-06-20
[30] US (61/781,892) 2013-03-14

[11] **2,877,185**
[13] C
[51] **Int.Cl. A01N 63/14 (2020.01) A01K 67/033 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING ARTHROPODS AND ASTIGMATID MITE EGGS**
[54] **COMPOSITION COMPRENANT DES AGENTS DE LUTTE CONTRE LES ARTHROPODES ET DES OEUFS DE MITES ASTIGMATES**
[72] GUICHOU, SABINE, FR
[72] KREITER, SERGE, FR
[72] FERRERO, MAXIME, FR
[72] MAIGNET, PASCAL, FR
[73] CENTRE INTERNATIONAL D'ETUDES SUPERIEURES EN SCIENCES AGRONOMIQUES, FR
[73] BIOLINE FRANCE, FR
[85] 2014-12-18
[86] 2013-06-24 (PCT/EP2013/063130)
[87] (WO2013/190142)
[30] FR (1255950) 2012-06-22

[11] **2,877,216**
[13] C
[51] **Int.Cl. F25J 5/00 (2006.01) F25J 1/02 (2006.01) F25J 3/02 (2006.01) F25J 3/06 (2006.01) B01D 53/00 (2006.01) C22B 43/00 (2006.01)**
[25] FR
[54] **METHOD AND APPARATUS FOR COOLING A FLOW CONTAINING AT LEAST 35% CARBON DIOXIDE AND MERCURY**
[54] **PROCEDE ET APPAREIL DE REFROIDISSEMENT D'UN DEBIT CONTENANT AU MOINS 35% DE DIOXYDE DE CARBONE ET DU MERCURE**
[72] BRIGLIA, ALAIN, FR
[72] DARDE, ARTHUR, FR
[72] GRANADOS, LUDOVIC, FR
[72] LECLERC, MATHIEU, FR
[72] LOCKWOOD, FREDERICK, FR
[72] TRAVERSAC, XAVIER, FR
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2014-12-18
[86] 2013-07-12 (PCT/FR2013/051684)
[87] (WO2014/009675)
[30] FR (1256769) 2012-07-13

[11] **2,877,612**
[13] C
[51] **Int.Cl. C01B 32/162 (2017.01) C01B 32/158 (2017.01) C01B 32/16 (2017.01)**
[25] EN
[54] **CARBON NANOTUBES AND PRODUCTION METHOD THEREOF**
[54] **NANOTUBES DE CARBONE ET LEUR PROCEDE DE PRODUCTION**
[72] NODA, SUGURU, JP
[72] CHEN, ZHONGMING, JP
[72] KIM, DONG YOUNG, JP
[72] UEDA, SHUNSUKE, JP
[72] HABA, EISUKE, JP
[73] THE UNIVERSITY OF TOKYO, JP
[73] HITACHI CHEMICAL COMPANY, LTD., JP
[85] 2014-12-22
[86] 2013-06-20 (PCT/JP2013/066971)
[87] (WO2013/191253)
[30] JP (2012-141428) 2012-06-22

[11] **2,877,797**
[13] C
[51] **Int.Cl. A01N 33/22 (2006.01) A01N 43/40 (2006.01) A01N 43/82 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL AGENTS CONTAINING FLUFENACET, ACLONIFEN, AND DIFLUFENICAN**
[54] **AGENTS HERBICIDES RENFERMANT DU FLUFENACET, DE L'ACLONIFENE ET DU DIFLUFENICAN**
[72] SCHREIBER, DOMINIQUE, DE
[72] BRUGGEMANN, DIRK, DE
[73] BAYER CROPSCIENCE AG, DE
[85] 2014-12-23
[86] 2013-06-25 (PCT/EP2013/063316)
[87] (WO2014/001359)
[30] DE (10 2012 211 040.2) 2012-06-27

[11] **2,877,862**
[13] C
[51] **Int.Cl. C07D 403/12 (2006.01) A01N 43/78 (2006.01) C07D 403/14 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 407/12 (2006.01) C07D 407/14 (2006.01) C07D 409/12 (2006.01) C07D 409/14 (2006.01) C07D 411/14 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **FUNGICIDAL HETEROCYCLIC CARBOXAMIDES**
[54] **CARBOXAMIDES HETEROCYCLIQUES FONGICIDES**
[72] BEREZNAK, JAMES FRANCIS, US
[72] GUTTERIDGE, STEVEN, US
[72] TAGGI, ANDREW EDMUND, US
[72] REDDY, RAVISEKHARA P., IN
[72] CAMPBELL, MATTHEW JAMES, US
[72] KAR, MOUMITA, IN
[72] DESAEGER, JOHAN A. J., US
[73] FMC CORPORATION, US
[85] 2014-12-23
[86] 2013-06-10 (PCT/US2013/044951)
[87] (WO2014/004064)
[30] US (61/666,531) 2012-06-29
[30] US (61/780,401) 2013-03-13
[30] US (61/819,217) 2013-05-03

[11] **2,878,003**
[13] C
[51] **Int.Cl. A01G 13/00 (2006.01) A01C 1/02 (2006.01) A01G 9/18 (2006.01) A01G 9/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR HIGH-YIELD PLANT PRODUCTION IN ANY ENVIRONMENT**
[54] **SYSTEME ET PROCEDE DE PRODUCTION DE PLANTES A HAUT RENDEMENT DANS N'IMPORTE QUEL ENVIRONNEMENT**
[72] FRIEDMAN, JON, US
[72] MCNAMARA, BRAD, US
[73] FREIGHT FARMS, US
[85] 2014-12-24
[86] 2013-07-01 (PCT/US2013/048984)
[87] (WO2014/005156)
[30] US (61/666,354) 2012-06-29

[11] **2,878,621**
[13] C
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01) A61P 29/00 (2006.01) C07D 403/14 (2006.01) C07D 407/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 487/08 (2006.01) C07D 491/08 (2006.01) C07D 491/10 (2006.01)**
[25] EN
[54] **PYRIMIDINE PYRAZOLYL DERIVATIVES**
[54] **DERIVES DE PYRAZOLYL-PYRIMIDINE**
[72] CROSIGNANI, STEFANO, FR
[72] JORAND-LEBRUN, CATHERINE, FR
[72] GERBER, PATRICK, CH
[72] MUZERELLE, MATHILDE, FR
[73] ARES TRADING S.A., CH
[85] 2015-01-08
[86] 2013-07-03 (PCT/EP2013/001950)
[87] (WO2014/008992)
[30] EP (12175660.5) 2012-07-10
[30] US (61/669,843) 2012-07-10

[11] **2,878,744**
[13] C
[51] **Int.Cl. C22B 3/10 (2006.01) C01F 7/02 (2006.01) C01F 7/38 (2006.01) C01F 7/56 (2006.01) C01G 23/04 (2006.01) C01G 23/047 (2006.01) C22B 3/06 (2006.01) C22B 21/00 (2006.01)**
[25] EN
[54] **PROCESSES FOR PREPARING ALUMINUM CHLORIDE AND VARIOUS OTHER PRODUCTS BY HCL LEACHING**
[54] **PROCEDES DE PREPARATION DE CHLORURE D'ALUMINIUM ET DE DIVERS AUTRES PRODUITS PAR LIXIVIATION AU CHLORYDRATE**
[72] BOUDREAULT, RICHARD, CA
[72] FOURNIER, JOEL, CA
[72] PRIMEAU, DENIS, CA
[72] LABRECQUE-GILBERT, MARIE-MAXIME, CA
[73] ORBITE TECHNOLOGIES INC., CA
[85] 2015-01-09
[86] 2013-07-12 (PCT/CA2013/000638)
[87] (WO2014/008586)
[30] US (61/670,645) 2012-07-12
[30] CA (PCT/CA2012/000871) 2012-09-17
[30] US (61/726,971) 2012-11-15
[30] CA (PCT/CA2013/000021) 2013-01-10

[11] **2,878,757**
[13] C
[51] **Int.Cl. B29C 51/16 (2006.01) B32B 3/26 (2006.01) B32B 27/32 (2006.01) G09F 3/04 (2006.01)**
[25] EN
[54] **POLYMER FILM FOR IN-MOULD LABELLING**
[54] **FEUILLE POLYMERE POUR L'ETIQUETAGE DANS UN MOULE**
[72] DUPRE, YVONNE, DE
[73] TREOFAN GERMANY GMBH & CO. KG, DE
[85] 2015-01-09
[86] 2013-07-10 (PCT/EP2013/002030)
[87] (WO2014/009010)
[30] EP (12005126.3) 2012-07-11

[11] **2,878,806**
[13] C
[51] **Int.Cl. G02C 5/14 (2006.01) G02C 5/00 (2006.01) G02C 5/16 (2006.01)**
[25] EN
[54] **EYEGLASSES TEMPLE**
[54] **BRANCHE DE LUNETTES**
[72] TORMEN, ALESSANDRO, IT
[73] LUXOTTICA S.R.L., IT
[85] 2015-01-09
[86] 2013-06-27 (PCT/IB2013/055274)
[87] (WO2014/009831)
[30] IT (BO2012A000372) 2012-07-10

[11] **2,879,197**
[13] C
[51] **Int.Cl. H01L 51/46 (2006.01) B32B 7/025 (2019.01)**
[25] EN
[54] **PHOTOELECTRIC CONVERSION LAYER COMPOSITION AND PHOTOELECTRIC CONVERSION ELEMENT**
[54] **COMPOSITION DE COUCHE DE CONVERSION PHOTOELECTRIQUE ET ELEMENT DE CONVERSION PHOTOELECTRIQUE**
[72] FUKUI, KAZUHISA, JP
[72] SAKURAI, MAMI, JP
[73] DAICEL CORPORATION, JP
[85] 2015-01-14
[86] 2013-07-24 (PCT/JP2013/070037)
[87] (WO2014/017535)
[30] JP (2012-167204) 2012-07-27

[11] **2,879,358**
[13] C
[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/96 (2006.01)**
[25] EN
[54] **METHOD FOR REMOVING AN ESTER FROM A VAPOR MIXTURE**
[54] **PROCEDE POUR L'ELIMINATION D'UN ESTER D'UN MELANGE DE VAPEURS**
[72] DUNNENBERGER, DANIEL, CH
[72] LOVIAT, FRANCOIS, CH
[73] SULZER MANAGEMENT AG, CH
[85] 2015-01-16
[86] 2013-04-23 (PCT/EP2013/058394)
[87] (WO2014/015999)
[30] EP (12177650.4) 2012-07-24

[11] **2,879,784**
[13] C
[51] **Int.Cl. A23B 7/152 (2006.01) A23B 7/154 (2006.01) B65D 81/20 (2006.01) B65D 81/28 (2006.01)**
[25] EN
[54] **METHODS OF HANDLING AVOCADOS AND SYSTEM**
[54] **PROCEDES DE MANUTENTION D'AVOCATS ET SYSTEME ASSOCIE**
[72] MIR, NAZIR, US
[72] CIFUENTES, RODRIGO A., CL
[72] MCCASKEY, EVAN, US
[72] BALASUBRAMANIAN, AISHWARYA, US
[72] EDAGI, FERNANDO K., US
[72] JAMES, WILLIAM NIXON, US
[72] MCGEE, ROBERT L., US
[73] AGROFRESH INC., US
[85] 2015-01-20
[86] 2013-07-19 (PCT/US2013/051306)
[87] (WO2014/018399)
[30] US (61/675,488) 2012-07-25

[11] **2,880,355**
[13] C
[51] **Int.Cl. C22B 3/22 (2006.01) C22B 3/08 (2006.01) C22B 3/26 (2006.01) C22B 60/02 (2006.01)**
[25] EN
[54] **HYDROMETALLURGICAL PROCESS USING MULTI-STAGE NANOFILTRATION**
[54] **PROCEDE HYDROMETALLURGIQUE METTANT EN □UVRE UNE NANOFILTRATION A ETAGES MULTIPLES**
[72] LASHKARI, SIAMAK, CA
[72] MOK, FELIX, CA
[72] MUMBA, ANTHONY, CA
[72] RAMASUBBU, GANAPATHY, CA
[73] CHEMETICS INC., CA
[85] 2015-01-28
[86] 2013-08-14 (PCT/CA2013/050623)
[87] (WO2014/029017)
[30] US (61/692,233) 2012-08-23

[11] **2,880,380**
[13] C
[51] **Int.Cl. A61F 2/00 (2006.01)**
[25] EN
[54] **PACKAGING FOR A HERNIA REPAIR DEVICE**
[54] **EMBALLAGE POUR DISPOSITIF DE REPARATION DES HERNIES**
[72] BAILLY, PIERRE, FR
[72] VIAL, THOMAS, FR
[73] SOFRADIM PRODUCTION, FR
[85] 2015-01-28
[86] 2013-09-27 (PCT/IB2013/002844)
[87] (WO2014/049446)
[30] US (61/706,912) 2012-09-28

[11] **2,881,365**
[13] C
[51] **Int.Cl. A01D 75/00 (2006.01) A01D 34/62 (2006.01)**
[25] EN
[54] **CONVERGING DRUM AND STRIPPER ARRANGEMENT**
[54] **DISPOSITIF DE TAMBOUR ET EGRENEUSE CONVERGEANT**
[72] ROSENBALM, ALLAN, US
[72] STEPHENSON, ROGER D., US
[73] DEERE & COMPANY, US
[86] (2881365)
[87] (2881365)
[22] 2015-02-09
[30] US (14/185,763) 2014-02-20

[11] **2,881,392**
[13] C
[51] **Int.Cl. C10G 21/28 (2006.01) C10G 21/02 (2006.01) C10G 21/27 (2006.01) C10G 55/06 (2006.01)**
[25] EN
[54] **A PROCESS FOR PRODUCTION OF BENZENE LEAN GASOLINE BY RECOVERY OF HIGH PURITY BENZENE FROM UNPROCESSED CRACKED GASOLINE FRACTION CONTAINING ORGANIC PEROXIDES**
[54] **PROCEDE DE FABRICATION D'ESSENCE A FAIBLE TENEUR EN BENZENE PAR RECUPERATION DE BENZENE A PURETE ELEVEE A PARTIR DE FRACTION D'ESSENCE DE CRAQUAGE NON TRAITEE CONTENANT DES PEROXYDES ORGANIQUES**
[72] GARG, MADHUKAR ONKARNATH, IN
[72] NANOTI, SHRIKANT MADHUSUDAN, IN
[72] NAUTIYAL, BHAGAT RAM, IN
[72] KUMAR, SUNIL, IN
[72] GHOSH, PRASENJIT, IN
[72] ., NISHA, IN
[72] YADAV, POOJA, IN
[72] KUMAR, JAGDISH, IN
[72] TIWARI, MANISH, IN
[72] RAO MEKA, RAJA GOPALA, IN
[72] MURTHY, NAGARATHINAM SHENBAGA, IN
[73] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN
[73] RELIANCE INDUSTRIES LIMITED, IN
[85] 2015-02-06
[86] 2013-03-13 (PCT/IN2013/000154)
[87] (WO2014/024206)
[30] IN (2502/DEL/2012) 2012-08-09

[11] **2,881,904**
[13] C
[51] **Int.Cl. C22C 38/26 (2006.01) C21D 1/18 (2006.01) C21D 9/00 (2006.01)**
[25] EN
[54] **ULTRA-HIGH TOUGHNESS AND HIGH STRENGTH DRILL PIPE AND MANUFACTURING PROCESS THEREOF**
[54] **TIGE DE FORAGE EXTREMEMENT SOLIDE ET EXTREMEMENT RESISTANTE ET SON PROCEDE DE FABRICATION**
[72] ZHAO, PENG, CN
[72] YU, JIE, CN
[73] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2015-02-12
[86] 2013-08-21 (PCT/CN2013/081922)
[87] (WO2014/029328)
[30] CN (201210299488.3) 2012-08-21

[11] **2,881,960**
[13] C
[51] **Int.Cl. C02F 3/12 (2006.01) C02F 3/00 (2006.01)**
[25] EN
[54] **WASTEWATER OVERFLOW SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DEBORDEMENT D'EAUX USEES**
[72] WOODARD, STEVEN E., US
[72] RODRIGUEZ, PAUL M., US
[72] BISHOP, ANDREW G., US
[73] EVOQUA WATER TECHNOLOGIES LLC, US
[85] 2015-02-12
[86] 2013-03-14 (PCT/US2013/031430)
[87] (WO2014/065859)
[30] US (61/716,663) 2012-10-22
[30] US (61/717,865) 2012-10-24

[11] **2,883,332**
[13] C
[51] **Int.Cl. C07C 41/09 (2006.01) B01D 3/00 (2006.01) B01J 14/00 (2006.01) C07C 41/42 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCTION OF DME FROM CRUDE METHANOL**
[54] **PROCEDE DE PRODUCTION DE DME A PARTIR DE METHANOL BRUT**
[72] DAHL, PER JUUL, DK
[72] OSTERGAARD, JANNI, DK
[73] HALDOR TOPSOE A/S, DK
[85] 2015-02-19
[86] 2013-08-14 (PCT/EP2013/066977)
[87] (WO2014/029672)
[30] EP (PCT/EP2012/066253) 2012-08-21

[11] **2,883,353**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 9/00 (2006.01) A61K 31/437 (2006.01)**
[25] EN
[54] **ANTAGONISTS OF CHEMOKINE RECEPTORS**
[54] **ANTAGONISTES DES RECEPTEURS DE CHIMIOKINE**
[72] CHEN, XI, US
[72] DRAGOLI, DEAN R., US
[72] FAN, PINGCHEN, US
[72] LI, YANDONG, US
[72] POWERS, JAY P., US
[72] PUNNA, SREENIVAS, US
[72] TANAKA, HIROKO, US
[72] ZHANG, PENGLIE, US
[73] CHEMOCENTRYX, INC., US
[85] 2015-02-25
[86] 2013-08-27 (PCT/US2013/056796)
[87] (WO2014/035967)
[30] US (61/693,758) 2012-08-27
[30] US (61/831,694) 2013-06-06

[11] **2,883,635**
[13] C
[51] **Int.Cl. B22D 41/24 (2006.01) B22D 41/34 (2006.01) B22D 41/40 (2006.01)**
[25] EN
[54] **SLIDING CLOSURE AT THE SPOUT OF A CONTAINER CONTAINING A MOLTEN METAL, AND METHOD FOR SETTING CLOSURE PLATES IN THE SLIDING CLOSURE**
[54] **FERMETURE COULISSANTE EQUIPANT LE BEC VERSEUR D'UN RECIPIENT CONTENANT UN METAL EN FUSION AINSI QUE PROCEDE DE MISE EN PLACE DE PLAQUES DE FERMETURE DANS LA FERMETURE COULISSANTE**
[72] GISLER, REBECCA, CH
[72] COUSIN, JEAN-DANIEL, CH
[72] STEINER, BENNO, CH
[73] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT
[85] 2015-03-02
[86] 2013-10-09 (PCT/EP2013/071081)
[87] (WO2014/056994)
[30] CH (01928/12) 2012-10-11

[11] **2,883,855**
[13] C
[51] **Int.Cl. A61K 31/439 (2006.01) A61K 9/00 (2006.01) A61L 29/14 (2006.01) A61L 29/16 (2006.01) A61L 31/16 (2006.01) A61M 31/00 (2006.01) A61P 13/00 (2006.01) A61P 13/10 (2006.01)**
[25] EN
[54] **DRUG DELIVERY SYSTEMS AND METHODS FOR TREATMENT OF BLADDER VOIDING DYSFUNCTION|AND OTHER LOWER URINARY TRACT DISORDERS BY USING TROSPIUM**
[54] **SYSTEMES ET PROCEDES D'ADMINISTRATION DE MEDICAMENT POUR LE TRAITEMENT D'UN DYSFONCTIONNEMENT DE LA VIDANGE DE LA VESSIE ET D'AUTRES TROUBLES DU TRACTUS URINAIRE INFERIEUR**
[72] GIESING, DENNIS, US
[73] TARIS BIOMEDICAL LLC, US
[85] 2015-03-03
[86] 2013-09-18 (PCT/US2013/060479)
[87] (WO2014/047221)
[30] US (61/702,576) 2012-09-18

[11] **2,884,832**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/444 (2006.01) A61K 31/53 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **MEANS AND METHOD FOR TREATING SOLID TUMOURS**
[54] **MOYENS ET PROCEDE POUR TRAITER DES TUMEURS SOLIDES**
[72] LINDER, STIG, SE
[73] VIVOLUX AB, SE
[85] 2015-03-12
[86] 2013-09-17 (PCT/SE2013/000142)
[87] (WO2014/046589)
[30] SE (1200571-6) 2012-09-21

[11] **2,884,884**
[13] C
[51] **Int.Cl. G06F 3/01 (2006.01) H04N 13/128 (2018.01) H04N 13/271 (2018.01) G06F 3/03 (2006.01) G06F 3/042 (2006.01) G06T 7/50 (2017.01)**
[25] EN
[54] **TOUCHLESS INPUT**
[54] **SAISIE SANS TOUCHER POUR INTERFACE D'UTILISATEUR**
[72] HEGDE, GURU, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2015-03-12
[86] 2013-10-11 (PCT/US2013/064427)
[87] (WO2014/059205)
[30] US (13/651,187) 2012-10-12

[11] **2,884,890**
[13] C
[51] **Int.Cl. B01J 37/02 (2006.01) B01J 27/188 (2006.01) B01J 27/19 (2006.01) B01J 38/52 (2006.01) B01J 38/62 (2006.01) C10G 45/08 (2006.01) C10G 49/04 (2006.01) B01J 31/06 (2006.01) B01J 35/10 (2006.01) B01J 37/20 (2006.01)**
[25] EN
[54] **SUPPORTED HYDROTREATING CATALYSTS HAVING ENHANCED ACTIVITY**
[54] **CATALYSEURS SUPPORTES D'HYDROTRAITEMENT DOTES D'UNE ACTIVITE AMELIOREE**
[72] VOGELAAR, BASTIAAN MAARTEN, NL
[72] BERGWERFF, JACOB ARIE, NL
[72] VAN OENE, JOHAN, NL
[72] TROMP, HENK JAN, NL
[73] ALBEMARLE EUROPE SPRL, BE
[85] 2015-03-13
[86] 2013-10-07 (PCT/EP2013/070826)
[87] (WO2014/056846)
[30] US (61/712,108) 2012-10-10

[11] **2,885,610**
[13] C
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **WOUND THERAPY DEVICE**
[54] **DISPOSITIF DE THERAPIE DE PLAIE**
[72] JOHANNISON, ULF, SE
[73] MOLNLYCKE HEALTH CARE AB, SE
[85] 2015-03-19
[86] 2013-10-01 (PCT/EP2013/002938)
[87] (WO2014/053232)
[30] EP (12186750.1) 2012-10-01
[30] US (61/708,081) 2012-10-01

[11] **2,885,650**
[13] C
[51] **Int.Cl. F04D 29/16 (2006.01) F01D 11/12 (2006.01) F04D 29/52 (2006.01)**
[25] FR
[54] **TURBOMACHINE CASING AND IMPELLER**
[54] **CARTER ET ROUE A AUBES DE TURBOMACHINE**
[72] PERROT, VINCENT PAUL GABRIEL, FR
[72] COCHON, SEBASTIEN, FR
[73] SNECMA, FR
[85] 2015-03-19
[86] 2013-09-19 (PCT/FR2013/052172)
[87] (WO2014/049239)
[30] FR (1258959) 2012-09-25

---

[11] **2,885,709**
[13] C
[51] **Int.Cl. E04C 3/02 (2006.01)**
[25] EN
[54] **TRUSS**
[54] **FERME**
[72] SIROWATKA, JOHN, US
[73] UNIVERSAL FOREST PRODUCTS, INC., US
[86] (2885709)
[87] (2885709)
[22] 2015-03-23
[30] US (61/969,481) 2014-03-24

---

[11] **2,886,445**
[13] C
[51] **Int.Cl. B01F 3/04 (2006.01) C02F 3/20 (2006.01) F16L 39/00 (2006.01)**
[25] EN
[54] **A GAS DISTRIBUTION ASSEMBLY**
[54] **ENSEMBLE DISTRIBUTION DE GAZ**
[72] KRALL, JOSEPH G., US
[73] XYLEM WATER SOLUTIONS U.S.A., INC., US
[85] 2015-03-26
[86] 2013-10-30 (PCT/US2013/067499)
[87] (WO2014/070884)
[30] US (13/665,262) 2012-10-31

---

[11] **2,886,719**
[13] C
[51] **Int.Cl. B62D 55/065 (2006.01) B62D 55/18 (2006.01) B62D 55/26 (2006.01) B62D 55/30 (2006.01) B62D 55/32 (2006.01)**
[25] EN
[54] **TRACK ASSEMBLY FOR AN ALL-TERRAIN VEHICLE**
[54] **CHENILLES POUR VEHICULE TOUT TERRAIN**
[72] BOIVIN, DENIS, CA
[72] BOIVIN, ALAIN, CA
[72] COURTEMANCHE, DENIS, CA
[73] CAMSO INC., CA
[86] (2886719)
[87] (2886719)
[22] 2002-05-30
[62] 2,822,562
[30] CA (2,372,949) 2002-02-25

---

[11] **2,886,751**
[13] C
[51] **Int.Cl. F16F 1/12 (2006.01) A61G 5/06 (2006.01) B60B 9/00 (2006.01) B60B 9/28 (2006.01) F16F 9/02 (2006.01)**
[25] EN
[54] **WHEEL WITH SUSPENSION SYSTEM AND CENTRALIZING UNIT WITH SUSPENSION SYSTEM**
[54] **ROUE EQUIPEE D'UN SYSTEME DE SUSPENSION ET UNITE DE CENTRALISATION EQUIPEE D'UN SYSTEME DE SUSPENSION**
[72] WINSHTEIN, RONNY, IL
[72] GROSS, AMICHAY HAIM, IL
[72] BRAND, DVIR, IL
[72] SARDES, AHISHAY, IL
[73] REE AUTOMOTIVE LTD., IL
[85] 2015-03-30
[86] 2012-10-08 (PCT/IB2012/001994)
[87] (WO2013/061121)
[30] US (61/552,505) 2011-10-28
[30] IB (PCT/IB2012/000530) 2012-03-20

---

[11] **2,887,103**
[13] C
[51] **Int.Cl. B41M 5/24 (2006.01)**
[25] FR
[54] **METHOD FOR SURFACE MARKING A MECHANICAL PART WITH A PREDEFINED GRAPHIC REPRESENTATION VISIBLE TO THE NAKED EYE**
[54] **PROCEDE DE MARQUAGE EN SURFACE D'UNE PIECE MECANIQUE PAR UNE REPRESENTATION GRAPHIQUE PREDEFINIE VISIBLE A L'OEIL NU**
[72] BILHE, PASCAL, FR
[72] BEGUE-DUTHU, GEOFFREY, FR
[72] GUIPONT, VINCENT, FR
[73] SNECMA, FR
[85] 2015-04-01
[86] 2013-10-07 (PCT/FR2013/052374)
[87] (WO2014/057195)
[30] FR (1259546) 2012-10-08

---

[11] **2,887,415**
[13] C
[51] **Int.Cl. B07B 1/28 (2006.01) B07B 1/46 (2006.01) B07B 1/48 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUSES FOR SCREENING**
[54] **PROCEDE ET APPAREILS DE TAMISAGE**
[72] WOJCIECHOWSKI, KEITH, US
[72] NEWMAN, CHRISTIAN, US
[73] DERRICK CORPORATION, US
[85] 2015-04-08
[86] 2012-10-16 (PCT/US2012/060444)
[87] (WO2014/062164)
[30] US (13/653,162) 2012-10-16

---

[11] **2,887,736**
[13] C
[51] **Int.Cl. F25J 3/02 (2006.01) F25J 3/06 (2006.01)**
[25] EN
[54] **METHODS FOR SEPARATING HYDROCARBON GASES**
[54] **PROCEDES POUR LA SEPARATION DE GAZ HYDROCARBONES**
[72] MALIK, ZAHEER I., US
[72] KEY, RONALD D., US
[73] LINDE ENGINEERING NORTH AMERICA INC., US
[85] 2015-01-09
[86] 2013-06-12 (PCT/US2013/045346)
[87] (WO2014/011344)
[30] US (13/547,153) 2012-07-12

[11] **2,887,901**
[13] C
[51] **Int.Cl. F01D 11/12 (2006.01) C04B 35/48 (2006.01) F01D 5/28 (2006.01)**
[25] FR
[54] **ROTOR-STATOR ASSEMBLY FOR A GAS-TURBINE ENGINE**
[54] **ENSEMBLE ROTOR-STATOR POUR MOTEUR A TURBINE A GAZ**
[72] GURT SANTANACH, JULIEN, FR
[72] CRABOS, FABRICE, FR
[73] TURBOMECA, FR
[85] 2015-04-09
[86] 2013-10-07 (PCT/FR2013/052370)
[87] (WO2014/057194)
[30] FR (1259704) 2012-10-11

[11] **2,887,917**
[13] C
[51] **Int.Cl. B65D 33/01 (2006.01) B65D 77/06 (2006.01) B65D 81/20 (2006.01)**
[25] EN
[54] **NONUNIFORMLY PERFORATED PLASTIC BAG**
[54] **SAC PLASTIQUE PERFORE DE MANIERE NON UNIFORME**
[72] BALASUBRAMANIAN, AISHWARAYA, US
[72] MIR, NAZIR, US
[72] MCGEE, ROBERT L., US
[72] MENNING, BRUCE A., US
[73] AGROFRESH INC., US
[85] 2015-04-10
[86] 2013-10-18 (PCT/US2013/065614)
[87] (WO2014/066154)
[30] US (61/718,320) 2012-10-25

[11] **2,888,330**
[13] C
[51] **Int.Cl. H01G 11/62 (2013.01) H01M 10/052 (2010.01) H01M 10/0568 (2010.01)**
[25] EN
[54] **ELECTROLYTE SALT AND ELECTROLYTE FOR ELECTRICITY STORAGE DEVICE, AND ELECTRICITY STORAGE DEVICE**
[54] **SEL D'ELECTROLYTE ET ELECTROLYTE DESTINES A UN DISPOSITIF DE STOCKAGE D'ELECTRICITE ET DISPOSITIF DE STOCKAGE D'ELECTRICITE**
[72] MASUDA, GEN, JP
[73] NISSHINBO HOLDINGS INC., JP
[85] 2015-04-14
[86] 2013-10-07 (PCT/JP2013/077216)
[87] (WO2014/061484)
[30] JP (2012-229110) 2012-10-16

[11] **2,888,616**
[13] C
[51] **Int.Cl. C08B 37/08 (2006.01) A61K 8/73 (2006.01) A61K 31/728 (2006.01) A61Q 19/08 (2006.01) C08J 3/075 (2006.01) C08L 5/08 (2006.01)**
[25] EN
[54] **DERMAL INJECTABLE STERILE COMPOSITION**
[54] **COMPOSITION STERILE DERMO-INJECTABLE**
[72] BOURDON, FRANCOIS, FR
[72] MEUNIER, STEPHANE, FR
[73] TEOXANE, CH
[85] 2015-04-16
[86] 2013-10-24 (PCT/IB2013/059607)
[87] (WO2014/064632)
[30] FR (1260146) 2012-10-24

[11] **2,888,869**
[13] C
[51] **Int.Cl. G06K 9/00 (2006.01)**
[25] FR
[54] **FINGER SEGMENTATION METHOD**
[54] **PROCEDE DE SEGMENTATION DE DOIGTS**
[72] PICARD, SYLVAINE, FR
[73] MORPHO, FR
[85] 2015-04-17
[86] 2013-10-16 (PCT/EP2013/071655)
[87] (WO2014/060490)
[30] FR (1259925) 2012-10-18

[11] **2,888,966**
[13] C
[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/20 (2006.01) C11D 3/37 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **FABRIC CONDITIONING COMPOSITION**
[54] **COMPOSITION DE TRAITEMENT DE TISSU**
[72] SCHRAMM, CHARLES J., JR., US
[72] TRUONG, KATIE, US
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2015-04-21
[86] 2012-12-11 (PCT/US2012/068961)
[87] (WO2014/092690)

[11] **2,889,284**
[13] C
[51] **Int.Cl. G01M 3/00 (2006.01) G01M 3/24 (2006.01) G01M 3/26 (2006.01)**
[25] EN
[54] **DETECTING LEAKS IN A FLUID DISTRIBUTION SYSTEM**
[54] **DETECTION DE FUITES DANS UN SYSTEME DE DISTRIBUTION DE FLUIDE**
[72] BRACKEN, MARC, CA
[72] YUSUF, SHABBIR, CA
[73] MUELLER INTERNATIONAL, LLC, US
[85] 2015-04-22
[86] 2013-10-25 (PCT/US2013/066817)
[87] (WO2014/066764)
[30] US (61/719,320) 2012-10-26

[11] **2,889,543**
[13] C
[51] **Int.Cl. C08G 18/08 (2006.01) B82Y 30/00 (2011.01) C08G 18/12 (2006.01) C08G 18/42 (2006.01) C08G 18/44 (2006.01) C08G 18/72 (2006.01) C08G 18/73 (2006.01) C08G 18/79 (2006.01) C08K 3/36 (2006.01) C09D 175/06 (2006.01)**
[25] EN
[54] **COATING AGENT FOR MATTABLE COATINGS**
[54] **AGENT DE REVETEMENT DESTINE A DES REVETEMENTS POUVANT ETRE DEPOLIS**
[72] SCHRINNER, MARC CLAUDIUS, CN
[72] GEWISS, HEINZ-DIETMAR, DE
[72] KLIPPERT, UWE, DE
[72] MELCHIORS, MARTIN, DE
[73] BAYER MATERIALSCIENCE AG, DE
[85] 2015-04-24
[86] 2013-10-25 (PCT/EP2013/072400)
[87] (WO2014/067873)
[30] EP (12190315.7) 2012-10-29

[11] **2,890,470**
[13] C
[51] **Int.Cl. A61K 31/42 (2006.01) A61K 9/10 (2006.01) A61K 47/30 (2006.01) A61P 25/28 (2006.01) C07D 261/08 (2006.01)**
[25] EN
[54] **SOLID DISPERSIONS OF INSOLUBLE DRUG AND PREPARATION METHOD THEREOF**
[54] **DISPERSIONS SOLIDES DE MEDICAMENT INSOLUBLE ET PROCEDE DE PREPARATION CORRESPONDANT**
[72] BAEK, MYOUNG KI, KR
[72] PEGAN, AUGUSTIN, US
[73] SK BIOPHARMACEUTICALS CO., LTD., KR
[85] 2015-05-01
[86] 2013-11-07 (PCT/KR2013/010088)
[87] (WO2014/073889)
[30] KR (10-2012-0125516) 2012-11-07

[11] **2,891,439**
[13] C
[51] **Int.Cl. F16L 39/02 (2006.01)**
[25] EN
[54] **SEALING SYSTEM**
[54] **SYSTEME DE SCELLEMENT**
[72] MUNROE, RICHARD POUNDSTONE, US
[72] WELLS, LAWRENCE E., US
[72] BRAMAN, ARTHUR WILLIAM, US
[73] NATIONAL OILWELL VARCO, L.P., US
[85] 2015-05-13
[86] 2013-11-19 (PCT/US2013/070830)
[87] (WO2014/081731)
[30] US (61/729,326) 2012-11-21
[30] US (61/800,894) 2013-03-15

[11] **2,891,472**
[13] C
[51] **Int.Cl. G06F 16/957 (2019.01)**
[25] EN
[54] **DELIVERY AND DISPLAY OF PAGE PREVIEWS DURING PAGE RETRIEVAL EVENTS**
[54] **DISTRIBUTION ET AFFICHAGE D'APERCUS DE PAGE DURANT DES EVENEMENTS D'EXTRACTION DE PAGE**
[72] KUMAR, ROHIT KRISHNA, US
[72] BRESSLER, SCOTT ZACHARY, US
[72] SHAM, IVAN KING YU, US
[72] STEWART, IAN WILLIAM, US
[72] TAYLOR, BRETT RICHARD, US
[72] HILL, PETER FRANK, US
[72] NAIR, AAKARSH, US
[72] REDDIE, STEVEN MICHAEL, US
[72] ARMSTRONG, PATRICK JOSEPH, US
[72] YOUNG, SAMUEL JOHN, US
[72] VASWANI, AMEET NIRMAL, US
[72] HAYDEN, ANDREW, US
[73] AMAZON TECHNOLOGIES, INC., US
[85] 2015-05-13
[86] 2013-11-12 (PCT/US2013/069733)
[87] (WO2014/078326)
[30] US (61/726,510) 2012-11-14
[30] US (13/841,148) 2013-03-15
[30] US (13/901,446) 2013-05-23
[30] US (13/901,359) 2013-05-23
[30] US (13/901,343) 2013-05-23

[11] **2,891,540**
[13] C
[51] **Int.Cl. H04W 16/28 (2009.01) H04B 7/0452 (2017.01) H01Q 3/00 (2006.01)**
[25] EN
[54] **COMMUNICATION CONTROL DEVICE, COMMUNICATION CONTROL METHOD, AND TERMINAL DEVICE**
[54] **DISPOSITIF DE COMMANDE DE COMMUNICATION, PROCEDE DE COMMANDE DE COMMUNICATION, ET DISPOSITIF TERMINAL**
[72] TAKANO, HIROAKI, JP
[73] SONY CORPORATION, JP
[85] 2015-05-15
[86] 2013-09-26 (PCT/JP2013/076095)
[87] (WO2014/083927)
[30] JP (2012-259690) 2012-11-28

[11] **2,891,632**
[13] C
[51] **Int.Cl. A61K 47/40 (2006.01) A61K 9/08 (2006.01) A61K 31/568 (2006.01) A61K 31/57 (2006.01) A61P 5/34 (2006.01) A61P 15/08 (2006.01)**
[25] EN
[54] **AQUEOUS ORAL SOLUTIONS OF STEROID HORMONES AND HYDROXYPROPYL-BETA-CYCLODEXTRIN WITH OPTIMISED BIOAVAILABILITY**
[54] **SOLUTIONS AQUEUSES D'HORMONES STEROIDES ET D'HYDROXYPROPYL-BETA-CYCLODEXTRINE A USAGE ORAL PRESENTANT UNE BIODISPONIBILITE OPTIMISEE**
[72] BERNAREGGI, ALBERTO, CH
[72] PUPPINI, NADIA, CH
[72] NENCIONI, ALESSANDRO, CH
[73] ALTERGON S.A., CH
[85] 2015-05-14
[86] 2013-11-22 (PCT/EP2013/003538)
[87] (WO2014/082724)
[30] IT (MI2012A002027) 2012-11-28

[11] **2,891,747**
[13] C
[51] **Int.Cl. B66B 5/18 (2006.01) B66B 5/20 (2006.01)**
[25] EN
[54] **SAFETY CATCH FOR A TRAVELING BODY OF AN ELEVATOR SYSTEM**
[54] **MECANISME DE SECURITE POUR UN CORPS MOBILE D'UN SYSTEME D'ASCENSEUR**
[72] RIESER, BENEDIKT, CH
[72] MEIERHANS, DANIEL, CH
[72] OSMANBASIC, FARUK, CH
[72] GEISSHUSLER, MICHAEL, CH
[73] INVENTIO AG, CH
[85] 2015-05-15
[86] 2013-11-15 (PCT/EP2013/073990)
[87] (WO2014/082877)
[30] EP (12194422.7) 2012-11-27

[11] **2,891,882**
[13] C
[51] **Int.Cl. C21D 9/04 (2006.01) C21D 1/667 (2006.01)**
[25] EN
[54] **METHOD OF MAKING HIGH STRENGTH STEEL CRANE RAIL**
[54] **PROCEDE DE FABRICATION D'UN RAIL DE PONT ROULANT EN ACIER HAUTE RESISTANCE**
[72] BRAMFITT, BRUCE, US
[72] FLETCHER, FREDERICK, US
[72] MCCULLOUGH, JASON, US
[72] MUSCARELLA, MICHAEL, US
[72] NELSON, JOHN, US
[73] ARCELORMITTAL INVESTIGACION Y DESARROLLO S.L., ES
[85] 2015-05-15
[86] 2013-11-15 (PCT/US2013/070441)
[87] (WO2014/078746)
[30] US (61/726,945) 2012-11-15

[11] **2,892,150**
[13] C
[51] **Int.Cl. F16H 25/20 (2006.01) F16H 57/023 (2012.01) F16C 3/03 (2006.01)**
[25] EN
[54] **LINEAR ACTUATOR FOR MOTION SIMULATOR**
[54] **ACTIONNEUR LINEAIRE POUR SIMULATEUR DE MOUVEMENT**
[72] BOULAIS, STEVE, CA
[72] ROUSSEAU, ROBERT, CA
[72] SENECAL, PIERRE, CA
[73] D-BOX TECHNOLOGIES INC., CA
[85] 2015-05-20
[86] 2013-12-02 (PCT/US2013/072609)
[87] (WO2014/085805)
[30] US (61/731,575) 2012-11-30

[11] **2,892,182**
[13] C
[51] **Int.Cl. C07F 3/06 (2006.01) A61Q 15/00 (2006.01)**
[25] EN
[54] **ZINC-LYSINE COMPLEX**
[54] **COMPLEXE DE ZINC-LYSINE**
[72] PAN, LONG, US
[72] YUAN, SHAOTANG, US
[72] MATTAI, JAIRAJH, US
[72] MASTERS, JAMES GERARD, US
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2015-05-21
[86] 2012-12-19 (PCT/US2012/070498)
[87] (WO2014/098818)

[11] **2,892,425**
[13] C
[51] **Int.Cl. A46B 15/00 (2006.01)**
[25] EN
[54] **TWO-PART HANDLE FOR HOUSING A TIMER AND A USER-NOTIFICATION DEVICE**
[54] **POIGNEE EN DEUX PARTIES SERVANT A LOGER UN CHRONOMETRE ET UN DISPOSITIF DE NOTIFICATION D'UTILISATEUR**
[72] BLOCH, BRIAN, US
[72] LIEBERWIRTH, LARS RALF RAINER, DE
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2015-05-22
[86] 2013-03-18 (PCT/US2013/032763)
[87] (WO2014/098949)
[30] CN (201210599108.8) 2012-12-21

[11] **2,892,539**
[13] C
[51] **Int.Cl. B66B 5/18 (2006.01) B66B 5/20 (2006.01)**
[25] EN
[54] **CATCHING DEVICE FOR A TRAVELING BODY OF AN ELEVATOR SYSTEM**
[54] **MECANISME DE SECURITE POUR UN CORPS MOBILE D'UN SYSTEME D'ASCENSEUR**
[72] OSMANBASIC, FARUK, CH
[72] MULLER, PHILIPP, CH
[72] GURBER, LUCA, CH
[72] RIESER, BENEDIKT, CH
[72] MEIERHANS, DANIEL, CH
[72] GEISSHUSLER, MICHAEL, CH
[73] INVENTIO AG, CH
[85] 2015-05-25
[86] 2013-11-15 (PCT/EP2013/073997)
[87] (WO2014/082878)
[30] EP (12194422.7) 2012-11-27

[11] **2,892,557**
[13] C
[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/19 (2006.01) A61K 8/25 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **DENTIFRICE COMPOSITIONS COMPRISING ABRASIVE SILICA, CALCIUM CARBONATE AND ZINC COMPOUNDS**
[54] **COMPOSITIONS DE DENTIFRICE RENFERMANT DE LA SILICE ABRASIVE, DU CARBONATE DE CALCIUM ET DES COMPOSES DE ZINC**
[72] XU, YUN, CN
[72] HUANG, XIAO YI, CN
[72] XIE, YUAN HUI, CN
[72] QIN, XIONG FEI, CN
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2015-05-26
[86] 2012-12-24 (PCT/CN2012/087270)
[87] (WO2014/100928)

[11] **2,893,019**
[13] C
[51] **Int.Cl. C09C 1/22 (2006.01) C08K 9/02 (2006.01) C08L 27/06 (2006.01) C09C 1/24 (2006.01)**
[25] EN
[54] **COATED PIGMENTS FOR COLOURING PVC**
[54] **PIGMENTS ENROBES DESTINES A LA COLORATION DU PVC**
[72] CHLOPEK, KRZYSZTOF, DE
[72] MEISEN, ULRICH, DE
[72] KONIG, RALF GERHARD, DE
[73] LANXESS DEUTSCHLAND GMBH, DE
[85] 2015-05-28
[86] 2013-12-13 (PCT/EP2013/076585)
[87] (WO2014/091008)
[30] EP (12197078.4) 2012-12-13

[11] **2,893,960**
[13] C
[51] **Int.Cl. H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FINDING AND PRIORITIZING CONTENT BASED ON USER SPECIFIC INTEREST PROFILES**
[54] **SYSTEME ET PROCEDE POUR TROUVER ET PRIORISER UN CONTENU SUR LA BASE DE PROFILS D'INTERET SPECIFIQUES A UN UTILISATEUR**
[72] LEE, JONATHAN MICHAEL, CA
[72] GOMES, WAYNE LUIS, CA
[72] ORR, MICHAEL THOMAS, CA
[72] DESANCIC, DANKO, CA
[72] SAINI, PANKAJ, CA
[73] GRAPEVINE6 INC., CA
[85] 2015-06-05
[86] 2013-12-05 (PCT/CA2013/001007)
[87] (WO2014/085908)
[30] US (61/733,704) 2012-12-05

[11] **2,894,112**
[13] C
[51] **Int.Cl. C07C 309/15 (2006.01) A61K 31/185 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **NOVEL ANTAGONISTS OF THE GLUCAGON RECEPTOR**
[54] **NOUVEAUX ANTAGONISTES DU RECEPTEUR AU GLUCAGON**
[72] GOMEZ-GALENO, JORGE E., US
[72] REDDY, K. RAJA, US
[72] VAN POELJE, PAUL D., US
[72] LEMUS, ROBERT HUERTA, US
[72] NGUYEN, THANH HUU, US
[72] GROTE, MATTHEW P., US
[72] DANG, QUN, US
[72] HECKER, SCOTT J., US
[72] REDDY, MALI VENKAT, US
[72] CHEN, MINGWEI, US
[72] SUN, ZHILI, US
[72] BOYER, SERGE HENRI, US
[72] LI, HAIQING, US
[72] CRAIGO, WILLIAM, US
[73] METABASIS THERAPEUTICS, INC., US
[86] (2894112)
[87] (2894112)
[22] 2008-02-11
[62] 2,678,265
[30] US (60/889,183) 2007-02-09
[30] US (60/989,287) 2007-11-20

[11] **2,894,939**
[13] C
[51] **Int.Cl. H01H 71/10 (2006.01) H01H 3/46 (2006.01) H01H 3/48 (2006.01)**
[25] EN
[54] **ELECTRICAL SWITCHING APPARATUS AND LINK ASSEMBLY THEREFOR**
[54] **APPAREIL DE COMMUTATION ELECTRIQUE ET ENSEMBLE LIAISON POUR CELUI-CI**
[72] MALONEY, JAMES G., US
[72] LOCKHART, JEFFREY W., US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2015-06-11
[86] 2014-02-24 (PCT/US2014/017958)
[87] (WO2014/137642)
[30] US (13/789,732) 2013-03-08

[11] **2,894,961**
[13] C
[51] **Int.Cl. C07D 519/00 (2006.01) A61K 47/68 (2017.01) A61K 31/5517 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PYRROLOBENZODIAZEPINES AND CONJUGATES THEREOF**
[54] **PYRROLOBENZODIAZEPINES ET CONJUGUES ASSOCIES**
[72] HOWARD, PHILIP WILSON, GB
[73] MEDIMMUNE LIMITED, GB
[85] 2015-06-12
[86] 2013-12-20 (PCT/EP2013/077705)
[87] (WO2014/096368)
[30] US (61/740,592) 2012-12-21

[11] **2,895,350**
[13] C
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **HEMODIAFILTRATION METHOD**
[54] **PROCEDE D'HEMODIAFILTRATION**
[72] TSCHULENA, ULRICH, DE
[72] JANKOWSKI, JOACHIM, DE
[72] FABIG, ANSELM, DE
[72] MULLER, CARSTEN, DE
[73] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE
[85] 2015-06-16
[86] 2013-12-19 (PCT/EP2013/003870)
[87] (WO2014/095073)
[30] DE (10 2012 025 052.5) 2012-12-20
[30] US (61/740,026) 2012-12-20

[11] **2,895,756**
[13] C
[51] **Int.Cl. G01F 1/075 (2006.01) G08C 17/02 (2006.01) G01M 3/24 (2006.01)**
[25] EN
[54] **WATER METER SYSTEMS AND METHODS**
[54] **SYSTEMES DE COMPTEUR D'EAU ET PROCEDES ASSOCIES**
[72] WILLIAMSON, JAMES SCOTT, US
[72] KILLMEYER, JOHN MICHAEL, US
[72] MALONE, JOSHUA JAMES, US
[72] CORBITT, WALTON SCOTT, US
[72] WILLIAMSON, WALTER SCOTT, US
[73] CAPSTONE METERING LLC, US
[85] 2015-06-18
[86] 2013-12-19 (PCT/US2013/076723)
[87] (WO2014/100496)
[30] US (61/739,363) 2012-12-19

[11] **2,896,062**
[13] C
[51] **Int.Cl. C08J 5/24 (2006.01)**
[25] EN
[54] **CURABLE PREPREGS WITH SURFACE OPENINGS**
[54] **PRE-IMPREGNES DURCISSABLES AVEC OUVERTURES DE SURFACE**
[72] ROMAN, MARK, US
[72] HOWARD, STEPHEN J., US
[72] BOYD, JACK D., US
[72] LUCAS, SCOTT, US
[73] CYTEC INDUSTRIES INC., US
[85] 2015-06-19
[86] 2013-12-20 (PCT/US2013/076819)
[87] (WO2014/100543)
[30] US (61/740,560) 2012-12-21

[11] **2,896,319**
[13] C
[51] **Int.Cl. D21H 21/02 (2006.01) D21C 9/08 (2006.01)**
[25] EN
[54] **PITCH INHIBITOR, PITCH INHIBITION METHOD, AND PROCESS FOR PRODUCING DEINKED PULP**
[54] **INHIBITEUR DE POIX, PROCEDE D'INHIBITION DE POIX ET PROCEDE DE PRODUCTION DE PATE DESENCREE**
[72] WADA, SATOSHI, JP
[72] OKUSA, YUKO, JP
[72] TAGUCHI, CHIGUSA, JP
[72] ABE, YUKIO, JP
[72] YAMAZAKI, MICHIYASU, JP
[73] KURITA WATER INDUSTRIES LTD., JP
[73] GUN EI CHEMICAL INDUSTRY CO., LTD., JP
[85] 2015-06-23
[86] 2013-12-26 (PCT/JP2013/085011)
[87] (WO2014/104261)
[30] JP (2012-285326) 2012-12-27
[30] JP (2013-267280) 2013-12-25

[11] **2,896,716**
[13] C
[51] **Int.Cl. A61M 5/14 (2006.01) A61B 5/15 (2006.01) A61M 5/168 (2006.01)**
[25] EN
[54] **INFUSION AND BLOOD COLLECTION DEVICE AND METHOD**
[54] **DISPOSITIF ET METHODE DE PRELEVEMENT DE SANG ET DE PERFUSION**
[72] CLOSE, BENJAMIN W., US
[72] HALL, THOMAS A., III, US
[73] MEDTG LLC, US
[85] 2015-06-26
[86] 2013-12-31 (PCT/US2013/078538)
[87] (WO2014/106266)
[30] US (61/747,815) 2012-12-31

[11] **2,898,078**
[13] C
[51] **Int.Cl. G16H 15/00 (2018.01) A61B 90/00 (2016.01) G16H 10/60 (2018.01) G16H 20/00 (2018.01) G16H 50/20 (2018.01) G06Q 50/00 (2012.01) G10L 15/26 (2006.01) H04L 12/16 (2006.01) A63F 13/80 (2014.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR ANALYZING AND ENHANCING PATIENT HEALTH**
[54] **SYSTEMES, DISPOSITIFS ET METHODES D'ANALYSE ET D'AMELIORATION DE LA SANTE D'UN PATIENT**
[72] SOYAO, GRACE CASTILLO, CA
[72] ADAMS, JARED RING, US
[72] HARLEY, ZENON, CA
[73] SELF CARE CATALYSTS INC., CA
[85] 2015-07-22
[86] 2015-02-05 (PCT/CA2015/000064)
[87] (WO2015/117226)
[30] US (61/936,283) 2014-02-05

[11] **2,899,564**
[13] C
[51] **Int.Cl. F25J 3/02 (2006.01) F25J 3/06 (2006.01)**
[25] FR
[54] **SEPARATION AT SUB-AMBIENT TEMPERATURE OF A GASEOUS MIXTURE CONTAINING CARBON DIOXIDE AND A LIGHTER CONTAMINANT**
[54] **SEPARATION A TEMPERATURE SUBAMBIANTE D'UN MELANGE GAZEUX CONTENANT DU DIOXYDE DE CARBONE ET UN CONTAMINANT PLUS LEGER**
[72] BRIGLIA, ALAIN, CN
[72] LECLERC, MATHIEU, FR
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2015-07-28
[86] 2014-02-20 (PCT/FR2014/050351)
[87] (WO2014/128409)
[30] FR (1351483) 2013-02-21

[11] **2,899,773**
[13] C
[51] **Int.Cl. H01H 71/16 (2006.01) H01H 71/40 (2006.01)**
[25] EN
[54] **BIMETAL AND MAGNETIC ARMATURE PROVIDING AN ARC SPLATTER RESISTANT OFFSET THEREBETWEEN, AND CIRCUIT BREAKER INCLUDING THE SAME**
[54] **BILAME ET INDUIT MAGNETIQUE ENTRE LESQUELS UN DECALAGE EMPECHE LES PROJECTIONS D'ARC, ET COUPE-CIRCUIT LES CONTENANT**
[72] MALONEY, JAMES GERARD, US
[72] LIAS, EDWARD ETHBER, US
[72] GIBSON, JEFFREY SCOTT, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2015-07-29
[86] 2014-02-14 (PCT/US2014/016469)
[87] (WO2014/175942)
[30] US (13/868,411) 2013-04-23

[11] **2,900,355**
[13] C
[51] **Int.Cl. C09D 4/00 (2006.01)**
[25] EN
[54] **UV CURABLE SOLVENTLESS ANTIMICROBIAL COMPOSITIONS**
[54] **COMPOSITIONS ANTIMICROBIENNES EXEMPTES DE SOLVANT DURCISSABLE AUX UV**
[72] LIN, JANICE, US
[72] MA, YIPING, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2015-08-05
[86] 2014-02-10 (PCT/US2014/015614)
[87] (WO2014/126862)
[30] US (13/766,517) 2013-02-13

---

[11] **2,900,985**
[13] C
[51] **Int.Cl. G08B 13/14 (2006.01) H04W 4/02 (2018.01) G10D 1/08 (2006.01) G10D 3/00 (2020.01) G10G 7/00 (2006.01)**
[25] EN
[54] **ANTI-THEFT DEVICE FOR A MUSICAL INSTRUMENT**
[54] **DISPOSITIF ANTIVOL DESTINE A UN INSTRUMENT DE MUSIQUE**
[72] SCHAAL, MICHAEL JOHN, US
[73] SCHAAL, MICHAEL JOHN, US
[85] 2015-08-11
[86] 2014-02-12 (PCT/US2014/016080)
[87] (WO2014/127031)
[30] US (13/766,608) 2013-02-13

---

[11] **2,901,327**
[13] C
[51] **Int.Cl. G01N 23/046 (2018.01) G01N 23/00 (2006.01) G01N 23/04 (2018.01)**
[25] EN
[54] **COLLECTION OF TOMOGRAPHIC INSPECTION DATA USING COMPTON SCATTERING**
[54] **COLLECTE DE DONNEES D'INSPECTION TOMOGRAPHIQUE AU MOYEN DE LA DIFFUSION COMPTON**
[72] ARSENAULT, PAUL, CA
[72] CABOT, MARC, CA
[72] DURETTE, SHAWN, CA
[73] INVERSA SYSTEMS LTD., CA
[85] 2015-08-14
[86] 2014-02-14 (PCT/CA2014/000110)
[87] (WO2014/124522)
[30] US (61/765,267) 2013-02-15

---

[11] **2,905,750**
[13] C
[51] **Int.Cl. H01H 83/04 (2006.01)**
[25] EN
[54] **GFCI VOLTAGE LEVEL COMPARISON AND INDIRECT SAMPLING**
[54] **COMPARAISON DE NIVEAUX DE TENSION GFCI ET ECHANTILLONNAGE INDIRECT**
[72] SIMONIN, STEPHEN, US
[73] HUBBELL INCORPORATED, US
[85] 2015-09-11
[86] 2014-02-28 (PCT/US2014/019525)
[87] (WO2014/158720)
[30] US (13/827,816) 2013-03-14

---

[11] **2,906,149**
[13] C
[51] **Int.Cl. A61K 9/127 (2006.01)**
[25] EN
[54] **CONTROLLED DRUG RELEASE LIPOSOME COMPOSITION**
[54] **COMPOSITION A BASE DE LIPOSOME POUR LIBERATION DE MEDICAMENT CONTROLEE**
[72] KAN, PEI, TW
[72] TSENG, YUN-LONG, TW
[72] OU, HAN CHUN, TW
[73] TAIWAN LIPOSOME COMPANY, LTD., TW
[73] TLC BIOPHARMACEUTICALS, INC., US
[85] 2015-09-11
[86] 2014-03-15 (PCT/US2014/029907)
[87] (WO2014/145187)
[30] US (61/792,850) 2013-03-15

---

[11] **2,906,492**
[13] C
[51] **Int.Cl. G08B 19/00 (2006.01) G08B 17/10 (2006.01) G08B 17/113 (2006.01)**
[25] EN
[54] **COVER PLATE FOR A HAZARD DETECTOR**
[54] **PLAQUE DE CAPOT POUR UN DETECTEUR DE DANGER**
[72] FADELL, ANTHONY MICHAEL, US
[72] MITTLEMAN, ADAM, US
[72] GOLDENSON, ANDREW, US
[72] FILSON, JOHN BENJAMIN, US
[72] BOULD, FRED, US
[73] GOOGLE LLC, US
[85] 2015-09-14
[86] 2014-03-12 (PCT/US2014/023914)
[87] (WO2014/150667)
[30] US (13/835,334) 2013-03-15

---

[11] **2,907,954**
[13] C
[51] **Int.Cl. B02C 4/08 (2006.01) B02C 4/30 (2006.01)**
[25] EN
[54] **DUAL-ROLLER CRUSHER**
[54] **BROYEUR A DOUBLE CYLINDRE**
[72] DICK, MATTHIAS, DE
[73] CRUSH + SIZE TECHNOLOGY GMBH & CO. KG, DE
[85] 2015-09-23
[86] 2014-03-06 (PCT/DE2014/100081)
[87] (WO2014/161528)
[30] DE (20 2013 101 419.2) 2013-04-03

---

[11] **2,908,720**
[13] C
[51] **Int.Cl. E05B 47/00 (2006.01)**
[25] EN
[54] **LOW POWER MAGNETIC LOCK ASSEMBLY**
[54] **ENSEMBLE DE VERROUILLAGE MAGNETIQUE A FAIBLE PUISSANCE**
[72] MCMILLAN, RYAN, CA
[72] JEON, SOO, CA
[72] BABAKESHIZADEH, VAHID, CA
[73] DORMAKABA CANADA INC., CA
[85] 2015-10-02
[86] 2014-04-04 (PCT/CA2014/050347)
[87] (WO2014/161093)
[30] US (61/808,923) 2013-04-05

---

[11] **2,909,628**
[13] C
[51] **Int.Cl. C25B 15/08 (2006.01) C02F 1/42 (2006.01) C25B 1/04 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING AN ELECTROLYSIS DEVICE**
[54] **PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN DISPOSITIF D'ELECTROLYSE**
[72] SMARSCH, SVETLANA, DE
[72] MANTAI, NILS, DE
[72] BUELOW, NORBERT, DE
[72] WUERFEL, CLAUS, DE
[72] WILKEN, DENNIS, DE
[72] KUETER, UWE, DE
[72] HOELLER, STEFAN, DE
[73] H-TEC SYSTEMS GMBH, DE
[85] 2015-10-15
[86] 2014-04-14 (PCT/EP2014/057544)
[87] (WO2014/170281)
[30] EP (13164529.3) 2013-04-19

[11] **2,910,261**
[13] C
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 5/06 (2006.01) A61B 17/17 (2006.01) A61B 17/70 (2006.01) A61B 17/88 (2006.01)**
[25] EN
[54] **ATTACHMENTS FOR TRACKING HANDHELD IMPLEMENTS**
[54] **ACCESSOIRES POUR LE SUIVI D'INSTRUMENTS MANUELS**
[72] LEUNG, MICHAEL, CA
[72] MARIAMPILLAI, ADRIAN, CA
[72] SIEGLER, PETER, CA
[72] STANDISH, BEAU ANTHONY, CA
[72] YANG, VICTOR X.D., CA
[73] 7D SURGICAL INC., CA
[85] 2015-10-23
[86] 2013-07-03 (PCT/CA2013/050512)
[87] (WO2014/005225)
[30] US (61/667,714) 2012-07-03

[11] **2,911,083**
[13] C
[51] **Int.Cl. A01H 5/00 (2018.01) A01H 11/00 (2006.01) C07K 14/505 (2006.01) C12N 5/10 (2006.01) C12N 9/02 (2006.01) C12N 15/16 (2006.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **MODIFIED EXPRESSION OF PROLYL-4-HYDROXYLASE IN PHYSCOMITRELLA PATENS**
[54] **EXPRESSION MODIFIEE DE PROLYL-4-HYDROXYLASE DANS PHYSCOMITRELLA PATENS**
[72] RESKI, RALF, DE
[72] PARSONS, JULIANA, DE
[72] ALTMANN, FRIEDRICH, AT
[72] GRAF, MANUELA, DE
[72] DECKER, EVA, DE
[72] STADLMANN, JOHANNES, AT
[73] UNIVERSITAT FUR BODENKULTUR WIEN, AT
[73] ALBERT-LUDWIGS-UNIVERSITAT FREIBURG, DE
[85] 2015-10-30
[86] 2014-05-05 (PCT/EP2014/059132)
[87] (WO2014/180793)
[30] GB (1308120.3) 2013-05-06

[11] **2,912,420**
[13] C
[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **MANAGING MEMORY AND STORAGE SPACE FOR A DATA OPERATION**
[54] **GESTION DE MEMOIRE ET D'ESPACE DE MEMORISATION POUR UNE OPERATION DE DONNEES**
[72] KHAN, MUHAMMAD ARSHAD, US
[72] RYBICKI, STEPHEN G., US
[72] GOULD, JOEL, US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2015-11-12
[86] 2014-05-16 (PCT/US2014/038345)
[87] (WO2014/186673)
[30] US (61/824,686) 2013-05-17

[11] **2,912,432**
[13] C
[51] **Int.Cl. E21C 35/00 (2006.01) H04N 13/239 (2018.01) H04N 13/271 (2018.01) B60R 11/04 (2006.01) E21C 35/08 (2006.01) G06T 17/00 (2006.01) G06T 17/20 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **MAPPING OF MINING EXCAVATIONS**
[54] **REPRESENTATION CARTOGRAPHIQUE D'EXCAVATIONS D'EXPLOITATION MINIERE**
[72] STEELE, RODERICK MARK, CA
[73] TESMAN INC., CA
[85] 2015-11-13
[86] 2013-03-28 (PCT/CA2013/000307)
[87] (WO2013/170348)
[30] US (61/647,337) 2012-05-15

[11] **2,912,581**
[13] C
[51] **Int.Cl. C12N 5/079 (2010.01) C12N 5/071 (2010.01) C12N 5/077 (2010.01) A61K 35/30 (2015.01) A61P 25/00 (2006.01) C12N 5/10 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **EXPANDABLE CELL POPULATIONS FROM BRAIN BIOPSIES OF LIVING SUBJECTS**
[54] **POPULATION EXTENSIBLE DE CELLULES PROVENANT D'ECHANTILLONS DE BIOPSIES CEREBRALES DE SUJETS VIVANTS**
[72] HEBB, MATTHEW OLDING, CA
[73] LONDON HEALTH SCIENCES CENTRE RESEARCH INC., CA
[85] 2015-11-16
[86] 2014-05-16 (PCT/CA2014/050461)
[87] (WO2014/183220)
[30] US (61/824,125) 2013-05-16

[11] **2,913,170**
[13] C
[51] **Int.Cl. G01B 21/16 (2006.01) B64C 3/38 (2006.01) G01B 5/14 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR AUTOMATED PREDICTIVE SHIMMING FOR LARGE STRUCTURES**
[54] **SYSTEMES, METHODES ET APPAREIL DE REGLAGE PREDICTIF AUTOMATISE POUR GRANDES STRUCTURES**
[72] VALENZUELA, DARIO, US
[72] BOYL-DAVIS, THEODORE M., US
[72] JONES, DARRELL D., US
[73] THE BOEING COMPANY, US
[86] (2913170)
[87] (2913170)
[22] 2015-11-24
[30] US (14/601600) 2015-01-21

[11] **2,913,224**
[13] C
[51] **Int.Cl. G01V 1/00 (2006.01) G01V 1/04 (2006.01) G01V 1/135 (2006.01) G01V 1/38 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PERFORMING SEISMIC SURVEYS WITH A CONTROLLED SOURCE USING MAXIMUM-POWER SWEEPS**
[54] **SYSTEME ET PROCEDE DE REALISATION DE LEVES SISMIQUES AVEC UNE SOURCE COMMANDEE EN UTILISANT DES BALAYAGES DE PUISSANCE MAXIMALE**
[72] DELLINGER, JOSEPH ANTHONY, US
[72] HARPER, MARK FRANCIS LUCIEN, US
[73] BP CORPORATION NORTH AMERICA INC., US
[85] 2015-11-20
[86] 2014-09-16 (PCT/US2014/055772)
[87] (WO2015/047784)
[30] US (61/883,437) 2013-09-27

[11] **2,913,294**
[13] C
[51] **Int.Cl. E21B 21/08 (2006.01) E21B 44/00 (2006.01) E21B 47/10 (2012.01)**
[25] EN
[54] **INFLUX DETECTION AT PUMPS STOP EVENTS DURING WELL DRILLING**
[54] **DETECTION D'AFFLUX LORS D'EVENEMENTS D'ARRET DE POMPES DURANT UN FORAGE DE PUITS**
[72] MILNER, GEORGE MARTIN, US
[72] TARR, BRIAN ANSTEY, US
[73] COVAR APPLIED TECHNOLOGIES, INC., US
[85] 2015-11-23
[86] 2014-05-21 (PCT/US2014/038878)
[87] (WO2014/189992)
[30] US (61/826,690) 2013-05-23

[11] **2,913,788**
[13] C
[51] **Int.Cl. A61F 9/008 (2006.01) F21V 13/06 (2006.01) F21V 14/04 (2006.01) G02B 26/08 (2006.01) G02B 27/10 (2006.01)**
[25] EN
[54] **REFLEX COAXIAL ILLUMINATOR**
[54] **ECLAIRAGE COAXIAL REFLEX**
[72] PLUNKETT, MALCOLM, AU
[72] XIA, WEI, AU
[73] ELLEX R&D PTY LTD, AU
[85] 2015-11-27
[86] 2013-05-23 (PCT/AU2013/000546)
[87] (WO2013/177611)
[30] AU (2012902250) 2012-05-30

[11] **2,914,938**
[13] C
[51] **Int.Cl. H04N 21/441 (2011.01) H04N 21/458 (2011.01) H04N 21/4722 (2011.01)**
[25] EN
[54] **MEDIA CONTENT PLAYING METHOD, SERVER AND DISPLAY APPARATUS**
[54] **PROCEDE DE LECTURE DE CONTENU MEDIA, SERVEUR ET APPAREIL D'AFFICHAGE**
[72] CHENG, CHENG, CN
[72] EKSTRAND, SIMON, SE
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[73] EKSTRAND, SIMON, SE
[85] 2015-12-11
[86] 2015-07-16 (PCT/CN2015/084181)
[87] (WO2016/123909)
[30] CN (201510057228.9) 2015-02-03

[11] **2,915,351**
[13] C
[51] **Int.Cl. E21B 43/22 (2006.01) E21B 43/16 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR STIMULATING THE PRODUCTION OF HYDROCARBONS FROM SUBTERRANEAN FORMATIONS**
[54] **PROCEDES ET COMPOSITIONS DE STIMULATION DE LA PRODUCTION D'HYDROCARBURES A PARTIR DE FORMATIONS SOUTERRAINES**
[72] HILL, RANDAL M., US
[72] CHAMPAGNE, LAKIA M., US
[72] LETT, NATHAN L., US
[72] DISMUKE, KEITH INGRAM, US
[72] GERMACK, DAVID, US
[72] MAST, NICOLE, US
[72] SOEUNG, MELINDA, US
[73] FLOTEK CHEMISTRY, LLC, US
[85] 2015-12-14
[86] 2014-06-13 (PCT/US2014/042326)
[87] (WO2014/201367)
[30] US (13/918,166) 2013-06-14
[30] US (13/918,155) 2013-06-14

[11] **2,916,190**
[13] C
[51] **Int.Cl. A61K 35/14 (2015.01) A61K 38/19 (2006.01) A61K 38/20 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **TREATMENT OF COLLAGEN DEFECTS USING PROTEIN SOLUTIONS**
[54] **TRAITEMENT DES DEFAUTS DE COLLAGENES AU MOYEN DE SOLUTIONS DE PROTEINE**
[72] MATUSKA, ANDREA, US
[72] O'SHAUGHNESSEY, KRISTA, US
[72] WOODELL-MAY, JENNIFER E., US
[73] BIOMET BIOLOGICS, LLC, US
[85] 2015-12-18
[86] 2014-03-11 (PCT/US2014/023091)
[87] (WO2014/150375)
[30] US (13/840,129) 2013-03-15

[11] **2,917,304**
[13] C
[51] **Int.Cl. B01D 47/06 (2006.01) B01D 47/10 (2006.01) C07C 273/02 (2006.01)**
[25] EN
[54] **REMOVAL OF DUST IN UREA FINISHING**
[54] **EXTRACTION DE POUSSIERE AU STADE FINAL DE LA PRODUCTION D'UREE**
[72] SOONS, PETRUS CATHARINA GERLACH, NL
[72] DIRKX, WILFRIED MARC RENAAT, NL
[73] STAMICARBON B.V., NL
[85] 2016-01-04
[86] 2014-07-04 (PCT/NL2014/050445)
[87] (WO2015/002535)
[30] EP (13175399.8) 2013-07-05

[11] **2,917,765**
[13] C
[51] **Int.Cl. F02C 9/50 (2006.01) F01D 5/18 (2006.01) F01D 5/28 (2006.01) F01D 9/04 (2006.01) F01D 11/00 (2006.01) F01D 25/24 (2006.01)**
[25] EN
[54] **TURBINE NOZZLE WITH IMPINGEMENT BAFFLE**
[54] **DISTRIBUTEUR DE TURBINE A DEFLECTEUR DE CONTACT**
[72] TUERTSCHER, MICHAEL RAY, US
[72] SENILE, DARRELL GLENN, US
[72] PHELPS, GREG, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-01-07
[86] 2014-06-18 (PCT/US2014/042985)
[87] (WO2015/009392)
[30] US (61/856,376) 2013-07-19

[11] **2,918,146**
[13] C
[51] **Int.Cl. B32B 27/34 (2006.01) F16L 9/12 (2006.01) F16L 11/04 (2006.01) C08L 77/06 (2006.01)**
[25] EN
[54] **MULTILAYER STRUCTURE**
[54] **STRUCTURE MULTICOUCHE**
[72] SATO, KAZUYA, JP
[72] KATO, TOMONORI, JP
[72] KIKUCHI, MAYUMI, JP
[73] MITSUBISHI GAS CHEMICAL COMPANY, INC., JP
[85] 2016-01-12
[86] 2014-07-02 (PCT/JP2014/067713)
[87] (WO2015/022818)
[30] JP (2013-169143) 2013-08-16

[11] **2,918,625**
[13] C
[51] **Int.Cl. B26D 1/547 (2006.01) B60J 10/00 (2016.01)**
[25] EN
[54] **VEHICLE GLAZING PANEL CUT OUT**
[54] **DECOUPE DE PANNEAU DE VITRAGE DE VEHICULE**
[72] CARLTON, ALISTAIR, CH
[72] WECKX, PATRICK, CH
[73] BELRON INTERNATIONAL LIMITED, GB
[85] 2016-01-19
[86] 2013-09-20 (PCT/EP2013/069642)
[87] (WO2015/039703)

[11] **2,920,085**
[13] C
[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **HORIZONTAL UNIT FOR MAKING BEVERAGES USING CAPSULES CONTAINING POWDERED FOOD SUBSTANCES**
[54] **UNITE HORIZONTALE POUR PRODUIRE DES BOISSONS AU MOYEN DE CAPSULES CONTENANT DES SUBSTANCES ALIMENTAIRES EN POUDRE**
[72] CASIDDU, FRANCO, IT
[73] CAFFITALY SYSTEM S.P.A., IT
[85] 2016-02-01
[86] 2014-07-31 (PCT/IB2014/063578)
[87] (WO2015/019249)
[30] IT (VR2013A000195) 2013-08-09

[11] **2,920,195**
[13] C
[51] **Int.Cl. A61M 27/00 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **CHEST DRAINAGE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DRAINAGE THORACIQUE**
[72] PEATFIELD, GREGORY, US
[73] ATRIUM MEDICAL CORPORATION, US
[85] 2016-02-01
[86] 2014-07-18 (PCT/US2014/047328)
[87] (WO2015/010110)
[30] US (61/856,427) 2013-07-19

[11] **2,920,397**
[13] C
[51] **Int.Cl. D21H 27/30 (2006.01) B32B 29/00 (2006.01) B44C 5/04 (2006.01) C08F 220/14 (2006.01) D21H 17/24 (2006.01) D21H 17/25 (2006.01) D21H 17/28 (2006.01) D21H 17/37 (2006.01) D21H 17/42 (2006.01) D21H 17/43 (2006.01) D21H 17/53 (2006.01) D21H 17/67 (2006.01) D21H 19/44 (2006.01) D21H 19/64 (2006.01) D21H 27/28 (2006.01)**
[25] EN
[54] **DISPERSION FOR PRODUCING ABRASION-RESISTANT SURFACES**
[54] **DISPERSION SERVANT A PRODUIRE DES SURFACES RESISTANTES A L'ABRASION**
[72] DOHRING, DIETER, CH
[72] HARTL, OLIVER, AT
[73] XYLO TECHNOLOGIES AG, CH
[85] 2016-02-03
[86] 2013-09-27 (PCT/EP2013/070184)
[87] (WO2015/043647)

[11] **2,920,878**
[13] C
[51] **Int.Cl. A47G 27/04 (2006.01)**
[25] EN
[54] **TACKLESS CARPET STRIP**
[54] **BANDE A GRIFFES DE TAPIS**
[72] GREATHOUSE, GLEN P., US
[72] MCKENNA, MICHAEL H., US
[72] MCKENNA, BRIAN, US
[73] GREATHOUSE, GLEN P., US
[73] MCKENNA, MICHAEL H., US
[73] MCKENNA, BRIAN, US
[85] 2016-02-09
[86] 2013-08-16 (PCT/US2013/055386)
[87] (WO2014/028857)
[30] US (61/683,974) 2012-08-16

[11] **2,921,142**
[13] C
[51] **Int.Cl. A24F 23/02 (2006.01)**
[25] EN
[54] **TOBACCO POUCH**
[54] **BLAGUE A TABAC**
[72] SUSS, DANIEL, DE
[72] BUHR, CARMEN, DE
[73] REEMTSMA CIGARETTENFABRIKEN GMBH, DE
[85] 2016-02-11
[86] 2014-08-12 (PCT/EP2014/067206)
[87] (WO2015/032594)
[30] EP (13183179.4) 2013-09-05

[11] **2,921,224**
[13] C
[51] **Int.Cl. A63B 23/02 (2006.01) A63B 21/00 (2006.01) A63B 23/00 (2006.01)**
[25] EN
[54] **THORACIC STABILIZER**
[54] **STABILISATEUR THORACIQUE**
[72] RICHARDSON, CAROLYN ANNE, AU
[72] RICHARDSON, DAVID ALEXANDER, AU
[73] GRAVITY FITNESS AUSTRALIA PTY LTD, AU
[73] RICHARDSON, CAROLYN ANNE, AU
[73] RICHARDSON, DAVID ALEXANDER, AU
[85] 2016-02-12
[86] 2013-08-19 (PCT/AU2013/000919)
[87] (WO2014/026249)
[30] AU (2012903573) 2012-08-17

[11] **2,921,338**
[13] C
[51] **Int.Cl. H02H 3/00 (2006.01) H02H 3/26 (2006.01)**
[25] EN
[54] **DISTRIBUTED ARC FAULT PROTECTION BETWEEN OUTLET AND CIRCUIT BREAKER**
[54] **PROTECTION DE DEFAUT D'ARC REPARTIE ENTRE UNE PRISE DE COURANT ET UN DISJONCTEUR**
[72] SCHROEDER, JEREMY D., US
[72] BEIERSCHMITT, JOSEPH, US
[73] SCHNEIDER ELECTRIC USA, INC., US
[85] 2016-02-12
[86] 2013-09-30 (PCT/US2013/062584)
[87] (WO2015/047383)

[11] **2,921,497**
[13] C
[51] **Int.Cl. H02B 11/127 (2006.01) H01H 9/22 (2006.01) H01H 21/06 (2006.01)**
[25] EN
[54] **MOTOR CONTROL CENTER UNIT DISCONNECT WITH INTERLOCKS**
[54] **DECONNEXION D'UNITE DE CENTRE DE COMMANDE DE MOTEUR AYANT DES DISPOSITIFS DE VERROUILLAGE**
[72] RICHARDS, WALTER J. (DECEASED), US
[72] ROSEN, GARY M., US
[73] SCHNEIDER ELECTRIC USA, INC., US
[85] 2016-02-16
[86] 2013-09-27 (PCT/US2013/062243)
[87] (WO2015/047307)

[11] **2,921,547**
[13] C
[51] **Int.Cl. H04R 25/00 (2006.01)**
[25] EN
[54] **HEARING AID HAVING A CLASSIFIER**
[54] **AIDE AUDITIVE AYANT UN CLASSIFICATEUR**
[72] UNGSTRUP, MICHAEL, DK
[72] RANK, MIKE LIND, DK
[73] WIDEX A/S, DK
[85] 2016-02-17
[86] 2013-08-20 (PCT/EP2013/067269)
[87] (WO2015/024584)

[11] **2,922,023**
[13] C
[51] **Int.Cl. B60P 1/28 (2006.01) B60P 1/04 (2006.01)**
[25] EN
[54] **DUMP BODY FOR A TRUCK**
[54] **CORPS DE BENNE DESTINE A UN CAMION**
[72] LEMAIRE, BENOIT, CA
[72] LEIB, STEFANE, CA
[73] INDUSTRIES FABKOR INC., CA
[86] (2922023)
[87] (2922023)
[22] 2016-02-26

[11] **2,922,060**
[13] C
[51] **Int.Cl. G06F 3/0483 (2013.01) G06F 3/0488 (2013.01) G06F 3/0485 (2013.01)**
[25] EN
[54] **SWIPE TOOLBAR TO SWITCH TABS**
[54] **BARRE D'OUTILS A GLISSER POUR LA COMMUTATION D'ONGLETS**
[72] TRAINOR, DAVID ANDREW, US
[72] WEBER, ARNAUD CLAUDE, US
[72] HOLGATE, CARSON L., US
[73] GOOGLE LLC, US
[85] 2016-02-22
[86] 2014-08-22 (PCT/US2014/052277)
[87] (WO2015/027148)
[30] US (13/973,970) 2013-08-22

[11] **2,922,897**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61B 17/12 (2006.01) A61B 17/122 (2006.01) A61M 25/01 (2006.01) A61B 17/00 (2006.01) A61B 17/02 (2006.01) A61B 17/04 (2006.01) A61B 17/128 (2006.01) A61B 17/22 (2006.01) A61M 25/00 (2006.01) A61M 25/06 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **DEVICE FOR THE DEPLOYMENT OF A SYSTEM OF GUIDE WIRES WITHIN A CARDIAC CHAMBER FOR IMPLANTING A PROSTHETIC HEART VALVE**
[54] **DISPOSITIF PERMETTANT LE DEPLOIEMENT D'UN SYSTEME DE FILS-GUIDES DANS UNE CAVITE CARDIAQUE POUR IMPLANTER UNE VALVULE CARDIAQUE PROTHETIQUE**
[72] RIGHINI, GIOVANNI, CH
[72] ZANON, SARAH, CH
[73] INNOVHEART S.R.L., IT
[85] 2016-03-01
[86] 2013-11-19 (PCT/IB2013/060249)
[87] (WO2014/080338)
[30] IT (BO2012A000635) 2012-11-20

[11] **2,923,055**
[13] C
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/56 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **CORTICOSTEROID CONTAINING ORALLY DISINTEGRATING TABLET COMPOSITIONS FOR EOSINOPHILIC ESOPHAGITIS**
[54] **COMPOSITIONS POUR COMPRIMES A DELITEMENT ORAL CONTENANT DES CORTICOSTEROIDES UTILISEES POUR TRAITER L'□SOPHAGITE A EOSINOPHILES**
[72] GOSSELIN, MICHAEL A., US
[72] LAI, JIN-WANG, US
[72] VENKATESH, GOPI M., US
[73] ADARE PHARMACEUTICALS, INC., US
[85] 2016-03-02
[86] 2014-09-05 (PCT/US2014/054203)
[87] (WO2015/035114)
[30] US (61/874,450) 2013-09-06

[11] **2,923,267**
[13] C
[51] **Int.Cl. F25J 3/02 (2006.01) F25J 3/08 (2006.01)**
[25] EN
[54] **HYDROCARBON GAS PROCESSING**
[54] **TRAITEMENT D'HYDROCARBURE GAZEUX**
[72] HUDSON, HANK M., US
[72] WILKINSON, JOHN D., US
[72] LYNCH, JOE T., US
[72] MILLER, SCOTT A., US
[72] CUELLAR, KYLE T., US
[72] JOHNKE, ANDREW F., US
[72] LEWIS, W. LARRY, US
[73] UOP LLC, US
[85] 2016-03-04
[86] 2014-08-18 (PCT/US2014/051544)
[87] (WO2015/038287)
[30] US (61/876,404) 2013-09-11
[30] US (14/462,056) 2014-08-18

[11] **2,924,152**
[13] C
[51] **Int.Cl. A61N 5/067 (2006.01)**
[25] EN
[54] **LASER THERAPY APPARATUS AND METHOD**
[54] **APPAREIL DE THERAPIE LASER ET PROCEDE**
[72] PINA, CARLOS, US
[73] CAPILLUS LLC, US
[86] (2924152)
[87] (2924152)
[22] 2016-03-18
[30] US (62/136,195) 2015-03-20
[30] US (14/743,158) 2015-06-18

[11] **2,924,235**
[13] C
[51] **Int.Cl. D21H 19/82 (2006.01) A24C 5/56 (2006.01) A24D 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR APPLYING TWO COATINGS TO WRAPPING PAPER FOR CIGARETTES AND SMOKING PRODUCTS**
[54] **PROCEDE POUR APPLIQUER DEUX COUCHES DE PAPIER D'EMBALLAGE POUR LES CIGARETTES ET AUTRES PRODUITS DU TABAC**
[72] GRIESMAYR, GUENTER, AT
[72] PUEHRINGER, BARBARA, AT
[72] KNAUSEDER, BERNHARD, AT
[72] SCHOPPER, EIKE, AT
[73] TANNPAPIER GMBH, AT
[85] 2016-03-14
[86] 2014-09-25 (PCT/AT2014/050219)
[87] (WO2015/042627)
[30] AT (A 50626/2013) 2013-09-27

[11] **2,925,807**
[13] C
[51] **Int.Cl. C12N 15/55 (2006.01) A23K 10/14 (2016.01) A23K 20/189 (2016.01) A23K 50/00 (2016.01) A23L 33/17 (2016.01) C12N 1/19 (2006.01) C12N 9/16 (2006.01) C12N 15/81 (2006.01) C12N 15/82 (2006.01) C12P 3/00 (2006.01)**
[25] EN
[54] **USING MUTATIONS TO IMPROVE ASPERGILLUS PHYTASES**
[54] **UTILISATION DE MUTATIONS POUR AMELIORER LES ASPERGILLUS PHYTASES**
[72] LEI, XINGEN, US
[72] MULLANEY, EDWARD J., US
[72] ULLAH, ABUL H. J., US
[73] CORNELL RESEARCH FOUNDATION, INC., US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE, US
[86] (2925807)
[87] (2925807)
[22] 2003-09-15
[62] 2,498,017
[30] US (60/410,736) 2002-09-13

[11] **2,925,948**
[13] C
[51] **Int.Cl. F16F 9/04 (2006.01)**
[25] EN
[54] **AIR SPRING WITH SLIDING ELEMENT**
[54] **RESSORT PNEUMATIQUE POURVU D'UN ELEMENT COULISSANT**
[72] RACINE, JEROME, FR
[73] CONTITECH FRANCE SNC, FR
[85] 2016-03-31
[86] 2014-07-29 (PCT/EP2014/066217)
[87] (WO2015/055331)
[30] EP (13290247.9) 2013-10-16

[11] **2,926,179**
[13] C
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01) G01V 1/34 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SEISMIC ADAPTIVE OPTICS**
[54] **SYSTEME ET PROCEDE POUR DES OPTIQUES ADAPTATIVES SISMIQUES**
[72] ETGEN, JOHN THEODORE, US
[72] PEREZ, GABRIEL, US
[72] ZHOU, MIN, US
[73] BP CORPORATION NORTH AMERICA INC., US
[85] 2016-04-01
[86] 2014-09-30 (PCT/US2014/058336)
[87] (WO2015/050874)
[30] US (61/885,680) 2013-10-02

---

[11] **2,926,656**
[13] C
[51] **Int.Cl. A61B 5/08 (2006.01) A61B 5/087 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **FUSION OF DATA FROM MULTIPLE SOURCES FOR NON-INVASIVE DETECTION OF RESPIRATORY PARAMETERS**
[54] **FUSION DE DONNEES PROVENANT DE PLUSIEURS SOURCES POUR DETECTION NON-INVASIVE DE PARAMETRES RESPIRATOIRES**
[72] MELKER, RICHARD, US
[72] COHEN, SEAN, US
[72] TAN, HUWEI, US
[73] XHALE ASSURANCE, INC., US
[85] 2016-04-06
[86] 2014-10-11 (PCT/US2014/060200)
[87] (WO2015/054680)
[30] US (61/889,582) 2013-10-11

---

[11] **2,927,292**
[13] C
[51] **Int.Cl. G02B 26/00 (2006.01) B42D 25/36 (2014.01) B41M 3/14 (2006.01) G02F 1/00 (2006.01) G07D 7/06 (2006.01)**
[25] EN
[54] **OPTICALLY VARIABLE DEVICES, THEIR PRODUCTION AND USE**
[54] **DISPOSITIFS OPTIQUEMENT VARIABLES, LEUR PRODUCTION ET LEUR UTILISATION**
[72] FIRTH, ANDREA V., CA
[72] MCGARRY, STEVEN PAUL, CA
[72] RANKIN, ALASDAIR PATRICK, CA
[73] BANK OF CANADA, CA
[85] 2016-04-13
[86] 2014-11-06 (PCT/CA2014/051070)
[87] (WO2015/066810)
[30] US (61/901,592) 2013-11-08
[30] US (62/056,090) 2014-09-26

---

[11] **2,927,457**
[13] C
[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/02 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **TOOTH WHITENING ORAL CARE PRODUCT**
[54] **PRODUIT D'HYGIENE BUCCALE POUR LE BLANCHIMENT DES DENTS**
[72] MALONEY, VENDA P., US
[72] CHOPRA, SUMAN K., US
[72] PATEL, RAHUL, US
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2016-04-13
[86] 2013-12-23 (PCT/US2013/077373)
[87] (WO2015/099638)

---

[11] **2,928,109**
[13] C
[51] **Int.Cl. A61K 31/736 (2006.01) A61P 13/08 (2006.01)**
[25] EN
[54] **LIGNEOUS PLANT-DERIVED HETEROPOLYSACCHARIDES FOR USE IN TREATMENT OF UROLOGIC SYMPTOMS AND DISEASES**
[54] **HETEROPOLYSACCHARIDES ISSUS DE PLANTES LIGNEUSES DESTINES A ETRE UTILISES EN TRAITEMENT DE SYMPTOMES ET MALADIES UROLOGIQUES**
[72] KONKOL, YVONNE, FI
[72] BERNOULLI, JENNI, FI
[72] HOLMBOM, BJARNE, FI
[72] VUORIKOSKI, HEIKKI, FI
[72] PRANOVICH, ANDREY, FI
[72] HALLEEN, JUSSI, FI
[73] MONTISERA LTD., FI
[85] 2016-04-20
[86] 2013-11-08 (PCT/FI2013/051057)
[87] (WO2014/072585)
[30] FI (20126175) 2012-11-09

---

[11] **2,928,207**
[13] C
[51] **Int.Cl. C07H 19/06 (2006.01)**
[25] EN
[54] **CYTIDINE-5-CARBOXAMIDE MODIFIED NUCLEOTIDE COMPOSITIONS AND METHODS RELATED THERETO**
[54] **COMPOSITIONS NUCLEOTIDIQUES DE CYTIDINES A MODIFICATION 5-CARBOXAMIDE ET PROCEDES ASSOCIES**
[72] ROHLOFF, JOHN, US
[72] JANJIC, NEBOJSA, US
[72] GAWANDE, BHARAT NATHU, US
[73] SOMALOGIC, INC., US
[85] 2016-04-20
[86] 2014-11-19 (PCT/US2014/066328)
[87] (WO2015/077292)
[30] US (61/907,274) 2013-11-21

[11] **2,929,604**
[13] C
[51] **Int.Cl. G06Q 10/08 (2012.01) G06K 19/07 (2006.01) H05K 9/00 (2006.01) G06K 7/10 (2006.01)**
[25] EN
[54] **SENSING AND RECORDING CONSUMPTION OF MEDICAL ITEMS DURING MEDICAL PROCEDURE**
[54] **DETECTION ET ENREGISTREMENT DE CONSOMMATION D'ARTICLES MEDICAUX DURANT UNE PROCEDURE MEDICALE**
[72] DEBUSK, BRIAN C., US
[72] KAYLOR, MARY E., US
[72] GRIFFITH, GERALD T., US
[72] WAGGONER, TIMOTHY J., US
[72] GRIFFITH, JEFFREY D., US
[72] SEWELL, ANGELA M., US
[72] JACOBS, JOHN G., US
[72] HURD, REX A., US
[73] DEROYAL INDUSTRIES, INC., US
[85] 2016-05-04
[86] 2014-10-28 (PCT/US2014/062627)
[87] (WO2015/069496)
[30] US (61/900,064) 2013-11-05
[30] US (61/993,578) 2014-05-15
[30] US (62/007,601) 2014-06-04
[30] US (14/504,859) 2014-10-02

[11] **2,929,723**
[13] C
[51] **Int.Cl. G06F 3/043 (2006.01) G06K 9/00 (2006.01)**
[25] EN
[54] **MICROMECHANICAL ULTRASONIC TRANSDUCERS AND DISPLAY**
[54] **TRANSDUCTEURS ULTRASONORES MICROMECANIQUES ET AFFICHAGE**
[72] GANTI, SURYAPRAKASH, US
[72] BURNS, DAVID WILLIAM, US
[72] GRIFFITHS, JONATHAN CHARLES, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-05-04
[86] 2014-12-12 (PCT/US2014/070114)
[87] (WO2015/089453)
[30] US (61/915,361) 2013-12-12
[30] US (62/022,140) 2014-07-08

[11] **2,929,774**
[13] C
[51] **Int.Cl. A01K 67/027 (2006.01) C07K 14/705 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **NON-HUMAN ANIMAL CELLS HAVING A HUMANIZED PROLIFERATION-INDUCING LIGAND GENE**
[54] **CELLULES ANIMALES NON HUMAINES PORTANT UN GENE HUMANISE CODANT POUR UN LIGAND INDUISANT LA PROLIFERATION**
[72] MCWHIRTER, JOHN, US
[72] GURER, CAGAN, US
[72] MACDONALD, LYNN, US
[72] MURPHY, ANDREW J., US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2016-05-05
[86] 2014-11-10 (PCT/US2014/064810)
[87] (WO2015/077072)
[30] US (61/905,986) 2013-11-19

[11] **2,929,846**
[13] C
[51] **Int.Cl. A01K 67/027 (2006.01) C07K 14/54 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **NON-HUMAN ANIMALS HAVING A HUMANIZED B-CELL ACTIVATING FACTOR GENE**
[54] **ANIMAUX NON HUMAINS AYANT UN GENE DE FACTEUR ACTIVANT LES CELLULES B HUMANISE**
[72] MCWHIRTER, JOHN, US
[72] GURER, CAGAN, US
[72] MACDONALD, LYNN, US
[72] MURPHY, ANDREW J., US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2016-05-05
[86] 2014-11-10 (PCT/US2014/064806)
[87] (WO2015/077071)
[30] US (61/905,983) 2013-11-19

[11] **2,930,232**
[13] C
[51] **Int.Cl. C07J 41/00 (2006.01) A61K 31/575 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **ARAMCHOL SALTS**
[54] **SELS D'ARAMCHOL**
[72] BAHARAFF, ALLEN, IL
[72] ESHKAR-OREN, IDIT, IL
[73] GALMED RESEARCH & DEVELOPMENT LTD., IL
[85] 2016-05-10
[86] 2014-12-04 (PCT/IL2014/051052)
[87] (WO2015/083164)
[30] US (61/911,478) 2013-12-04

[11] **2,930,739**
[13] C
[51] **Int.Cl. C25D 5/12 (2006.01) C23C 18/32 (2006.01) C25D 5/48 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR INHIBITING CORROSION**
[54] **COMPOSITION ET METHODE POUR INHIBER LA CORROSION**
[72] LAWLESS, LAWRENCE M., US
[72] GRIFFIN, BRUCE M., US
[72] SCOTT, CRAIG W., US
[73] THE BOEING COMPANY, US
[85] 2016-05-13
[86] 2014-12-21 (PCT/US2014/071771)
[87] (WO2015/102969)
[30] US (14/146,768) 2014-01-03

[11] **2,930,839**
[13] C
[51] **Int.Cl. F24F 13/10 (2006.01)**
[25] EN
[54] **VENTILATION DAMPER SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE REGISTRE D'AERATION**
[72] PENLESKY, ROBERT G., US
[72] JONAS, KENNETH J., US
[72] JACAK, COREY SCOTT, US
[73] BROAN-NUTONE LLC, US
[85] 2016-05-16
[86] 2014-11-18 (PCT/US2014/066053)
[87] (WO2015/074014)
[30] US (61/905,781) 2013-11-18
[30] US (61/935,754) 2014-02-04

Brevets canadiens délivrés
15 septembre 2020

[11] **2,932,749**
[13] C
[51] **Int.Cl. H04L 12/70 (2013.01)**
[25] EN
[54] **FRAMEWORK FOR TRAFFIC ENGINEERING IN SOFTWARE DEFINED NETWORKING**
[54] **STRUCTURE POUR L'INGENIERIE DE TRAFIC DANS LE RESEAUTAGE DEFINI PAR LOGICIEL**
[72] LI, XU, CA
[72] FARMANBAR, HAMIDREZA, CA
[72] ZHANG, HANG, CA
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2016-06-03
[86] 2014-11-29 (PCT/CN2014/092607)
[87] (WO2015/081817)
[30] US (14/097,930) 2013-12-05

[11] **2,932,843**
[13] C
[51] **Int.Cl. H04L 12/58 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR PSEUDO-PRESENCE INDICATION FOR NON-XMPP CLIENT DEVICES WITHIN XMPP APPLICATIONS**
[54] **SYSTEME ET PROCEDE DE PSEUDO-INDICATION DE PRESENCE POUR DISPOSITIFS CLIENTS NON-XMPP AU SEIN D'APPLICATIONS XMPP**
[72] CAHILL, A. J., IE
[72] KEATING, COLM, IE
[73] WEBTEXT HOLDINGS LIMITED, IE
[85] 2016-06-06
[86] 2014-12-06 (PCT/IB2014/066665)
[87] (WO2015/083139)
[30] US (61/912,735) 2013-12-06

[11] **2,933,894**
[13] C
[51] **Int.Cl. F16M 11/28 (2006.01) F16M 11/30 (2006.01) F16M 11/38 (2006.01) F21L 4/00 (2006.01) F21V 21/22 (2006.01)**
[25] EN
[54] **PORTABLE LANTERN AND SCENE LIGHT**
[54] **LANTERNE PORTABLE ET LAMPE DE SCENE**
[72] SHARRAH, RAYMOND L., US
[72] SHARRAH, JONATHAN R., US
[73] STREAMLIGHT, INC., US
[85] 2016-06-14
[86] 2015-01-08 (PCT/US2015/010634)
[87] (WO2015/105983)
[30] US (61/925,388) 2014-01-09

[11] **2,935,169**
[13] C
[51] **Int.Cl. G06Q 50/32 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROCESSING DISTRIBUTION ITEMS IN A DISTRIBUTION NETWORK**
[54] **SYSTEME ET PROCEDE DE TRAITEMENT D'ARTICLES DE DISTRIBUTION DANS UN RESEAU DE DISTRIBUTION**
[72] BENTLEY, DANIEL MARK, US
[72] ARYEETEY, NII-KWASHIE, US
[73] UNITED STATES POSTAL SERVICE, US
[85] 2016-06-23
[86] 2015-01-14 (PCT/US2015/011459)
[87] (WO2015/109016)
[30] US (61/927,720) 2014-01-15

[11] **2,937,334**
[13] C
[51] **Int.Cl. G01D 4/00 (2006.01) G01R 22/00 (2006.01)**
[25] EN
[54] **ELECTRONIC TAMPER DETECTION IN A UTILITY METER USING MAGNETICS**
[54] **DETECTION D'ALTERATION ELECTRONIQUE DANS UN COMPTEUR DE SERVICE PUBLIC A L'AIDE D'ELEMENTS MAGNETIQUES**
[72] BOUDREAU, FRANK J., US
[72] KRAUS, MATTHEW, US
[73] LANDIS+GYR, INC., US
[85] 2016-07-18
[86] 2015-02-10 (PCT/US2015/015286)
[87] (WO2015/120483)
[30] US (14/176,561) 2014-02-10

[11] **2,937,850**
[13] C
[51] **Int.Cl. G06Q 20/40 (2012.01)**
[25] EN
[54] **VERIFICATION OF PORTABLE CONSUMER DEVICES**
[54] **VERIFICATION DE DISPOSITIFS PORTATIFS CLIENTS**
[72] HAMMAD, AYMAN, US
[73] VISA INTERNATIONAL SERVICE ASSOCIATION, US
[86] (2937850)
[87] (2937850)
[22] 2010-05-14
[62] 2,760,938
[30] US (61/178,636) 2009-05-15
[30] US (12/712,148) 2010-02-24

[11] **2,938,652**
[13] C
[51] **Int.Cl. B23K 9/10 (2006.01) H04W 12/06 (2009.01) H04W 52/38 (2009.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PAIRING OF WIRELESS CONTROL DEVICES WITH A WELDING POWER SUPPLY**
[54] **SYSTEMES ET PROCEDES D'APPARIEMENT DE DISPOSITIFS DE COMMANDE SANS FIL A UNE ALIMENTATION DE SOUDAGE**
[72] DENIS, MARC LEE, US
[72] PEOTTER, BENJAMIN G., US
[73] ILLNOIS TOOL WORKS INC., US
[85] 2016-08-03
[86] 2015-01-06 (PCT/US2015/010252)
[87] (WO2015/147954)
[30] US (14/229,219) 2014-03-28

[11] **2,938,801**
[13] C
[51] **Int.Cl. B65D 47/18 (2006.01) B65D 47/20 (2006.01)**
[25] FR
[54] **DEVICE FOR PACKAGING AND DISPENSING A PRODUCT HAVING A DOSING NOZZLE**
[54] **DISPOSITIF DE CONDITIONNEMENT ET DISTRIBUTION D'UN PRODUIT AVEC EMBOUT DOSEUR**
[72] POZZI, JACQUES, FR
[73] SANTEN S.A., CH
[73] HORUS PHARMA, FR
[85] 2016-08-04
[86] 2015-02-11 (PCT/FR2015/050330)
[87] (WO2015/124844)
[30] US (14/185,139) 2014-02-20
[30] FR (1452900) 2014-04-02

[11] **2,940,395**
[13] C
[51] **Int.Cl. F16C 33/12 (2006.01) E21B 41/02 (2006.01) F04B 47/06 (2006.01) F04D 29/046 (2006.01) F16C 17/12 (2006.01)**
[25] EN
[54] **ABRASION RESISTANCE IN WELL FLUID WETTED ASSEMBLIES**
[54] **RESISTANCE A L'ABRASION DANS LES APPAREILLAGES HUMIDES DE FLUIDES DE PUITS**
[72] LUNK, DAVID J., US
[72] JOHNSON, KEITH LEON, US
[72] NOWITZKI, WESLEY JOHN, US
[72] GOTTSCHALK, THOMAS JOHN, US
[72] KENNER, JOHN VANDERSTAAY, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (2940395)
[87] (2940395)
[22] 2016-08-26
[30] US (62/210,068) 2015-08-26
[30] US (15/247,302) 2016-08-25

[11] **2,940,695**
[13] C
[51] **Int.Cl. F16T 1/34 (2006.01) B03C 1/28 (2006.01) F16L 55/07 (2006.01)**
[25] EN
[54] **CONDENSATE REMOVAL DEVICE**
[54] **DISPOSITIF D'ELIMINATION DE CONDENSAT**
[72] MAWBY, SAM, GB
[73] THERMAL ENERGY INTERNATIONAL (UK) LIMITED, GB
[85] 2016-08-25
[86] 2014-03-17 (PCT/GB2014/050839)
[87] (WO2014/147381)
[30] GB (1304935.8) 2013-03-18

[11] **2,940,824**
[13] C
[51] **Int.Cl. G01S 7/481 (2006.01)**
[25] EN
[54] **VARIABLE RESOLUTION LIGHT RADAR SYSTEM**
[54] **SYSTEME RADAR A LUMIERE A RESOLUTION VARIABLE**
[72] JUNGWIRTH, DOUGLAS R., US
[72] BOUCKAERT, ANTON M., US
[73] THE BOEING COMPANY, US
[86] (2940824)
[87] (2940824)
[22] 2016-08-31
[30] US (14/982,416) 2015-12-29

[11] **2,941,941**
[13] C
[51] **Int.Cl. A61B 17/12 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **OCCLUSIVE DEVICES**
[54] **APPAREILS OCCLUSIFS**
[72] RHEE, RICHARD, US
[72] BARDSLEY, EARL, US
[73] COVIDIEN LP, US
[86] (2941941)
[87] (2941941)
[22] 2016-09-14
[30] US (14/862,522) 2015-09-23

[11] **2,942,766**
[13] C
[51] **Int.Cl. B25J 15/06 (2006.01)**
[25] EN
[54] **END OF ARM TOOLING**
[54] **OUTILLAGE D'EXTREMITE DE BRAS**
[72] DUCLOS, DONALD, CA
[72] INGRAM, JOHN, CA
[72] WANG, ZONGXUN, CA
[73] MAGNA INTERNATIONAL, INC., CA
[85] 2016-09-14
[86] 2015-04-01 (PCT/IB2015/052413)
[87] (WO2015/151054)
[30] US (61/974,147) 2014-04-02

[11] **2,943,268**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 36/00 (2006.01)**
[25] EN
[54] **THERMAL ENERGY DELIVERY AND OIL PRODUCTION ARRANGEMENTS AND METHODS THEREOF**
[54] **SYSTEMES D'APPORT D'ENERGIE THERMIQUE ET DE PRODUCTION DE PETROLE, ET PROCEDES ASSOCIES**
[72] HYTKEN, KENT B., US
[73] FUTURE ENERGY, LLC, US
[85] 2016-09-19
[86] 2015-04-01 (PCT/US2015/023773)
[87] (WO2015/153705)
[30] US (61/973,598) 2014-04-01

[11] **2,943,442**
[13] C
[51] **Int.Cl. B01D 21/00 (2006.01) C10G 11/02 (2006.01) C10G 31/09 (2006.01)**
[25] EN
[54] **HEAVY OIL UPGRADE PROCESS INCLUDING RECOVERY OF SPENT CATALYST**
[54] **PROCEDE DE VALORISATION DU PETROLE LOURD COMPRENANT LA RECUPERATION DE CATALYSEUR USE**
[72] ODUEYUNGBO, SEYI A., US
[72] SHAH, LALIT S., US
[72] POWERS, CHRISTOPHER A., US
[72] STOY, JAMES R., US
[72] BRENT, FRED D., US
[72] REYNOLDS, BRUCE E., US
[72] DA COSTA, ANDRE R., US
[72] BRYAN, PAUL F., US
[73] CHEVRON U.S.A. INC., US
[86] (2943442)
[87] (2943442)
[22] 2008-12-19
[62] 2,709,072
[30] US (12/004015) 2007-12-20
[30] US (12/004014) 2007-12-20

[11] **2,944,219**
[13] C
[51] **Int.Cl. B67D 7/60 (2010.01) A47K 5/12 (2006.01) A47K 5/14 (2006.01) B05B 9/00 (2006.01) B65D 25/38 (2006.01) F04B 23/02 (2006.01)**
[25] EN
[54] **IMPROVED FOAM PUMP**
[54] **POMPE A MOUSSE AMELIOREE**
[72] CREAGHAN, DAVID MICHAEL ROSS, GB
[72] BUTLER, ROBERT, GB
[72] LIMBERT, DEAN PHILIP, GB
[72] LANG, CHRISTOPHER JAMES, GB
[72] BANKS, STEWART, PT
[73] DEB IP LIMITED, GB
[85] 2016-09-28
[86] 2015-05-12 (PCT/CA2015/050471)
[87] (WO2015/172257)
[30] US (61/992,101) 2014-05-12

[11] **2,944,297**
[13] C
[51] **Int.Cl. E21B 33/124 (2006.01) E21B 33/04 (2006.01) E21B 33/12 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **TUBULAR AIRLOCK ASSEMBLY**
[54] **ASSEMBLAGE DE SAS TUBULAIRE**
[72] RAVENSBERGEN, JOHN, CA
[72] MONTERO, JUAN, CA
[73] NCS MULTISTAGE INC., CA
[86] (2944297)
[87] (2944297)
[22] 2016-10-05
[30] US (62/238,001) 2015-10-06

[11] **2,944,564**
[13] C
[51] **Int.Cl. H04J 11/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CANCELLING INTERFERENCE AND RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM**
[54] **PROCEDE ET APPAREIL D'ANNULATION DE BROUILLAGE ET DE RECEPTION DE SIGNAL DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] KIM, HYUNGTAE, KR
[72] KIM, KIJUN, KR
[72] AHN, JOONKUI, KR
[72] KIM, BYOUNGHOON, KR
[72] PARK, HANJUN, KR
[72] LEE, HYUNHO, KR
[73] LG ELECTRONICS INC., KR
[85] 2016-09-30
[86] 2015-05-18 (PCT/KR2015/004953)
[87] (WO2015/174802)
[30] US (61/994,132) 2014-05-16
[30] US (62/000,493) 2014-05-19
[30] US (62/004,856) 2014-05-29
[30] US (62/039,925) 2014-08-21

[11] **2,944,718**
[13] C
[51] **Int.Cl. B26F 1/28 (2006.01) A24C 5/56 (2006.01) B26F 1/26 (2006.01)**
[25] EN
[54] **DIFFUSION-OPTIMIZED TIPPING PAPER**
[54] **PAPIER DE REVETEMENT D'EMBOUT A DIFFUSION OPTIMISEE**
[72] LINDNER, MICHAEL, AT
[73] TANNPAPIER GMBH, AT
[85] 2016-10-03
[86] 2015-04-01 (PCT/AT2015/050086)
[87] (WO2015/149103)
[30] AT (A 50252/2014) 2014-04-03

[11] **2,945,059**
[13] C
[51] **Int.Cl. H04W 60/00 (2009.01) H04W 12/06 (2009.01) H04W 12/08 (2009.01)**
[25] EN
[54] **AUTO-USER REGISTRATION AND UNLOCKING OF A COMPUTING DEVICE**
[54] **ENREGISTREMENT AUTOMATIQUE D'UTILISATEUR ET DEVERROUILLAGE D'UN DISPOSITIF INFORMATIQUE**
[72] WOODWARD, JOSHUA, US
[72] CIVELLI, JAY PIERRE, US
[72] BALFANZ, DIRK, US
[72] FUCCI, MARCO, US
[72] CZESKIS, ALEXEI, US
[72] SHAH, NISHIT, US
[72] LIU, KAN, US
[72] LEVIN, MICHAL, US
[73] GOOGLE LLC, US
[85] 2016-10-05
[86] 2015-04-14 (PCT/US2015/025705)
[87] (WO2015/160775)
[30] US (61/980,013) 2014-04-15
[30] US (14/609,407) 2015-01-29

---

[11] **2,946,743**
[13] C
[51] **Int.Cl. E21B 49/00 (2006.01) G01V 3/18 (2006.01) G01V 3/38 (2006.01)**
[25] EN
[54] **INTERWELL TOMOGRAPHY METHODS AND SYSTEMS EMPLOYING A CASING SEGMENT WITH AT LEAST ONE TRANSMISSION CROSSOVER ARRANGEMENT**
[54] **PROCEDES ET SYSTEMES DE TOMOGRAPHIE ENTRE PUITS EMPLOYANT UN SEGMENT DE TUBAGE DOTE D'AU MOINS UN ARRANGEMENT DE PONTAGE DE TRANSMISSION**
[72] BITTAR, MICHAEL S., US
[72] MENEZES, CLIVE D., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2016-10-21
[86] 2015-04-23 (PCT/US2015/027374)
[87] (WO2015/167933)
[30] US (61/987,455) 2014-05-01

---

[11] **2,947,235**
[13] C
[51] **Int.Cl. C07C 53/08 (2006.01) B27K 3/34 (2006.01) C07C 51/44 (2006.01) C07C 51/47 (2006.01) C07C 51/50 (2006.01)**
[25] EN
[54] **PROCESS FOR THE RECOVERY OF CARBOXYLIC ACID AND WOOD TREATMENT PROCESS**
[54] **PROCEDE POUR LA RECUPERATION D'ACIDE CARBOXYLIQUE ET PROCEDE DE TRAITEMENT DU BOIS**
[72] KRUMREY, THOMAS, DE
[72] HUMMEL, ANDREAS, DE
[73] SOLVAY ACETOW GMBH, DE
[85] 2016-10-27
[86] 2015-05-06 (PCT/EP2015/059921)
[87] (WO2015/169833)
[30] EP (14167588.4) 2014-05-08

---

[11] **2,948,123**
[13] C
[51] **Int.Cl. A47J 36/24 (2006.01)**
[25] EN
[54] **SYSTEM FOR HEATING UP LIQUIDS WITH A COVER-CASE/BOX FOR MOBILE PHONE**
[54] **SYSTEME DE CHAUFFAGE DE LIQUIDES A L'AIDE D'UN ETUI/REVETEMENT/BOITIER POUR TELEPHONE MOBILE**
[72] PURGATORIO, GIANCLAUDIO, IT
[72] PURGATORIO, ALESSANDRO, IT
[72] GALASSO, VITO, IT
[73] IUNO LLC, US
[85] 2016-11-04
[86] 2015-05-04 (PCT/IT2015/000121)
[87] (WO2015/170356)
[30] IT (RM2014U000068) 2014-05-06
[30] IT (RM2014000158) 2014-09-29

---

[11] **2,948,966**
[13] C
[51] **Int.Cl. A63H 33/08 (2006.01) A63H 33/10 (2006.01)**
[25] EN
[54] **CONSTRUCTION SYSTEM USING A COMB CONNECTOR**
[54] **SYSTEME DE CONSTRUCTION EMPLOYANT UN CONNECTEUR A PEIGNE**
[72] ACERRA, MICHAEL JAMES, US
[73] ACERRA, MICHAEL JAMES, US
[85] 2016-11-18
[86] 2015-08-06 (PCT/US2015/043929)
[87] (WO2017/023321)

---

[11] **2,949,413**
[13] C
[51] **Int.Cl. B61D 17/18 (2006.01) B60R 13/08 (2006.01)**
[25] EN
[54] **THERMAL INSULATING ELEMENT AND METHOD FOR ASSEMBLING A THERMAL INSULATING ELEMENT ON AN INTERIOR SURFACE OF A RAIL VEHICLE**
[54] **ELEMENT D'ISOLATION THERMIQUE ET PROCEDE DE MONTAGE D'UN ELEMENT D'ISOLATION THERMIQUE SUR UNE SURFACE DE L'HABITACLE D'UN VEHICULE SUR RAILS**
[72] FEHR, ERNST, CH
[73] SSC SWISS SHIELDING CORPORATION AG, CH
[85] 2016-11-17
[86] 2015-05-22 (PCT/EP2015/061368)
[87] (WO2015/177335)
[30] DE (10 2014 107 290.1) 2014-05-23

---

[11] **2,949,715**
[13] C
[51] **Int.Cl. H02G 3/06 (2006.01) F16L 5/00 (2006.01) H02G 3/22 (2006.01) H01R 13/58 (2006.01)**
[25] EN
[54] **GROMMET FOR A CABLE CONNECTOR AND A STRAIN RELIEF CABLE FITTING HAVING AN INSERT**
[54] **OEILLET DESTINE A UN CONNECTEUR DE CABLE ET UN RACCORD DE CABLE A LIBERATION DE CONTRAINTE COMPORTANT UNE INSERTION**
[72] MARTINO, FILIPPO, CA
[72] LITTLEFIELD, JEFFREY VINCENT, CA
[73] IPEX TECHNOLOGIES INC., CA
[86] (2949715)
[87] (2949715)
[22] 2016-11-25
[30] CA (2,925,184) 2016-03-29

[11] ***2,953,066**
[13] C
[51] **Int.Cl. C09K 3/00 (2006.01) B82Y 30/00 (2011.01) B01F 17/00 (2006.01) C01G 29/00 (2006.01) C09K 8/584 (2006.01) F17D 1/17 (2006.01) E21B 43/22 (2006.01)**
[25] EN
[54] **OIL BASED COMPOSITIONS FOR DISPERSING ASPHALTENES AND PARAFFINS**
[54] **COMPOSITIONS A BASE D'HUILE POUR DISPERSER DES ASPHALTENES ET DES PARAFFINES**
[72] ISUNZA REBOLLEDO, ITZEDER ALEJANDRO, MX
[73] ISUNZA REBOLLEDO, ITZEDER ALEJANDRO, MX
[85] 2016-12-20
[86] 2015-05-26 (PCT/IB2015/053927)
[87] (WO2015/181719)
[30] MX (MX/A/2014/006332) 2014-05-26

[11] **2,953,260**
[13] C
[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/65 (2006.01) A61Q 19/08 (2006.01)**
[25] FR
[54] **COMBINATION PRODUCTS AND COSMETIC COMPOSITIONS FOR CONTROLLING SKIN DISORDERS AND SKIN AGING THAT AFFECT KERATINOCYTES AND/OR FIBROBLASTS AND THE DERMIS**
[54] **PRODUITS DE COMBINAISON ET COMPOSITIONS COSMETIQUES POUR LUTTER CONTRE LES DESORDRES DE LA PEAU ET SON VIEILLISSEMENT AFFECTANT LES KERATINOCYTES ET/OU LES FIBROBLASTES ET LE DERME**
[72] MAHE, YANN, FR
[72] BRU, CAROLE, FR
[73] NUTRICOS TECHNOLOGIES, FR
[85] 2016-12-21
[86] 2015-06-30 (PCT/EP2015/064863)
[87] (WO2016/001233)
[30] FR (1456161) 2014-06-30
[30] FR (1456146) 2014-06-30

[11] **2,955,040**
[13] C
[51] **Int.Cl. A61B 17/34 (2006.01) A61B 17/29 (2006.01) A61M 39/02 (2006.01)**
[25] EN
[54] **EXCHANGER SURGICAL ACCESS PORT AND METHODS OF USE**
[54] **ORIFICE D'ACCES CHIRURGICAL DE TYPE ADAPTATEUR ET METHODES D'UTILISATION**
[72] RAVIKUMAR, SUNDARAM, US
[72] ALWARD, HARRY ALLAN, US
[72] OSBORNE, GUY, US
[73] TELEFLEX MEDICAL INCORPORATED, US
[85] 2017-01-12
[86] 2015-07-14 (PCT/US2015/040371)
[87] (WO2016/011023)
[30] US (62/024,999) 2014-07-15

[11] **2,955,235**
[13] C
[51] **Int.Cl. C08K 9/02 (2006.01) B33Y 10/00 (2015.01) B29C 64/118 (2017.01) C08L 101/12 (2006.01)**
[25] EN
[54] **CONDUCTIVE POLYMER COMPOSITE**
[54] **COMPOSITE POLYMERE CONDUCTEUR**
[72] VELLA, SARAH J., CA
[72] PRESTAYKO, RACHEL, CA
[72] MOORLAG, CAROLYN, CA
[72] KEOSHKERIAN, BARKEV, CA
[73] XEROX CORPORATION, US
[86] (2955235)
[87] (2955235)
[22] 2017-01-16
[30] US (15/000609) 2016-01-19

[11] **2,956,282**
[13] C
[51] **Int.Cl. C12M 1/33 (2006.01)**
[25] EN
[54] **INTEGRATED DEVICE FOR HOMOGENIZATION AND CELL DISRUPTION FEATURING A LONG OIL CYLINDER**
[54] **DISPOSITIF INTEGRE D'HOMOGENEISATION ET DE PERTURBATION DE CELLULE COMPORTANT UN CYLINDRE A HUILE LONG**
[72] YU, XINGWEN, CN
[72] YU, QIAN, CN
[73] GUANGZHOU JUNENG NANO&BIO TECHNOLOGY CO., LTD, CN
[85] 2017-01-25
[86] 2015-03-31 (PCT/CN2015/075445)
[87] (WO2016/037482)
[30] CN (201410461556.0) 2014-09-11
[30] CN (201410461557.5) 2014-09-11

[11] **2,958,512**
[13] C
[51] **Int.Cl. G09B 21/00 (2006.01) G06F 3/0488 (2013.01)**
[25] FR
[54] **DEVICE ESPECIALLY FOR A DISPLAY FOR VISUALLY IMPAIRED PEOPLE AND DISPLAY COMPRISING SUCH A DEVICE**
[54] **DISPOSITIF NOTAMMENT POUR AFFICHEUR DESTINE A DES MALVOYANTS ET AFFICHEUR COMPORTANT UN TEL DISPOSITIF**
[72] LE ROUZO, DENIS, FR
[72] MAUDUIT, DAMIEN, FR
[73] INSIDE VISION, FR
[85] 2017-02-17
[86] 2015-08-12 (PCT/FR2015/000175)
[87] (WO2016/027011)
[30] FR (14 01870) 2014-08-18

[11] **2,958,692**
[13] C
[51] **Int.Cl. B64C 1/40 (2006.01) B64C 1/12 (2006.01) B64C 1/38 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR FORMING AND INSTALLING INSULATION BLANKETS IN A VEHICLE COMPARTMENT**
[54] **METHODES ET APPAREIL DE FACONNAGE ET INSTALLATION DE COUVERTURES D'ISOLATION DANS UN COMPARTIMENT DE VEHICULE**
[72] BORUMAND, KHASHAYAR, US
[73] THE BOEING COMPANY, US
[86] (2958692)
[87] (2958692)
[22] 2017-02-22
[30] US (15/084231) 2016-03-29

[11] **2,959,315**
[13] C
[51] **Int.Cl. E21B 47/01 (2012.01) E21B 47/017 (2012.01)**
[25] EN
[54] **MOUNTING PLATE APPARATUS, SYSTEMS, AND METHODS**
[54] **APPAREIL, SYSTEMES, ET PROCEDES A PLAQUE DE MONTAGE**
[72] KNIGHT, SEAN PAUL, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-02-24
[86] 2014-10-22 (PCT/US2014/061744)
[87] (WO2016/064382)

[11] **2,959,363**
[13] C
[51] **Int.Cl. H01S 3/067 (2006.01) G02B 6/255 (2006.01) H01S 3/042 (2006.01)**
[25] EN
[54] **OPTICAL FIBER DEVICE**
[54] **DISPOSITIF A FIBRE OPTIQUE**
[72] MURAKAMI, MASANAO, JP
[72] SCHAEFER, CHRISTIAN, JP
[72] HATTORI, SATOSHI, JP
[72] HAYASHI, TAKAHISA, JP
[72] SHIMIZU, SEIJI, JP
[72] TOKITA, SHIGEKI, JP
[73] MITSUBOSHI DIAMOND INDUSTRIAL CO., LTD., JP
[73] OSAKA UNIVERSITY, JP
[85] 2017-02-24
[86] 2015-07-24 (PCT/JP2015/071115)
[87] (WO2016/031458)
[30] JP (2014-172809) 2014-08-27

[11] **2,959,713**
[13] C
[51] **Int.Cl. G01G 21/22 (2006.01) G01G 23/18 (2006.01) G01N 21/77 (2006.01) G01N 21/78 (2006.01) G06K 9/18 (2006.01)**
[25] EN
[54] **ENHANCED PLATEN FOR PHARMACEUTICAL COMPOUNDING**
[54] **PLATEAU AMELIORE POUR MALAXAGE PHARMACEUTIQUE**
[72] SANDMANN, CHRISTIAN, US
[72] WITT, ERIK KURT, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2017-02-28
[86] 2015-09-08 (PCT/US2015/048975)
[87] (WO2016/040340)
[30] US (62/047,325) 2014-09-08
[30] US (62/072,160) 2014-10-29
[30] US (62/072,054) 2014-10-29
[30] US (62/078,067) 2014-11-11
[30] US (62/077,968) 2014-11-11

[11] **2,960,220**
[13] C
[51] **Int.Cl. G07C 5/00 (2006.01)**
[25] EN
[54] **VEHICLE INFORMATION SYSTEM**
[54] **SYSTEME D'INFORMATIONS DE VEHICULE**
[72] HAIDAR, MAHMOUD, US
[72] HARPER, SCOTT CLIFTON, US
[72] KINNEY, POWELL MCVAY, US
[72] ALKHOURY FALLOUH, SAMER, US
[72] TURNEY, KYLE JUSTIN, US
[72] GINGRICH, NATHANAEL LLOYD, US
[72] MOORE, BENJAMIN DAVID, US
[72] HALL, DANIEL THOMAS, US
[73] VINLI, US
[73] HAIDAR, MAHMOUD, US
[73] HARPER, SCOTT CLIFTON, US
[73] KINNEY, POWELL MCVAY, US
[73] ALKHOURY FALLOUH, SAMER, US
[73] TURNEY, KYLE JUSTIN, US
[73] GINGRICH, NATHANAEL LLOYD, US
[73] MOORE, BENJAMIN DAVID, US
[73] HALL, DANIEL THOMAS, US
[85] 2017-03-03
[86] 2015-09-08 (PCT/US2015/049040)
[87] (WO2016/037193)
[30] US (62/046,857) 2014-09-05

[11] **2,961,294**
[13] C
[51] **Int.Cl. F23Q 7/22 (2006.01) F23G 7/08 (2006.01) F23Q 7/06 (2006.01) F23Q 7/10 (2006.01) F23Q 23/10 (2006.01)**
[25] EN
[54] **SPARKLESS IGNITERS AND METHODS FOR PILOT IGNITION**
[54] **ALLUMEURS SANS ETINCELLE ET METHODE D'ALLUMAGE DE PILOTE**
[72] COOK, RONNIE, US
[73] SUREFIRE PILOTLESS BURNER SYSTEMS LLC, US
[86] (2961294)
[87] (2961294)
[22] 2017-03-20
[30] US (62/315,555) 2016-03-30

[11] **2,962,661**
[13] C
[51] **Int.Cl. G01M 3/40 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR MONITORING LEAKS IN UNDERGROUND STORAGE TANKS**
[54] **SYSTEME ET METHODES DE SURVEILLANCE DE FUITES DANS LES RESERVOIRS DE STOCKAGE SOUTERRAINS**
[72] RABB, DAVID M., US
[72] HUEY, KENNETH H., US
[73] LEAK DETECTION TECHNOLOGIES, INC., US
[86] (2962661)
[87] (2962661)
[22] 2017-03-29
[30] US (15/084,267) 2016-03-29

[11] **2,963,373**
[13] C
[51] **Int.Cl. B62K 17/00 (2006.01) B62L 1/12 (2006.01) B62L 3/04 (2006.01)**
[25] EN
[54] **WHEELED BALANCE-TRAINING DEVICE**
[54] **APPAREIL D'ENTRAINEMENT DE L'EQUILIBRE SUR ROUE**
[72] MA, FEIYU, US
[73] MA, FEIYU, US
[85] 2017-03-31
[86] 2014-10-03 (PCT/US2014/059034)
[87] (WO2016/053351)

[11] **2,965,488**
[13] C
[51] **Int.Cl. H02M 1/10 (2006.01) H02M 3/158 (2006.01) H02M 3/335 (2006.01) H02M 7/72 (2006.01)**
[25] EN
[54] **MULTI-MODE ENERGY ROUTER**
[54] **ROUTEUR D'ENERGIE MULTI-MODE**
[72] RAYNER, MARK DOUGLAS, US
[72] LIU, YU, US
[72] GERHOLD, RICHARD ROBERT, US
[72] JIAO, DA, US
[73] TOSHIBA INTERNATIONAL CORPORATION, US
[85] 2017-04-21
[86] 2015-10-20 (PCT/US2015/056456)
[87] (WO2016/064872)
[30] US (62/066,475) 2014-10-21

---

[11] **2,965,978**
[13] C
[51] **Int.Cl. C08G 77/62 (2006.01) C08L 83/16 (2006.01) C09D 183/16 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD TO FORM A SELF DECONTAMINATING SURFACE**
[54] **COMPOSITION ET PROCEDE POUR FORMER UNE SURFACE AUTODECONTAMINANTE**
[72] MOROS, DANIEL, US
[72] GROSSMAN, CRAIG, US
[72] GROSSMAN, GAVRI, US
[73] ALLIED BIOSCIENCE, INC., US
[85] 2017-04-26
[86] 2015-11-04 (PCT/US2015/059080)
[87] (WO2016/073634)
[30] US (62/075,020) 2014-11-04

---

[11] **2,966,208**
[13] C
[51] **Int.Cl. H01G 11/28 (2013.01) H01G 11/36 (2013.01) H01G 11/38 (2013.01) H01G 11/46 (2013.01)**
[25] EN
[54] **SUPERCAPACITOR ELECTRODES INCLUDING GRAPHENIC CARBON PARTICLES**
[54] **ELECTRODES DE SUPERCONDENSATEUR COMPRENANT DES PARTICULES DE CARBONE GRAPHENIQUE**
[72] ASAY, DAVID B., US
[72] VANIER, NOEL R., US
[72] ATMURI, ANAND K., US
[72] HELLRING, STUART D., US
[72] HUNG, CHENG-HUNG, US
[72] KAHLE, CHARLES F., US
[72] BURGMAN, JOHN W., US
[72] YI, RAN, US
[73] PPG INDUSTRIES OHIO, INC., US
[85] 2017-04-27
[86] 2015-10-30 (PCT/US2015/058277)
[87] (WO2016/070020)
[30] US (62/073,298) 2014-10-31

---

[11] **2,967,948**
[13] C
[51] **Int.Cl. A61B 5/0404 (2006.01) A61B 5/0408 (2006.01) A61B 5/0428 (2006.01) A61B 5/0432 (2006.01) A61B 5/044 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PERFORMING ELECTROCARDIOGRAMS**
[54] **SYSTEMES ET PROCEDES POUR REALISER DES ELECTROCARDIOGRAMMES**
[72] DRAKE, STEFAN, US
[73] DRAKE, STEFAN, US
[85] 2017-05-15
[86] 2015-11-14 (PCT/US2015/060761)
[87] (WO2016/077810)
[30] US (62/080,203) 2014-11-14

---

[11] **2,970,501**
[13] C
[51] **Int.Cl. G16B 20/10 (2019.01) G16B 20/00 (2019.01) G16B 30/00 (2019.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **USING CELL-FREE DNA FRAGMENT SIZE TO DETERMINE COPY NUMBER VARIATIONS**
[54] **UTILISATION DE LA TAILLE DE FRAGMENTS D'ADN ACELLULAIRE POUR DETERMINER LES VARIATIONS DU NOMBRE DE COPIES**
[72] CHUDOVA, DARYA I., US
[72] BARBACIORU, CATALIN, US
[72] DUENWALD, SVEN, US
[72] COMSTOCK, DAVID A., US
[72] RAVA, RICHARD P., US
[73] VERINATA HEALTH, INC., US
[85] 2017-06-09
[86] 2015-12-11 (PCT/US2015/065362)
[87] (WO2016/094853)
[30] US (62/091,380) 2014-12-12

---

[11] **2,970,636**
[13] C
[51] **Int.Cl. B66B 9/04 (2006.01) F15B 1/02 (2006.01)**
[25] EN
[54] **AUXILIARY PUMPING UNIT**
[54] **UNITE DE POMPAGE AUXILIAIRE**
[72] HAMLETT, ANTHONY FRANK, US
[72] WALKER, ROY, US
[72] HOOPER, GARY, US
[73] THYSSENKRUPP ELEVATOR CORPORATION, US
[86] (2970636)
[87] (2970636)
[22] 2015-05-25
[62] 2,892,648
[30] US (14/305,674) 2014-06-16

[11] **2,972,438**
[13] C
[51] **Int.Cl. A61F 9/008 (2006.01)**
[25] EN
[54] **SUBTHRESHOLD MICROPULSE LASER PROPHYLACTIC TREATMENT FOR CHRONIC PROGRESSIVE RETINAL DISEASES**
[54] **TRAITEMENT PROPHYLACTIQUE PAR LASER A MICRO-IMPULSIONS INFRALIMINAIRE POUR MALADIES EVOLUTIVES CHRONIQUES DE LA RETINE**
[72] LUTTRULL, JEFFREY K., US
[72] MARGOLIS, BENJAMIN W. L., US
[72] CHANG, DAVID B., US
[73] OJAI RETINAL TECHNOLOGY, LLC, US
[85] 2017-06-27
[86] 2015-11-16 (PCT/US2015/060836)
[87] (WO2016/122750)
[30] US (14/607,959) 2015-01-28
[30] US (14/921,890) 2015-10-23

[11] **2,972,488**
[13] C
[51] **Int.Cl. G07B 11/00 (2006.01) G06K 9/18 (2006.01)**
[25] EN
[54] **NETWORKED BARCODE VERIFICATION SYSTEM**
[54] **SYSTEME DE VERIFICATION DE CODE A BARRES EN RESEAU**
[72] MARTI, BENJAMIN J., US
[72] DENKER, DENNIS A., US
[72] LEVIN, SAMUEL, US
[73] TICKETMASTER, LLC, US
[86] (2972488)
[87] (2972488)
[22] 2010-03-04
[62] 2,754,493
[30] US (16/158237) 2009-03-06

[11] **2,973,495**
[13] C
[51] **Int.Cl. G01N 21/17 (2006.01) G01N 21/66 (2006.01) G01N 27/26 (2006.01) G01N 27/30 (2006.01)**
[25] EN
[54] **THIN-LAYER SPECTROELECTROCHEMICAL CELL FOR USE IN SUBTERRANEAN FORMATION OPERATIONS**
[54] **CELLULE DE SPECTRO-ELECTROCHIMIE A COUCHE MINCE DESTINEE A ETRE UTILISEE DANS DES OPERATIONS DE FORMATION SOUTERRAINE**
[72] SHEN, JING, US
[72] ZHANG, WEI, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-07-10
[86] 2015-02-20 (PCT/US2015/016760)
[87] (WO2016/133528)

[11] **2,973,645**
[13] C
[51] **Int.Cl. G01N 1/28 (2006.01) G06T 7/30 (2017.01) G01N 33/48 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MESO-DISSECTION**
[54] **SYSTEMES ET PROCEDES POUR MESO-DISSECTION**
[72] BARNES, MICHAEL, US
[72] CHUKKA, SRINIVAS, US
[72] QADRI, MOHAMMAD, US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2017-07-12
[86] 2016-01-29 (PCT/EP2016/051894)
[87] (WO2016/120433)
[30] US (62/110,477) 2015-01-31

[11] **2,973,838**
[13] C
[51] **Int.Cl. H01Q 1/36 (2006.01) F21K 9/00 (2016.01) H05B 47/19 (2020.01) F21V 23/00 (2015.01) H01R 13/646 (2011.01)**
[25] EN
[54] **RF CONNECTOR AND ANTENNA ASSEMBLY FOR CONTROL DEVICES, FOR EXAMPLE, FOR CONTROL OF OR INCLUSION IN A LUMINAIRE**
[54] **ENSEMBLE DE CONNECTEUR RF ET ANTENNE DESTINE A DES DISPOSITIFS DE COMMANDE, PAR EXEMPLE, POUR COMMANDER UNE INCLUSION DANS UN LUMINAIRE**
[72] JOHNSON, JOHN, US
[72] CLEMENT, MATTHEW, US
[72] ROQUEMORE, JOHN PETER, III, US
[72] GONZALEZ, JOSE, US
[73] ABL IP HOLDING LLC, US
[86] (2973838)
[87] (2973838)
[22] 2017-07-18
[30] US (15/213,697) 2016-07-19

[11] **2,975,992**
[13] C
[51] **Int.Cl. H04L 1/22 (2006.01) H04H 60/11 (2009.01) H03M 13/11 (2006.01) H03M 13/27 (2006.01)**
[25] EN
[54] **TRANSMITTER AND METHOD FOR GENERATING ADDITIONAL PARITY THEREOF**
[54] **EMETTEUR ET PROCEDE POUR GENERER UNE PARITE ADDITIONNELLE POUR CELUI-CI**
[72] MYUNG, SE-HO, KR
[72] KIM, KYUNG-JOONG, KR
[72] JEONG, HONG-SIL, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2017-08-04
[86] 2016-02-25 (PCT/KR2016/001885)
[87] (WO2016/137259)
[30] US (62/120,560) 2015-02-25
[30] KR (10-2015-0137180) 2015-09-27

[11] **2,976,448**
[13] C
[51] **Int.Cl. H02G 3/04 (2006.01) H02G 3/06 (2006.01)**
[25] EN
[54] **CORROSION RESISTANT ELECTRICAL CONDUIT SYSTEM**
[54] **SYSTEME DE CONDUIT ELECTRIQUE RESISTANT A LA CORROSION**
[72] TREMELLING, DARREN DALE, US
[72] ZANT, NIKOLAUS PETER, US
[72] GAO, YAN, US
[72] LAM, LETISHA MCLAUGHLIN, US
[72] DRANE, MARK, US
[72] DINH, CONG THANH, US
[72] DE LA BORBOLLA, IAN RUBIN, US
[72] WHITE, RONALD, US
[73] TREMELLING, DARREN DALE, US
[73] ZANT, NIKOLAUS PETER, US
[73] GAO, YAN, US
[73] LAM, LETISHA MCLAUGHLIN, US
[73] DRANE, MARK, US
[73] DINH, CONG THANH, US
[73] DE LA BORBOLLA, IAN RUBIN, US
[73] WHITE, RONALD, US
[73] ABB SCHWEIZ AG, CH
[85] 2017-08-11
[86] 2016-02-12 (PCT/US2016/017752)
[87] (WO2016/130919)
[30] US (62/115,715) 2015-02-13

---

[11] **2,977,378**
[13] C
[51] **Int.Cl. G11C 11/44 (2006.01) G11C 7/22 (2006.01) G11C 8/18 (2006.01) H01L 27/18 (2006.01) H01L 39/22 (2006.01)**
[25] EN
[54] **TIMING CONTROL IN A QUANTUM MEMORY SYSTEM**
[54] **COMMANDE DE SYNCHRONISATION DANS UN SYSTEME A MEMOIRE QUANTIQUE**
[72] REOHR, WILLIAM ROBERT, US
[72] SHAUCK, STEVEN BRIAN, US
[72] MILLER, DONALD LYNN, US
[72] HORNER, JEREMY WILLIAM, US
[72] JOSEPHSEN, NATHAN TRENT, US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2017-08-21
[86] 2016-02-26 (PCT/US2016/019863)
[87] (WO2016/140889)
[30] US (14/639,688) 2015-03-05

---

[11] **2,977,501**
[13] C
[51] **Int.Cl. G01F 1/84 (2006.01) G01N 9/00 (2006.01)**
[25] EN
[54] **CORIOLIS THRESHOLD DETERMINATION DEVICES AND METHODS**
[54] **DISPOSITIFS ET PROCEDES DE DETERMINATION D'UN SEUIL DE L'EFFET DE CORIOLIS**
[72] SCHOLLENBERGER, FREDERICK SCOTT, US
[72] WEINSTEIN, JOEL, US
[73] MICRO MOTION, INC., US
[85] 2017-08-22
[86] 2016-01-06 (PCT/US2016/012340)
[87] (WO2016/140734)
[30] US (62/128,255) 2015-03-04

---

[11] **2,980,426**
[13] C
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/00 (2020.01) A24B 15/10 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **FLAVOR INHALER**
[54] **INHALATEUR DE SAVEUR**
[72] SUZUKI, AKIHIKO, JP
[72] TAKEUCHI, MANABU, JP
[72] NAKANO, TAKUMA, JP
[72] YAMADA, MANABU, JP
[73] JAPAN TOBACCO INC., JP
[85] 2017-09-20
[86] 2016-03-29 (PCT/JP2016/060251)
[87] (WO2016/159013)
[30] JP (PCT/JP2015/060493) 2015-04-02

---

[11] **2,980,558**
[13] C
[51] **Int.Cl. E21B 21/10 (2006.01) E21B 21/08 (2006.01) E21B 33/03 (2006.01) E21B 33/13 (2006.01) E21B 43/10 (2006.01) E21B 47/06 (2012.01)**
[25] EN
[54] **ROTATING CONTROL DEVICE HAVING A CAVITY AT A PREDETERMINED FLUID PRESSURE**
[54] **DISPOSITIF DE CONTROLE DE ROTATION AYANT UNE CAVITE A UNE PRESSION DE FLUIDE PREDETERMINEE**
[72] HOYER, CAREL W., GB
[72] HANNEGAN, DON M., US
[72] BAILEY, THOMAS F., US
[72] JACOBS, MELVIN T., US
[72] WHITE, NICKY A., US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[86] (2980558)
[87] (2980558)
[22] 2010-07-27
[62] 2,711,621
[30] US (12/462,266) 2009-07-31

---

[11] **2,980,753**
[13] C
[51] **Int.Cl. F41H 5/00 (2006.01) A45F 3/04 (2006.01) A45F 3/06 (2006.01) A63B 71/12 (2006.01) F41H 5/02 (2006.01)**
[25] EN
[54] **COMBINED CARRIERS AND PROTECTIVE VESTS**
[54] **VESTES DE PROTECTION ET PORTEURS COMBINES**
[72] DE GEUS, MICHAEL, US
[73] LEATHERBACK GEAR, LLC, US
[85] 2017-11-02
[86] 2017-03-29 (PCT/US2017/042819)
[87] (WO2018/017690)
[30] US (15/232,548) 2016-08-09

[11] **2,982,098**
[13] C
[51] **Int.Cl. C08J 5/16 (2006.01) C08K 3/00 (2018.01) C08K 3/08 (2006.01) C08K 5/00 (2006.01) C08L 23/02 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL POLYMER COMPOSITE YARN**
[54] **FIL COMPOSITE POLYMERE MULTIFONCTIONNEL**
[72] RAUT, SANJAY VASUDEO, IN
[72] GUNARI, NIKHIL, IN
[73] GARWARE-WALL ROPES LIMITED, IN
[86] (2982098)
[87] (2982098)
[22] 2017-10-11
[30] IN (201721000962) 2017-01-10

[11] **2,982,466**
[13] C
[51] **Int.Cl. F02C 7/24 (2006.01) B64D 29/00 (2006.01) B64D 33/00 (2006.01) F01D 25/24 (2006.01) F02C 7/045 (2006.01)**
[25] EN
[54] **ACOUSTIC PANEL OF TURBINE ENGINE**
[54] **PANNEAU ACOUSTIQUE DE MOTEUR DE TURBINE**
[72] HEETER, ROBERT WARREN, US
[72] RIVERS, JONATHAN, US
[72] BURNEY, DENNES KYLE, US
[73] ROLLS-ROYCE CORPORATION, US
[86] (2982466)
[87] (2982466)
[22] 2017-10-16
[30] US (15/452,341) 2017-03-07

[11] **2,983,181**
[13] C
[51] **Int.Cl. F24H 1/40 (2006.01) F24H 1/14 (2006.01) F24H 9/00 (2006.01) F28D 1/047 (2006.01)**
[25] EN
[54] **ALTERNATIVE COIL FOR FIRED PROCESS HEATER**
[54] **BOBINE DE REMPLACEMENT POUR APPAREIL DE CHAUFFAGE A COMBUSTIBLE**
[72] YUAN, QUAN, US
[72] GATTUPALLI, RAJESWAR, US
[72] LOK, KA, US
[72] HARTMAN, WILLIAM M., US
[72] EGOLF, BRYAN J., US
[73] UOP LLC, US
[85] 2017-10-17
[86] 2016-06-21 (PCT/US2016/038543)
[87] (WO2017/003767)
[30] US (62/186,536) 2015-06-30

[11] **2,983,987**
[13] C
[51] **Int.Cl. H05B 45/20 (2020.01) F21K 9/00 (2016.01) H05B 47/19 (2020.01) A01G 9/20 (2006.01)**
[25] EN
[54] **USER CONTROLLABLE GROW LIGHTING SYSTEM, METHOD, AND ONLINE LIGHT SETTINGS STORE**
[54] **SYSTEME D'ECLAIRAGE DE CROISSANCE CONTROLABLE PAR L'UTILISATEUR, METHODE ET MAGASIN DE PARAMETRES D'ECLAIRAGE EN LIGNE**
[72] CHEN, XIAOLAI, CA
[73] CHEN, XIAOLAI, CA
[86] (2983987)
[87] (2983987)
[22] 2017-10-25
[30] US (62/530,140) 2017-07-08
[30] US (15/782,792) 2017-10-12

[11] **2,985,213**
[13] C
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01) F04B 19/00 (2006.01)**
[25] EN
[54] **OCCLUSION DETECTION TECHNIQUES FOR A FLUID INFUSION DEVICE HAVING A ROTARY PUMP MECHANISM**
[54] **TECHNIQUES DE DETECTION D'OCCLUSION POUR UN DISPOSITIF DE PERFUSION DE FLUIDE AYANT UN MECANISME DE POMPE A ROTOR**
[72] ALDERETE, JUAN M., JR., US
[72] YAVORSKY, MATTHEW WILLIAM, US
[72] PANANEN, JACOB E., US
[72] TIECK, R. MARIE, US
[72] VAZQUEZ, PABLO, US
[72] NG, ANTHONY C., US
[72] BAZARGAN, AFSHIN, US
[73] MEDTRONIC MINIMED, INC., US
[85] 2017-11-06
[86] 2016-05-27 (PCT/US2016/034788)
[87] (WO2016/209554)
[30] US (14/746,624) 2015-06-22
[30] US (14/746,634) 2015-06-22
[30] US (14/746,641) 2015-06-22
[30] US (14/746,648) 2015-06-22
[30] US (14/746,654) 2015-06-22

[11] **2,985,349**
[13] C
[51] **Int.Cl. E21B 7/18 (2006.01) E21B 7/06 (2006.01) E21B 7/08 (2006.01) E21B 43/28 (2006.01) E21B 47/024 (2006.01) E21B 47/06 (2012.01) E21B 47/12 (2012.01)**
[25] EN
[54] **REAL-TIME STEERABLE ACID TUNNELING SYSTEM**
[54] **SYSTEME DE FORAGE EN TUNNEL PAR ACIDE, ORIENTABLE EN TEMPS REEL**
[72] LIVESCU, SILVIU, CA
[72] WATKINS, THOMAS J., CA
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2017-11-07
[86] 2016-05-11 (PCT/US2016/031778)
[87] (WO2016/183149)
[30] US (14/710,926) 2015-05-13

[11] **2,986,404**
[13] C
[51] **Int.Cl. A63B 71/12 (2006.01) A41D 13/015 (2006.01)**
[25] EN
[54] **NECK PROTECTIVE APPARATUS**
[54] **APPAREIL DE PROTECTION DU COU**
[72] PILON, JEFF, CA
[73] TURTLE NECK SPORT APPAREL, CA
[86] (2986404)
[87] (2986404)
[22] 2017-11-22
[30] US (62/425,259) 2016-11-22

---

[11] **2,986,475**
[13] C
[51] **Int.Cl. A61B 17/12 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **METHOD AND DEVICE FOR SECLUDING A BODY VESSEL**
[54] **PROCEDE ET DISPOSITIF D'ISOLEMENT D'UN VAISSEAU SANGUIN**
[72] MARTIN, DAVID A., US
[73] BASIS MEDICAL, LLC, US
[85] 2017-11-17
[86] 2016-05-20 (PCT/US2016/033510)
[87] (WO2016/187530)
[30] US (14/718,865) 2015-05-21
[30] US (14/978,021) 2015-12-22

---

[11] **2,986,537**
[13] C
[51] **Int.Cl. G01N 21/95 (2006.01) G01N 21/89 (2006.01)**
[25] EN
[54] **METHOD OF INSPECTING A STEEL STRIP**
[54] **METHODE D'INSPECTION D'UNE BANDE D'ACIER**
[72] WILD, MICHAEL, DE
[72] NOLLEN, THOMAS, DE
[73] THYSSENKRUPP RASSELSTEIN GMBH, DE
[73] THYSSENKRUPP AG, DE
[86] (2986537)
[87] (2986537)
[22] 2017-11-23
[30] DE (10 2016 124 522.4) 2016-12-15

---

[11] **2,987,442**
[13] C
[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS PARTAGE, ET PROCEDE, DISPOSITIF ET SERVEUR ASSOCIES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-28
[86] 2015-05-28 (PCT/CN2015/080062)
[87] (WO2016/173038)
[30] CN (201510219363.9) 2015-04-30

---

[11] **2,987,584**
[13] C
[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/068 (2006.01) A63B 23/00 (2006.01)**
[25] EN
[54] **A PORTABLE AND STOWABLE VERTICAL KNEE RAISE EXERCISE APPARATUS, SYSTEM AND METHOD**
[54] **UN APPAREIL D'EXERCICE DE RELEVEMENT DU GENOU VERTICAL, FACILE A RANGER ET PORTATIF, SYSTEME ET METHODE**
[72] NOREN, SCOTT, US
[72] PASTER, AREN, US
[72] CLIPPINGER, AARON, US
[72] VALDEZ, TAYLOR, US
[72] OLIGNY, LARRY, US
[72] BUCHOVECKY, RYAN, US
[72] CROKE, MICHAEL, US
[72] CONWAY, MAEVE, US
[73] NOREN, SCOTT, US
[86] (2987584)
[87] (2987584)
[22] 2017-12-05
[30] US (62/430,471) 2016-12-06

---

[11] **2,987,631**
[13] C
[51] **Int.Cl. B23P 6/00 (2006.01) B23K 9/04 (2006.01) B61G 7/00 (2006.01)**
[25] EN
[54] **RECONDITIONING OF ARTICULATED CONNECTOR LOAD BEARING BOTTOM SURFACES**
[54] **REMISE EN ETAT DE SURFACES INFERIEURES PORTEUSES DE RACCORD ARTICULE**
[72] BRUECKERT, RICHARD A., US
[72] GUESS, WILLIAM A., US
[72] KROESCH, DONALD F., US
[73] TTX COMPANY, US
[86] (2987631)
[87] (2987631)
[22] 2013-01-25
[62] 2,861,574
[30] US (61/590,675) 2012-01-25
[30] US (13/749,305) 2013-01-24
[30] US (13/749,190) 2013-01-24
[30] US (13/749,364) 2013-01-24
[30] US (13/749,325) 2013-01-24
[30] US (13/749,229) 2013-01-24

---

[11] **2,988,076**
[13] C
[51] **Int.Cl. E21B 43/117 (2006.01) E21B 29/02 (2006.01) E21B 43/119 (2006.01)**
[25] EN
[54] **ESTABLISHING HYDRAULIC COMMUNICATION BETWEEN RELIEF WELL AND TARGET WELL**
[54] **ETABLISSEMENT DE COMMUNICATION HYDRAULIQUE ENTRE UN PUITS D'INTERVENTION ET UN PUITS CIBLE**
[72] HESS, JOSEPH ELI, US
[72] BURKY, THOMAS EARL, US
[72] CUTHBERT, ANDREW JOHN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-12-01
[86] 2015-07-02 (PCT/US2015/039085)
[87] (WO2017/003487)

[11] **2,988,210**
[13] C
[51] **Int.Cl. G02B 27/01 (2006.01) B60J 1/02 (2006.01) B60K 35/00 (2006.01) G02B 27/18 (2006.01)**
[25] EN
[54] **PROJECTION ARRANGEMENT FOR A HEAD-UP DISPLAY (HUD)**
[54] **SYSTEME DE PROJECTION POUR VISUALISATION TETE HAUTE (HUD)**
[72] ARNDT, MARTIN, DE
[72] GOSSEN, STEFAN, DE
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2017-12-04
[86] 2016-06-10 (PCT/EP2016/063407)
[87] (WO2016/198679)
[30] EP (15171630.5) 2015-06-11

[11] **2,989,108**
[13] C
[51] **Int.Cl. E21B 33/129 (2006.01) E21B 23/06 (2006.01)**
[25] EN
[54] **BIDIRECTIONAL SLIPS**
[54] **COINS DE RETENUE BIDIRECTIONNELS**
[72] DOCKWEILER, DAVID ALLEN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-12-11
[86] 2015-08-27 (PCT/US2015/047247)
[87] (WO2017/034584)

[11] **2,989,221**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC VALVES, FRAMES AND LEAFLETS AND METHODS THEREOF**
[54] **VALVES, CADRES ET FEUILLETS PROTHETIQUES ET PROCEDES POUR CEUX-CI**
[72] BRUCHMAN, WILLIAM C., US
[72] CRAWFORD, DANIEL A., US
[72] HAGAMAN, LOGAN R., US
[72] HARTMAN, CODY L., US
[73] W.L. GORE & ASSOCIATES, INC., US
[86] (2989221)
[87] (2989221)
[22] 2013-12-19
[62] 2,891,613
[30] US (61/739,721) 2012-12-19
[30] US (14/133,563) 2013-12-18
[30] US (61/802,116) 2013-03-15

[11] **2,989,957**
[13] C
[51] **Int.Cl. C08K 7/14 (2006.01) C08L 23/12 (2006.01)**
[25] EN
[54] **FIBER REINFORCED COMPOSITE**
[54] **COMPOSITE RENFORCE PAR DES FIBRES**
[72] JERABEK, MICHAEL, AT
[72] STOCKREITER, WOLFGANG, AT
[72] LUMMERSTORFER, THOMAS, AT
[73] BOREALIS AG, AT
[85] 2017-12-18
[86] 2016-07-13 (PCT/EP2016/066665)
[87] (WO2017/009380)
[30] EP (15176672.2) 2015-07-14

[11] **2,990,147**
[13] C
[51] **Int.Cl. H05K 5/02 (2006.01) H05K 5/03 (2006.01) H05K 5/06 (2006.01)**
[25] EN
[54] **ELECTRONIC CONTROL DEVICE**
[54] **DISPOSITIF ELECTRONIQUE DE COMMANDE**
[72] SUZUKI, TETSUJI, JP
[72] HARA, SHOJI, JP
[72] UMEBACHI, MASAKO, JP
[73] MEIDENSHA CORPORATION, JP
[85] 2017-12-19
[86] 2016-06-30 (PCT/JP2016/069391)
[87] (WO2017/002897)
[30] JP (2015-130602) 2015-06-30

[11] **2,990,421**
[13] C
[51] **Int.Cl. C08K 3/22 (2006.01) C08J 3/22 (2006.01) C08J 3/24 (2006.01) C08J 3/28 (2006.01) C08J 7/12 (2006.01) C08K 5/00 (2006.01) H01B 3/44 (2006.01)**
[25] EN
[54] **RADIATION CROSSLINKED FLUOROPOLYMER COMPOSITIONS CONTAINING LOW LEVEL OF EXTRACTABLE FLUORIDES**
[54] **COMPOSITIONS DE FLUOROPOLYMERE RETICULE PAR RAYONNEMENT CONTENANT UN FAIBLE TAUX DE FLUORURES EXTRACTIBLES**
[72] SHIH, KEITH S., US
[72] HENDERSHOT, RONALD E., US
[72] LIN, GEORGE, US
[73] DAIKIN AMERICA, INC., US
[85] 2017-12-20
[86] 2016-06-24 (PCT/US2016/039337)
[87] (WO2016/210314)
[30] US (14/751,345) 2015-06-26

[11] **2,991,584**
[13] C
[51] **Int.Cl. A47J 27/12 (2006.01) A47J 36/24 (2006.01) A47J 36/34 (2006.01) G05B 15/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AN AUTOMATIC COOKING DEVICE**
[54] **SYSTEME ET PROCEDE POUR UN DISPOSITIF DE CUISSON AUTOMATIQUE**
[72] ABOUJASSOUM, KHALID, US
[72] MAKSOUD, TARIQ, US
[72] LEONARDS, ADAM, US
[73] TAHI TECHNOLOGIES INC., US
[85] 2018-01-05
[86] 2016-05-08 (PCT/US2016/031395)
[87] (WO2016/182975)
[30] US (62/159,009) 2015-05-08

[11] **2,992,253**
[13] C
[51] **Int.Cl. B01D 39/00 (2006.01) B01D 39/16 (2006.01) C08J 9/36 (2006.01) D21H 15/02 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING FILTER MEDIUM FOR AIR FILTER**
[54] **PROCEDE DE FABRICATION DE SUPPORT FILTRANT POUR FILTRE A AIR**
[72] NEMOTO, JUNJI, JP
[72] ISOGAI, AKIRA, JP
[72] SAITO, TSUGUYUKI, JP
[73] THE UNIVERSITY OF TOKYO, JP
[73] HOKUETSU CORPORATION, JP
[85] 2018-01-11
[86] 2015-08-03 (PCT/JP2015/071950)
[87] (WO2017/022052)

[11] **2,992,624**
[13] C
[51] **Int.Cl. H04J 13/00 (2011.01) H04W 80/02 (2009.01) H04B 1/707 (2011.01)**
[25] EN
[54] **IDENTIFYING A CODE FOR SIGNAL DECODING**
[54] **IDENTIFICATION D'UN CODE POUR LE DECODAGE DE SIGNAUX**
[72] DEVISON, STEPHEN A., CA
[72] OMER, MOHAMMAD, CA
[73] COGNITIVE SYSTEMS CORP., CA
[85] 2018-01-16
[86] 2015-12-17 (PCT/CA2015/000603)
[87] (WO2017/035623)
[30] US (14/843,167) 2015-09-02

[11] **2,995,947**
[13] C
[51] **Int.Cl. B05D 3/06 (2006.01)**
[25] EN
[54] **LED CURING LAMP**
[54] **LAMPE DE DURCISSEMENT A DEL**
[72] THOMAS, JONATHAN, US
[72] BEVERIDGE, KEITH, US
[72] OSLAND, DAVID, US
[72] OLSEN, ROGER, US
[72] CHATTERTON, PENNY, US
[72] BICKFORD, JAY, US
[73] MONDOFIX INC., CA
[86] (2995947)
[87] (2995947)
[22] 2011-03-03
[62] 2,792,076
[30] US (61/411,784) 2010-11-09
[30] US (61/310,465) 2010-03-04
[30] US (13/038,173) 2011-03-01

[11] **2,996,319**
[13] C
[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/21 (2006.01) A61K 8/36 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **HIGH WATER ORAL CARE COMPOSITION COMPRISING ZINC AND TIN SALTS**
[54] **COMPOSITION DE SOINS BUCCAUX A HAUTE TENEUR EN EAU COMPRENANT DU ZINC ETDU SEL D'ETAIN**
[72] REGE, AARTI, US
[72] PRENCIPE, MICHAEL, US
[72] BHADRA, MADHULEENA, US
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2018-02-21
[86] 2017-06-22 (PCT/US2017/038741)
[87] (WO2017/223311)
[30] US (62/354,242) 2016-06-24

[11] **2,996,322**
[13] C
[51] **Int.Cl. A61K 8/24 (2006.01) A61K 8/19 (2006.01) A61K 8/27 (2006.01) A61K 8/365 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS DE SOINS BUCCO-DENTAIRES ET LEURS PROCEDES D'UTILISATION**
[72] THOMSON, PAUL, US
[72] DOGU, NIHAL, US
[72] RAJAH, DIVINO, US
[72] PRENCIPE, MICHAEL, US
[73] COLGATE-PALMOLIVE COMPANY, US
[85] 2018-02-21
[86] 2017-06-23 (PCT/US2017/038898)
[87] (WO2017/223389)
[30] US (62/354,269) 2016-06-24

[11] **2,998,280**
[13] C
[51] **Int.Cl. G01V 9/00 (2006.01) G01N 3/40 (2006.01)**
[25] EN
[54] **AN APPARATUS AND A METHOD FOR PERFORMING A STANDARD PENETRATION TEST**
[54] **APPAREIL ET PROCEDE POUR EFFECTUER UN ESSAI DE PENETRATION NORMALISE**
[72] INNES, MURRAY GRANT, CA
[72] WOLVERTON, JERRY ELFORD, CA
[72] ELFORD, DUSTYN JORDAN LEWIS, CA
[72] TEEUWSEN, DANIEL PAUL, CA
[72] HUGHES, SCOTT DAVID, CA
[73] MARL TECHNOLOGIES INC., CA
[85] 2018-03-09
[86] 2016-09-15 (PCT/CA2016/051087)
[87] (WO2017/045076)
[30] US (62/220,413) 2015-09-18

[11] **2,999,260**
[13] C
[51] **Int.Cl. A42B 3/06 (2006.01)**
[25] EN
[54] **IMPACT PROTECTION AND SHOCK ABSORBING DEVICE**
[54] **DISPOSITIF DE PROTECTION CONTRE LES CHOCS ET DISPOSITIF D'AMORTISSEMENT**
[72] KENNEDY, EMILY B., US
[72] HSIUNG, BOR-KAI, US
[72] PAIGE, DOUGLAS J., US
[72] SWIFT, NATHAN B., US
[72] FECHEYR-LIPPENS, DAPHNE C., US
[73] THE UNIVERSITY OF AKRON, US
[85] 2018-03-20
[86] 2016-09-21 (PCT/US2016/052760)
[87] (WO2017/053348)
[30] US (62/221,783) 2015-09-22
[30] US (62/356,243) 2016-06-29

[11] **2,999,688**
[13] C
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01) B05B 11/00 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR GENERATING AN INHALABLE MEDIUM**
[54] **APPAREIL DE GENERATION DE SUBSTANCE INHALABLE**
[72] HEPWORTH, RICHARD, GB
[72] SUTTON, JOSEPH, GB
[72] WOODCOCK, DOMINIC, GB
[72] GOODALL, SHARON, GB
[73] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB
[85] 2018-03-22
[86] 2016-09-30 (PCT/EP2016/073472)
[87] (WO2017/055584)
[30] GB (1517471.7) 2015-10-02

[11] **3,000,068**
[13] C
[51] **Int.Cl. B02C 13/28 (2006.01) B02C 18/18 (2006.01) E02F 9/28 (2006.01) E21C 35/18 (2006.01)**
[25] EN
[54] **TOOL FOR WORKING ABRASIVE MATERIALS**
[54] **OUTIL D'USINAGE DE MATERIAUX ABRASIFS**
[72] ROSSITER, EDUARDO, DE
[72] NEYER, CHRISTIAN, DE
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE
[73] THYSSENKRUPP AG, DE
[85] 2018-03-27
[86] 2016-10-21 (PCT/EP2016/075418)
[87] (WO2017/080796)
[30] DE (10 2015 222 020.6) 2015-11-09

[11] **3,002,309**
[13] C
[51] **Int.Cl. A62C 37/50 (2006.01) H04L 12/721 (2013.01) H04W 4/38 (2018.01)**
[25] EN
[54] **HYDRANT MONITORING SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE SURVEILLANCE DE BORNE-FONTAINE**
[72] SILVERS, DAVID, US
[72] SMITH, JOHN, US
[72] VAN LIERE, TROY, US
[72] JANKA, KEVIN, US
[73] SILVERSMITH, INC., US
[86] (3002309)
[87] (3002309)
[22] 2018-04-20
[30] US (15/493,547) 2017-04-21

[11] **3,002,939**
[13] C
[51] **Int.Cl. B62B 9/08 (2006.01) B62B 7/06 (2006.01)**
[25] EN
[54] **CHILD STROLLER APPARATUS**
[54] **APPAREIL DE POUSSETTE POUR ENFANT**
[72] HAUT, ROBERT E., US
[72] TAYLOR, ANDREW J., US
[73] WONDERLAND SWITZERLAND AG, CH
[86] (3002939)
[87] (3002939)
[22] 2018-04-25
[30] US (62/490318) 2017-04-26

[11] **3,002,998**
[13] C
[51] **Int.Cl. F17C 5/00 (2006.01) B67D 7/02 (2010.01) B67D 7/84 (2010.01)**
[25] EN
[54] **MOBILE FILLING STATION**
[54] **STATION DE REMPLISSAGE MOBILE**
[72] ISOM, WENDELL W., US
[72] RIBEIRO, MARCELO, US
[72] GARCIA, ARMANDO ALEJANDRO, MX
[73] PRAXAIR TECHNOLOGY, INC., US
[86] (3002998)
[87] (3002998)
[22] 2013-01-24
[62] 2,803,614
[30] US (61/600851) 2012-02-20

[11] **3,003,133**
[13] C
[51] **Int.Cl. A61K 35/545 (2015.01) A61K 35/768 (2015.01) A61K 35/28 (2015.01) A61K 35/76 (2015.01) A61K 38/19 (2006.01) A61K 38/20 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **COMBINATION IMMUNOTHERAPY APPROACH FOR TREATMENT OF CANCER**
[54] **TECHNIQUE D'IMMUNOTHERAPIE COMBINEE POUR LE TRAITEMENT DU CANCER**
[72] SZALAY, ALADAR, US
[72] MINEV, BORIS, US
[73] CALIDI BIOTHERAPEUTICS, INC., US
[85] 2018-04-24
[86] 2015-10-23 (PCT/US2015/057234)
[87] (WO2016/065330)
[30] US (62/068,557) 2014-10-24
[30] US (62/073,907) 2014-10-31

[11] **3,003,338**
[13] C
[51] **Int.Cl. B05D 1/22 (2006.01) B05C 3/02 (2006.01)**
[25] EN
[54] **COATING APPARATUS**
[54] **APPAREIL DE REVETEMENT**
[72] BAMFORD, BRAD, CA
[73] AUTOMATIC COATING LIMITED, CA
[86] (3003338)
[87] (3003338)
[22] 2013-01-17
[62] 2,802,594
[30] US (61/587,605) 2012-01-17

---

[11] **3,003,629**
[13] C
[51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **OCCLUDER AND ANASTOMOSIS DEVICES**
[54] **DISPOSITIF D'OCCLUSION ET DISPOSITIFS D'ANASTOMOSE**
[72] JOHNSON, MATTHEW A., US
[72] MOONEY, NATHAN K., US
[72] RAPPLEYA, LINDSEY, US
[73] W.L. GORE & ASSOCIATES, INC., US
[85] 2018-04-27
[86] 2016-10-04 (PCT/US2016/055255)
[87] (WO2017/074652)
[30] US (14/926,330) 2015-10-29

---

[11] **3,003,789**
[13] C
[51] **Int.Cl. G06F 15/16 (2006.01) G06F 9/455 (2018.01)**
[25] EN
[54] **VIRTUAL NON-UNIFORM MEMORY ARCHITECTURE FOR VIRTUAL MACHINES**
[54] **ARCHITECTURE DE MEMOIRE VIRTUELLE NON UNIFORME (NUMA) POUR MACHINES VIRTUELLES**
[72] OSHINS, JACOB, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[86] (3003789)
[87] (3003789)
[22] 2010-03-19
[62] 2,753,229
[30] US (12/412,258) 2009-03-26

---

[11] **3,004,170**
[13] C
[51] **Int.Cl. B03B 9/02 (2006.01) B01D 21/02 (2006.01)**
[25] EN
[54] **MODULAR BITUMEN PROCESSING SYSTEM AND RELATED METHODS**
[54] **SYSTEME DE TRAITEMENT DE BITUME MODULAIRE ET METHODES ASSOCIEES**
[72] BLUE, MARK E., US
[72] WISE, GEORGE S., IV, US
[72] SANDELL, MARTIN J., CA
[73] HARRIS CORPORATION, US
[86] (3004170)
[87] (3004170)
[22] 2018-05-04
[30] US (15/717,986) 2017-09-28

---

[11] **3,004,867**
[13] C
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 3/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **USE OF HSP70 AS A REGULATOR OF ENZYMATIC ACTIVITY**
[54] **UTILISATION DU HSP70 EN TANT QUE REGULATEUR DE L'ACTIVITE ENZYMATIQUE**
[72] JENSEN, THOMAS KIRKEGAARD, DK
[72] JAATTELA, MARJA HELENA, DK
[73] ORPHAZYME A/S, DK
[86] (3004867)
[87] (3004867)
[22] 2009-06-26
[62] 2,728,363
[30] DK (PA 2008 00885) 2008-06-26

---

[11] **3,004,877**
[13] C
[51] **Int.Cl. E04C 1/39 (2006.01) E02D 29/02 (2006.01) E04C 1/00 (2006.01)**
[25] EN
[54] **FREE-STANDING WALL ARRANGEMENT AND METHODS**
[54] **CONFIGURATION ET PROCEDES POUR MURS AUTOPORTEURS**
[72] WOLTER, ROBERT JOEL, US
[72] BURNQUIST, ROBERT B., US
[72] BROWN, HARRISON JOHN, US
[72] BUKER, DALE A., US
[72] JOHNSON, JAY J., US
[73] ANCHOR WALL SYSTEMS, INC., US
[86] (3004877)
[87] (3004877)
[22] 2011-04-04
[62] 2,797,066
[30] US (12/770,885) 2010-04-30

---

[11] **3,005,185**
[13] C
[51] **Int.Cl. G06Q 20/02 (2012.01) G06Q 20/38 (2012.01) H04L 9/32 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR GROSS SETTLEMENT BY USE OF AN OPAQUE BLOCKCHAIN**
[54] **PROCEDE ET SYSTEME DE REGLEMENT BRUT AU MOYEN D'UNE CHAINE DE BLOCS OPAQUE**
[72] DAVIS, STEVEN CHARLES, US
[73] MASTERCARD INTERNATIONAL INCORPORATED, US
[85] 2018-05-11
[86] 2016-10-19 (PCT/US2016/057579)
[87] (WO2017/091305)
[30] US (14/950,117) 2015-11-24

---

[11] **3,005,871**
[13] C
[51] **Int.Cl. F16K 1/22 (2006.01) F16K 1/18 (2006.01) F16K 1/20 (2006.01) F16K 1/226 (2006.01) F16K 27/02 (2006.01)**
[25] EN
[54] **VALVE AND VALVE COUPLING WITH REVERSE TAPERED SHAFTS**
[54] **VANNE ET ACCOUPLEMENT DE VANNE A ARBRES EFFILES INVERSES**
[72] PARK, YANG BAE, US
[73] VICTAULIC COMPANY, US
[85] 2018-05-17
[86] 2016-11-17 (PCT/US2016/062487)
[87] (WO2017/091436)
[30] US (62/258,797) 2015-11-23

[11] **3,006,174**
[13] C
[51] **Int.Cl. F16F 9/14 (2006.01)**
[25] EN
[54] **POSITION-RELATIVE DAMPER ASSIST SYSTEM**
[54] **SYSTEME D'ASSISTANCE D'AMORTISSEUR PAR RAPPORT A LA POSITION**
[72] LAMOUREUX, MARTIN, CA
[72] DENEAULT, PIERRE-YVES, CA
[72] PORLIER, CLAUDE, CA
[72] VAN HEE, DANIEL, CA
[73] ELKA SUSPENSION INC., CA
[73] HORSTMAN SYSTEMS INC., CA
[85] 2018-05-04
[86] 2017-07-20 (PCT/CA2017/050878)
[87] (WO2018/014134)
[30] US (62/364,545) 2016-07-20

[11] **3,006,271**
[13] C
[51] **Int.Cl. G01N 27/327 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **AN OUTER LAYER FOR ENZYME SENSORS**
[54] **COUCHE EXTERNE POUR DES CAPTEURS D'ENZYME**
[72] KJAER, THOMAS, DK
[72] HANSEN, THOMAS STEEN, DK
[72] CLAUSEN, LYDIA DAHL, DK
[73] RADIOMETER MEDICAL APS, DK
[85] 2018-05-24
[86] 2016-11-23 (PCT/EP2016/078529)
[87] (WO2017/089380)
[30] DK (PA 2015 00755) 2015-11-27

[11] **3,006,788**
[13] C
[51] **Int.Cl. B66B 5/08 (2006.01) B66B 5/28 (2006.01)**
[25] EN
[54] **SHAFT HOISTING PLANT HAVING AN OVERWIND BRAKE DEVICE**
[54] **INSTALLATION D'EXTRACTION PAR PUITS POURVUE DE DISPOSITIF DE FREINAGE D'ENVOI AUX MOLETTES**
[72] JUNGE, MATTHIAS, DE
[72] RIETZ, LARS, DE
[72] KLEIN, NICOLE, DE
[72] HABERKORN, EDUARD, DE
[73] OLKO-MASCHINENTECHNIK GMBH, DE
[85] 2018-05-29
[86] 2017-11-06 (PCT/EP2017/078310)
[87] (WO2018/091294)
[30] DE (10 2016 122 165.1) 2016-11-17

[11] **3,006,868**
[13] C
[51] **Int.Cl. G01V 9/00 (2006.01) G01N 21/84 (2006.01)**
[25] EN
[54] **IMAGE BASED ROCK PROPERTY TENSOR VISUALIZATION OF A GEOCELLULAR GRID IN A DYNAMIC 3D ENVIRONMENT**
[54] **VISUALISATION DE TENSEUR DE PROPRIETE DE ROCHE A BASE D'IMAGES DE GRILLE GEOCELLULAIRE DANS UN ENVIRONNEMENT 3D DYNAMIQUE**
[72] RAMSAY, TRAVIS ST. GEORGE, US
[72] BOAZ, BURNS, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2018-05-18
[86] 2015-12-22 (PCT/US2015/067513)
[87] (WO2017/111966)

[11] **3,006,957**
[13] C
[51] **Int.Cl. F25J 1/02 (2006.01) F25J 1/00 (2006.01)**
[25] EN
[54] **METHOD OF NATURAL GAS LIQUEFACTION ON LNG CARRIERS STORING LIQUID NITROGEN**
[54] **PROCEDE DE LIQUEFACTION DE GAZ NATUREL SUR DES METHANIERS STOCKANT DE L'AZOTE LIQUIDE**
[72] PIERRE, FRITZ, JR., US
[72] VICTORY, DONALD J., US
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2018-05-30
[86] 2016-11-10 (PCT/US2016/061249)
[87] (WO2017/105681)
[30] US (62/266,983) 2015-12-14

[11] **3,007,542**
[13] C
[51] **Int.Cl. B65G 47/91 (2006.01) B25J 13/00 (2006.01)**
[25] EN
[54] **CARGO HANDLING APPARATUS AND OPERATION METHOD THEREOF**
[54] **APPAREIL DE MANUTENTION DE MARCHANDISE ET METHODE D'EXPLOITATION ASSOCIEE**
[72] NAKANO, TOSHIKI, JP
[73] KABUSHIKI KAISHA TOSHIBA, JP
[73] TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION, JP
[86] (3007542)
[87] (3007542)
[22] 2018-06-07
[30] JP (2017-114507) 2017-06-09

[11] **3,007,655**
[13] C
[51] **Int.Cl. C08J 3/20 (2006.01) A61K 8/73 (2006.01) A61K 47/38 (2006.01) C08L 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING FUNCTIONALIZED NANOCRYSTALLINE CELLULOSE AND FUNCTIONALIZED NANOCRYSTALLINE CELLULOSE THEREBY PRODUCED**
[54] **PROCEDE DE PRODUCTION DE CELLULOSE NANOCRISTALLINE FONCTIONNALISEE ET CELLULOSE NANOCRISTALLINE FONCTIONNALISEE AINSI PRODUITE**
[72] ANDREWS, MARK P., CA
[72] MORSE, TIMOTHY, CA
[73] ANOMERA INC., CA
[86] (3007655)
[87] (3007655)
[22] 2015-07-27
[62] 2,956,661
[30] US (62/029,761) 2014-07-28

[11] **3,007,840**
[13] C
[51] **Int.Cl. C40B 30/00 (2006.01) G16B 20/50 (2019.01) G16B 35/00 (2019.01) G16B 40/00 (2019.01) G16B 99/00 (2019.01) C12N 15/00 (2006.01) C12N 15/09 (2006.01) C12Q 1/68 (2018.01) C40B 10/00 (2006.01) C40B 50/06 (2006.01)**
[25] EN
[54] **MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM**
[54] **AMELIORATION DE SOUCHES MICROBIENNES PAR UNE PLATEFORME D'INGENIERIE GENOMIQUE HTP**
[72] SERBER, ZACH, US
[72] BRUNO, KENNETH S., US
[72] MANCHESTER, SHAWN, US
[72] GORA, KASIA, US
[72] FLASHMAN, MICHAEL, US
[72] SHELLMAN, ERIN, US
[72] KIMBALL, AARON, US
[72] SZYJKA, SHAWN, US
[72] FREWEN, BARBARA, US
[72] TREYNOR, THOMAS, US
[72] DEAN, ERIK JEDEDIAH, US
[73] ZYMERGEN INC., US
[85] 2018-06-07
[86] 2016-12-07 (PCT/US2016/065465)
[87] (WO2017/100377)
[30] US (62/264,232) 2015-12-07
[30] US (15/140,296) 2016-04-27
[30] US (62/368,786) 2016-07-29

[11] **3,007,904**
[13] C
[51] **Int.Cl. A47J 31/46 (2006.01) A47J 31/40 (2006.01) A47J 31/41 (2006.01)**
[25] EN
[54] **SELECTION VALVE AND BEVERAGE SYSTEM INCLUDING SAME**
[54] **VANNE DIRECTIONNELLE ET SYSTEME DE BOISSON LA COMPRENANT**
[72] SPIJKER, ANTONIUS JOHANNES, NL
[72] KLABBERS, BRAM, NL
[72] DEES, HENDRIK JOHAN, NL
[72] STANDAAR, KOEN, NL
[72] VAN DER VELDEN, LEONARDUS CORNELIS, NL
[72] RUTTEN, MATHIAS ANTONIUS FRANSISCUS, NL
[73] KONINKLIJKE DOUWE EGBERTS B.V., NL
[85] 2018-06-08
[86] 2016-12-14 (PCT/NL2016/050872)
[87] (WO2017/105230)
[30] EP (15200243.2) 2015-12-15

[11] **3,008,221**
[13] C
[51] **Int.Cl. B01D 53/14 (2006.01) C01B 32/50 (2017.01) B01D 53/18 (2006.01) B01D 53/62 (2006.01) B01D 53/78 (2006.01)**
[25] EN
[54] **CO2 RECOVERY DEVICE AND CO2 RECOVERY METHOD**
[54] **DISPOSITIF DE RECUPERATION DE CO2 ET PROCEDE DE RECUPERATION DE CO2**
[72] TSUJIUCHI, TATSUYA, JP
[72] KAMIJO, TAKASHI, JP
[72] YONEKAWA, TAKAHITO, JP
[72] MIYAMOTO, OSAMU, JP
[73] MITSUBISHI HEAVY INDUSTRIES ENGINEERING, LTD., JP
[85] 2018-06-12
[86] 2017-01-20 (PCT/JP2017/001959)
[87] (WO2017/130863)
[30] JP (2016-011600) 2016-01-25

[11] **3,008,506**
[13] C
[51] **Int.Cl. G06T 5/00 (2006.01) G01C 11/00 (2006.01) G06T 3/40 (2006.01) G06T 11/60 (2006.01)**
[25] EN
[54] **AUTOMATED GEOSPATIAL IMAGE MOSAIC GENERATION**
[54] **GENERATION AUTOMATISEE DE MOSAIQUE D'IMAGES GEOSPATIALES**
[72] PADWICK, CHRISTOPHER G., US
[72] WALLERIUS, JOHN W., US
[72] SMITH, JAMES T., US
[73] DIGITALGLOBE, INC., US
[86] (3008506)
[87] (3008506)
[22] 2014-03-14
[62] 2,907,192
[30] US (13/838,475) 2013-03-15
[30] US (13/952,442) 2013-07-26
[30] US (13/952,464) 2013-07-26

[11] **3,009,193**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 9/00 (2006.01) A61P 9/04 (2006.01) A61P 9/10 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **4-AMINO-2-(1H-PYRAZOLO[3,4-B]PYRIDIN-3-YL)-6-OXO-6,7-DIHYDRO-5H-PYRROLO[2,3-D]PYRIMIDINE DERIVATIVES AND THE RESPECTIVE (1H-INDAZOL-3-YL) DERIVATIVES AS CGMP MODULATORS FOR TREATING CARDIOVASCULAR DISEASES**
[54] **DERIVES DE 4-AMINO-2-(1H-PYRAZOLO[3,4-B]PYRIDIN-3-YL)-6-OXO-6,7-DIHYDRO-5H-PYRROLO[2,3-D]PYRIMIDINE ET DERIVES RESPECTIFS DE (1H-INDAZOL-3-YL) EN TANT QUE MODULATEURS CGMP POUR LETRAITEMENT DE MALADIES CARDIOVASCULAIRES**
[72] BERGER, RAPHELLE, US
[72] CHEN, YI-HENG, US
[72] LI, GUOQING, US
[72] GARFUNKLE, JOIE, US
[72] LI, HONG, US
[72] MIAO, SHOUWU, US
[72] RAGHAVAN, SUBHAREKHA, US
[72] SMITH, CAMERON J., US
[72] STELMACH, JOHN, US
[72] WHITEHEAD, ALAN, US
[72] ZHANG, RUI, US
[72] ZHANG, YONG, US
[72] FU, JIANMIN, CN
[72] JI, GANG, CN
[72] JIANG, FALONG, CN
[73] MERCK SHARP & DOHME CORP., US
[85] 2018-06-19
[86] 2016-12-20 (PCT/US2016/067654)
[87] (WO2017/112617)
[30] CN (PCT/CN2015/098251) 2015-12-22

[11] **3,009,359**
[13] C
[51] **Int.Cl. G06F 9/52 (2006.01) G06F 11/14 (2006.01)**
[25] EN
[54] **RECOVERABLE STREAM PROCESSING**
[54] **TRAITEMENT DE FLUX RECUPERABLE**
[72] DOUROS, BRYAN PHIL, US
[72] STANFILL, CRAIG W., US
[72] WHOLEY, JOSEPH SKEFFINGTON, III, US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2018-06-20
[86] 2017-01-13 (PCT/US2017/013309)
[87] (WO2017/123849)
[30] US (62/278,528) 2016-01-14

[11] **3,009,405**
[13] C
[51] **Int.Cl. B65D 47/12 (2006.01) A45F 3/16 (2006.01) A47G 19/22 (2006.01) B65D 1/02 (2006.01) B65D 41/04 (2006.01) B65D 41/62 (2006.01) B65D 47/08 (2006.01)**
[25] EN
[54] **DRINK BOTTLE AND LID WITH COVER FOR DRINK SPOUT**
[54] **BOUTEILLE POUR BOISSON AVEC BOUCHON MUNI D'UN COUVERCLE POUR PROTEGER LE BEC DISTRIBUTEUR**
[72] LANE, MARVIN, US
[73] THERMOS L.L.C., US
[86] (3009405)
[87] (3009405)
[22] 2011-06-20
[62] 2,743,812
[30] US (13/155512) 2011-06-08

[11] **3,009,891**
[13] C
[51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/00 (2006.01) A61K 31/713 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **LIPIDS, LIPID COMPOSITIONS, AND METHODS OF USING THEM**
[54] **LIPIDES, COMPOSITIONS LIPIDIQUES, ET PROCEDES D'UTILISATION ASSOCIES**
[72] BARYZA, JEREMY, US
[72] BOWMAN, KEITH, US
[72] GEALL, ANDREW, US
[72] FAZAL, TANZINA, US
[72] LEE, CAMERON, US
[72] VARGEESE, CHANDRA, US
[72] WEST, LAURA, US
[72] ZHAO, JUNPING, US
[73] NOVARTIS AG, CH
[86] (3009891)
[87] (3009891)
[22] 2010-12-21
[62] 2,785,492
[30] US (61/284787) 2009-12-23

[11] **3,010,271**
[13] C
[51] **Int.Cl. A47C 17/60 (2006.01) A47B 85/00 (2006.01) A47C 17/52 (2006.01)**
[25] EN
[54] **FOLDING BED FOR SPACE SAVING STORAGE WITHIN A CABINET**
[54] **LIT PLIANT PEU ENCOMBRANT LOGE DANS UNE ARMOIRE**
[72] FLORA, IQBAL SINGH, CA
[73] FLORA, IQBAL SINGH, CA
[86] (3010271)
[87] (3010271)
[22] 2014-07-24
[62] 2,857,823

[11] **3,010,316**
[13] C
[51] **Int.Cl. E21B 19/06 (2006.01) E21B 19/00 (2006.01) E21B 19/10 (2006.01) G06K 19/07 (2006.01)**
[25] EN
[54] **OILFIELD HANDLING TOOL EQUIPMENT IDENTIFICATION**
[54] **IDENTIFICATION D'EQUIPEMENT D'OUTILLAGE DE MANUTENTION DE CHAMP PETROLIFERE**
[72] HARSHBARGER, CHRIS, US
[72] CHILDRESS, LAWRENCE E., II, US
[73] FORUM US, INC., US
[85] 2018-06-29
[86] 2017-01-17 (PCT/US2017/013777)
[87] (WO2017/127359)
[30] US (62/280,055) 2016-01-18

[11] **3,010,689**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1486 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE FOR DETECTING AT LEAST ONE ANALYTE IN A BODY FLUID**
[54] **DISPOSITIF MEDICAL POUR DETECTER AU MOINS UN ANALYTE DANS UN LIQUIDE CORPOREL**
[72] WALTER, HELMUT, DE
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2018-07-05
[86] 2017-02-03 (PCT/EP2017/052387)
[87] (WO2017/134227)
[30] EP (16154469.7) 2016-02-05

[11] **3,010,707**
[13] C
[51] **Int.Cl. A41D 19/00 (2006.01) A61F 5/00 (2006.01) A61F 7/00 (2006.01) A61N 1/00 (2006.01) C09K 5/00 (2006.01) C22C 19/03 (2006.01)**
[25] EN
[54] **DEVICE FOR THE TREATMENT OF ARTHRITIS AND ARTHROSIS OF THE EXTREMITIES, CHRONIC INFLAMMATIONS, PAIN REDUCTION AND MUSCLE TENSION**
[54] **DISPOSITIF POUR LE TRAITEMENT DE L'ARTHRITE ET DE L'ARTHROSE DES EXTREMITES, DES INFLAMMATIONS CHRONIQUES, ET POUR LA REDUCTION DE LA DOULEUR ET DE LA TENSION MUSCULAIRE**
[72] DE LA TORRE BARREIRO, JOSE LUIS, ES
[73] DEMAC, S.A., ES
[85] 2018-07-05
[86] 2016-01-25 (PCT/ES2016/070040)
[87] (WO2017/032910)

[11] **3,010,857**
[13] C
[51] **Int.Cl. A61K 47/02 (2006.01) A61K 31/352 (2006.01) A61K 31/505 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING NEBIVOLOL WITH IMPROVED DISSOLUTION RATE**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DU NEBIVOLOL A TAUX DE DISSOLUTION AMELIORE**
[72] DHONG, EUL WON, KR
[72] HU, HONG GU, KR
[72] KIM, HAE YANG, KR
[72] SHIN, HYE-GYEONG, KR
[72] PARK, HYO-JIN, KR
[72] PARK, SANG-GEUN, KR
[73] ELYSON PHARM, KR
[85] 2018-07-06
[86] 2016-12-16 (PCT/KR2016/014771)
[87] (WO2017/119629)
[30] KR (10-2016-0002626) 2016-01-08
[30] KR (10-2016-0171842) 2016-12-15

[11] **3,011,104**
[13] C
[51] **Int.Cl. B65D 63/10 (2006.01) B65D 63/16 (2006.01) F16L 3/137 (2006.01) F16L 3/233 (2006.01) F16L 33/03 (2006.01)**
[25] EN
[54] **HIGH PERFORMANCE, DUAL MATERIALS CABLE-TIE HEAD**
[54] **TETE D'ATTACHE DE CABLE A DOUBLE MATERIAU HAUTE PERFORMANCE**
[72] DINH, CONG THANH, US
[72] GAO, YAN, US
[73] THOMAS & BETTS INTERNATIONAL LLC, US
[73] DINH, CONG THANH, US
[73] GAO, YAN, US
[85] 2018-07-10
[86] 2017-01-13 (PCT/US2017/013335)
[87] (WO2017/123869)
[30] US (62/278,146) 2016-01-13

[11] **3,011,778**
[13] C
[51] **Int.Cl. B60B 37/10 (2006.01) A63B 55/60 (2015.01) F16B 45/02 (2006.01)**
[25] EN
[54] **ROTATIONAL SLIDING BEARING**
[54] **PALIER LISSE ROTATIF**
[72] ZIKELI, STEFAN, AT
[72] RAUCH, ERNST, AT
[73] AUROTEC GMBH, AT
[85] 2018-07-18
[86] 2017-01-20 (PCT/EP2017/051129)
[87] (WO2017/125520)
[30] EP (16152114.1) 2016-01-20

[11] **3,011,926**
[13] C
[51] **Int.Cl. E03B 7/14 (2006.01) E03D 9/04 (2006.01) E04F 17/02 (2006.01) E04F 17/04 (2006.01) F16L 3/06 (2006.01) F16L 3/22 (2006.01) F16L 55/24 (2006.01) F16L 55/38 (2006.01)**
[25] EN
[54] **HEATING COIL FOR A PLUMBING VENT**
[54] **SERPENTIN DE CHAUFFAGE DESTINE A UN EVENT DE PLOMBERIE**
[72] OUELLET, SYLVAIN, CA
[73] OUELLET, SYLVAIN, CA
[86] (3011926)
[87] (3011926)
[22] 2018-07-20
[30] GB (1712684.8) 2017-08-08

[11] **3,012,004**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01) H04L 9/06 (2006.01) H04L 9/08 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SECURE ORDER MANAGEMENT SYSTEM DATA ENCRYPTION,DECYPTION, AND SEGMENTATION**
[54] **PROCEDE ET SYSTEME DE CHIFFREMENT, DECHIFFREMENT ET SEGMENTATION DE DONNEES D'UN SYSTEME DE GESTION DE COMMANDE SECURISE**
[72] RATICA, ADAM, US
[73] CARDINALCOMMERCE CORPORATION, US
[86] (3012004)
[87] (3012004)
[22] 2011-06-09
[62] 2,802,071
[30] US (61/353760) 2010-06-11

[11] **3,012,974**
[13] C
[51] **Int.Cl. G05B 19/418 (2006.01) G06Q 50/04 (2012.01)**
[25] EN
[54] **WORK ANALYSIS DEVICE, WORK ANALYSIS METHOD, PROGRAM AND INFORMATION STORAGE MEDIUM**
[54] **DISPOSITIF D'ANALYSE DE TRAVAIL, PROCEDE D'ANALYSE DE TRAVAIL, PROGRAMME ET SUPPORT DE STOCKAGE D'INFORMATIONS**
[72] ARAO, TAKAHIDE, JP
[72] OOKA, AKIRA, JP
[72] AMAMI, MITSURU, JP
[73] BROADLEAF CO., LTD., JP
[85] 2018-07-27
[86] 2016-12-22 (PCT/JP2016/088324)
[87] (WO2017/130615)
[30] JP (2016-014526) 2016-01-28

[11] **3,014,345**
[13] C
[51] **Int.Cl. B29C 49/16 (2006.01) B29C 49/12 (2006.01) B29C 49/70 (2006.01) B29C 49/78 (2006.01)**
[25] EN
[54] **PET CONTAINERS WITH ENHANCED THERMAL PROPERTIES AND PROCESS FOR MAKING SAME**
[54] **RECIPIENTS EN PET PRESENTANT DES PROPRIETES THERMIQUES ACCRUES ET LEUR PROCEDE DE FABRICATION**
[72] SILVERS, KERRY W., US
[72] SCHNEIDER, MARK D., US
[72] BOBROV, SERGEY B., US
[72] EVINS, SAMUEL E., US
[73] GRAHAM PACKAGING PET TECHNOLOGIES INC., US
[86] (3014345)
[87] (3014345)
[22] 2011-12-15
[62] 2,820,952
[30] US (13/250,189) 2011-09-30
[30] US (61/424,558) 2010-12-17

[11] **3,015,223**
[13] C
[51] **Int.Cl. H04H 40/18 (2009.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR DIGITAL RADIO BROADCAST RECEIVER MEMORY AND POWER REDUCTION**
[54] **SYSTEMES, PROCEDES ET SUPPORT LISIBLE PAR ORDINATEUR POUR MEMOIRE DE RECEPTEUR DE RADIODIFFUSION NUMERIQUE ET REDUCTION DE PUISSANCE**
[72] MILBAR, MAREK, US
[73] IBIQUITY DIGITAL CORPORATION, US
[86] (3015223)
[87] (3015223)
[22] 2010-07-30
[62] 2,766,469
[30] US (61/213,935) 2009-07-30
[30] US (61/213,942) 2009-07-31

[11] **3,015,453**
[13] C
[51] **Int.Cl. C08G 63/16 (2006.01) C08G 63/78 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **POLYOXALATE COPOLYMER AND METHOD OF PRODUCING THE SAME**
[54] **COPOLYMERE DE POLYOXALATE ET SON PROCEDE DE PRODUCTION**
[72] KATAYAMA, TSUTAKI, JP
[72] YOSHIKAWA, SEISHI, JP
[73] TOYO SEIKAN GROUP HOLDINGS, LTD., JP
[85] 2018-08-22
[86] 2017-01-11 (PCT/JP2017/000576)
[87] (WO2017/145539)
[30] JP (2016-035585) 2016-02-26

---

[11] **3,015,752**
[13] C
[51] **Int.Cl. B60P 7/02 (2006.01) B60J 7/047 (2006.01) B60J 7/19 (2006.01) B62D 33/037 (2006.01) B62D 33/04 (2006.01) E05C 3/12 (2006.01)**
[25] EN
[54] **FRONT AND REAR LATCHES FOR TONNEAU SYSTEM**
[54] **VERROUS AVANT ET ARRIERE POUR SYSTEME DE COUVRE-HABITACLE**
[72] PARKEY, JOHN, US
[73] TECTUM HOLDINGS, INC., US
[86] (3015752)
[87] (3015752)
[22] 2018-08-29
[30] US (15/725,688) 2017-10-05

---

[11] **3,016,781**
[13] C
[51] **Int.Cl. A61M 11/06 (2006.01) A61M 5/31 (2006.01) A61M 15/08 (2006.01)**
[25] EN
[54] **ATOMIZER FOR NASAL THERAPY**
[54] **ATOMISEUR POUR THERAPIE NASALE**
[72] DENTON, MARSHALL T., US
[72] CROLL, PERRY W., US
[72] CRISTENSEN, MARK A., US
[72] WOLFE, TIMOTHY R., US
[72] BROWN, J. MICHAEL, US
[73] TELEFLEX MEDICAL INCORPORATED, US
[86] (3016781)
[87] (3016781)
[22] 2011-11-11
[62] 2,817,482
[30] US (61/456780) 2010-11-12

---

[11] **3,017,109**
[13] C
[51] **Int.Cl. E21B 47/00 (2012.01) G01V 3/18 (2006.01) G01V 3/28 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC RANGING WITH ROTATING COIL ANTENNA TOOL**
[54] **TELEMETRIE ELECTROMAGNETIQUE AVEC OUTIL D'ANTENNE A BOBINE ROTATIVE**
[72] AHMADI KALATEH AHMAD, AKRAM, US
[72] DONDERICI, BURKAY, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2018-09-07
[86] 2016-04-21 (PCT/US2016/028636)
[87] (WO2017/184145)

---

[11] **3,017,175**
[13] C
[51] **Int.Cl. E21B 19/22 (2006.01) E21B 19/08 (2006.01) F15B 13/02 (2006.01)**
[25] EN
[54] **INTELLIGENT INJECTOR CONTROL SYSTEM, COILED TUBING UNIT HAVING THE SAME, AND METHOD**
[54] **SYSTEME INTELLIGENT DE COMMANDE D'INJECTEUR, UNITE DE TUBAGE ENROULE LE COMPRENANT ET PROCEDE**
[72] DOBKINS, KEN P., US
[72] WU, BO, US
[72] MURPHY, STUART J., US
[72] RAMSEY, TIMOTHY T., US
[72] NAJAFOV, JEYHUM Y., US
[72] WATKINS, THOMAS T., US
[72] AITKEN, WILLIAM A., US
[72] OLIVER, WILLIAM B., US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2018-09-07
[86] 2017-03-08 (PCT/US2017/021336)
[87] (WO2017/156111)
[30] US (15/067,828) 2016-03-11

---

[11] **3,018,174**
[13] C
[51] **Int.Cl. H04W 36/08 (2009.01) H04W 76/27 (2018.01) H04W 76/34 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MANAGING A SELECT IP TRAFFIC OFFLOAD FOR MOBILE COMMUNICATIONS BASED ON USER LOCATION _**
[54] **GESTION DE CONNEXION A UN RESEAU DE DONNEES POUR COMMUNICATION MOBILE EN FONCTION D'EMPLACEMENT D'UTILISATEUR**
[72] HORN, GAVIN BERNARD, US
[72] GIARETTA, GERARDO, US
[72] GRIOT, MIGUEL, US
[72] SONG, OSOK, US
[73] QUALCOMM INCORPORATED, US
[86] (3018174)
[87] (3018174)
[22] 2010-12-03
[62] 2,973,570
[30] US (61/266897) 2009-12-04
[30] US (12/893190) 2010-09-29

[11] **3,018,185**
[13] C
[51] **Int.Cl. C07D 231/12 (2006.01) C07D 233/64 (2006.01) C07D 249/06 (2006.01) C07D 249/08 (2006.01) C07D 261/08 (2006.01) C07D 263/32 (2006.01) C07D 271/06 (2006.01) C07D 277/26 (2006.01) C07D 285/08 (2006.01) C07D 285/12 (2006.01) C07D 413/04 (2006.01) C07D 413/06 (2006.01) C07D 413/10 (2006.01) C07D 417/04 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **ALLOSTERIC MODULATORS OF NICOTINIC ACETYLCHOLINE RECEPTORS**
[54] **MODULATEURS ALLOSTERIQUES DES RECEPTEURS NICOTINIQUES DE L'ACETYLCHOLINE**
[72] CROWLEY, BRENDAN M., US
[72] CAMPBELL, BRIAN T., US
[72] DUFFY, JOSEPH L., US
[72] GRESHOCK, THOMAS J., US
[72] GUIADEEN, DEODIAL G., US
[72] HARVEY, ANDREW JOHN, AU
[72] HUFF, BELINDA C., AU
[72] LEAVITT, KENNETH J., US
[72] RADA, VANESSA L., US
[72] SANDERS, JOHN M., US
[72] SHIPE, WILLIAM D., US
[72] SUEN, LINDA M., US
[72] BELL, IAN M., US
[73] MERCK SHARP & DOHME CORP., US
[85] 2018-09-18
[86] 2017-03-20 (PCT/US2017/023127)
[87] (WO2017/165256)
[30] US (62/311,888) 2016-03-22
[30] US (62/369,778) 2016-08-02

[11] **3,018,329**
[13] C
[51] **Int.Cl. G06Q 30/00 (2012.01)**
[25] EN
[54] **EMOTION RECOGNITION TO MATCH SUPPORT AGENTS WITH CUSTOMERS**
[54] **RECONNAISSANCE D'EMOTION AFIN DE METTRE EN CORRESPONDANCE DES AGENTS D'ASSISTANCE AVEC DES CLIENTS**
[72] EFTEKHARI, AMIR, US
[72] CARPIO, ALIZA, US
[72] ELWELL, JOSEPH, US
[72] O'MALLEY, DAMIEN, US
[73] INTUIT INC., US
[85] 2018-09-19
[86] 2017-03-13 (PCT/US2017/022132)
[87] (WO2017/204887)
[30] US (15/162,144) 2016-05-23

[11] **3,018,892**
[13] C
[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/00 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **3-WAY SEED FLOW SPLITTER FOR PLANTERS**
[54] **DIVISEUR DE FLUX DE SEMENCES A TROIS VOIES POUR PLANTEUSES**
[72] ROBERGE, MARTIN J., CA
[72] HARNETIAUX, TRAVIS L., US
[72] JOHNSON, CHAD M., US
[72] LEGNER, FRANK C., III, US
[72] PRICKEL, MARVIN A., US
[73] CNH INDUSTRIAL AMERICA LLC, US
[86] (3018892)
[87] (3018892)
[22] 2015-08-12
[62] 2,900,197
[30] US (14/516,861) 2014-10-17

[11] **3,018,909**
[13] C
[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/00 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **3-WAY SEED FLOW SPLITTER FOR PLANTERS**
[54] **DIVISEUR DE FLUX DE SEMENCES A TROIS VOIES POUR PLANTEUSES**
[72] ROBERGE, MARTIN J., CA
[72] HARNETIAUX, TRAVIS L., US
[72] JOHNSON, CHAD M., US
[72] PRICKEL, MARVIN A., US
[72] LEGNER, FRANK C., III, US
[73] CNH INDUSTRIAL AMERICA LLC, US
[86] (3018909)
[87] (3018909)
[22] 2015-08-12
[62] 2,900,197
[30] US (14/516,861) 2014-10-17

[11] **3,019,443**
[13] C
[51] **Int.Cl. D21H 11/18 (2006.01) D21H 19/52 (2006.01)**
[25] EN
[54] **PAPER AND PAPERBOARD PRODUCTS**
[54] **PRODUITS EN PAPIER ET EN CARTON**
[72] SVENDING, PER, SE
[72] PHIPPS, JONATHAN STUART, GB
[72] KRITZINGER, JOHANNES, CH
[72] LARSON, TOM, GB
[72] SELINA, TANIA, GB
[72] SKUSE, DAVID, GB
[73] FIBERLEAN TECHNOLOGIES LIMITED, GB
[85] 2018-09-28
[86] 2017-03-31 (PCT/IB2017/000450)
[87] (WO2017/175062)
[30] GB (1605797.8) 2016-04-05

[11] **3,020,464**
[13] C
[51] **Int.Cl. H04N 19/44 (2014.01) H04N 19/119 (2014.01) H04N 19/17 (2014.01) H04N 19/60 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ENCODING VIDEO BY USING TRANSFORMATION INDEX, AND METHOD AND APPARATUS FOR DECODING VIDEO BY USING TRANSFORMATION INDEX**
[54] **PROCEDE ET APPAREIL DESTINES A CODER UNE VIDEO A L'AIDE D'UN INDICE DE TRANSFORMATION, ET PROCEDE ET APPAREIL DESTINES A DECODER UNE VIDEO A L'AIDE D'UN INDICE DE TRANSFORMATION**
[72] MIN, JUNG-HYE, KR
[72] HAN, WOO-JIN, KR
[72] LEE, TAMMY, KR
[72] KIM, IL-KOO, KR
[72] CHEON, MIN-SU, KR
[73] SAMSUNG ELECTRONICS CO, LTD., KR
[86] (3020464)
[87] (3020464)
[22] 2011-04-05
[62] 2,891,099
[30] US (61/320,826) 2010-04-05
[30] KR (10-2010-0096920) 2010-10-05

[11] **3,021,276**
[13] C
[51] **Int.Cl. D06M 15/63 (2006.01) A61B 5/0408 (2006.01) A61B 5/0478 (2006.01) D06M 15/227 (2006.01) D06M 15/233 (2006.01) D06M 23/08 (2006.01) H01B 1/12 (2006.01) H01B 1/20 (2006.01)**
[25] EN
[54] **ELECTRIC CONDUCTIVE FIBER STRUCTURE, ELECTRODE MEMBER, AND METHOD FOR PRODUCING ELECTRIC CONDUCTIVE FIBER STRUCTURE**
[54] **STRUCTURE DE FIBRE CONDUCTRICE ELECTRIQUE, ELEMENT D'ELECTRODE ET METHODE DE PRODUCTION DE STRUCTURE DE FIBRE CONDUCTRICE ELECTRIQUE**
[72] NAGAI, NORIKO, JP
[72] TAKEDA, KEIJI, JP
[72] KAWAKAMI, JUN, JP
[72] NAGATA, HIROSHI, JP
[72] OHORI, TATSUYA, JP
[73] TORAY INDUSTRIES, INC., JP
[73] NAGASE CHEMTEX CORPORATION, JP
[85] 2018-10-17
[86] 2017-03-30 (PCT/JP2017/014300)
[87] (WO2017/183463)
[30] JP (2016-083183) 2016-04-18

[11] **3,021,361**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) H04L 29/06 (2006.01)**
[25] EN
[54] **ORCHESTRATION IN A MULTI-LAYER NETWORK**
[54] **ORCHESTRATION D'UN RESEAU MULTICOUCHE**
[72] ISAACS, CHARLES HART, US
[73] SALESFORCE.COM, INC., US
[86] (3021361)
[87] (3021361)
[22] 2018-10-17
[30] US (62/578,122) 2017-10-27
[30] US (15/885,519) 2018-01-31

[11] **3,024,056**
[13] C
[51] **Int.Cl. B65D 75/36 (2006.01) B65D 65/40 (2006.01) B65D 81/26 (2006.01) B65D 85/36 (2006.01)**
[25] EN
[54] **PACKAGING FOR FOOD PRODUCT**
[54] **EMBALLAGE POUR PRODUIT ALIMENTAIRE**
[72] CICHOWSKI, BENJAMIN M., US
[72] CZARNY, JEFFREY A., US
[73] THE HILLSHIRE BRANDS COMPANY, US
[86] (3024056)
[87] (3024056)
[22] 2011-11-09
[62] 2,817,743
[30] US (12/943,769) 2010-11-10
[30] US (61/460,750) 2011-02-24
[30] US (61/453,875) 2011-03-17

[11] **3,025,351**
[13] C
[51] **Int.Cl. G01D 21/00 (2006.01)**
[25] EN
[54] **UNDERWATER DATA COLLECTION DEVICE AND SYSTEM**
[54] **DISPOSITIF ET SYSTEME DE COLLECTE DE DONNEES SUBAQUATIQUES**
[72] SUN, ZHAOHUA, CN
[73] KARNER INTERNATIONAL GROUP (HK) LIMITED, CN
[85] 2018-11-23
[86] 2016-12-15 (PCT/CN2016/109990)
[87] (WO2018/107406)

[11] **3,026,667**
[13] C
[51] **Int.Cl. G01S 17/86 (2020.01) B60W 60/00 (2020.01) B60W 30/08 (2012.01) G01S 17/87 (2020.01) G01S 17/93 (2020.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING ENVIRONMENTAL INFORMATION OF A VEHICLE**
[54] **METHODES ET SYSTEMES DE DETECTION DE L'INFORMATION ENVIRONNEMENTALE D'UN VEHICULE**
[72] YAO, WEILONG, CN
[72] MENG, ZENAN, CN
[72] LIU, JIAN, CN
[72] ZHANG, HAO, CN
[72] TAN, SHEN, CN
[72] CAI, YEHE, CN
[72] YANG, ZHENG, CN
[73] BEIJING VOYAGER TECHNOLOGY CO., LTD., CN
[85] 2018-12-06
[86] 2017-08-25 (PCT/CN2017/099173)
[87] (WO2019/037129)

[11] **3,026,760**
[13] C
[51] **Int.Cl. A61C 13/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MAKING DENTAL PROSTHESES**
[54] **PROCEDE ET SYSTEME POUR FABRIQUER DES PROTHESES DENTAIRES**
[72] COSTABEBER, ETTORE MAURIZIO, IT
[73] DWS S.R.L., IT
[85] 2018-12-06
[86] 2016-06-30 (PCT/IT2016/000165)
[87] (WO2018/002960)

[11] **3,026,868**
[13] C
[51] **Int.Cl. C09K 5/14 (2006.01) C04B 28/14 (2006.01)**
[25] EN
[54] **PHASE-CHANGE MATERIAL FOR STORING THERMAL ENERGY, MANUFACTURING METHOD AND USES OF SUCH A MATERIAL**
[54] **MATERIAU A CHANGEMENT DE PHASE POUR LE STOCKAGE D'ENERGIE THERMIQUE, PROCEDE DE FABRICATION ET APPLICATIONS D'UN TEL MATERIAU**
[72] HARLE, THIBAULT, FR
[72] LEDESERT, BEATRICE, FR
[72] NGUYEN, TRAN MINH GIAO, FR
[72] HEBERT, RONAN, FR
[72] MELINGE, YANNICK, FR
[73] UNIVERSITE CERGY-PONTOISE, FR
[85] 2018-12-06
[86] 2017-05-12 (PCT/FR2017/051153)
[87] (WO2017/198933)
[30] FR (1654431) 2016-05-18

[11] **3,027,268**
[13] C
[51] **Int.Cl. B64D 9/00 (2006.01) B64C 1/00 (2006.01) B64C 39/02 (2006.01) B64D 13/00 (2006.01)**
[25] FR
[54] **DRONE PAYLOAD SYSTEM AND DRONE**
[54] **SYSTEME D'EMPORT DE CHARGE POUR DRONE ET DRONE**
[72] THOMASSEY, LIONEL, FR
[73] AIRBUS HELICOPTERS, FR
[86] (3027268)
[87] (3027268)
[22] 2018-12-11
[30] FR (1771395) 2017-12-20

[11] **3,027,358**
[13] C
[51] **Int.Cl. H04N 1/60 (2006.01) H04N 1/00 (2006.01) H04N 1/41 (2006.01)**
[25] EN
[54] **COLOR LOOK UP TABLE COMPRESSION**
[54] **COMPRESSION DE TABLE A CONSULTER EN COULEUR**
[72] HU, ZHENHUA, US
[72] TANG, CHUOHAO, US
[72] NELSON, TERRY M., US
[72] SHAW, MARK Q., US
[72] ALLEBACH, JAN P., US
[72] REIBMAN, AMY RUTH, US
[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US
[73] PURDUE RESEARCH FOUNDATION, US
[85] 2018-12-11
[86] 2016-11-07 (PCT/US2016/060873)
[87] (WO2018/009234)
[30] US (PCT/US2016/041633) 2016-07-08

[11] **3,027,871**
[13] C
[51] **Int.Cl. B66F 9/075 (2006.01) B62B 3/00 (2006.01) B62B 3/06 (2006.01) B62B 5/06 (2006.01) B62D 1/14 (2006.01) B62D 5/04 (2006.01) B62D 6/00 (2006.01) B62D 51/04 (2006.01) B66F 9/065 (2006.01)**
[25] EN
[54] **A MOTORISED TRUCK WITH TILLER**
[54] **CHARIOT MOTORISE DOTE D'UNE BARRE DE DIRECTION**
[72] MCVICAR, MARTIN, IE
[72] MOFFETT, ROBERT, IE
[72] WHYTE, MARK, IE
[73] COMBILIFT, IE
[86] (3027871)
[87] (3027871)
[22] 2012-09-04
[62] 2,883,909

[11] **3,027,891**
[13] C
[51] **Int.Cl. B25B 19/00 (2006.01) B25B 23/00 (2006.01)**
[25] EN
[54] **IMPACT DRIVER SCREW DRIVING DEVICE WITH DEPTH ADJUSTMENT**
[54] **DISPOSITIF D`ENTRAINEMENT DE VIS DESTINE A UN DISPOSITIF D`ENTRAINEMENT A CHOCS AVEC REGLAGE DE PROFONDEUR**
[72] RAJOTTE, JACQUES, CA
[73] RAJOTTE, JACQUES, CA
[86] (3027891)
[87] (3027891)
[22] 2018-12-18

---

[11] **3,029,578**
[13] C
[51] **Int.Cl. F27D 3/00 (2006.01) C10B 53/07 (2006.01) F23G 5/027 (2006.01) F23G 7/12 (2006.01) F27D 3/08 (2006.01) F27D 15/02 (2006.01) F27D 17/00 (2006.01)**
[25] EN
[54] **SYSTEM AND PROCESS FOR CONVERTING WASTE PLASTIC INTO FUEL**
[54] **SYSTEME ET PROCEDE POUR CONVERTIR DES DECHETS DE PLASTIQUES EN COMBUSTIBLE**
[72] TENORE, ANTHONY F., US
[72] OLUWASEUN, OLUWADARE, US
[72] TENORE, ANTHONY N., US
[72] FOWLER, DAVID, US
[73] GOLDEN RENEWABLE ENERGY, LLC, US
[85] 2018-12-28
[86] 2017-07-05 (PCT/IB2017/054058)
[87] (WO2018/007964)
[30] US (62/493,445) 2016-07-05
[30] US (15/641,471) 2017-07-05

---

[11] **3,030,638**
[13] C
[51] **Int.Cl. C08F 283/12 (2006.01) C08F 290/06 (2006.01) C08J 3/075 (2006.01) C08J 3/24 (2006.01) C08L 51/08 (2006.01) G02B 1/04 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **AMPHIPHILIC SILOXANE-CONTAINING VINYLIC MONOMERS AND USES THEREOF**
[54] **MONOMERES VINYLIQUES CONTENANT UN SILOXANE AMPHIPHILE ET LEURS UTILISATIONS**
[72] CHANG, FRANK, US
[73] ALCON INC., US
[86] (3030638)
[87] (3030638)
[22] 2013-12-13
[62] 2,978,612
[30] US (61/737206) 2012-12-14

---

[11] **3,036,352**
[13] C
[51] **Int.Cl. C25B 11/06 (2006.01) C25B 1/06 (2006.01) C25B 9/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING ANODE FOR ALKALINE WATER ELECTROLYSIS, AND ANODE FOR ALKALINE WATER ELECTROLYSIS**
[54] **METHODE DE PRODUCTION D'ANODE D'ELECTROLYSE D'EAU ALCALINE ET ANODE DESTINEE A L'ELECTROLYSE D'EAU ALCALINE**
[72] MITSUSHIMA, SHIGENORI, JP
[72] FUJITA, SHO, JP
[72] NAGASHIMA, IKUO, JP
[72] NISHIKI, YOSHINORI, JP
[72] MANABE, AKIYOSHI, JP
[72] KATO, AKIHIRO, JP
[73] DE NORA PERMELEC LTD, JP
[73] NATIONAL UNIVERSITY CORPORATION YOKOHAMA NATIONAL UNIVERSITY, JP
[73] KAWASAKI JUKOGYO KABUSHIKI KAISHA, JP
[85] 2019-03-08
[86] 2017-09-11 (PCT/JP2017/032638)
[87] (WO2018/047961)
[30] JP (2016-176689) 2016-09-09

---

[11] **3,038,811**
[13] C
[51] **Int.Cl. A23L 7/122 (2016.01) A23L 7/191 (2016.01)**
[25] EN
[54] **COATED FOOD PRODUCT AND METHOD OF PRODUCING THE COATED FOOD PRODUCT**
[54] **PRODUIT ALIMENTAIRE ENROBE ET SON PROCEDE DE PRODUCTION**
[72] LIU, XIA, US
[72] UY, CAROL, US
[72] GREEN, DANIEL R., US
[72] NOVAK, DOUGLAS J., US
[72] GODSEY, GREGORY L., US
[73] GENERAL MILLS, INC., US
[85] 2019-03-28
[86] 2017-10-05 (PCT/US2017/055274)
[87] (WO2018/067783)
[30] US (15/287,313) 2016-10-06

---

[11] **3,043,550**
[13] C
[51] **Int.Cl. G09G 3/20 (2006.01) G09G 3/34 (2006.01)**
[25] EN
[54] **RAPID IMAGE RENDERING ON DUAL-MODULATOR DISPLAYS**
[54] **RENDU D'IMAGE RAPIDE SUR DES ECRANS D'AFFICHAGE A DOUBLE MODULATEUR**
[72] SEETZEN, HELGE, CA
[72] HEIDRICH, WOLFGANG, CA
[72] WARD, GREGORY JOHN, US
[72] WHITEHEAD, LORNE A., CA
[73] DOLBY LABORATORIES LICENSING CORPORATION, US
[86] (3043550)
[87] (3043550)
[22] 2005-05-27
[62] 2,992,935
[30] US (60/591829) 2004-07-27

[11] **3,044,153**
[13] C
[51] **Int.Cl. E21B 33/138 (2006.01) F24T 10/20 (2018.01) F24T 50/00 (2018.01) C09K 5/00 (2006.01) C09K 8/50 (2006.01) C09K 8/72 (2006.01) E21B 21/00 (2006.01) E21B 43/30 (2006.01) F03G 4/02 (2006.01)**
[25] EN
[54] **METHOD FOR FORMING HIGH EFFICIENCY GEOTHERMAL WELLBORES**
[54] **PROCEDE DE FORMATION DE PUITS DE FORAGE GEOTHERMIQUE A HAUTE EFFICACITE**
[72] TOEWS, MATTHEW, CA
[72] CAIRNS, PAUL, CA
[72] ANDREWS, PETER, CA
[72] CURTIS-SMITH, ANDREW, CA
[72] HALE, JONATHAN, CA
[73] EAVOR TECHNOLOGIES INC., CA
[86] (3044153)
[87] (3044153)
[22] 2019-05-23
[30] US (62/693950) 2018-07-04
[30] US (62/714674) 2018-08-04

[11] **3,045,175**
[13] C
[51] **Int.Cl. F42B 6/06 (2006.01)**
[25] EN
[54] **ARCHERY ARROW VANE**
[54] **AILETTE POUR FLECHE DE TIR A L`ARC**
[72] POTTER, ROBERT, US
[72] GRIFFITH, LARRY, US
[73] BOHNING COMPANY, LTD., US
[86] (3045175)
[87] (3045175)
[22] 2019-06-04
[30] US (16/201,109) 2018-11-27

[11] **3,048,124**
[13] C
[51] **Int.Cl. B62H 5/20 (2006.01)**
[25] EN
[54] **A BICYCLE SECURITY SYSTEM**
[54] **SYSTEME DE SECURITE POUR BICYCLETTE**
[72] JOHNSON, PATRICK, IE
[73] JOHNSON, PATRICK, IE
[85] 2019-06-21
[86] 2017-12-22 (PCT/EP2017/084426)
[87] (WO2018/115463)
[30] GB (1622037.8) 2016-12-22

[11] **3,048,203**
[13] C
[51] **Int.Cl. H04N 21/418 (2011.01) H04N 21/426 (2011.01) H04N 21/4627 (2011.01) H04N 21/81 (2011.01)**
[25] EN
[54] **FORCED EXECUTION OF AUTHENTICATED CODE**
[54] **EXECUTION FORCEE DE CODE AUTHENTIFIE**
[72] BEALS, WILLIAM MICHAEL, US
[73] DISH TECHNOLOGIES L.L.C., US
[85] 2019-06-21
[86] 2017-12-22 (PCT/US2017/068173)
[87] (WO2018/125797)
[30] US (62/439,850) 2016-12-28
[30] US (15/394,537) 2016-12-29

[11] **3,050,755**
[13] C
[51] **Int.Cl. D06M 17/00 (2006.01) A01M 31/02 (2006.01)**
[25] EN
[54] **MESH MATERIAL FOR FLEXIBLE STRUCTURES AND METHODS OF FABRICATING SAME**
[54] **MATERIAU CONSTITUE EN MAILLE A L`UTILISATION DANS LES STRUCTURES FLEXIBLES ET METHODES DE FABRICATION**
[72] CHEN, HAO, CN
[72] CHEN, CHIEH-YU, CN
[73] TRU-VIEW LLC, US
[86] (3050755)
[87] (3050755)
[22] 2019-07-26
[30] US (16/245.508) 2019-01-11

[11] **3,051,234**
[13] C
[51] **Int.Cl. C12N 1/21 (2006.01) C12N 15/52 (2006.01) C12N 15/54 (2006.01) C12N 15/55 (2006.01) C12N 15/60 (2006.01) C12P 1/04 (2006.01) C12P 5/02 (2006.01)**
[25] EN
[54] **GENETICALLY ENGINEERED BACTERIUM COMPRISING ENERGY-GENERATING FERMENTATION PATHWAY**
[54] **BACTERIE GENETIQUEMENT MODIFIEE COMPRENANT UNE VOIE DE FERMENTATION A PRODUCTION D'ENERGIE**
[72] KOEPKE, MICHAEL, US
[72] JENSEN OVERGAARD, RASMUS, US
[72] BEHRENDORFF, JAMES BRUCE YARNTON HAYCOCK, US
[72] HILL, RYAN EDWARD, US
[72] MUELLER, ALEXANDER PAUL, US
[72] JUMINAGA, DARMAWI, US
[73] LANZATECH NEW ZEALAND LIMITED, NZ
[86] (3051234)
[87] (3051234)
[22] 2016-10-13
[62] 3,001,596
[30] US (62/240,850) 2015-10-13

[11] **3,053,303**
[13] C
[51] **Int.Cl. B61D 17/08 (2006.01) B61D 17/18 (2006.01)**
[25] EN
[54] **SIDE WALL FOR A RAIL VEHICLE BODY**
[54] **PAROI LATERALE POUR CAISSE DE VEHICULE FERROVIAIRE**
[72] LESSARD, NANCY, CA
[72] HIGGINS, DANNY, CA
[72] GOULET, STEPHANE, CA
[72] MORNEAU, GASTON, CA
[72] GOSSELIN, YVAN, CA
[72] BIGRAS, MARTIN, CA
[73] BOMBARDIER TRANSPORTATION GMBH, DE
[86] (3053303)
[87] (3053303)
[22] 2019-08-28

[11] **3,053,608**
[13] C
[51] **Int.Cl. A61K 38/15 (2006.01) A61K 31/7036 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **COMBINATIONS OF LYSOBACTIN AND AMINOGLYCOSIDES AGAINST DISEASES CAUSED BY GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA IN NON-HUMAN ANIMALS**
[54] **COMBINAISONS DE LYSOBACTINE ET D'AMINOGLYCOSIDES CONTRE DES MALADIES PROVOQUEES PAR DES BACTERIES A GRAM POSITIF ET A GRAM NEGATIF CHEZ DES ANIMAUX NON HUMAINS**
[72] SCHIFFER, GUIDO, DE
[72] FALKER, STEFAN, DE
[72] DAUBE, GERT, DE
[72] WIEHL, WOLFGANG, DE
[72] KOBBERLING, JOHANNES, DE
[73] BAYER ANIMAL HEALTH GMBH, DE
[85] 2019-08-14
[86] 2018-02-14 (PCT/EP2018/053667)
[87] (WO2018/149871)
[30] EP (17156737.3) 2017-02-17

---

[11] **3,057,376**
[13] C
[51] **Int.Cl. A61F 5/14 (2006.01) A43B 7/22 (2006.01) A43D 1/00 (2006.01)**
[25] EN
[54] **CUSTOM FOOT ORTHOTIC AND SYSTEM AND METHOD FOR DESIGNING OF A CUSTOM FOOT ORTHOTIC**
[54] **ORTHESE DE PIED PERSONNALISEE ET SYSTEME ET PROCEDE DE CONCEPTION D'UNE ORTHESE DE PIED PERSONNALISEE**
[72] MILLER, STEVEN, CA
[72] MCLEAN, TODD, CA
[72] CONNOR, PATRICK, CA
[73] MILLER, STEVEN, CA
[73] MCLEAN, TODD, CA
[85] 2019-09-20
[86] 2018-03-22 (PCT/CA2018/050348)
[87] (WO2018/170600)
[30] US (62/601,417) 2017-03-22

---

[11] **3,058,626**
[13] C
[51] **Int.Cl. B25H 3/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR RELEASABLY HOLDING A SOCKET**
[54] **APPAREIL POUR MAINTENIR DE MANIERE LIBERABLE DES DOUILLES**
[72] WINNARD, STANLEY D., US
[73] WINNARD, STANLEY D., US
[85] 2019-09-30
[86] 2017-03-31 (PCT/US2017/025625)
[87] (WO2018/182744)

---

[11] **3,061,682**
[13] C
[51] **Int.Cl. G06F 21/10 (2013.01)**
[25] EN
[54] **METHOD AND SYSTEM TO IDENTIFY IRREGULARITIES IN THE DISTRIBUTION OF ELECTRONIC FILES WITHIN PROVIDER NETWORKS**
[54] **PROCEDE ET SYSTEME PERMETTANT D'IDENTIFIER DES IRREGULARITES DANS LA DISTRIBUTION DE FICHIERS ELECTRONIQUES AU SEIN DE RESEAUX DE FOURNISSEURS**
[72] KOSTADINOVA, RADOSTINA, AT
[72] FILZMOSER, PETER, AT
[72] MUMIC, NERMINA, AT
[73] TECHNISCHE UNIVERSITAT WIEN, AT
[85] 2019-10-28
[86] 2018-05-18 (PCT/EP2018/063061)
[87] (WO2018/211060)
[30] US (62/508,117) 2017-05-18

---

[11] **3,066,129**
[13] C
[51] **Int.Cl. A24F 40/46 (2020.01) A24B 15/167 (2020.01) A24F 47/00 (2020.01) A61M 15/06 (2006.01)**
[25] EN
[54] **POWER SUPPLY FOR AEROSOL INHALER, AND CONTROL METHOD AND CONTROL PROGRAM OF THE SAME**
[54] **BLOC D`ALIMENTATION POUR INHALATEUR D`AEROSOL, ET PROCEDE DE CONTROLE ET PROGRAMME DE CONTROLE AFFERENTS**
[72] AKAO, TAKESHI, JP
[72] YAMADA, MANABU, JP
[72] FUJITA, HAJIME, JP
[73] JAPAN TOBACCO INC., JP
[86] (3066129)
[87] (3066129)
[22] 2019-12-23
[30] JP (2018-244967) 2018-12-27

---

[11] **3,066,132**
[13] C
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/40 (2020.01) A61M 15/06 (2006.01)**
[25] EN
[54] **POWER SUPPLY UNIT FOR AEROSOL INHALER, METHOD OF DIAGNOSING STATE OF POWER SUPPLY OF AEROSOL INHALER, AND PROGRAM FOR DIAGNOSING STATE OF POWER SUPPLY OF AEROSOL INHALER**
[54] **BLOC D`ALIMENTATION POUR INHALATEUR D`AEROSOL, PROCEDE POUR DIAGNOSTIQUER L`ETAT DU BLOC D`ALIMENTATION D`UN INHALATEUR D`AEROSOL ET PROGRAMME POUR DIAGNOSTIQUER L`ETAT DU BLOC D`ALIMENTATION D`UN INHALATEUR D`AEROSOL**
[72] AKAO, TAKESHI, JP
[72] YAMADA, MANABU, JP
[72] FUJITA, HAJIME, JP
[73] JAPAN TOBACCO INC., JP
[86] (3066132)
[87] (3066132)
[22] 2019-12-23
[30] JP (2018-244968) 2018-12-27

[11] **3,067,560**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/12 (2006.01) E21B 43/22 (2006.01) E21B 43/30 (2006.01)**
[25] EN
[54] **METHODS OF MANAGING SOLVENT INVENTORY IN A GRAVITY DRAINAGE EXTRACTION CHAMBER**
[54] **PROCEDES DE GESTION DE STOCK DE SOLVANT DANS UNE CHAMBRE D'EXTRACTION PAR DRAINAGE PAR GRAVITE**
[72] EICHHORN, MARK ANTHONY, CA
[72] KRAWCHUK, PAUL, CA
[72] BAWA, GHARANDIP SINGH, CA
[72] BLACKMORE, ADAM DOUGALS, CA
[72] LEE, CASSANDRA AMANDA, CA
[73] HATCH LTD., CA
[85] 2019-11-25
[86] 2018-07-17 (PCT/CA2018/000142)
[87] (WO2019/014745)
[30] CA (2,973,710) 2017-07-18

[11] **3,068,449**
[13] C
[51] **Int.Cl. B62D 55/21 (2006.01)**
[25] EN
[54] **LOBED TRACK PIN**
[54] **GOUPILLE DE CHENILLE A LOBES**
[72] MCKINLEY, TIMOTHY A., US
[72] HU, ZHIYONG, US
[72] TIAN, WEIXUE, US
[72] BAAR III, WILLIAM H., US
[73] CATERPILLAR INC., US
[85] 2019-12-23
[86] 2018-06-15 (PCT/US2018/037774)
[87] (WO2019/005504)
[30] US (15/633,081) 2017-06-26

[11] **3,071,181**
[13] C
[51] **Int.Cl. G01S 13/06 (2006.01) G01S 7/02 (2006.01)**
[25] EN
[54] **RADAR APPARATUS**
[54] **APPAREIL DE RADAR**
[72] KAGEME, SATOSHI, JP
[72] MANIWA, KAZUAKI, JP
[72] HARA, TERUYUKI, JP
[73] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2020-01-27
[86] 2017-08-28 (PCT/JP2017/030679)
[87] (WO2019/043749)

[11] **3,074,441**
[13] C
[51] **Int.Cl. G06K 9/34 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **METHOD OF SORTING**
[54] **PROCEDE DE TRI**
[72] LODEWYCKX, PETER, BE
[72] VAN DAELE, MARC, BE
[72] JUSTICE, TIMOTHY, US
[73] KEY TECHNOLOGY, INC., US
[85] 2020-02-28
[86] 2018-06-27 (PCT/US2018/039749)
[87] (WO2019/055102)
[30] US (15/706,055) 2017-09-15

Canadian Applications Open to Public Inspection

August 30, 2020 to September 5, 2020

Demandes canadiennes mises à la disponibilité du public

30 août 2020 au 5 septembre 2020

---

[21] **3,032,868**
[13] A1
[51] **Int.Cl. A45B 9/00 (2006.01) A45B 1/00 (2006.01)**
[25] FR
[54] **PARKINSON'S GAIT CANE**
[54] **CANNE PARKINSON GAIT**
[72] WOUTERS, THEO, CA
[71] WOUTERS, THEO, CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,035,216**
[13] A1
[51] **Int.Cl. G01V 8/02 (2006.01) G06N 3/04 (2006.01) E21B 49/00 (2006.01)**
[25] EN
[54] **EFFICIENT SYSTEM AND METHOD OF DETERMINING A PERMEABILITY RATIO CURVE**
[54] **SYSTEME ET PROCEDE EFFICACES POUR DETERMINER UNE COURBE RATIO DE PERMEABILITE**
[72] KOUSHAVAND, BEHRANG, CA
[71] HUSKY OIL OPERATIONS LIMITED, CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,248**
[13] A1
[51] **Int.Cl. A47B 81/00 (2006.01) A47B 46/00 (2006.01) B25H 3/00 (2006.01) B25H 3/04 (2006.01) E04F 11/06 (2006.01)**
[25] EN
[54] **OVERHEARD STORAGE SYSTEM WITH ACCESS**
[54] **SYSTEME DE STOCKAGE AU PLAFOND AVEC ACCES**
[72] SCOTT, WILLIAM, CA
[71] SCOTT, WILLIAM, CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,294**
[13] A1
[51] **Int.Cl. B23D 47/00 (2006.01) E04F 21/00 (2006.01)**
[25] EN
[54] **ELECTRIC CIRCULAR SAW FOR CUTTING DRYWALL BOARD TAPERED EDGES SPECIFICATIONS**
[54] **SCIE CIRCULAIRE ELECTRIQUE POUR COUPER SELON LES SPECIFICATIONS DES PANNEAUX DE CLOISON SECHE A RIVE BISEAUTEE**
[72] GREEN, BRIAN A., CA
[71] GREEN, BRIAN A., CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,355**
[13] A1
[51] **Int.Cl. A45C 11/16 (2006.01)**
[25] EN
[54] **NON-TANGLING JEWELRY STORAGE CASE**
[54] **BOITE DE RANGEMENT DE BIJOUX EMPECHANT L`ENCHEVETREMENT**
[72] DAWE, JULIA, CA
[71] DAWE, JULIA, CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,366**
[13] A1
[51] **Int.Cl. B26D 1/03 (2006.01) A47J 43/00 (2006.01) B26D 3/18 (2006.01) B26D 7/06 (2006.01)**
[25] EN
[54] **FRY CUTTER AND CUBER**
[54] **APPAREIL DE DECOUPE**
[72] BELIVEAU, STEPHANE, CA
[72] KORN, ERIC, CA
[71] LES PROMOTIONS ATLANTIQUES INC., CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,398**
[13] A1
[51] **Int.Cl. G02F 1/155 (2006.01) H01L 33/40 (2010.01) B82Y 20/00 (2011.01) G02F 1/1516 (2019.01) C09K 9/00 (2006.01) G02F 1/163 (2006.01)**
[25] EN
[54] **ELECTROCHROMIC DEVICE**
[54] **DISPOSITIF ELECTROCHIMIQUE**
[72] ELEZZABI, ABDULHAKEM, CA
[72] LI, HAI ZENG, CA
[71] ELEZZABI, ABDULHAKEM, CA
[71] LI, HAI ZENG, CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,399**
[13] A1
[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR BUILDING AN HONOUR SCORE VIA A COMMUNICATION NETWORK**
[54] **PROCEDE ET SYSTEME POUR OBTENIR UN SCORE EMERITE PAR UN RESEAU DE TRANSMISSION**
[72] FOTSO KENGNE, FABRICE, CA
[71] FOTSO KENGNE, FABRICE, CA
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,408**
[13] A1
[51] **Int.Cl. F04B 49/06 (2006.01) F04B 39/06 (2006.01) F04B 41/02 (2006.01) F04B 49/22 (2006.01) H02P 27/04 (2016.01) G05B 19/05 (2006.01)**
[25] EN
[54] **AIR COMPRESSOR AND METHODS OF OPERATION**
[54] **COMPRESSEUR D`AIR ET PROCEDES D`EXPLOITATION**
[72] CAIN, MATTHEW SCOTT, US
[71] EATON-MAX, INC., US
[22] 2019-03-01
[41] 2020-09-01

[21] **3,035,470**
[13] A1
[51] **Int.Cl. A01G 9/24 (2006.01) A01G 9/20 (2006.01)**
[25] EN
[54] **AUTOMATION HYDRATION VEGETATION STATION**
[54] **STATION DE VEGETATION A HYDRATATION AUTOMATISEE**
[72] UNKNOWN, XX
[71] LOMBARDO CONTROL SYSTEMS, CA
[22] 2019-03-04
[41] 2020-09-04

[21] **3,035,474**
[13] A1
[51] **Int.Cl. E01C 11/26 (2006.01) E01C 5/16 (2006.01) E01C 9/00 (2006.01)**
[25] EN
[54] **METAL ICE-FREE DRIVEWAY**
[54] **MARQUEURS EN METAL POUR ENTREES DE COUR EXEMPTE DE GLACE**
[72] JIN, CHAOWU, CA
[71] JIN, CHAOWU, CA
[22] 2019-03-04
[41] 2020-09-04

[21] **3,035,485**
[13] A1
[51] **Int.Cl. A62B 35/00 (2006.01) H04W 4/38 (2018.01) G08B 21/02 (2006.01) G08B 21/18 (2006.01)**
[25] EN
[54] **FALL PROTECTION MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE PROTECTION CONTRE LES CHUTES**
[72] GRENON, MARTIN, CA
[71] 9351 5062 QUEBEC INC., CA
[22] 2019-03-04
[41] 2020-09-04

[21] **3,035,499**
[13] A1
[51] **Int.Cl. E05B 5/02 (2006.01) E05B 5/00 (2006.01)**
[25] FR
[54] **STRIKE PLATE FOR ENCLOSURE GATE LOCKING BOLT**
[54] **GACHE POUR VERROU DE FERMETURE DE BARRIERE D'ENCLOS**
[72] JOURDAIN, DOMINIQUE, FR
[71] TUBEX, FR
[22] 2019-03-01
[41] 2020-09-01

[21] **3,035,553**
[13] A1
[51] **Int.Cl. E04H 15/10 (2006.01) E04H 15/34 (2006.01)**
[25] FR
[54] **TEMPORARY DOGHOUSE WITH AN AIR DIFFUSION SYSTEM**
[54] **ABRI TEMPORAIRE DE CHANTIER MUNI D'UN SYSTEME DE DIFFUSION D'AIR**
[72] GATER, BRAHIM, CA
[71] GATER, BRAHIM, CA
[71] TITOUAH, TAHAR, CA
[22] 2019-03-05
[41] 2020-09-05

[21] **3,035,556**
[13] A1
[51] **Int.Cl. G99Z 99/00 (2006.01) G06N 20/00 (2019.01) G06F 3/01 (2006.01)**
[25] EN
[54] **A MOTION INTERPRETATION SYSTEM**
[54] **SYSTEME D`INTERPRETATION DES MOUVEMENTS**
[72] UNKNOWN, XX
[71] VON'S BUFFET INC., CA
[22] 2019-03-04
[41] 2020-09-04

[21] **3,035,573**
[13] A1
[51] **Int.Cl. C05F 9/02 (2006.01) C12M 1/02 (2006.01) C12M 1/04 (2006.01) C05F 9/04 (2006.01)**
[25] EN
[54] **AEROBIC ORGANIC MATERIAL PROCESSOR**
[54] **PROCESSEUR DE MATIERES ORGANIQUES AEROBIQUES**
[72] BOMFORD, JAMES, CA
[71] BOMFORD, JAMES, CA
[22] 2019-03-04
[41] 2020-09-04

[21] **3,035,575**
[13] A1
[51] **Int.Cl. B01F 7/32 (2006.01) B01F 15/00 (2006.01)**
[25] EN
[54] **MUD MIXING BIT**
[54] **FORET DE MELANGE DE BOUE**
[72] SCHRUDDER, VICTORIA, US
[72] SCHRUDDER, NATHAN, US
[71] SCHRUDDER, VICTORIA, US
[71] SCHRUDDER, NATHAN, US
[22] 2019-03-04
[41] 2020-09-04

[21] **3,035,687**
[13] A1
[51] **Int.Cl. G07F 17/00 (2006.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **MODULAR AND EXPANDABLE ELECTRO-MECHANICALLY OPERATED UMBRELLA RENTAL KIOSK AND NETWORK WITH A MOBILE-DEVICE INTERFACE, CENTRAL DATABASE, AND SOFTWARE PROGRAM**
[54] **KIOSQUE POUR LOCATION DE PARAPLUIE A COMMANDE ELECTROMECANIQUE MODULAIRE ET EXTENSIBLE ET RESEAU DOTE D`UNE INTERFACE DE DISPOSITIF MOBILE, BASE DE DONNEES CENTRALE ET PROGRAMME INFORMATIQUE**
[72] DENGRE, CREEDENCE ARIZONA, CA
[71] DENGRE, CREEDENCE ARIZONA, CA
[22] 2019-03-05
[41] 2020-09-05

[21] **3,035,731**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23L 33/10 (2016.01) A01H 6/64 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A21D 13/00 (2017.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C11B 1/00 (2006.01)**
[25] EN
[54] **POPPY VARIETY WITH LOW OPIATE ALKALOID CONTENT**
[54] **VARIETE DE PAVOT A FAIBLE TENEUR EN ALCALOIDES OPIACES**
[72] DOBOS, GEORG, AT
[71] DOBOS, GEORG, AT
[22] 2019-03-01
[41] 2020-09-01

---

[21] **3,035,734**
[13] A1
[51] **Int.Cl. G01N 15/08 (2006.01) G01V 11/00 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR ESTIMATING PERMEABILITY USING PREVIOUSLY STORED DATA, DATA ANALYTICS AND IMAGING**
[54] **SYSTEME ET PROCEDE POUR ESTIMER LA PERMEABILITE A L`AIDE DES DONNEES STOCKEES ANTERIEUREMENT, DE L`ANALYSE DES DONNEES ET DE L`IMAGERIE**
[72] JAMES, BRUCE, CA
[72] KAVIANI, DANIAL, CA
[72] ZAMANI, AMIR, CA
[72] HAMDI, HAMIDREZA, CA
[71] SUNCOR ENERGY INC., CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,035,747**
[13] A1
[51] **Int.Cl. A01G 31/00 (2018.01)**
[25] EN
[54] **AN AEROPONICS SYSTEMS**
[54] **SYSTEME AEROPONIQUE**
[72] EDWARDS, ROBERT, CA
[71] EDWARDS, ROBERT, CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,035,749**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) A61M 1/10 (2006.01) A61M 1/36 (2006.01) A61M 25/04 (2006.01)**
[25] EN
[54] **FEMORAL AND VENOUS ARTERIAL CANNULAS AND A METHOD FOR MITIGATING THE RISK OF LIMB ISCHEMIA**
[54] **CANULES ARTERIELLES FEMORALES ET VEINEUSES ET PROCEDE D`ATTENUATION DU RISQUE D`ISCHEMIE DES MEMBRES**
[72] HARRIS, LUKE, CA
[72] CURTIS, ANDY, CA
[71] TOTAL FLOW CANNULA LTD, CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,035,927**
[13] A1
[51] **Int.Cl. B65D 27/08 (2006.01) B65D 27/12 (2006.01)**
[25] EN
[54] **DUAL-POCKET STORAGE SLEEVES FOR VINYL RECORDS AND JACKETS THEREOF**
[54] **MANCHONS DE RANGEMENT A DOUBLE POCHE POUR DISQUES VINYLE ET LEURS POCHETTES**
[72] SARAZIN, MICHAEL, CA
[71] SARAZIN, MICHAEL, CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,036,010**
[13] A1
[51] **Int.Cl. F16M 13/02 (2006.01) A47G 23/02 (2006.01) B63B 17/00 (2006.01) B63B 29/00 (2006.01)**
[25] EN
[54] **ASSEMBLY FOR HOLDING A BEVERAGE CONTAINER**
[54] **ENSEMBLE POUR CONTENIR UN RECIPIENT DE BOISSON**
[72] BURDENIUK, DERRYL BRIAN, CA
[71] BURDENIUK, DERRYL BRIAN, CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,036,496**
[13] A1
[51] **Int.Cl. H04N 5/341 (2011.01) H04N 5/262 (2006.01)**
[25] EN
[54] **AN APPARATUS UTILITY, INPUT (IMAGE SENSOR/GPU INTEGRATES - INFERENTIAL REASONING METRIC - PIXEL VALUE AS A SPHERICAL, INFINITY INFIMUM, MAKING THE SENSOR/GPU SOURCE INPUT OUTPUT VALUES, FUNCTION, ALTERNATIVELY IN A CERTAIN WAY RELATED TO) OUTPUT**
[54] **APPAREIL UTILITAIRE, SORTIE D`IMAGE SOURCE (LE CAPTEUR D`IMAGE ET LE PROCESSEUR GRAPHIQUE INTEGRENT UNE MESURE DE RAISONNEMENT INFERENTIEL ET UNE VALEUR DE PIXEL EN TANT QU`INFINISPHERIQUE [INFIMUM], RENDANT LES VALEURS DE SORTIE D`IMAGE SOURCE DU CAPTEUR D`IMAGE ET DU PROCESSEUR GRAPHIQUE FONCTIONNELLES A DEFAUT, ET, D`UNE CERTAINE FACON INTRINSEQUES)**
[72] DOMSHY, RENNIE R., CA
[71] DOMSHY, RENNIE R., CA
[22] 2019-03-05
[41] 2020-09-05

---

[21] **3,036,614**
[13] A1
[51] **Int.Cl. A61F 9/04 (2006.01) A61F 7/00 (2006.01)**
[25] EN
[54] **WEIGHTED SLEEP MASK**
[54] **MASQUE DE SOMMEIL LESTE**
[72] SEIDENFELD, JUSTIN, US
[72] WONG, YUK CHEUNG, US
[72] NG, WING HIN, US
[72] GRILLO, MICHAEL JAMES, US
[71] GRAVITY PRODUCTS LLC, US
[22] 2019-03-13
[41] 2020-09-01
[30] US (16/290,781) 2019-03-01

[21] **3,042,161**
[13] A1
[51] **Int.Cl. B01J 38/10 (2006.01)**
[25] EN
[54] **SOLVENT SYSTEM FOR CLEANING FIXED BED REACTOR CATALYST IN SITU**
[54] **SYSTEME DE SOLVANT POUR NETTOYER LE CATALYSEUR DES REACTEURS A LITS FIXES SUR PLACE**
[72] MATZA, STEPHEN D., US
[72] RICE, ELISA, US
[71] UNITED LABORATORIES INTERNATIONAL, LLC, US
[22] 2019-05-03
[41] 2020-09-01
[30] US (16/290679) 2019-03-01

---

[21] **3,057,099**
[13] A1
[51] **Int.Cl. B60P 7/04 (2006.01)**
[25] EN
[54] **TRAILER OR CONTAINER MOTORIZED COVER POWERED BY SUPERCAPACITOR**
[54] **COUVERCLE MOTORISE DE REMORQUE CONTENEUR ALIMENTE PAR UN SUPERCONDENSATEUR**
[72] FLORIS, JITZE, CA
[72] TEICHROB, GARY WAYNE, CA
[72] MARTENS, ALAN ARTHUR, CA
[72] BREEWEG, IAN, CA
[72] JONKER, RICK, CA
[72] STANDEVEN, KEVIN JAMES, CA
[71] TY-CROP MANUFACTURING LTD., CA
[22] 2019-09-27
[41] 2020-09-05
[30] US (62/814,000) 2019-03-05

---

[21] **3,057,483**
[13] A1
[51] **Int.Cl. G02B 7/09 (2006.01) G02B 27/18 (2006.01)**
[25] EN
[54] **A PROJECTOR DEVICE WITH THE CAPABILITY OF AVOIDING DEFOCUSING**
[54] **APPAREIL DE PROJECTION AVEC CAPACITE D`EVITER LA PERTE DE MISE AU POINT**
[72] REN, BIN, CN
[71] AB MEDIA & MARKETING INC., CA
[22] 2019-10-03
[41] 2020-09-01
[30] CN (201910158883.1) 2019-03-01

---

[21] **3,060,123**
[13] A1
[51] **Int.Cl. H01R 13/447 (2006.01)**
[25] EN
[54] **TAMPER RESISTANT ELECTRICAL RECEPTACLE**
[54] **PRISE ELECTRIQUE SECURISEE**
[72] BHOSALE, VIKRAMSINH, US
[71] LEVITON MANUFACTURING CO., INC., US
[22] 2019-10-25
[41] 2020-09-04
[30] US (16/291,291) 2019-03-04

---

[21] **3,060,351**
[13] A1
[51] **Int.Cl. E02B 3/14 (2006.01) E02D 29/02 (2006.01) E04C 1/00 (2006.01)**
[25] EN
[54] **FIBER BLOCK SYSTEM**
[54] **SYSTEME DE BLOC DE FIBRES**
[72] SANTHA, B. LANKA, US
[71] SANTHA, B. LANKA, US
[22] 2019-10-28
[41] 2020-09-01

---

[21] **3,062,002**
[13] A1
[51] **Int.Cl. C30B 33/10 (2006.01) B81C 1/00 (2006.01) C30B 29/38 (2006.01) G01D 5/00 (2006.01)**
[25] EN
[54] **WET ETCH PATTERNING OF AN ALUMINUM NITRIDE FILM**
[54] **FORMATION DE MOTIFS DE GRAVURE HUMIDE SUR FILM DE NITRURE D`ALUMINIUM**
[72] DOSEV, DOSI, US
[71] ROSEMOUNT AEROSPACE INC., US
[22] 2019-11-18
[41] 2020-09-05
[30] US (16/292,926) 2019-03-05

---

[21] **3,064,207**
[13] A1
[51] **Int.Cl. E21B 33/124 (2006.01) E21B 33/128 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **UPHOLE END FOR A COMPRESSION-SET STRADDLE PACKER**
[54] **EXTREMITE DE TETE DE PUITS POUR UNE GARNITURE D`ETANCHEITE A CALIFOURCHON AVEC COMPRESSION**
[72] HRUPP, JOZE J., US
[71] EXACTA-FRAC ENERGY SERVICES, INC., US
[22] 2019-12-09
[41] 2020-09-01
[30] US (16/289,805) 2019-03-01

---

[21] **3,065,584**
[13] A1
[51] **Int.Cl. E02F 3/96 (2006.01) E02F 3/36 (2006.01)**
[25] EN
[54] **QUICK-CHANGE SYSTEM, ADAPTER AND QUICK COUPLER**
[54] **SYSTEME A CHANGEMENT RAPIDE, ADAPTATEUR ET COUPLEUR RAPIDE**
[72] SCHMID, SEBASTIAN, DE
[71] OILQUICK DEUTSCHLAND GMBH, DE
[22] 2019-12-17
[41] 2020-09-05
[30] DE (10 2019 105 486.9) 2019-03-05

---

[21] **3,067,515**
[13] A1
[51] **Int.Cl. G01J 1/02 (2006.01) B25J 19/02 (2006.01)**
[25] EN
[54] **AUTOMATIC CALIBRATION FOR A ROBOT OPTICAL SENSOR**
[54] **ETALONNAGE AUTOMATIQUE POUR CAPTEUR OPTIQUE DE ROBOT**
[72] HAEUSLER, PHILLIP, US
[72] COCHRANE, JASON JOHN, US
[71] THE BOEING COMPANY, US
[22] 2020-01-10
[41] 2020-09-05
[30] US (16/293584) 2019-03-05

[21] **3,068,720**
[13] A1
[51] **Int.Cl. G16B 50/00 (2019.01) G16C 20/90 (2019.01) G01N 33/48 (2006.01)**
[25] EN
[54] **COMPOSITIONS CONTAINING CANNABINOID ANALOG CONJUGATES AND METHODS OF USE**
[54] **COMPOSITIONS CONTENANT DES CONJUGUES D`ANALOGUES CANNABINOIDES ET PROCEDES D`UTILISATION ASSOCIES**
[72] BRYANT, JERRY L., US
[72] STRONG, TORI, US
[71] VYRIPHARM ENTERPRISES, LLC, US
[22] 2020-01-17
[41] 2020-09-04
[30] US (16/291,943) 2019-03-04

[21] **3,068,979**
[13] A1
[51] **Int.Cl. F02C 7/06 (2006.01) F01D 25/18 (2006.01)**
[25] EN
[54] **AIR-OIL SEPARATION SYSTEM FOR GAS TURBINE ENGINE**
[54] **SYSTEME DE SEPARATION OLEOPNEUMATIQUE POUR MOTEUR A TURBINE A GAZ**
[72] GEBHARD, JOHN R., US
[71] ROLLS-ROYCE CORPORATION, US
[22] 2020-01-20
[41] 2020-09-04
[30] US (16/291681) 2019-03-04

[21] **3,071,059**
[13] A1
[51] **Int.Cl. C08F 2/44 (2006.01) C08F 4/32 (2006.01) C08L 27/06 (2006.01) C08F 14/06 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING VINYL POLYMER**
[54] **PROCEDE POUR PRODUIRE UN POLYMERE VINYLE**
[72] SAITO, HIROAKI, JP
[72] KAWAKUBO, TOSHIHIKO, JP
[71] SHIN-ETSU CHEMICAL CO., LTD., JP
[22] 2020-02-04
[41] 2020-09-01
[30] JP (2019-037345) 2019-03-01

[21] **3,071,349**
[13] A1
[51] **Int.Cl. B01J 13/02 (2006.01) C08F 4/34 (2006.01) C08F 2/44 (2006.01) C08F 14/06 (2006.01)**
[25] EN
[54] **MICROCAPSULE AND METHOD FOR PRODUCING THE SAME**
[54] **MICROCAPSULE ET PROCEDE DE PRODUCTION DE LADITE MICROCAPSULE**
[72] SAITO, HIROAKI, JP
[72] KAWAKUBO, TOSHIHIKO, JP
[71] SHIN-ETSU CHEMICAL CO., LTD., JP
[22] 2020-02-05
[41] 2020-09-01
[30] JP (2019-037343) 2019-03-01

[21] **3,072,551**
[13] A1
[51] **Int.Cl. B04B 11/04 (2006.01)**
[25] EN
[54] **CENTRIFUGE FEED PIPES AND ASSOCIATED APPARATUS**
[54] **TUYAUX D`ALIMENTATION DE CENTRIFUGEUSE ET APPAREIL CONNEXE**
[72] DEWICKI, GRZEGORZ, US
[72] SINGLEY, JOSHUA T., US
[72] LEDYAN, PAVEL, US
[72] ROBERTSON, JOHN D., US
[72] GAMBLE, KEVIN M., US
[71] KENNAMENTAL INC., US
[22] 2020-02-13
[41] 2020-09-04
[30] US (16/291389) 2019-03-04

[21] **3,072,676**
[13] A1
[51] **Int.Cl. A61L 2/07 (2006.01) A61J 1/06 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING CONTAINERS FOR BLOOD-DERIVED PRODUCTS**
[54] **PROCEDE DE PREPARATION DE RECIPIENTS POUR PRODUITS DERIVES DU SANG**
[72] SALVADOR MATURANA, JOSEP, ES
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[22] 2020-02-13
[41] 2020-09-05
[30] EP (19 382 168.3) 2019-03-05

[21] **3,072,809**
[13] A1
[51] **Int.Cl. G01S 1/02 (2010.01) G01S 5/02 (2010.01)**
[25] EN
[54] **LONG RANGE NAVIGATION SYSTEM HAVING DIRECT SEQUENCE SPREAD SPECTRUM (DSSS) RF SIGNAL**
[54] **SYSTEME DE NAVIGATION A LONGUE PORTEE AVEC SIGNAL RADIOFREQUENCE DE SPECTRE ETALE A SEQUENCE DIRECTE**
[72] MASON, GARY W., US
[72] ADAMS, WILLIAM C., US
[71] EAGLE TECHNOLOGY, LLC, US
[22] 2020-02-17
[41] 2020-09-01
[30] US (16/289,721) 2019-03-01

[21] **3,072,943**
[13] A1
[51] **Int.Cl. F16F 15/173 (2006.01) F01D 25/04 (2006.01) F01D 25/16 (2006.01) F01D 25/18 (2006.01) F02C 7/06 (2006.01) F16C 27/00 (2006.01) F16F 9/10 (2006.01) F16F 9/32 (2006.01)**
[25] EN
[54] **METHOD TO SEAL DAMPER CAVITY OF A MULTI-FILM OIL DAMPER**
[54] **PROCEDE POUR SCELLER UNE CAVITE D`UN AMORTISSEUR A L`HUILE MULTI-FILM**
[72] VEITCH, THOMAS, CA
[72] BEAMISH, DAVE, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-18
[41] 2020-09-04
[30] US (16/291,384) 2019-03-04

[21] **3,073,057**
[13] A1
[51] **Int.Cl. F28D 15/06 (2006.01) F24F 12/00 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER**
[54] **ECHANGEUR THERMIQUE**
[72] D'ARCY, MARCUS, US
[72] TAMUNOBERE, ONIELUAN, US
[71] MITEK HOLDINGS, INC., US
[22] 2020-02-20
[41] 2020-09-01
[30] US (16/290,455) 2019-03-01

[21] **3,073,147**
[13] A1
[51] **Int.Cl. G01B 11/25 (2006.01) G01M 17/02 (2006.01) G01B 11/245 (2006.01)**
[25] EN
[54] **A DEVICE FOR DETECTING THE PROFILE OF A TIRE TREAD, AND RELATED DETECTION METHOD**
[54] **DISPOSITIF POUR DETECTER LE PROFIL D`UNE BANDE DE ROULEMENT, ET PROCEDE DE DETECTION CONNEXE**
[72] SANTANERA, CESARE, IT
[71] SUNTEKNE S.R.L., IT
[22] 2020-02-19
[41] 2020-09-01
[30] IT (102019000003029) 2019-03-01

[21] **3,073,386**
[13] A1
[51] **Int.Cl. C09K 8/70 (2006.01) C09K 8/536 (2006.01) E21B 21/00 (2006.01) C09K 8/58 (2006.01)**
[25] EN
[54] **BREAKER SYSTEMS FOR WELLBORE TREATMENT OPERATIONS**
[54] **SYSTEMES DE DISJONCTEUR POUR OPERATIONS DE TRAITEMENT DE PUITS**
[72] TAYLOR, ROBERT STEWART, CA
[72] FYTEN, GLEN C., CA
[72] SANDERS, MICHAEL WAYNE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2020-02-21
[41] 2020-09-01
[30] US (62/812,815) 2019-03-01
[30] US (16/792,666) 2020-02-17

[21] **3,073,400**
[13] A1
[51] **Int.Cl. F02C 7/262 (2006.01)**
[25] EN
[54] **AIRCRAFT ENGINE REIGNITION**
[54] **RALLUMAGE DE MOTEUR D`AERONEF**
[72] MANOUKIAN, PATRICK, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-20
[41] 2020-09-04
[30] US (62/813,331) 2019-03-04
[30] US (16/379,425) 2019-04-09

[21] **3,073,404**
[13] A1
[51] **Int.Cl. F01D 21/00 (2006.01) B64D 41/00 (2006.01) F01D 15/12 (2006.01) F02C 7/268 (2006.01) F02C 7/32 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ENGINE WINDMILLING CONTROL**
[54] **PROCEDE ET SYSTEME POUR CONTROLER LE MOULINET D`UN REACTEUR**
[72] MOHAMMED, KASHIF, CA
[72] MANOUKIAN, PATRICK, CA
[72] REMY, PATRICE, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-21
[41] 2020-09-05
[30] US (62/813,954) 2019-03-05
[30] US (16/368,024) 2019-03-28

[21] **3,073,426**
[13] A1
[51] **Int.Cl. E01H 5/06 (2006.01)**
[25] EN
[54] **SNOW PLOW MOUNTING ASSEMBLY**
[54] **SUPPORT POUR CHASSE-NEIGE**
[72] CONSIDINE, ANTHONY, US
[72] MOORMAN, SCOTT, US
[71] BUYERS PRODUCTS COMPANY, US
[22] 2020-02-24
[41] 2020-09-04
[30] US (62/813,336) 2019-03-04
[30] US (16/780,343) 2020-02-03

[21] **3,073,626**
[13] A1
[51] **Int.Cl. C10G 65/04 (2006.01) C10G 3/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING DIESEL FUEL FROM A BIORENEWABLE FEED**
[54] **PROCEDE POUR PRODUIRE DU CARBURANT DIESEL A PARTIR D`UNE CHARGE BIORENOUVELABLE**
[72] WEXLER, JAMES T., US
[72] DAVIS, RALPH P., US
[72] KAPAUN, NICKOLAS, US
[71] UOP LLC, US
[22] 2020-02-26
[41] 2020-09-01
[30] US (16/290225) 2019-03-01

[21] **3,073,688**
[13] A1
[51] **Int.Cl. F02C 7/14 (2006.01) B64D 33/10 (2006.01) F01D 25/12 (2006.01) F28D 1/00 (2006.01)**
[25] EN
[54] **TURBOFAN ENGINE AND CORE LINK THEREFORE**
[54] **TURBOSOUFFLANTE ET SA LIAISON CENTRALE**
[72] OLVER, BRYAN WILLIAM, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-24
[41] 2020-09-04
[30] US (16/291,719) 2019-03-04

[21] **3,073,690**
[13] A1
[51] **Int.Cl. B64D 31/06 (2006.01) B64C 27/12 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPERATING AN ENGINE IN A MULTI-ENGINE AIRCRAFT**
[54] **PROCEDE ET SYSTEME DE FONCTIONNEMENT D`UN MOTEUR D`AERONEF MULTIMOTEUR**
[72] MCCARTHY, SEAN, CA
[72] MANOUKIAN, PATRICK, CA
[72] MOUNIR FATY, ZACHARY, CA
[72] LISIO, CARMINE, CA
[72] BEAUCHESNE-MARTEL, PHILIPPE, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-24
[41] 2020-09-05
[30] US (16/292,684) 2019-03-05

[21] **3,073,730**
[13] A1
[51] **Int.Cl. B60P 7/08 (2006.01)**
[25] EN
[54] **SUPPORT SYSTEM FOR SECURING HORIZONTAL LOGISTICS TRACK TO CARGO COMPARTMENT VERTICAL LOGISTICS POSTS**
[54] **SYSTEME DE SOUTIEN POUR FIXER UNE VOIE LOGISTIQUE HORIZONTALE A DES POTEAUX LOGISTIQUES VERTICAUX DE SOUTE**
[72] KNOX, H. THOMAS, US
[72] KAUFFMAN, GREGORY ALAN, US
[71] ANCRA INTERNATIONAL LLC, US
[22] 2020-02-26
[41] 2020-09-01
[30] US (62/812,399) 2019-03-01

[21] **3,073,865**
[13] A1
[51] **Int.Cl. B01D 29/27 (2006.01)**
[25] EN
[54] **PORTABLE FILTRATION APPARATUS, SYSTEMS AND METHODS**
[54] **APPAREIL DE FILTRATION PORTATIF ET SES SYSTEMES ET PROCEDES**
[72] GRICE, STEVEN, US
[71] PRECISION DEWATERING, LLC, US
[22] 2020-02-27
[41] 2020-09-01
[30] US (16/290,038) 2019-03-01
[30] US (16/527,891) 2019-07-31

[21] **3,073,881**
[13] A1
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 49/00 (2006.01)**
[25] EN
[54] **WELL PRODUCTION OPTIMIZATION USING HYPERSPECTRAL IMAGING**
[54] **OPTIMISATION DE LA PRODUCTION DE PUITS A L`AIDE D`UNE IMAGERIE HYPERSPECTRALE**
[72] KAY, ANTHONY, CA
[71] HUSKY OIL OPERATIONS LIMITED, CA
[22] 2020-02-27
[41] 2020-09-05
[30] US (62/813,813) 2019-03-05

[21] **3,073,905**
[13] A1
[51] **Int.Cl. F02C 7/06 (2006.01) F01D 9/02 (2006.01) F01D 25/12 (2006.01) F01D 25/16 (2006.01) F02C 7/12 (2006.01)**
[25] EN
[54] **GAS TURBINE ENGINE WITH FEED PIPE FOR BEARING HOUSING**
[54] **TURBINE A GAZ AVEC TUYAU D`ALIMENTATION POUR LOGEMENT DE PALIER**
[72] LEFEBVRE, GUY, CA
[72] SYNNOTT, REMY, CA
[72] DOYON, FRANCOIS, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-26
[41] 2020-09-05
[30] US (16/292,407) 2019-03-05

[21] **3,074,064**
[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01) G06K 9/62 (2006.01) G06N 3/02 (2006.01) A61B 5/055 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND MEDIA FOR AUTOMATICALLY SEGMENTING AND DIAGNOSING PROSTATE LESIONS USING MULTI-PARAMETRIC MAGNETIC RESONANCE IMAGING DATA**
[54] **SYSTEMES, PROCEDES ET MOYEN POUR LA SEGMENTATION ET LE DIAGNOSTIC AUTOMATIQUES DE LESIONS DE LA PROSTATE A L`AIDE DES DONNEES PAR IMAGERIE PAR RESONANCE MAGNETIQUE MULTIPARAMETRIQUE**
[72] SUNG, KYUNG HYUN, US
[72] CAO, RUIMING, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[22] 2020-02-27
[41] 2020-09-01
[30] US (62/812914) 2019-03-01

[21] **3,074,084**
[13] A1
[51] **Int.Cl. H04N 19/87 (2014.01) H04N 19/142 (2014.01) H04N 19/154 (2014.01) H04N 19/172 (2014.01) H04N 19/513 (2014.01)**
[25] EN
[54] **SCENE CLASSIFICATION AND LEARNING FOR VIDEO COMPRESSION**
[54] **CLASSIFICATION ET APPRENTISSAGE DES SCENES POUR LA COMPRESSION VIDEO**
[72] MAO, WEIDONG, US
[72] GILADI, ALEXANDER, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2020-02-26
[41] 2020-09-04
[30] US (16/291,076) 2019-03-04

[21] **3,074,093**
[13] A1
[51] **Int.Cl. B29C 64/147 (2017.01) B29C 64/393 (2017.01)**
[25] EN
[54] **THERMOGRAPHIC INSPECTION FOR TAPE LAYUP MACHINES**
[54] **INSPECTION THERMOGRAPHIQUE POUR LES MACHINES DE SUPERPOSITION DE BANDES**
[72] HOLMES, TYLER, US
[72] HANSEN, AMANDA, US
[72] BRADY, STEVEN K., US
[71] THE BOEING COMPANY, US
[22] 2020-02-26
[41] 2020-09-04
[30] US (16/291974) 2019-03-04

[21] **3,074,131**
[13] A1
[51] **Int.Cl. C09D 7/63 (2018.01) A01N 65/00 (2009.01) A01P 7/04 (2006.01) C09D 5/14 (2006.01) C09D 5/46 (2006.01)**
[25] EN
[54] **ESSENTIAL OIL MICROPARTICLES FOR POWDER COATING APPLICATIONS**
[54] **MICROPARTICULES D`HUILE ESSENTIELLE POUR LES APPLICATIONS DE POUDRAGE**
[72] FARRUGIA, VALERIE, CA
[72] GARDNER, SANDRA, CA
[72] BIRAU, MIHAELA MARIA, CA
[71] XEROX CORPORATION, US
[22] 2020-02-28
[41] 2020-09-04
[30] US (16/292247) 2019-03-04

[21] **3,074,132**
[13] A1
[51] **Int.Cl. C09D 7/80 (2018.01) C09D 7/40 (2018.01) C09C 3/10 (2006.01) C09D 5/46 (2006.01)**
[25] EN
[54] **MICA PIGMENT PARTICLES FOR POWDER COATING APPLICATIONS**
[54] **PARTICULES DE PIGMENT MICA POUR LES APPLICATIONS DE POUDRAGE**
[72] FARRUGIA, VALERIE, CA
[72] GARDNER, SANDRA, CA
[71] XEROX CORPORATION, US
[22] 2020-02-28
[41] 2020-09-04
[30] US (16/292257) 2019-03-04

[21] **3,074,133**
[13] A1
[51] **Int.Cl. E04D 1/22 (2006.01) B32B 3/10 (2006.01) B32B 11/02 (2006.01) B32B 37/15 (2006.01) E04D 1/26 (2006.01) E04D 1/28 (2006.01)**
[25] EN
[54] **IMPACT RESISTANT ROOFING SHINGLE AND METHOD FOR MAKING SAME**
[54] **TUILES DE TOITURE RESISTANTES AUX IMPACTS ET LEUR PROCEDE DE FABRICATION**
[72] FREEBORG, CHRISTOPHER, US
[72] POWELL, JAMES GREGORY, US
[72] MARTA, JONATHAN, US
[71] TAMKO BUILDING PRODUCTS LLC, US
[22] 2020-02-28
[41] 2020-09-01
[30] US (16/803,554) 2020-02-27
[30] US (62/812,854) 2019-03-01

[21] **3,074,156**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MULTI-TYPE MEAN FIELD REINFORCEMENT MACHINE LEARNING**
[54] **SYSTEME ET PROCEDE POUR APPRENTISSAGE AUTOMATIQUE AVEC RENFORT MOYEN SUR LE TERRAIN DE DIVERS TYPES**
[72] SUBRAMANIAN, SRIRAM GANAPATHI, CA
[72] POUPART, PASCAL, CA
[72] TAYLOR, MATTHEW EDMUND, CA
[72] HEGDE, NIDHI, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2020-02-28
[41] 2020-09-01
[30] US (62/812,903) 2019-03-01

[21] **3,074,189**
[13] A1
[51] **Int.Cl. B65D 83/00 (2006.01) A47G 19/30 (2006.01) B67D 3/00 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **CONTAINER ASSEMBLY**
[54] **ENSEMBLE DE RESERVOIRS**
[72] MACORETTA, FEDERICO, US
[72] NISHIJIMA, RICK T., US
[72] DONOVAN, MADELINE A., US
[72] BELL, RUSSELL E., US
[72] YAU, PIERCY, US
[71] BRITA LP, US
[22] 2020-02-28
[41] 2020-09-01
[30] US (62/812,704) 2019-03-01
[30] US (16/801,891) 2020-02-26

[21] **3,074,191**
[13] A1
[51] **Int.Cl. H04B 7/155 (2006.01) H01Q 9/30 (2006.01) H02J 1/00 (2006.01) H02M 3/04 (2006.01) H04B 3/44 (2006.01)**
[25] EN
[54] **POWER ADAPTOR WITH INTEGRATED SERVER ANTENNA**
[54] **ADAPTATEUR DE COURANT AVEC ANTENNE DE SERVEUR INTEGREE**
[72] JUDD, SAMUEL VAUGHN, US
[72] MOUSER, MICHAEL JAMES, US
[72] ASHWORTH, CHRISTOPHER KEN, US
[71] WILSON ELECTRONICS, LLC., US
[22] 2020-02-28
[41] 2020-09-05
[30] US (62/814,153) 2019-03-05
[30] US (16/801,340) 2020-02-26

[21] **3,074,211**
[13] A1
[51] **Int.Cl. A45C 11/16 (2006.01)**
[25] EN
[54] **JEWELRY STORAGE CASE**
[54] **BOITE DE RANGEMENT DE BIJOUX**
[72] DAWE, JULIA CATHERINE, CA
[71] BLINGO BAGS LTD., CA
[22] 2020-02-28
[41] 2020-09-01
[30] CA (3,035,355) 2019-03-01

[21] **3,074,224**
[13] A1
[51] **Int.Cl. A62C 31/28 (2006.01) H04W 4/80 (2018.01) A62C 31/02 (2006.01) H01Q 1/22 (2006.01) H01Q 9/04 (2006.01) H04B 1/59 (2006.01)**
[25] EN
[54] **SPRINKLER HEAD WITH A BULB HAVING AN EMBEDDED RFID CIRCUIT**
[54] **TETE D`EXTINCTEUR AVEC SONDE AYANT UN CIRCUIT FRID INTEGRE**
[72] KRUTSKEVYCH, NAZAR, FI
[71] MARIOFF CORPORATION OY, FI
[22] 2020-02-27
[41] 2020-09-01
[30] EP (19397506.7) 2019-03-01

[21] **3,074,226**
[13] A1
[51] **Int.Cl. E05B 65/44 (2006.01) E05B 47/00 (2006.01) E05B 65/06 (2006.01)**
[25] EN
[54] **ELECTRIFIED LATCH**
[54] **VERROU ELECTRIFIE**
[72] SIMS, RYAN M., US
[72] SPENCE, BARUCH, US
[72] PEABODY, JOSHUA T., US
[72] WILLIAMS, BEN, US
[71] HANCHETT ENTRY SYSTEMS, INC., US
[22] 2020-02-28
[41] 2020-09-01
[30] US (62/812,647) 2019-03-01
[30] US (62/831,923) 2019-04-10

[21] **3,074,234**
[13] A1
[51] **Int.Cl. C09D 167/00 (2006.01) C09D 7/61 (2018.01) C08J 3/20 (2006.01) C08K 3/22 (2006.01) C08K 3/36 (2006.01) C08L 29/04 (2006.01) C08L 67/00 (2006.01) C09D 5/46 (2006.01) C09D 129/04 (2006.01)**
[25] EN
[54] **PARTICLES FOR POWDER COATING APPLICATIONS AND METHOD OF MANUFACTURING**
[54] **PARTICULES POUR LES APPLICATIONS DE POUDRAGE ET PROCEDE DE FABRICATION**
[72] FARRUGIA, VALERIE M., CA
[72] GARDNER, SANDRA J., CA
[71] XEROX CORPORATION, US
[22] 2020-02-28
[41] 2020-09-04
[30] US (16/291165) 2019-03-04

[21] **3,074,235**
[13] A1
[51] **Int.Cl. A47B 96/02 (2006.01) A47F 5/00 (2006.01) F21V 33/00 (2006.01) F25D 25/02 (2006.01)**
[25] EN
[54] **SHELF ASSEMBLIES THAT DISPLAY ILLUMINATED INDICIA**
[54] **ENSEMBLE D`ETAGERES AVEC INDICES LUMINEUX**
[72] ADAMS, BRIAN, US
[71] SCHOTT GEMTRON CORPORATION, US
[22] 2020-02-28
[41] 2020-09-01
[30] US (16/289,699) 2019-03-01

[21] **3,074,236**
[13] A1
[51] **Int.Cl. E21B 7/28 (2006.01) E21B 7/04 (2006.01)**
[25] EN
[54] **HOLE OPENER FOR HORIZONTAL DIRECTIONAL DRILLING**
[54] **ELARGISSEUR POUR UN FORAGE DIRECTIONNEL HORIZONTAL**
[72] GRAHAM, CODY D., CA
[72] MUELLER, JEFFREY S., US
[71] PRECISE DRILLING COMPONENTS LTD, CA
[22] 2020-02-28
[41] 2020-09-01
[30] US (62/812,316) 2019-03-01

[21] **3,074,275**
[13] A1
[51] **Int.Cl. H05K 7/20 (2006.01) H04B 10/40 (2013.01) H04B 1/40 (2015.01) H05K 5/02 (2006.01)**
[25] EN
[54] **STRANDARDIZED HOT-PLUGGABLE TRANSCEIVING UNIT WITH HEAT DISSIPATION CAPABILITIES**
[54] **MODULE EMETTEUR-RECEPTEUR ENFICHABLE A CHAUD NORMALISE AYANT DES CAPACITES DE DISSIPATION THERMIQUE**
[72] LAVOIE, RENAUD, CA
[72] DUDEMAINE, ERIC, CA
[72] VALLEE, YANNICK, CA
[71] RIEDEL COMMUNICATIONS CANADA INC., CA
[22] 2020-03-02
[41] 2020-09-05
[30] US (16/292,443) 2019-03-05

[21] **3,074,284**
[13] A1
[51] **Int.Cl. H04L 12/46 (2006.01) H04B 10/40 (2013.01) H04J 14/02 (2006.01) H04L 12/24 (2006.01)**
[25] EN
[54] **FUSED THREE-STAGE NETWORKS FORMING A GLOBAL CONTIGUOUS NETWORK**
[54] **RESEAUX A TROIS ETAGES FUSIONNES FORMANT UN RESEAU GLOBAL CONTIGU**
[72] BESHAI, MAGED E., CA
[71] BESHAI, MAGED E., CA
[22] 2020-03-02
[41] 2020-09-05
[30] US (62814235) 2019-03-05
[30] US (16559704) 2019-09-04

[21] **3,074,305**
[13] A1
[51] **Int.Cl. F02C 7/00 (2006.01) F01D 25/00 (2006.01) F01D 25/16 (2006.01) F01D 25/28 (2006.01) F02C 7/06 (2006.01)**
[25] EN
[54] **TURBINE ENGINE BEARING USED AS A STATIC ELECTRICITY LEAK PATH**
[54] **COUSSINET DU MOTEUR A TURBINE UTILISE COMME LIGNE DE FUITE D`ELECTRICITE STATIQUE**
[72] BRILLON, LOUIS, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2020-02-28
[41] 2020-09-01
[30] US (16/290,207) 2019-03-01

[21] **3,074,364**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **SANDBOXX MATCHING APPLICATION**
[54] **APPLICATION DE JUMELAGE SANDBOXX**
[72] STRONG, LESLIE, CA
[72] DE KOKER, GREG, CA
[71] SANDBOXX CORP., CA
[22] 2020-03-02
[41] 2020-09-01
[30] US (62/812,306) 2019-03-01
[30] US (16/804,380) 2020-02-28

[21] **3,074,369**
[13] A1
[51] **Int.Cl. G05B 19/042 (2006.01) A01G 23/00 (2006.01) G05D 1/02 (2020.01) H04L 12/40 (2006.01)**
[25] EN
[54] **SEMI-AUTONOMOUS PAYLOAD RETRIEVAL SYSTEM**
[54] **SYSTEME DE RECUPERATION DES DONNEES UTILES SEMI-AUTONOME**
[72] RULSEH, DAVID J., US
[72] KREILING, JEFFERY R., US
[71] DEERE & COMPANY, US
[22] 2020-03-03
[41] 2020-09-04
[30] US (16/291,821) 2019-03-04

[21] **3,074,370**
[13] A1
[51] **Int.Cl. G06F 8/40 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SOURCE CODE TRANSLATION USING STREAM EXPRESSIONS**
[54] **SYSTEME ET PROCEDE POUR LA TRADUCTION DE CODE SOURCE A L`AIDE D`EXPRESSIONS DE FLUX**
[72] ANTONEVICH, VLADIMIR, CA
[72] SCHOUERI, BADIH, CA
[72] YU, QIANG, CA
[71] NEXT PATHWAY INC., CA
[22] 2020-03-03
[41] 2020-09-04
[30] US (62/813,489) 2019-03-04

[21] **3,074,374**
[13] A1
[51] **Int.Cl. B30B 9/32 (2006.01) B02C 19/00 (2006.01)**
[25] EN
[54] **MACHINE FOR PROCESSING SCRAP**
[54] **MACHINE DE TRAITEMENT DES DECHETS**
[72] BONFIGLIOLI, GIANCARLO, IT
[71] BONFIGLIOLI, GIANCARLO, IT
[22] 2020-03-02
[41] 2020-09-05
[30] IT (10 2019 000003175) 2019-03-05

[21] **3,074,382**
[13] A1
[51] **Int.Cl. E06B 9/56 (2006.01) E06B 9/38 (2006.01)**
[25] EN
[54] **OPERATING SYSTEM FOR AN ARCHITECTURAL-STRUCTURE COVERING**
[54] **SYSTEME D`EXPLOITATION POUR UN REVETEMENT DE STRUCTURE ARCHITECTURALE**
[72] SPRAY, JEFFREY L., US
[72] SCHWANDT, MARK, US
[71] HUNTER DOUGLAS INC., US
[22] 2020-03-04
[41] 2020-09-05
[30] US (62/813,898) 2019-03-05

[21] **3,074,389**
[13] A1
[51] **Int.Cl. E06B 9/32 (2006.01) E06B 9/56 (2006.01)**
[25] EN
[54] **TRANSMISSION FOR AN ARCHITECTURAL-STRUCTURE COVERING**
[54] **TRANSMISSION POUR UN REVETEMENT DE STRUCTURE ARCHITECTURALE**
[72] SPRAY, JEFFREY L., US
[72] SCHWANDT, MARK, US
[72] MISCHO, PAUL D., US
[71] HUNTER DOUGLAS INC., US
[22] 2020-03-04
[41] 2020-09-05
[30] US (62/813,886) 2019-03-05

[21] **3,074,485**
[13] A1
[51] **Int.Cl. F04B 51/00 (2006.01) H04W 4/30 (2018.01) H04W 4/38 (2018.01)**
[25] EN
[54] **COMPRESSOR MAINTENANCE MONITORING AND ALERT SYSTEM**
[54] **SURVEILLANCE DE L`ENTRETIEN DU COMPRESSEUR ET SYSTEME D`ALERTE**
[72] STARK, ALAN, US
[72] THOMAS, PAUL, US
[71] MAT INDUSTRIES, LLC, US
[22] 2020-03-03
[41] 2020-09-04
[30] US (62/813,525) 2019-03-04

[21] **3,074,508**
[13] A1
[51] **Int.Cl. A63B 63/00 (2006.01) A63B 69/00 (2006.01) B29C 45/14 (2006.01)**
[25] EN
[54] **MAGNETIC PRACTICE TARGETS**
[54] **CIBLES DE PRATIQUE MAGNETIQUES**
[72] WEGENER, ADAM STEPHEN, US
[72] MALEY, DAVID J., US
[72] HERBST, ROBERT, US
[71] TOP SHELF TARGETS, LLC, US
[22] 2020-03-04
[41] 2020-09-04
[30] US (16/292,128) 2019-03-04

[21] **3,074,530**
[13] A1
[51] **Int.Cl. B65D 6/00 (2006.01) B65D 6/02 (2006.01)**
[25] EN
[54] **INTERCHANGEABLE DISMOUNTABLE HINGED BOX FOR STORING CORE SAMPLES**
[54] **BOITE ARTICULEE DEMONTABLE INTERCHANGEABLE POUR LE STOCKAGE D`ECHANTILLONS DE CAROTTAGE**
[72] RAMOS, FLAVIO DE BARROS, BR
[72] CARVALHO, DANIEL BORTOWSKI, BR
[71] RAMOS, FLAVIO DE BARROS, BR
[71] CARVALHO, DANIEL BORTOWSKI, BR
[22] 2020-03-05
[41] 2020-09-05
[30] BR (BR 10 2019 004379 2) 2019-03-05

[21] **3,074,539**
[13] A1
[51] **Int.Cl. A47L 5/38 (2006.01)**
[25] EN
[54] **VACUUM INLET VALVE ASSEMBLY WITH A CLOSEABLE SEAL**
[54] **ENSEMBLE DE SOUPAPE D`ADMISSION DE VIDE AVEC JOINT D`ETANCHEITE POUVANT ETRE FERME**
[72] NIESCHWITZ, DARRELL V., US
[72] CALDERONE, GREG A., US
[72] METZ, SHAWN C., US
[71] H-P PRODUCTS, INC., US
[22] 2020-03-03
[41] 2020-09-04
[30] US (62/813,278) 2019-03-04
[30] US (16/806,543) 2020-03-02

[21] **3,074,599**
[13] A1
[51] **Int.Cl. H04W 48/18 (2009.01) H04W 36/24 (2009.01) H04W 76/14 (2018.01)**
[25] EN
[54] **WI-FI ENHANCED CELLULAR SCANNING**
[54] **BALAYAGE CELLULAIRE AMELIORE PAR WI-FI**
[72] SIDDALINGA, PRASAD RAMANAHALLY, US
[72] SHARMA, SANJAY KUMAR, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2020-03-04
[41] 2020-09-04
[30] US (62/813,625) 2019-03-04

[21] **3,074,619**
[13] A1
[51] **Int.Cl. B60G 3/20 (2006.01) B60G 7/02 (2006.01)**
[25] EN
[54] **SUSPENSION ASSEMBLY WITH A DAMPER FOR AN ELECTRIC BUS**
[54] **ENSEMBLE DE SUSPENSION DOTE D`UN AMORTISSEUR POUR UN AUTOBUS ELECTRIQUE**
[72] HALLUNDBAEK, JORGEN, LU
[71] ALPHA EC INDUSTRIES 2018 S.A.R.L., LU
[22] 2020-03-04
[41] 2020-09-04
[30] LU (LU101143) 2019-03-04

[21] **3,074,637**
[13] A1
[51] **Int.Cl. E21B 43/119 (2006.01) E21B 43/116 (2006.01)**
[25] EN
[54] **DOWNHOLE PERFORATING GUN TUBE AND COMPONENTS**
[54] **TUBE PERFORATEUR DE FOND DE TROU ET COMPOSANTES**
[72] MAULDIN, DAWNA, US
[72] HAASL, RONALD, US
[72] ROPER, KEITH, US
[71] SMW INTERNATIONAL INC., US
[22] 2020-03-04
[41] 2020-09-05
[30] US (16/293,508) 2019-03-05

[21] **3,074,640**
[13] A1
[51] **Int.Cl. B60G 7/02 (2006.01) B60G 3/20 (2006.01) B60G 7/00 (2006.01) B60G 11/27 (2006.01)**
[25] EN
[54] **BUS SUSPENSION SYSTEM WITH INDEPENDENT ACTUATOR**
[54] **SYSTEME DE SUSPENSION POUR AUTOBUS DOTE D`UN ACTIONNEUR INDEPENDANT**
[72] HALLUNDBAEK, JORGEN, LU
[71] ALPHA EC INDUSTRIES 2018 S.A.R.L., LU
[22] 2020-03-04
[41] 2020-09-04
[30] LU (LU101142) 2019-03-04

[21] **3,074,669**
[13] A1
[51] **Int.Cl. B21D 24/04 (2006.01)**
[25] EN
[54] **COMPACT STOCK GUIDE ASSEMBLY**
[54] **ENSEMBLE DE GUIDAGE DE RESERVES COMPACT**
[72] BREEN, SCOTT M., US
[72] PYPER, JOEL T., US
[71] STANDARD LIFTERS, INC., US
[22] 2020-03-04
[41] 2020-09-05
[30] US (62/813,848) 2019-03-05
[30] US (16/807,665) 2020-03-03

[21] **3,074,675**
[13] A1
[51] **Int.Cl. G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MACHINE LEARNING WITH LONG-RANGE DEPENDENCY**
[54] **SYSTEME ET METHODE D`APPRENTISSAGE AUTOMATIQUE AVEC DEPENDANCE A GRANDE DISTANCE**
[72] CAO, YANSHUAI, CA
[72] XU, PENG, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2020-03-04
[41] 2020-09-04
[30] US (62/813,535) 2019-03-04

[21] **3,074,847**
[13] A1
[51] **Int.Cl. H04W 4/029 (2018.01) H04W 4/38 (2018.01) H04Q 9/00 (2006.01)**
[25] EN
[54] **TELEMATICS ROAD READY SYSTEM INCLUDING A BRIDGE INTEGRATOR UNIT**
[54] **SYSTEME TELEMATIQUE PRET POUR LA ROUTE COMPRENANT UNE UNITE D`INTEGRATION DE PONT**
[72] TROUTMAN, SCOTT, US
[72] ELMER, ROGER, US
[72] JACKSON, BRETT, US
[72] KING, ANDREW, US
[71] TRUCK-LITE CO., LLC, US
[22] 2020-03-05
[41] 2020-09-05
[30] US (16/293,578) 2019-03-05

[21] **3,074,855**
[13] A1
[51] **Int.Cl. A61B 5/1455 (2006.01) A61B 5/026 (2006.01)**
[25] EN
[54] **SENSOR CONFIGURATION**
[54] **CONFIGURATION DE CAPTEUR**
[72] FROHLICH, JURG HANS, CH
[72] ZAHNER, MARCO, CH
[72] SCHNEIDER, FABIAN, CH
[72] BAUMANN, DIRK, CH
[72] MUSER, MARKUS HUGO, CH
[71] LUCIOLE MEDICAL AG, CH
[22] 2020-03-05
[41] 2020-09-05
[30] EP (19160799.3) 2019-03-05

[21] **3,074,905**
[13] A1
[51] **Int.Cl. G06Q 40/00 (2012.01) G06Q 40/06 (2012.01) B33Y 10/00 (2015.01) B33Y 50/00 (2015.01) G06F 3/12 (2006.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR VISUALIZING PRICING DEVIATIONS ACROSS TIME**
[54] **SYSTEME ET PROCEDE POUR VISUALISER DES ECARTS DE PRIX DANS LE TEMPS**
[72] ARORA, TUSHAR, CA
[72] SVIRSCHI, OLEG, CA
[71] CIBC WORLD MARKETS INC., CA
[22] 2020-03-04
[41] 2020-09-05
[30] US (62/814,217) 2019-03-05

[21] **3,077,905**
[13] A1
[51] **Int.Cl. E21B 33/13 (2006.01) E21B 33/138 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **MOBILE CEMENT MIXING AND DELIVERY SYSTEM FOR DOWNHOLE WELLS**
[54] **MELANGE DE CIMENT MOBILE ET SYSTEME DE DISTRIBUTION POUR PUITS DE FOND DE TROU**
[72] MARTIN, MYLES, CA
[72] MARTIN, RANDY, CA
[71] T-ROCK CT SERVICES LTD., CA
[22] 2020-04-06
[41] 2020-08-30

---

[21] **3,081,871**
[13] A1
[51] **Int.Cl. B64C 1/36 (2006.01)**
[25] EN
[54] **A RADOME COVER SHELL AND OPENING KINEMATIC**
[54] **COQUILLE DE COUVERCLE DE RADOME ET CINEMATIQUE D`OUVERTURE**
[72] BOEHME, JAN, DE
[72] LE CADET, YANN, DE
[72] LAZAK, MARTIN, DE
[71] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE
[22] 2020-06-03
[41] 2020-08-31
[30] EP (19400020.4) 2019-09-27

---

[21] **3,081,990**
[13] A1
[51] **Int.Cl. G06F 17/11 (2006.01) G06Q 10/04 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SOLVING MIXED-INTEGER PROGRAMMING PROBLEMS USING FEASIBILITY PUMP TECHNIQUE EMBEDDED IN A MONTE CARLO SIMULATION FRAMEWORK**
[54] **METHODE ET SYSTEME POUR REGLER DES PROBLEMES DE PROGRAMMATION MIXES OU INTEGRES AU MOYEN D`UNE TECHNIQUE DE POMPAGE DE FAISABILITE INTEGREE DANS UN CADRE DE SIMULATION DE MONTE-CARLO**
[72] BAJESTANI, MALIEH ARAMON, CA
[72] PRADIGNAC, NICOLAS, FR
[72] KATZGRABER, HELMUT, US
[71] 1QB INFORMATION TECHNOLOGIES INC., CA
[22] 2020-06-05
[41] 2020-09-01
[30] US (62/858,543) 2019-06-07

---

[21] **3,082,221**
[13] A1
[51] **Int.Cl. G08B 21/22 (2006.01) H04B 17/318 (2015.01) H04W 4/38 (2018.01) G08B 3/10 (2006.01) G08B 5/36 (2006.01)**
[25] EN
[54] **SOCIAL DISTANCING PERSONAL WARNING DEVICE**
[54] **DISPOSITIF D~AVERTISSEMENT PERSONNEL DE DISTANCIATION PHYSIQUE**
[72] KNECHT, JARRED, CA
[72] ZIMMERMANN, STEVE, CA
[72] PELLETIER, GUY, CA
[72] SOARES, JOAO, CA
[72] LASSNER, PHILIP, CA
[72] DAZA, NESTOR, CA
[71] PROMARK ELECTRONICS INC., CA
[22] 2020-06-05
[41] 2020-08-31
[30] US (63/010,310) 2020-04-15

---

[21] **3,082,662**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH42YR**
[54] **MAIS AUTOGAME PH42YR**
[72] ARBELBIDE, MARTIN, US
[72] GROTE, EDWIN MICHAEL, US
[72] SCHAEFER, CHRISTOPHER MICHAEL, US
[72] ZHANG, JULIA XIULING, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,137) 2019-06-14

---

[21] **3,082,695**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47A5**
[54] **MAIS AUTOGAME PH47A5**
[72] BRENNER, EVERTON ALEN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,205) 2019-06-14

---

[21] **3,082,700**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47SK**
[54] **MAIS AUTOGAME PH47SK**
[72] ROSS, ANDREW JON, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,212) 2019-06-14

[21] **3,082,703**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47HS**
[54] **MAIS AUTOGAME PH47HS**
[72] WHITAKER, DAVID WALTER, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,149) 2019-06-14

[21] **3,082,723**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47JV**
[54] **MAIS AUTOGAME PH47JV**
[72] MICKELSON, SUZANNE MICHELLE, US
[72] SEVERNS, DINA ELIJAH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,168) 2019-06-14

[21] **3,082,730**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **MAIZE INBRED PH48C4**
[54] **MAIS AUTOGAME PH48C4**
[72] HOTCHKISS, JAY ROBERT, US
[72] WEBER, GERHARD P., US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,171) 2019-06-14

[21] **3,082,740**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH42SH**
[54] **MAIS AUTOGAME PH42SH**
[72] SZALMA, STEPHEN JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,223) 2019-06-14

[21] **3,082,760**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48YD**
[54] **MAIS AUTOGAME PH48YD**
[72] KING, STEVEN PAUL, US
[72] WILLIAM, HARINDRA MANILAL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,176) 2019-06-14

[21] **3,082,785**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48VD**
[54] **MAIS AUTOGAME PH48VD**
[72] ARBELBIDE, MARTIN, US
[72] GARCIA, GUSTAVO MARCELO, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,185) 2019-06-14

[21] **3,082,796**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48J7**
[54] **MAIS AUTOGAME PH48J7**
[72] GROTE, EDWIN MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,317) 2019-06-14

[21] **3,082,986**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47S0**
[54] **MAIS AUTOGAME PH47S0**
[72] ROSS, ANDREW JON, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-03
[30] US (16/441,156) 2019-06-14

[21] **3,082,991**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48RS**
[54] **MAIS AUTOGAME PH48RS**
[72] ZHANG, JULIA XIULING, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,162) 2019-06-14

[21] **3,083,021**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48AR**
[54] **MAIS AUTOGAME PH48AR**
[72] GOGERTY, JOSEPH KEVIN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,249) 2019-06-14

[21] **3,083,024**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48G8**
[54] **MAIS AUTOGAME PH48G8**
[72] FABRIZIUS, MARTIN A., US
[72] SZALMA, STEPHEN JOSEPH (DECEASED), US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,252) 2019-06-14

[21] **3,083,026**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48J8**
[54] **MAIS AUTOGAME PH48J8**
[72] GROTE, EDWIN MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,258) 2019-06-14

[21] **3,083,032**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47CA**
[54] **MAIS AUTOGAME PH47CA**
[72] WARDYN, BRANDON MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,274) 2019-06-14

[21] **3,083,060**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48CS**
[54] **MAIS AUTOGAME PH48CS**
[72] CARRIGAN, LORI LISA, US
[72] FABRIZIUS, MARTIN A., US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,281) 2019-06-14

[21] **3,083,074**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH41A3**
[54] **MAIS AUTOGAME PH41A3**
[72] GADLAGE, MARK JACOB, US
[72] LARSSON, SARA JOHANNA ELISABETH, US
[72] SMALLEY, MATTHEW DAVID, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,374) 2019-06-14

[21] **3,083,114**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47KB**
[54] **MAIS AUTOGAME PH47KB**
[72] LONGENBERGER, POLLY SUZANNE, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,153) 2019-06-14

[21] **3,083,435**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48FR**
[54] **MAIS AUTOGAME PH48FR**
[72] HENDRICKX, LEONARDUS JOHANNES MARIA, US
[72] MAHMOOD, TARIQ, CA
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,105) 2019-06-14

[21] **3,083,439**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH48ZZ**
[54] **MAIS AUTOGAME PH48ZZ**
[72] MONTPETIT, JEAN-MARC, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,111) 2019-06-14

[21] **3,083,785**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH47CK**
[54] **MAIS AUTOGAME PH47CK**
[72] WARDYN, BRANDON MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2020-06-10
[41] 2020-09-04
[30] US (16/441,320) 2019-06-14

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,077,706**
[13] A1
[51] **Int.Cl. C09J 7/24 (2018.01) C09J 7/38 (2018.01) F16F 1/377 (2006.01)**
[25] EN
[54] **VIBRATION-CONTROLLING SHEET HAVING NUMEROUS THROUGH-HOLES**
[54] **FEUILLE ANTI-VIBRATIONS DOTEE D'UNE PLURALITE DE TROUS TRAVERSANTS**
[72] MIYAMOTO, TAKEHIRO, JP
[72] KITAMURA, TERUO, JP
[72] NAKAMURA, YOSHINORI, JP
[72] NOSAKA, YUKIO, JP
[71] KURARAY PLASTICS CO., LTD., JP
[85] 2020-03-23
[86] 2018-09-19 (PCT/JP2018/034571)
[87] (WO2019/069684)
[30] JP (2017-192360) 2017-10-02

---

[21] **3,086,573**
[13] A1
[51] **Int.Cl. A01K 13/00 (2006.01) A41D 1/02 (2006.01) A43B 1/00 (2006.01)**
[25] EN
[54] **BOOT AND COAT FOR DOMESTIC ANIMALS**
[54] **CHAUSSURE ET MANTEAU POUR ANIMAUX DOMESTIQUES**
[72] D'AMORE, TERRY, CA
[72] D'ANGELO, ANTONIO, CA
[71] LES INNOVATIONS DOG E KATZ INC., CA
[85] 2020-07-13
[86] 2020-02-28 (PCT/CA2020/050274)
[87] (3086573)
[30] US (62/812,480) 2019-03-01

---

[21] **3,090,033**
[13] A1
[25] EN
[54] **LOW DENSITY EPOXY SYNTACTIC STRUCTURAL ADHESIVE FOR AUTOMOTIVE APPLICATIONS**
[54]
[72] KUANG, WENFENG, US
[72] TREVINO III, JOSE, US
[72] XIE, RUI, US
[71] HUNTSMAN ADVANCED MATERIALS AMERICAS INC., US
[85] 2020-08-13
[86] 2018-02-15 (PCT/US2019/017938)
[87] (3090033)
[30] US (62/630,944) 2018-02-15

---

[21] **3,090,166**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12M 1/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING CANCER AND IMMUNE DISORDERS USING VEILLONELLA BACTERIA**
[54] **COMPOSITIONS ET METHODES POUR TRAITER LE CANCER ET DES TROUBLES IMMUNITAIRES AU MOYEN DE BACTERIES VEILLONELLES**
[72] GOODMAN, BRIAN, US
[72] BOSE, BAUNDAUNA, US
[72] DAVITT, CHRISTOPHER J.H., US
[72] SIZOVA, MARIA, US
[72] CARLTON, SOFIA M.R., US
[72] ITANO, ANDREA, US
[72] PONICHTERA, HOLLY, US
[72] CORMACK, TAYLOR A., US
[72] RAMANI, KRITIKA, US
[71] EVELO BIOSCIENCES, INC., US
[85] 2020-07-30
[86] 2019-02-06 (PCT/US2019/016763)
[87] (WO2019/157003)

---

[21] **3,090,753**
[13] A1
[51] **Int.Cl. A61K 38/08 (2019.01) A61K 9/127 (2006.01) A61K 31/519 (2006.01) A61K 38/05 (2006.01) A61K 38/06 (2006.01) A61K 38/07 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07K 5/02 (2006.01) C07K 7/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **GAMMA POLYGLUTAMATED PRALATREXATE AND USES THEREOF**
[54] **PRALATREXATE GAMMA-POLYGLUTAMATE ET UTILISATIONS ASSOCIEES**
[72] NIYIKIZA, CLET, US
[72] MOYO, VICTOR MANDLA, US
[71] L.E.A.F. HOLDINGS GROUP LLC, US
[85] 2020-08-06
[86] 2019-02-07 (PCT/US2019/016981)
[87] (WO2019/160736)
[30] US (62/630,620) 2018-02-14
[30] US (62/662,372) 2018-04-25
[30] US (62/702,774) 2018-07-24
[30] US (62/764,945) 2018-08-17

[21] **3,090,759**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRAINING GENERATIVE MACHINE LEARNING MODELS**
[54] **SYSTEMES ET PROCEDES DE FORMATION DE MODELES D'APPRENTISSAGE AUTOMATIQUE GENERATIF**
[72] ROLFE, JASON T., CA
[72] KHOSHAMAN, AMIR H., CA
[72] VAHDAT, ARASH, CA
[72] AMIN, MOHAMMAD H., CA
[72] ANDRIYASH, EVGENY A., CA
[72] MACREADY, WILLIAM G., CA
[71] D-WAVE SYSTEMS INC., CA
[85] 2020-08-06
[86] 2019-02-07 (PCT/US2019/017124)
[87] (WO2019/157228)
[30] US (62/628,384) 2018-02-09
[30] US (62/637,268) 2018-03-01
[30] US (62/648,237) 2018-03-26
[30] US (62/667,350) 2018-05-04
[30] US (62/673,013) 2018-05-17

[21] **3,090,764**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A01N 43/56 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01)**
[25] EN
[54] **NOVEL ANTHRANILAMIDES, THEIR USE AS INSECTICIDE AND PROCESSES FOR PREPARING THE SAME**
[54] **NOUVEAUX ANTHRANILAMIDES, LEUR UTILISATION EN TANT QU'INSECTICIDES ET LEURS PROCEDES DE PREPARATION**
[72] KARRI, PHANEENDRASAI, IN
[72] PABBA, JAGADISH, IN
[72] MORE, AVINASH BAPU, IN
[72] KOTHA, VENKATESH, IN
[72] KSHIRSAGAR, NILESH, IN
[72] GEETANJLY, IN
[72] VERMA, ANIL KUMAR, IN
[72] VENKATESHA, HAGALAVADI M, IN
[72] KLAUSENER, ALEXANDER G.M., DE
[71] PI INDUSTRIES LTD, IN
[85] 2020-07-29
[86] 2019-01-21 (PCT/IB2019/050470)
[87] (WO2019/150220)
[30] IN (201811003535) 2018-01-30

[21] **3,090,776**
[13] A1
[51] **Int.Cl. A61B 5/042 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CARDIAC CONDUCTION BLOCK**
[54] **SYSTEMES ET METHODES POUR BLOC DE CONDUCTION CARDIAQUE**
[72] WU, KENNETH S., US
[72] ACKERMANN, DOUGLAS MICHAEL, US
[71] PRESIDIO MEDICAL, INC., US
[85] 2020-08-06
[86] 2019-02-08 (PCT/US2019/017215)
[87] (WO2019/157285)
[30] US (62/628,810) 2018-02-09

[21] **3,090,781**
[13] A1
[51] **Int.Cl. A01G 31/06 (2006.01) A01G 9/16 (2006.01) A01G 31/00 (2018.01) A01G 31/02 (2006.01)**
[25] EN
[54] **HUB AND SPOKE MODULAR FARM SYSTEM**
[54] **SYSTEME DE FERMES MODULAIRE A RESEAU EN ETOILE**
[72] MCNAMARA, BRAD, US
[72] FRIEDMAN, JON, US
[72] MARINO, DAN, US
[72] BAKER, DEREK, US
[72] SLATER, NIGEL, US
[71] FREIGHT FARMS, INC., US
[85] 2020-08-06
[86] 2019-02-08 (PCT/US2019/017247)
[87] (WO2019/157306)

[21] **3,090,785**
[13] A1
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01)**
[25] EN
[54] **NOVEL GENE CLASSIFIERS AND USES THEREOF IN NON-MELANOMA SKIN CANCERS**
[54] **NOUVEAUX CLASSIFICATEURS DE GENES ET LEURS UTILISATIONS DANS DES CANCERS DE LA PEAU SANS MELANOME**
[72] DOBAK, JOHN DANIEL III, US
[72] JANSEN, BURKHARD, US
[72] YAO, ZUXU, US
[71] DERMTECH, INC., US
[85] 2020-08-06
[86] 2019-02-14 (PCT/US2019/018102)
[87] (WO2019/161126)
[30] US (62/630,627) 2018-02-14

[21] **3,090,842**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01)**
[25] EN
[54] **INHIBITORS OF TYROSINE KINASE 2 MEDIATED SIGNALING**
[54] **INHIBITEURS DE LA SIGNALISATION A MEDIATION PAR LA TYROSINE KINASE 2**
[72] ARGIRIADI, MARIA A., US
[72] BREINLINGER, ERIC C., US
[72] CHIEN, ELLEN YULIN TSAI, US
[72] COWART, MARLON D., US
[72] FRANK, KRISTINE E., US
[72] FRIEDMAN, MICHAEL M., US
[72] HARDEE, DAVID J., US
[72] HEROLD, J. MARTIN, US
[72] LIU, HUAQING, US
[72] QIU, WEI, US
[72] SCANIO, MARC J., US
[72] SCHRIMPF, MICHAEL R., US
[72] VARGO, THOMAS R., US
[72] VAN EPPS, STACY A., US
[72] WEBSTER, MATTHEW P., US
[72] LITTLE, ANDREW J., US
[72] DUNSTAN, THERESA A., US
[72] KATCHER, MATTHEW H., US
[72] SCHIEDLER, DAVID A., US
[71] ABBVIE INC., US
[85] 2020-08-06
[86] 2019-03-12 (PCT/US2019/021824)
[87] (WO2019/178079)
[30] US (62/641,728) 2018-03-12

[21] **3,090,845**
[13] A1
[51] **Int.Cl. F27B 3/16 (2006.01) C22B 9/16 (2006.01) C22B 21/00 (2006.01) F27B 3/18 (2006.01) F27B 3/19 (2006.01)**
[25] EN
[54] **MOLTEN METAL SCRAP SUBMERGENCE APPARATUS**
[54] **APPAREIL D'IMMERSION DE FERRAILLE METALLIQUE FONDUE**
[72] HENDERSON, RICHARD S., US
[72] TETKOSKIE, JASON, US
[72] VILD, CHRIS T., US
[72] SHILLING, EDWARD, US
[71] PYROTEK, INC., US
[85] 2020-08-06
[86] 2019-03-12 (PCT/US2019/021886)
[87] (WO2019/178122)
[30] US (15/921,047) 2018-03-14

[21] **3,090,847**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 3/00 (2006.01)**
[25] EN
[54] **SINGLE USE CONTAINER INCLUDING A COLLAPSIBLE BAFFLE HAVING CHANNELS**
[54] **RECIPIENT A USAGE UNIQUE COMPRENANT UN DEFLECTEUR PLIABLE AYANT DES CANAUX**
[72] PEARSONS, JEFFREY, US
[72] WOOD, AMY, US
[72] KRAUS, DAVID, US
[71] EMD MILLIPORE CORPORATION, US
[85] 2020-08-06
[86] 2019-03-13 (PCT/US2019/022026)
[87] (WO2019/199406)
[30] US (62/655,277) 2018-04-10

[21] **3,090,875**
[13] A1
[51] **Int.Cl. A61K 38/08 (2019.01) A61K 9/127 (2006.01) A61K 31/519 (2006.01) A61K 38/05 (2006.01) A61K 38/06 (2006.01) A61K 38/07 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07K 7/02 (2006.01) C07K 16/28 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **GAMMA POLYGLUTAMATED LOMETREXOL AND USES THEREOF**
[54] **LOMETREXOL GAMMA POLYGLUTAMIQUE ET SES UTILISATIONS**
[72] NIYIKIZA, CLET, US
[72] MOYO, VICTOR MANDLA, US
[71] L.E.A.F. HOLDINGS GROUP LLC, US
[85] 2020-08-10
[86] 2019-02-07 (PCT/US2019/016961)
[87] (WO2019/160734)
[30] US (62/630,613) 2018-02-14
[30] US (62/662,372) 2018-04-25
[30] US (62/702,774) 2018-07-24
[30] US (62/764,945) 2018-08-17

[21] **3,090,877**
[13] A1
[51] **Int.Cl. C12M 1/12 (2006.01) C12M 1/24 (2006.01) C12M 1/34 (2006.01)**
[25] EN
[54] **REMOTE MONITORING SYSTEM FOR CELL CULTURE**
[54] **SYSTEME DE SURVEILLANCE A DISTANCE POUR LA CULTURE CELLULAIRE**
[72] MARTIN, GREGORY ROGER, US
[72] WALL, JOSEPH CHRISTOPHER, US
[72] WRIGHT, ALAN CRAIG, US
[71] CORNING INCORPORATED, US
[85] 2020-08-10
[86] 2019-02-08 (PCT/US2019/017185)
[87] (WO2019/157263)
[30] US (62/629,483) 2018-02-12

[21] **3,090,882**
[13] A1
[51] **Int.Cl. B64G 1/40 (2006.01) B64G 1/66 (2006.01) F03H 1/00 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC ENERGY MOMENTUM THRUSTER USING TAPERED CAVITY RESONATOR EVANESCENT MODES**
[54] **PROPULSEUR D'ENERGIE ELECTROMAGNETIQUE A IMPULSION UTILISANT DES MODES EVANESCENTS DE RESONATEUR A CAVITE CONIQUE**
[72] FLANAGAN, KYLE BERNARD, US
[72] DOHM, PETER CLINTON, US
[71] PRIME LIGHTWORKS INC., US
[85] 2020-08-10
[86] 2019-02-08 (PCT/US2019/017282)
[87] (WO2019/157330)
[30] US (62/629,106) 2018-02-11

[21] **3,090,883**
[13] A1
[51] **Int.Cl. B05B 11/00 (2006.01) A45D 34/04 (2006.01) A45D 40/24 (2006.01)**
[25] EN
[54] **DUAL PUMP DISPENSING SYSTEM**
[54] **SYSTEME DE DISTRIBUTION A DOUBLE POMPE**
[72] MOIGNARD, JULIEN, US
[72] CRESCAS, ROBERT MICHAEL, US
[72] DRAKE, LORRAINE, US
[72] OWEN, THOMAS EDWARD, US
[72] PARDO, JANET, US
[71] ELC MANAGEMENT LLC, US
[85] 2020-08-10
[86] 2019-02-08 (PCT/US2019/017295)
[87] (WO2019/160765)
[30] US (15/898,575) 2018-02-17

[21] **3,090,895**
[13] A1
[51] **Int.Cl. B65G 41/00 (2006.01) B65G 65/28 (2006.01)**
[25] EN
[54] **RADIAL STACKING CONVEYOR SYSTEM WITH FEEDER**
[54] **SYSTEME DE TRANSPORTEUR A EMPILEMENT RADIAL AVEC DISPOSITIF D'ACHEMINEMENT**
[72] FORKER, STEPHEN, US
[71] FORKER, STEPHEN, US
[85] 2020-08-10
[86] 2019-02-12 (PCT/US2019/017619)
[87] (WO2019/160848)
[30] US (62/629,933) 2018-02-13

[21] **3,090,988**
[13] A1
[51] **Int.Cl. G06F 21/00 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AN AUTHENTICATION OF A USER**
[54] **SYSTEME ET PROCEDE D'AUTHENTIFICATION D'UN UTILISATEUR**
[72] JAISINGHANI, RAHUL, IN
[72] JAISINGHANI, DINESH, IN
[71] JAISINGHANI, RAHUL, IN
[71] JAISINGHANI, DINESH, IN
[85] 2020-06-04
[86] 2018-12-09 (PCT/IB2018/059803)
[87] (WO2019/123087)
[30] IN (201721045480) 2017-12-18

[21] **3,091,026**
[13] A1
[51] **Int.Cl. G06F 3/048 (2013.01)**
[25] EN
[54] **OBJECT CREATION WITH PHYSICAL MANIPULATION**
[54] **CREATION D'OBJET AVEC MANIPULATION PHYSIQUE**
[72] ZURMOEHLE, TIM, US
[72] MONTOYA, ANDREA ISABEL, US
[72] MACDONALD, ROBERT JOHN CUMMINGS, US
[72] GROTH, SAKINA, US
[72] MAK, GENEVIEVE, US
[71] MAGIC LEAP, INC., US
[85] 2020-08-10
[86] 2019-02-21 (PCT/US2019/018920)
[87] (WO2019/165044)
[30] US (62/634,007) 2018-02-22
[30] US (62/665,251) 2018-05-01

[21] **3,091,028**
[13] A1
[51] **Int.Cl. F21V 5/00 (2018.01) F21V 5/04 (2006.01) G02B 26/00 (2006.01) G02B 26/08 (2006.01) G02B 27/09 (2006.01)**
[25] EN
[54] **REFRACTIVE LENS ARRAY ASSEMBLY**
[54] **ENSEMBLE RESEAU DE LENTILLES DE REFRACTION**
[72] DAVID, JESURUN, US
[71] AMERICAN STERILIZER COMPANY, US
[85] 2020-08-10
[86] 2019-02-19 (PCT/US2019/018452)
[87] (WO2019/164784)
[30] US (62/633,320) 2018-02-21
[30] US (16/278,301) 2019-02-18

[21] **3,091,041**
[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 45/06 (2006.01) C07D 277/04 (2006.01) C07D 471/02 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **PROTEIN ARGININE METHYLTRANSFERASE 5 (PRMT5) DEGRADATION / DISRUPTION COMPOUNDS AND METHODS OF USE**
[54] **COMPOSES DE DEGRADATION/PERTURBATION DE LA PROTEINE ARGININE METHYLTRANSFERASE 5 (PRMT5) ET METHODES D'UTILISATION**
[72] JIN, JIAN, US
[72] LIU, JING, US
[72] SHEN, YUDAO, US
[72] GUCCIONE, ERNESTO, US
[72] WALSH, MARTIN, US
[72] BOSCH, ALMUDENA, US
[72] SCHWARZ, MEGAN, US
[71] ICHAN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2020-08-10
[86] 2019-02-22 (PCT/US2019/019123)
[87] (WO2019/165189)
[30] US (62/634,039) 2018-02-22

[21] **3,091,043**
[13] A1
[51] **Int.Cl. B01D 61/58 (2006.01) C02F 1/44 (2006.01) C02F 1/46 (2006.01) C02F 1/469 (2006.01)**
[25] EN
[54] **REGULATION OF PROCESS STREAM COMPOSITION FOR IMPROVED ELECTROLYZER PERFORMANCE**
[54] **REGULATION DE COMPOSITION DE FLUX DE TRAITEMENT POUR AMELIORER LES PERFORMANCES D'UN ELECTROLYSEUR**
[72] GRIFFIS, JOSHUA, US
[72] DUKES, SIMON P., US
[72] LIANG, LI-SHIANG, US
[72] DALE, DARREN, US
[72] SHAW, MICHAEL J., US
[72] BEDDOES, PAUL, US
[72] GU, GEORGE Y., US
[71] EVOQUA WATER TECHNOLOGIES LLC, US
[85] 2020-08-10
[86] 2019-02-27 (PCT/US2019/019796)
[87] (WO2019/168955)
[30] US (62/635,731) 2018-02-27

[21] **3,091,044**
[13] A1
[51] **Int.Cl. B60N 2/80 (2018.01) B60R 7/08 (2006.01) B60R 11/02 (2006.01)**
[25] EN
[54] **APPARATUS TO AFFIX ELECTRONIC DEVICES TO VEHICLE HEADREST**
[54] **APPAREIL POUR FIXER DES DISPOSITIFS ELECTRONIQUES A UN APPUI-TETE DE VEHICULE**
[72] SHAIN, MICHAEL, US
[71] SHAIN, MICHAEL, US
[85] 2020-08-11
[86] 2019-02-14 (PCT/US2019/017963)
[87] (WO2019/161024)
[30] US (62/630,710) 2018-02-14

[21] **3,091,047**
[13] A1
[51] **Int.Cl. C12P 21/00 (2006.01) A61K 47/68 (2017.01) A61K 38/17 (2006.01) A61P 29/00 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR MODULATION OF A TREM OR TREML PROTEIN AND METHODS OF USE**
[54] **COMPOSITIONS POUR LA MODULATION D'UNE PROTEINE TREM OU TREML ET PROCEDES D'UTILISATION**
[72] WANG, ANDREW, US
[72] LIU, WENJUN, US
[72] RING, AARON, US
[71] YALE UNIVERSITY, US
[85] 2020-08-11
[86] 2019-02-14 (PCT/US2019/018044)
[87] (WO2019/161080)
[30] US (62/630,333) 2018-02-14
[30] US (62/771,730) 2018-11-27

[21] **3,091,051**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01)**
[25] EN
[54] **COMPACT BODY SCANNER**
[54] **SCANNER CORPOREL COMPACT**
[72] SMITH, STEVEN WINN, US
[71] TEK84 INC., US
[85] 2020-07-10
[86] 2019-01-11 (PCT/US2019/013369)
[87] (WO2019/140317)
[30] US (62/709,213) 2018-01-11

[21] **3,091,062**
[13] A1
[51] **Int.Cl. A61F 5/453 (2006.01)**
[25] EN
[54] **DEVICES AND SYSTEMS FOR URINE COLLECTION**
[54] **DISPOSITIFS ET SYSTEMES DE COLLECTE D'URINE**
[72] ECKLUND, BRIAN J., US
[72] SEXTON, KRISTIN M., US
[72] KEA, ALEX D., US
[72] ULREICH, DANIEL R., US
[71] SAGE PRODUCTS, LLC, US
[85] 2020-08-11
[86] 2019-02-14 (PCT/US2019/018061)
[87] (WO2019/161094)
[30] US (62/630,561) 2018-02-14
[30] US (62/735,686) 2018-09-24
[30] US (62/770,734) 2018-11-21

[21] **3,091,066**
[13] A1
[51] **Int.Cl. B29C 44/12 (2006.01) B29C 51/10 (2006.01) B29C 69/02 (2006.01) B65D 43/14 (2006.01) E04H 4/00 (2006.01) E04H 4/08 (2006.01)**
[25] EN
[54] **COVER FOR A SPA AND METHOD OF FABRICATING A COVER FOR A SPA**
[54] **COUVERTURE POUR PISCINE THERMALE ET PROCEDE DE FABRICATION DE COUVERTURE POUR PISCINE THERMALE**
[72] SPICER, WADE, US
[72] WOODS, CHARLES, US
[71] STRONG INDUSTRIES, INC., US
[85] 2020-08-11
[86] 2019-02-15 (PCT/US2019/018243)
[87] (WO2019/161223)
[30] US (62/630,887) 2018-02-15

[21] **3,091,071**
[13] A1
[51] **Int.Cl. A61B 17/02 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE FOR ACCESSING THE CENTRAL NERVOUS SYSTEM**
[54] **DISPOSITIF MEDICAL POUR ACCEDER AU SYSTEME NERVEUX CENTRAL**
[72] BROWN, COREY DANIEL, US
[72] EVANS, DON WILLIAM ELDON, US
[72] HAARSTAD, PHILIP JON, US
[72] NELSON, BRIAN DALE, US
[71] MINNETRONIX NEURO, INC., US
[85] 2020-08-11
[86] 2019-02-15 (PCT/US2019/018354)
[87] (WO2019/161305)
[30] US (62/631,339) 2018-02-15
[30] US (62/703,180) 2018-07-25
[30] US (62/734,043) 2018-09-20

[21] **3,091,106**
[13] A1
[51] **Int.Cl. B23K 26/06 (2014.01) G01V 99/00 (2009.01) B23K 26/402 (2014.01) B23K 26/38 (2014.01) B23K 31/12 (2006.01) E21B 43/11 (2006.01) E21B 49/02 (2006.01) G01N 33/24 (2006.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD, ONE OR MORE NON-TRANSITORY COMPUTER READABLE STORAGE MEDIA AND COMPUTER-IMPLEMENTED SYSTEM FOR NUMERICAL MODELING OF LASER PERFORATING PROCESS IN A GIVEN ROCK SAMPLE**
[54] **PROCEDE A IMPLEMENTATION INFORMATIQUE, AU MOINS UN SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR, NON TRANSITOIRE ET SYSTEME A IMPLEMENTATION INFORMATIQUE POUR MODELISATION NUMERIQUEDE PROCESSUS DE PERFORATION AU LASER DANS UN ECHANTILLON DE ROCHE DONNE**
[72] HAN, YANHUI, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-08-11
[86] 2019-02-19 (PCT/US2019/018469)
[87] (WO2019/161351)

[21] **3,091,110**
[13] A1
[51] **Int.Cl. A61L 27/52 (2006.01) A61K 38/01 (2006.01) A61L 26/00 (2006.01) A61L 27/14 (2006.01) A61L 27/36 (2006.01)**
[25] EN
[54] **HIGH CONCENTRATION HYDROGELS AND RELATED METHODS**
[54] **HYDROGELS A HAUTE CONCENTRATION ET PROCEDES ASSOCIES**
[72] PROVONCHEE, RICHARD, US
[72] BURTT, RICHARD, US
[71] ADVANCED AESTHETIC TECHNOLOGIES, INC., US
[85] 2020-08-11
[86] 2019-02-20 (PCT/US2019/018752)
[87] (WO2019/164931)
[30] US (62/632,690) 2018-02-20

[21] **3,091,112**
[13] A1
[51] **Int.Cl. H05K 7/20 (2006.01)**
[25] EN
[54] **IMMERSION COOLING TEMPERATURE CONTROL METHOD, SYSTEM, AND APPARATUS**
[54] **PROCEDE, SYSTEME ET APPAREIL DE REGULATION DE TEMPERATURE DE REFROIDISSEMENT PAR IMMERSION**
[72] CHRISTIANSEN, MARTIN BROKNER, US
[72] CHOROSINSKI, LEONARD GEORGE, US
[72] HEFFNER, HARLAN CRAIG, US
[72] WAKAMIYA, STANLEY KATSUYOSHI, US
[72] KIRKWOOD, KEITH R., US
[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2020-08-11
[86] 2019-02-20 (PCT/US2019/018766)
[87] (WO2019/173051)
[30] US (15/916,019) 2018-03-08

[21] **3,091,116**
[13] A1
[51] **Int.Cl. C12J 1/04 (2006.01)**
[25] EN
[54] **BUFFERED VINEGAR PRODUCTS WITH REDUCED COLOR, ODOR, AND FLAVOR AND METHODS OF PRODUCING THE SAME**
[54] **PRODUITS A BASE DE VINAIGRE TAMPONNE PRESENTANT UNE COULEUR, UNE ODEUR ET UN AROME REDUITS ET LEURS PROCEDES DE PRODUCTION**
[72] HULL, RICHARD S., US
[72] KIRMACI, BILAL, US
[72] TOLEDO, ROMEO, US
[72] TOLEDO, MO MUI, US
[71] KERRY LUXEMBOURG S.A.R.L., LU
[85] 2020-08-11
[86] 2019-02-20 (PCT/US2019/018837)
[87] (WO2019/164999)
[30] US (62/632,783) 2018-02-20
[30] US (16/280,989) 2019-02-20

[21] **3,091,139**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **DOSING FOR TREATMENT WITH IL-22 FC FUSION PROTEINS**
[54] **POSOLOGIE POUR UN TRAITEMENT AVEC DES PROTEINES DE FUSION IL-22 FC**
[72] KALO, MATTHEW, US
[72] LU, TIMOTHY, THEN-CHIOH, US
[72] SUKUMARAN, SIDDHARTH, US
[72] WANG, YEHONG, US
[72] DAY, PETER WILLIAM, US
[71] GENENTECH, INC., US
[85] 2020-08-11
[86] 2019-02-21 (PCT/US2019/019042)
[87] (WO2019/165140)
[30] US (62/633,534) 2018-02-21

[21] **3,091,174**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/12 (2006.01) A61K 47/26 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **B7-H4 ANTIBODY FORMULATIONS**
[54] **FORMULATIONS D'ANTICORPS B7-H4**
[72] QUAN, YONG, US
[72] HUANG, CHIN-YI, US
[72] GANDA, HARJEET SINGH, US
[71] FIVE PRIME THERAPEUTICS, INC., US
[85] 2020-08-12
[86] 2019-02-21 (PCT/US2019/018965)
[87] (WO2019/165077)
[30] US (62/633,537) 2018-02-21

[21] **3,091,190**
[13] A1
[51] **Int.Cl. H04N 19/503 (2014.01) H04N 19/107 (2014.01) H04N 19/117 (2014.01) H04N 19/147 (2014.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/46 (2014.01) H04N 19/82 (2014.01) H04N 19/85 (2014.01)**
[25] EN
[54] **IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION**
[54] **REDEFINITION D'IMAGES DANS UN CODAGE VIDEO A L'AIDE D'UNE OPTIMISATION DE DISTORSION DU TAUX DE CODAGE**
[72] YIN, PENG, US
[72] PU, FANGJUN, US
[72] LU, TAORAN, US
[72] CHEN, TAO, US
[72] HUSAK, WALTER J., US
[72] MCCARTHY, SEAN THOMAS, US
[71] DOLBY LABORATORIES LICENSING CORPORATION, US
[85] 2020-08-12
[86] 2019-02-13 (PCT/US2019/017891)
[87] (WO2019/160986)
[30] US (62/630,385) 2018-02-14
[30] US (62/691,366) 2018-06-28
[30] US (62/726,608) 2018-09-04
[30] US (62/739,402) 2018-10-01
[30] US (62/772,228) 2018-11-28
[30] US (62/782,659) 2018-12-20
[30] US (62/792,122) 2019-01-14

[21] **3,091,198**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/18 (2006.01) A61K 38/36 (2006.01) A61K 38/38 (2006.01) A61K 38/39 (2006.01) A61K 49/00 (2006.01)**
[25] EN
[54] **MORPHOGENIC COMPOUND-RELEASING MICROSPHERES AND USE IN BIOINK**
[54] **MICROSPHERES LIBERANT UN COMPOSE MORPHOGENIQUE ET UTILISATION DANS UNE BIOENCRE**
[72] AGBAY, ANDREW, CA
[72] DE LA VEGA, LAURA, CA
[72] WILLERTH, STEPHANIE MICHELLE, CA
[71] UVIC INDUSTRY PARTNERSHIPS, INC., CA
[85] 2020-08-12
[86] 2019-02-22 (PCT/US2019/019283)
[87] (WO2019/165300)

[21] **3,091,202**
[13] A1
[51] **Int.Cl. C07D 311/58 (2006.01) A61K 31/352 (2006.01) A61K 31/4025 (2006.01) A61K 31/41 (2006.01) A61K 31/4245 (2006.01) A61K 31/4439 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61P 3/10 (2006.01) A61P 11/06 (2006.01) A61P 17/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **CHROMENE DERIVATIVES AS INHIBITORS OF TCR-NCK INTERACTION**
[54] **DERIVES DE CHROMENE EN TANT QU'INHIBITEURS DE L'INTERACTION TCR-NCK**
[72] CASTRO, JULIO, ES
[72] GAGETE MATEOS, ANDRES, ES
[72] MACHIN, PETER J., GB
[72] VANDEUSEN, CHRISTOPHER LOREN, US
[71] ARTAX BIOPHARMA INC., US
[85] 2020-08-12
[86] 2019-02-27 (PCT/US2019/019856)
[87] (WO2019/169001)
[30] US (62/635,834) 2018-02-27

[21] **3,091,209**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/024 (2006.01) A61B 5/04 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MODULATING PHYSIOLOGICAL STATE**
[54] **SYSTEMES ET PROCEDES DE MODULATION D'ETAT PHYSIOLOGIQUE**
[72] PORGES, STEPHEN, US
[71] POLYVAGAL SCIENCE LLC, US
[85] 2020-08-12
[86] 2019-03-01 (PCT/US2019/020202)
[87] (WO2019/169220)
[30] US (62/637,251) 2018-03-01

[21] **3,091,212**
[13] A1
[51] **Int.Cl. G01S 7/35 (2006.01) G01S 13/00 (2006.01)**
[25] EN
[54] **SYMMETRICAL MULTISTATIC RADAR CONSTELLATION FOR EARTH OBSERVATION**
[54] **CONSTELLATION RADAR MULTISTATIQUE SYMETRIQUE POUR OBSERVATION DE LA TERRE**
[72] YUNCK, THOMAS PATRICK, US
[71] GEOOPTICS, INC., US
[85] 2020-08-12
[86] 2019-03-01 (PCT/US2019/020328)
[87] (WO2019/173149)
[30] US (15/912,041) 2018-03-05

[21] **3,091,214**
[13] A1
[51] **Int.Cl. A23D 9/02 (2006.01) A23L 5/40 (2016.01)**
[25] EN
[54] **METHODS FOR BLEACHING PHOSPHOLIPID COMPOSITIONS**
[54] **PROCEDES DE BLANCHIMENT DE COMPOSITIONS DE PHOSPHOLIPIDES**
[72] DE SOUZA, JEAN RICARDO, US
[72] MACHADO, ROGERIO PEREIRA, US
[71] BUNGE GLOBAL INNOVATION, LLC, US
[85] 2020-08-12
[86] 2019-03-05 (PCT/US2019/020689)
[87] (WO2019/173292)
[30] US (62/639,048) 2018-03-06

[21] **3,091,215**
[13] A1
[51] **Int.Cl. C07K 14/50 (2006.01) A61K 38/18 (2006.01) A61P 19/04 (2006.01) A61P 39/00 (2006.01) C07K 7/08 (2006.01) C07K 14/475 (2006.01)**
[25] EN
[54] **FIBROBLAST GROWTH FACTOR ANALOGS AND USES THEREOF**
[54] **ANALOGUES DU FACTEUR DE CROISSANCE DES FIBROBLASTES ET LEURS UTILISATIONS**
[72] OKUNIEFF, PAUL GERSON, US
[72] SWARTS, STEVEN G., US
[72] ZHANG, ZHENHUAN, US
[72] ZHANG, STEVEN BINGRONG, US
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, US
[85] 2020-08-12
[86] 2019-02-13 (PCT/US2019/017790)
[87] (WO2019/160910)
[30] US (62/629,722) 2018-02-13

[21] **3,091,217**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-TISSUE FACTOR ANTIBODY-DRUG CONJUGATES AND THEIR USE IN THE TREATMENT OF CANCER**
[54] **CONJUGUES DE MEDICAMENT ET D'ANTICORPS ANTI-FACTEUR TISSULAIRE, ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**
[72] RANGWALA, RESHMA ABDULLA, US
[72] BREIJ, ESTHER, NL
[72] SATIJN, DAVID, NL
[72] VERPLOEGEN, SANDRA, NL
[72] BAKEMA, JANTINE, NL
[72] ABIDOYE, OYEWALE O., US
[72] NICACIO, LEONARDO VIANA, US
[72] LINGNAU, ANDREAS, NL
[71] GENMAB A/S, DK
[85] 2020-08-12
[86] 2019-03-06 (PCT/US2019/021024)
[87] (WO2019/173523)
[30] US (62/639,891) 2018-03-07
[30] US (62/736,343) 2018-09-25

[21] **3,091,224**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **USE OF CD33CAR MODIFIED HIGH AFFINITY NK CELLS (T-HANK) TO REDUCE MYELOID-DERIVED SUPPRESSOR CELLS SUPPRESSOR ACTIVITY (OR REDUCE NEGATIVE IMPACT ON NK CELL ACTIVITY)**
[54] **UTILISATION DE CELLULES NK A HAUTE AFFINITE MODIFIEES PAR CD33CAR (T-HANK) POUR REDUIRE L'ACTIVITE SUPPRESSIVE DE CELLULES SUPPRESSIVES D'ORIGINE MYELOIDE (OU REDUIRE L'IMPACT NEGATIF SUR L'ACTIVITE DES CELLULES NK)**
[72] SOON-SHIONG, PATRICK, US
[72] KLINGEMANN, HANS G., US
[72] BOISSEL, LAURENT H., US
[72] CHINNAPEN, HIMANI, US
[72] DANDAPAT, ABHIJIT, US
[71] NANTKWEST, INC., US
[85] 2020-08-12
[86] 2019-03-11 (PCT/US2019/021647)
[87] (WO2019/177986)
[30] US (62/641,915) 2018-03-12

[21] **3,091,227**
[13] A1
[51] **Int.Cl. A61F 2/44 (2006.01) A61B 17/02 (2006.01) A61F 2/46 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **MODULAR ADJUSTABLE CORPECTOMY CAGE**
[54] **CAGE DE CORPORECTOMIE REGLABLE MODULAIRE**
[72] ULLRICH, JR., PETER F., US
[72] KENNEDY, ERIC, US
[72] TURNER, CHARLES J., US
[71] TITAN SPINE, INC., US
[85] 2020-08-13
[86] 2019-02-14 (PCT/US2019/017944)
[87] (WO2019/161014)
[30] US (62/630,488) 2018-02-14
[30] US (16/274,483) 2019-02-13

[21] **3,091,228**
[13] A1
[51] **Int.Cl. C12N 15/67 (2006.01) C12N 9/22 (2006.01) C12N 15/70 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS**
[54] **PLATEFORME HTP POUR INGENIERIE GENETIQUE DE CELLULES D'OVAIRE DE HAMSTER CHINOIS**
[72] CAVES, KATE, US
[72] SINGH, AMAR, US
[71] ZYMERGEN INC., US
[85] 2020-08-12
[86] 2019-03-20 (PCT/US2019/023106)
[87] (WO2019/183183)
[30] US (62/645,708) 2018-03-20

[21] **3,091,231**
[13] A1
[51] **Int.Cl. C12N 9/12 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **MODULATING LACTOGENIC ACTIVITY IN MAMMALIAN CELLS**
[54] **MODULATION DE L'ACTIVITE LACTOGENE DANS DES CELLULES DE MAMMIFERES**
[72] MISAGHI, SHAHRAM, US
[72] SHIRATORI, MASARU KEN, US
[72] SNEDECOR, BRADLEY RICHARD, US
[72] LAIRD, MICHAEL W., US
[71] GENENTECH, INC., US
[85] 2020-08-12
[86] 2019-03-29 (PCT/US2019/024774)
[87] (WO2019/191552)
[30] US (62/649,963) 2018-03-29

[21] **3,091,235**
[13] A1
[51] **Int.Cl. H01R 13/46 (2006.01) G02B 6/38 (2006.01)**
[25] EN
[54] **INDICIA AND METHOD FOR IDENTIFYING TELECOMMUNICATIONS COMPONENTS**
[54] **INDICES ET PROCEDE PERMETTANT D'IDENTIFIER DES COMPOSANTS DE TELECOMMUNICATIONS**
[72] GEENS, JOHAN, US
[72] BRYON, ROEL MODEST WILLY, US
[72] CAMS, EDDY LUC, US
[72] KEMPENEERS, DIRK, US
[72] LIEFSOENS, RONNIE ROSA GEORGES, US
[72] VERHEYDEN, DANNY WILLY AUGUST, US
[72] DECLERCK, THIERRY MIKE, US
[72] DOULTREMONT, PIETER, US
[72] COENEGRACHT, PHILIPPE, US
[71] COMMSCOPE TECHNOLOGIES LLC, US
[85] 2020-08-12
[86] 2019-03-29 (PCT/US2019/025022)
[87] (WO2019/191699)
[30] US (62/649,765) 2018-03-29
[30] US (62/727,807) 2018-09-06
[30] US (62/748,022) 2018-10-19
[30] US (PCT/US2018/062535) 2018-11-27

[21] **3,091,241**
[13] A1
[51] **Int.Cl. G10L 19/16 (2013.01) G10L 19/008 (2013.01) H04S 3/00 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR GENERATING OR DECODING A BITSTREAM COMPRISING IMMERSIVE AUDIO SIGNALS**
[54] **PROCEDES ET DISPOSITIFS POUR GENERER OU DECODER UN TRAIN DE BITS COMPRENANT DES SIGNAUX AUDIO IMMERSIFS**
[72] BRUHN, STEFAN, SE
[72] TORRES, JUAN FELIX, US
[71] DOLBY LABORATORIES LICENSING CORPORATION, US
[71] DOLBY INTERNATIONAL AB, NL
[85] 2020-08-12
[86] 2019-07-02 (PCT/US2019/040271)
[87] (WO2020/010064)
[30] US (62/693,246) 2018-07-02

[21] **3,091,246**
[13] A1
[51] **Int.Cl. G06N 10/00 (2019.01) B82Y 10/00 (2011.01)**
[25] EN
[54] **VARIATIONAL QUANTUM STATE PREPARATION**
[54] **PREPARATION A L'ETAT QUANTIQUE VARIATIONNEL**
[72] BABBUSH, RYAN, US
[72] KIVLICHAN, IAN DAVID, US
[71] GOOGLE LLC, US
[85] 2020-08-12
[86] 2019-08-07 (PCT/US2019/045412)
[87] (WO2020/033481)

[21] **3,091,248**
[13] A1
[51] **Int.Cl. G10L 19/008 (2013.01)**
[25] EN
[54] **TRANSFORMING AUDIO SIGNALS CAPTURED IN DIFFERENT FORMATS INTO A REDUCED NUMBER OF FORMATS FOR SIMPLIFYING ENCODING AND DECODING OPERATIONS**
[54] **TRANSFORMATION DE SIGNAUX AUDIO CAPTURES DANS DIFFERENTS FORMATS EN UN NOMBRE REDUIT DE FORMATS POUR SIMPLIFIER DES OPERATIONS DE CODAGE ET DE DECODAGE**
[72] BRUHN, STEFAN, SE
[72] ECKERT, MICHAEL, AU
[72] TORRES, JUAN FELIX, US
[72] BROWN, STEPHANIE, US
[72] MCGRATH, DAVID S., AU
[71] DOLBY LABORATORIES LICENSING CORPORATION, US
[71] DOLBY INTERNATIONAL AB, NL
[85] 2020-08-12
[86] 2019-10-07 (PCT/US2019/055009)
[87] (WO2020/076708)
[30] US (62/742,729) 2018-10-08

[21] **3,091,249**
[13] A1
[51] **Int.Cl. A61B 1/313 (2006.01) A61B 17/34 (2006.01) B01D 46/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR FILTERING**
[54] **APPAREIL ET PROCEDE DE FILTRAGE**
[72] SHVETSOV, KYRYLO, US
[72] PEPE, GREGORY, US
[72] BONANO, SAMANTHA, US
[71] BUFFALO FILTER LLC, US
[85] 2020-08-12
[86] 2019-11-21 (PCT/US2019/062636)
[87] (WO2020/106970)
[30] US (62/770,486) 2018-11-21

[21] **3,091,250**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/47 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **NON-VIRAL DNA VECTORS AND USES THEREOF FOR ANTIBODY AND FUSION PROTEIN PRODUCTION**
[54] **VECTEURS D'ADN NON VIRAUX ET UTILISATIONS ASSOCIEES POUR LA PRODUCTION D'ANTICORPS ET DE PROTEINES DE FUSION**
[72] ALKAN, OZAN, US
[72] KERR, DOUGLAS ANTHONY, US
[72] KOTIN, ROBERT MICHAEL, US
[72] KLATTE, DEBRA, US
[72] LIU, LEAH, US
[72] SILVER, NATHANIEL, US
[71] GENERATION BIO CO., US
[85] 2020-08-13
[86] 2019-02-14 (PCT/US2019/018016)
[87] (WO2019/161059)
[30] US (62/630,670) 2018-02-14
[30] US (62/630,676) 2018-02-14
[30] US (62/680,087) 2018-06-04
[30] US (62/680,092) 2018-06-04

[21] **3,091,251**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) A01G 7/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR IMPROVING CROP YIELDS THROUGH TRAIT STACKING**
[54] **COMPOSITIONS ET PROCEDES POUR AMELIORER LE RENDEMENT DES RECOLTES PAR EMPILEMENT DE CARACTERES**
[72] ALVES-JUNIOR, LEONARDO, DE
[72] BRUCE, WESLEY B., US
[72] DIETRICH, CHARLES R., US
[72] IVLEVA, NATALIA, US
[72] KIANI, KIAN, US
[72] RAPP, RYAN, US
[72] SLEWINSKI, THOMAS L., US
[71] MONSANTO TECHNOLOGY LLC, US
[71] BASF PLANT SCIENCE LP, US
[71] BASF PLANT SCIENCE COMPANY GMBH, DE
[85] 2020-08-13
[86] 2019-02-15 (PCT/US2019/018130)
[87] (WO2019/161146)
[30] US (62/631,344) 2018-02-15

[21] **3,091,253**
[13] A1
[51] **Int.Cl. A01H 1/00 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) C12N 15/82 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR IMPROVING CROP YIELDS THROUGH TRAIT STACKING**
[54] **COMPOSITIONS ET PROCEDES POUR AMELIORER LE RENDEMENT DES RECOLTES PAR EMPILEMENT DES CARACTERES**
[72] ALVES-JUNIOR, LEONARDO, DE
[72] BRUCE, WESLEY B., US
[72] CHITTOOR, JAISHREE, US
[72] DIETRICH, CHARLES R., US
[72] IVLEVA, NATALIA, US
[72] LI, HONG, US
[72] SLEWINSKI, THOMAS L., US
[72] WU, XIAOYUN, US
[71] MONSANTO TECHNOLOGY LLC, US
[71] BASF PLANT SCIENCE COMPANY GMBH, DE
[71] BASF PLANT SCIENCE LP, US
[85] 2020-08-13
[86] 2019-02-15 (PCT/US2019/018132)
[87] (WO2019/161148)
[30] US (62/631,321) 2018-02-15

[21] **3,091,255**
[13] A1
[51] **Int.Cl. A61H 3/00 (2006.01) A61F 5/02 (2006.01) A61H 1/02 (2006.01) B25J 9/00 (2006.01)**
[25] EN
[54] **WEARABLE DEVICES FOR PROTECTING AGAINST MUSCULOSKELETAL INJURIES AND ENHANCING PERFORMANCE**
[54] **DISPOSITIFS PORTABLES DESTINES A LA PROTECTION CONTRE LES LESIONS MUSCULOSQUELETTIQUES ET D'AMELIORATION DE LA PERFORMANCE**
[72] BUJANDA, IGNACIO GALIANA, US
[72] WALSH, CONOR J., US
[72] ROULEAU, MICHAEL, US
[72] CHUNG, JINWON, US
[72] MOSER, TIM-FABIAN, DE
[72] DING, YE, US
[72] NATHANSON, DANIELLE L., US
[72] MENARD, NICOLAS P., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2020-08-13
[86] 2019-02-15 (PCT/US2019/018258)
[87] (WO2019/161232)
[30] US (62/631,666) 2018-02-17
[30] US (62/757,138) 2018-11-07

[21] **3,091,256**
[13] A1
[51] **Int.Cl. G06Q 50/18 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MONITORING, MAINTAINING AND UPGRADING A PROPERTY**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE, DE MAINTIEN ET DE MISE A NIVEAU D'UNE PROPRIETE**
[72] BENTLEY, ALFRED YOUNG, US
[72] MARTIN, GEOFFREY, US
[71] VIPHOMELINK, LLC, US
[85] 2020-08-13
[86] 2019-02-15 (PCT/US2019/018289)
[87] (WO2019/161255)
[30] US (62/631,014) 2018-02-15
[30] US (16/276,544) 2019-02-14

[21] **3,091,258**
[13] A1
[51] **Int.Cl. A01N 37/16 (2006.01) A01N 25/24 (2006.01) A01N 37/36 (2006.01) A01N 43/40 (2006.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01) A23B 4/20 (2006.01) A23B 4/24 (2006.01) A23L 3/34 (2006.01) A23L 3/3463 (2006.01) A23L 3/358 (2006.01) A61L 2/16 (2006.01)**
[25] EN
[54] **THIXOTROPIC ANTIMICROBIAL COMPOSITION**
[54] **COMPOSITION ANTIMICROBIENNE THIXOTROPE**
[72] MARSH, DAVID, US
[72] PERRY, LINDSEY, US
[72] PAGAN, ORLANDO, US
[72] FRY, SLATON, US
[72] COLEMAN, TODD, US
[71] SAFE FOODS CORPORATION, US
[85] 2020-08-13
[86] 2019-02-15 (PCT/US2019/018337)
[87] (WO2019/161291)
[30] US (62/710,422) 2018-02-16

[21] **3,091,259**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/16 (2006.01) A61K 31/20 (2006.01)**
[25] EN
[54] **SUSTAINED RELEASE FORMULATIONS OF BEMPEDOIC ACID**
[54] **FORMULATIONS A LIBERATION PROLONGEE D'ACIDE BEMPEDOIQUE**
[72] LALWANI, NARENDRA DHANRAJ, US
[72] ABDELNASSER, MOHAMED, US
[72] PINKOSKY, STEPHEN LAWRENCE, US
[72] CRAMER, CLAY THOMAS, US
[71] ESPERION THERAPEUTICS, INC., US
[85] 2020-08-13
[86] 2019-02-15 (PCT/US2019/018356)
[87] (WO2019/161307)
[30] US (62/710,417) 2018-02-16
[30] US (62/774,083) 2018-11-30

[21] **3,091,263**
[13] A1
[51] **Int.Cl. F16L 59/065 (2006.01) E06B 3/677 (2006.01) F16L 59/02 (2006.01)**
[25] EN
[54] **DYNAMIC MULTI-PANE INSULATING ASSEMBLY AND SYSTEM**
[54] **ENSEMBLE ET SYSTEME D'ISOLATION MULTI-VITRES DYNAMIQUE**
[72] ELIAS, CHRISTIAN MICHAEL, US
[72] KATTMANN, THOMAS TYLER, US
[72] PRICE, CHRISTOPHER RYAN, US
[71] KATTMANN ELIAS, LLC, US
[85] 2020-08-13
[86] 2019-02-19 (PCT/US2019/018483)
[87] (WO2019/161357)
[30] US (62/632,077) 2018-02-19

[21] **3,091,264**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) A61L 9/20 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **PORTABLE AND DISPOSABLE FAR-UVC DEVICE**
[54] **DISPOSITIF PORTATIF ET JETABLE A UVC LOINTAIN**
[72] ROSEN, JENNIFER K., US
[72] FEENEY, BENJAMIN X., US
[71] FREESTYLE PARTNERS, LLC, US
[85] 2020-08-13
[86] 2019-02-19 (PCT/US2019/018517)
[87] (WO2019/164810)
[30] US (62/632,716) 2018-02-20
[30] US (62/694,482) 2018-07-06

[21] **3,091,265**
[13] A1
[51] **Int.Cl. G06F 9/30 (2018.01) G06F 13/28 (2006.01)**
[25] EN
[54] **PROGRAMMABLE COMPUTER IO DEVICE INTERFACE**
[54] **INTERFACE E/S PROGRAMMABLE DE DISPOSITIF INFORMATIQUE**
[72] GALLES, MICHAEL BRIAN, US
[72] SMITH, J. BRADLEY, US
[72] VINCHURE, HEMANT, US
[71] PENSANDO SYSTEMS INC., US
[85] 2020-08-13
[86] 2019-02-19 (PCT/US2019/018544)
[87] (WO2019/164827)
[30] US (62/634,090) 2018-02-22

[21] **3,091,266**
[13] A1
[51] **Int.Cl. B06B 1/16 (2006.01)**
[25] EN
[54] **ECCENTRIC VIBRATOR SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE VIBRATEUR EXCENTRIQUE**
[72] KIRSCH, RAYMOND M., US
[72] HOZDIC, JOSEPH, US
[71] DERRICK CORPORATION, US
[85] 2020-08-13
[86] 2019-02-19 (PCT/US2019/018619)
[87] (WO2019/161405)
[30] US (62/632,348) 2018-02-19

[21] **3,091,267**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **NOVEL CAS9 ORTHOLOGS**
[54] **NOUVEAUX ORTHOLOGUES DE CAS9**
[72] HOU, ZHENGLIN, US
[72] YOUNG, JOSHUA K., US
[72] GASIUNAS, GIEDRIUS, LT
[72] SIKSNYS, VIRGINIJUS, LT
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2020-08-13
[86] 2019-02-22 (PCT/US2019/019086)
[87] (WO2019/165168)
[30] US (62/634,257) 2018-02-23
[30] US (62/651,991) 2018-04-03

[21] **3,091,269**
[13] A1
[51] **Int.Cl. G16H 40/63 (2018.01) G06T 19/00 (2011.01) A61B 8/00 (2006.01) G09G 5/00 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR TELE-MEDICINE**
[54] **PROCEDES ET APPAREIL DE TELEMEDECINE**
[72] ZASLAVSKY, MAXIM, US
[72] DE JONGE, MATTHEW, US
[72] GAFNER, TOMER, US
[72] DUFFY, EAMON, US
[72] ROTHBERG, JONATHAN M., US
[71] BUTTERFLY NETWORK, INC., US
[85] 2020-08-13
[86] 2019-02-26 (PCT/US2019/019551)
[87] (WO2019/168832)
[30] US (62/636,127) 2018-02-27
[30] US (62/646,333) 2018-03-21

[21] **3,091,270**
[13] A1
[51] **Int.Cl. A61B 1/00 (2006.01)**
[25] EN
[54] **ENDOSCOPIC DEVICES AND RELATED METHODS**
[54] **DISPOSITIFS ENDOSCOPIQUES ET PROCEDES ASSOCIES**
[72] PODPOLUCHA, JAMES F., US
[72] FARRINGTON, RICHARD I., US
[71] COOPERSURGICAL, INC., US
[85] 2020-08-13
[86] 2019-03-13 (PCT/US2019/022117)
[87] (WO2019/194945)
[30] US (62/652,485) 2018-04-04
[30] US (62/727,017) 2018-09-05

[21] **3,091,272**
[13] A1
[51] **Int.Cl. A61B 17/11 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **FLOW CONTROL VALVE**
[54] **SOUPAPE DE REGULATION DE DEBIT**
[72] WALSH, MICHAEL, IE
[72] CURRAN, DARREN, IE
[72] VAN DER KOOIJ, OTTO, IE
[72] TUCK, DANIEL, IE
[72] PALOMAR-MORENO, JAVIER, IE
[72] GRAY, JEFF, US
[72] FOLAN, MARTYN, IE
[72] MOONEY, EMMA J., IE
[72] HANNON, ENDA, IE
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2020-08-13
[86] 2019-03-22 (PCT/US2019/023592)
[87] (WO2019/190917)
[30] US (62/650,068) 2018-03-29

[21] **3,091,275**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/52 (2006.01)**
[25] EN
[54] **RAZOR HANDLE WITH A PIVOTING PORTION**
[54] **MANCHE DE RASOIR COMPRENANT UNE PARTIE ROTATIVE**
[72] FONTECCHIO, MARCO, US
[72] MCNALLY, PATRICK FRANCIS, US
[72] VEUGEN, ZACHARY OLIVER, US
[72] VERASAMY, MICHAEL TEIPAUL, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-13
[86] 2019-03-25 (PCT/US2019/023835)
[87] (WO2019/190961)
[30] US (62/650,295) 2018-03-30

[21] **3,091,276**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/52 (2006.01)**
[25] EN
[54] **RAZOR HANDLE WITH A PIVOTING PORTION**
[54] **MANCHE DE RASOIR AYANT UNE PARTIE PIVOTANTE**
[72] MCNALLY, PATRICK FRANCIS, US
[72] VEUGEN, ZACHARY OLIVER, US
[72] VERASAMY, MICHAEL TEIPAUL, US
[72] FONTECCHIO, MARCO, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-13
[86] 2019-03-25 (PCT/US2019/023836)
[87] (WO2019/190962)
[30] US (62/650,296) 2018-03-30

[21] **3,091,277**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/52 (2006.01)**
[25] EN
[54] **RAZOR HANDLE WITH A PIVOTING PORTION**
[54] **MANCHE DE RASOIR AYANT UNE PARTIE PIVOTANTE**
[72] MCNALLY, PATRICK FRANCIS, US
[72] VEUGEN, ZACHARY OLIVER, US
[72] VERASAMY, MICHAEL TEIPAUL, US
[72] FONTECCHIO, MARCO, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-13
[86] 2019-03-25 (PCT/US2019/023837)
[87] (WO2019/190963)
[30] US (62/650,297) 2018-03-30

[21] **3,091,279**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/40 (2006.01)**
[25] EN
[54] **SHAVING RAZOR SYSTEM INCLUDING SKIN INTERCONNECT MEMBER**
[54] **SYSTEME DE RASAGE COMPRENANT UN ELEMENT D'INTERCONNEXION AVEC LA PEAU**
[72] PATEL, ASHOK BAKUL, US
[72] JOHNSON, ROBERT HAROLD, US
[72] WASHINGTON, JACK ANTHONY, US
[72] BRUNO, MICHAEL HAL, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-13
[86] 2019-03-25 (PCT/US2019/023840)
[87] (WO2019/190966)
[30] US (62/650,291) 2018-03-30

[21] **3,091,280**
[13] A1
[51] **Int.Cl. C09K 5/20 (2006.01) B01F 15/00 (2006.01) F25B 17/10 (2006.01)**
[25] EN
[54] **FREEZE POINT SUPPRESSION CYCLE CONTROL SYSTEMS, METHODS, AND DEVICES**
[54] **SYSTEMES, PROCEDES ET DISPOSITIFS DE REGULATION DE CYCLE DE SUPPRESSION DE POINT DE CONGELATION**
[72] GOLDFARBMUREN, RUSSELL, US
[72] ERICKSON, LUKE, US
[72] NELSON, JOSH, US
[71] REBOUND TECHNOLOGIES, INC., US
[85] 2020-08-13
[86] 2019-02-23 (PCT/US2019/019323)
[87] (WO2019/165328)
[30] US (62/634,461) 2018-02-23

[21] **3,091,281**
[13] A1
[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/02 (2006.01) A63B 21/04 (2006.01) A63B 22/04 (2006.01)**
[25] EN
[54] **COIL SPRING ANCHOR RING RETAINER DEVICE**
[54] **DISPOSITIF DE RETENUE D'ANNEAU D'ANCRAGE DE RESSORT HELICOIDAL**
[72] ENDELMAN, KEN, US
[72] SPELMAN, KIT W., US
[71] BALANCED BODY, INC., US
[85] 2020-08-13
[86] 2019-03-04 (PCT/US2019/020602)
[87] (WO2019/173239)
[30] US (15/915,461) 2018-03-08

[21] **3,091,282**
[13] A1
[51] **Int.Cl. A61B 17/29 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PERFORMING ENDOSCOPIC PROCEDURES**
[54] **SYSTEMES ET PROCEDES POUR EFFECTUER DES INTERVENTIONS ENDOSCOPIQUES**
[72] GUPTA, SAURAV V., US
[72] HAGEMEYER, CAMRON, US
[72] BARTHET, MARC A., FR
[72] GONZALEZ, JEAN-MICHEL, FR
[72] WEITZNER, BARRY, US
[72] BACON, DAN, US
[72] KEENE, KENNETH R., US
[72] GOLDEN, JOHN B., US
[72] BEAN, JEFFREY V., US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2020-08-13
[86] 2019-03-22 (PCT/US2019/023597)
[87] (WO2019/190918)
[30] US (62/650,075) 2018-03-29
[30] US (62/650,080) 2018-03-29

[21] **3,091,283**
[13] A1
[51] **Int.Cl. A01C 23/04 (2006.01) A01G 25/09 (2006.01) A01G 25/16 (2006.01) B05B 12/12 (2006.01) C05F 11/08 (2006.01)**
[25] EN
[54] **IRRIGATION SYSTEM FOR APPLYING APPLICANT HAVING A MICROBE CONCENTRATION TO ENHANCE CROP PRODUCTION**
[54] **SYSTEME D'IRRIGATION DESTINE A APPLIQUER UN AGENT D'APPLICATION AYANT UNE CONCENTRATION DE MICROBES POUR AMELIORER LA PRODUCTION DE PLANTES**
[72] LARUE, JACOB L., US
[71] VALMONT INDUSTRIES, INC., US
[85] 2020-08-13
[86] 2019-03-26 (PCT/US2019/024119)
[87] (WO2019/191130)
[30] US (62/649,619) 2018-03-29

[21] **3,091,284**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/40 (2006.01)**
[25] EN
[54] **SHAVING RAZOR CARTRIDGE**
[54] **CARTOUCHE DE RASOIR**
[72] JOHNSON, ROBERT HAROLD, US
[72] LONG, MATTHEW MICHAEL, US
[72] WASHINGTON, JACK ANTHONY, US
[72] VERASAMY, MICHAEL TEIPAUL, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-13
[86] 2019-03-28 (PCT/US2019/024450)
[87] (WO2019/191343)
[30] US (62/650,663) 2018-03-30

[21] **3,091,285**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/52 (2006.01)**
[25] EN
[54] **SHAVING RAZOR CARTRIDGE**
[54] **CARTOUCHE DE RASOIR**
[72] JOHNSON, ROBERT HAROLD, US
[72] WASHINGTON, JACK ANTHONY, US
[72] LONG, MATTHEW MICHAEL, US
[72] VERASAMY, MICHAEL TEIPAUL, US
[72] LI, AIQIN, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-13
[86] 2019-03-28 (PCT/US2019/024451)
[87] (WO2019/191344)
[30] US (62/650,663) 2018-03-30

[21] **3,091,286**
[13] A1
[51] **Int.Cl. H01Q 21/28 (2006.01) H01Q 1/24 (2006.01) H01Q 1/36 (2006.01) H01Q 1/38 (2006.01) H01Q 9/16 (2006.01) H01Q 21/00 (2006.01)**
[25] EN
[54] **DUAL-BAND ANTENNA WITH NOTCHED CROSS-POLARIZATION SUPPRESSION**
[54] **ANTENNE DOUBLE BANDE A SUPPRESSION DE POLARISATION CROISEE A ENCOCHES**
[72] MCGOUGH, ERIN, US
[72] LINDNER, SCOTT, US
[72] LUTMAN, THOMAS, US
[71] PC-TEL, INC., US
[85] 2020-08-13
[86] 2020-01-31 (PCT/US2020/016225)
[87] (WO2020/160479)
[30] US (16/265,449) 2019-02-01

[21] **3,091,287**
[13] A1
[51] **Int.Cl. C09C 1/36 (2006.01)**
[25] EN
[54] **STIR-IN TITANIUM DIOXIDE PIGMENT COMPOSITION**
[54] **COMPOSITION DE PIGMENT DE DIOXYDE DE TITANE A AJOUTER EN MELANGEANT**
[72] GOPARAJU, VENKATA RAMA RAO, US
[72] SU, QUAN, US
[71] TRONOX LLC, US
[85] 2020-08-14
[86] 2018-04-02 (PCT/US2018/025659)
[87] (WO2019/160568)
[30] US (15/897,126) 2018-02-14

[21] **3,091,288**
[13] A1
[51] **Int.Cl. E21B 31/107 (2006.01) E21B 33/12 (2006.01)**
[25] EN
[54] **DISLODGING TOOLS, SYSTEMS AND METHODS FOR USE WITH A SUBTERRANEAN WELL**
[54] **OUTILS DE DELOGEMENT, SYSTEMES ET PROCEDES DESTINES A ETRE UTILISES AVEC UN PUITS SOUTERRAIN**
[72] WATSON, BROCK W., US
[72] SCHULTZ, ROGER L., US
[72] KLIEWER, GREGORY A., US
[71] THRU TUBING SOLUTIONS, INC., US
[85] 2020-08-14
[86] 2018-12-26 (PCT/US2018/067571)
[87] (WO2019/168588)
[30] US (62/638,059) 2018-03-02

[21] **3,091,289**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01) H04W 24/00 (2009.01) H04W 24/10 (2009.01) H04W 72/04 (2009.01)**
[25] EN
[54] **USER EQUIPMENTS, BASE STATIONS AND METHODS**
[54] **EQUIPEMENTS UTILISATEUR, STATIONS DE BASE ET PROCEDES**
[72] AIBA, TATSUSHI, US
[72] YIN, ZHANPING, US
[72] YING, KAI, US
[71] FG INNOVATION COMPANY LIMITED, CN
[71] SHARP KABUSHIKI KAISHA, JP
[85] 2020-08-14
[86] 2019-01-24 (PCT/US2019/014925)
[87] (WO2019/160660)
[30] US (62/631,187) 2018-02-15

[21] **3,091,290**
[13] A1
[51] **Int.Cl. G06F 3/01 (2006.01) G06T 19/00 (2011.01) G06Q 50/06 (2012.01) G06F 3/0481 (2013.01) G02B 27/01 (2006.01)**
[25] EN
[54] **AUGMENTED REALITY (AR) DISPLAY OF PIPE INSPECTION DATA**
[54] **AFFICHAGE DE REALITE AUGMENTEE (AR) DE DONNEES D'INSPECTION DE TUYAU**
[72] KUENY, TODD, US
[72] STARR, JUSTIN, US
[72] RENTON, TIMOTHY, NZ
[72] VAN LERSEL, ANTONY, NZ
[71] REDZONE ROBOTICS, INC., US
[85] 2020-08-14
[86] 2019-01-31 (PCT/US2019/015933)
[87] (WO2019/152572)
[30] US (62/624,838) 2018-02-01

[21] **3,091,291**
[13] A1
[51] **Int.Cl. E21B 29/10 (2006.01) E21B 41/00 (2006.01) E21B 47/00 (2012.01)**
[25] EN
[54] **DOWNHOLE WELL INTEGRITY RECONSTRUCTION IN THE HYDROCARBON INDUSTRY**
[54] **RECONSTRUCTION DE L'INTEGRITE D'UN PUITS DE FOND DE TROU DANS L'INDUSTRIE DES HYDROCARBURES**
[72] ALJUBRAN, MOHAMMAD, SA
[72] ALBAHRANI, HUSSAIN, SA
[72] BATARSEH, SAMEEH ISSA, SA
[72] MOELLENDICK, TIMOTHY E., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-08-14
[86] 2019-02-11 (PCT/US2019/017441)
[87] (WO2019/164692)
[30] US (15/900,427) 2018-02-20

[21] **3,091,292**
[13] A1
[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/381 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **SALTS, CRYSTAL FORMS, AND PRODUCTION METHODS THEREOF**
[54] **SELS, FORMES CRISTALLINES ET PROCEDES DE PRODUCTION ASSOCIES**
[72] BAUER, ANDREA, US
[72] BHOGLE, NANDKUMAR NIVRITTI, US
[72] CHEN, XIAOXIA, US
[72] JAMZAD, SHAHLA, US
[72] PRYTKO, ROBERT JOSEPH, US
[72] SARANTEAS, KOSTAS, US
[72] WILKINSON, HAROLD SCOTT, US
[72] ZHANG, HAITAO, US
[71] SUNOVION PHARMACEUTICALS INC., US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018265)
[87] (WO2019/161238)
[30] US (62/710,416) 2018-02-16

[21] **3,091,293**
[13] A1
[51] **Int.Cl. G08B 21/02 (2006.01) F21S 8/00 (2006.01)**
[25] EN
[54] **BABY MONITOR ASSEMBLY**
[54] **ENSEMBLE MONITEUR POUR BEBE**
[72] NAPIORKOWSKI, STANISLAW, PL
[71] NAPIORKOWSKI, STANISLAW, PL
[85] 2020-08-13
[86] 2019-02-08 (PCT/EP2019/053198)
[87] (WO2019/162113)
[30] EP (18461521.9) 2018-02-23

[21] **3,091,294**
[13] A1
[51] **Int.Cl. B27N 1/00 (2006.01) B27K 3/02 (2006.01) B27N 3/04 (2006.01) B27N 3/18 (2006.01) B27N 3/12 (2006.01) B27N 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING WOOD FIBERBOARDS**
[54] **PROCEDE DE FABRICATION DE PANNEAUX DE FIBRES DE BOIS**
[72] LEIFELD, FERDINAND, DE
[72] BOTH, SABINE, DE
[72] FESSENBECKER, ACHIM, DE
[71] BASF SE, DE
[85] 2020-08-14
[86] 2019-02-12 (PCT/EP2019/053408)
[87] (WO2019/162145)
[30] EP (18157665.3) 2018-02-20

[21] **3,091,295**
[13] A1
[51] **Int.Cl. A61B 5/0478 (2006.01) A61B 5/00 (2006.01)**
[25] FR
[54] **PORTABLE ELECTROENCEPHALOGRAPHY DEVICES**
[54] **ELECTROENCEPHALOGAPHES PORTATIFS**
[72] KOUIDER, SID, FR
[72] ZHANG, HAO, FR
[72] GOUPILLE, ANTOINE, FR
[72] VICERIAL, JEANNE, FR
[72] PLOYART, GUILLAUME, FR
[72] BIANCARELLI, ARTHUR, FR
[72] GERVAIS, GAELLE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] ECOLE NORMALE SUPERIEURE DE PARIS, FR
[71] PARIS SCIENCES ET LETTRES-QUARTIER LATIN, FR
[71] ECOLE DES HAUTES ETUDES EN SCIENCES SOCIALES, FR
[71] ECOLE NATIONALE SUPERIEURE DES ARTS DECORATIFS, FR
[85] 2020-08-14
[86] 2019-02-12 (PCT/EP2019/053454)
[87] (WO2019/158534)
[30] FR (1851287) 2018-02-15

[21] **3,091,296**
[13] A1
[51] **Int.Cl. A01M 1/22 (2006.01) F21K 9/00 (2016.01) H04W 4/30 (2018.01) A01M 1/02 (2006.01) A01M 1/04 (2006.01) F21V 33/00 (2006.01) F21V 99/00 (2006.01)**
[25] EN
[54] **MOSQUITO CONTROL DEVICES AND SYSTEMS**
[54] **DISPOSITIFS ET SYSTEMES DE REGULATION DES MOUSTIQUES**
[72] SMITH, MARK JAMES, CA
[72] VASUDEVA, KAILASH C., CA
[72] SINGH, SATNAM, CA
[71] MAXTECH MOSQUITO CONTROL INC., CA
[85] 2020-08-14
[86] 2019-02-15 (PCT/CA2019/050191)
[87] (WO2019/157600)
[30] CA (2,995,537) 2018-02-16

[21] **3,091,297**
[13] A1
[51] **Int.Cl. A01G 7/04 (2006.01) A01G 9/029 (2018.01) A01G 31/02 (2006.01)**
[25] EN
[54] **CONTROLLED AGRICULTURAL SYSTEM AND METHOD FOR AGRICULTURE**
[54] **SYSTEME AGRICOLE COMMANDE ET PROCEDE D'AGRICULTURE**
[72] BONGARTZ, TIMO, DE
[72] OLSCHOWSKI, SEBASTIAN, DE
[72] HAAS, NORBERT, DE
[72] ANGENENDT, GUIDO, DE
[72] BURZA, MAREK, DE
[72] MAGG, NORBERT, DE
[71] OSRAM GMBH, DE
[85] 2020-08-14
[86] 2019-02-14 (PCT/EP2019/053717)
[87] (WO2019/162192)
[30] DE (10 2018 202 552.5) 2018-02-20
[30] DE (10 2018 204 524.0) 2018-03-23
[30] DE (10 2018 205 193.3) 2018-04-06
[30] DE (10 2018 205 654.4) 2018-04-13
[30] DE (10 2018 207 877.7) 2018-05-18
[30] DE (10 2018 208 843.8) 2018-06-05
[30] DE (10 2018 211 810.8) 2018-07-16
[30] DE (10 2018 212 402.7) 2018-07-25
[30] DE (10 2018 212 752.2) 2018-07-31
[30] DE (10 2018 213 214.3) 2018-08-07
[30] DE (10 2018 213 632.7) 2018-08-13
[30] DE (10 2018 214 193.2) 2018-08-22
[30] DE (10 2018 214 676.4) 2018-08-29
[30] DE (10 2018 214 888.0) 2018-08-31
[30] DE (10 2018 216 800.8) 2018-09-28
[30] DE (10 2018 217 145.9) 2018-10-08
[30] DE (10 2018 217 664.7) 2018-10-15
[30] DE (10 2018 217 848.8) 2018-10-18
[30] DE (10 2018 217 855.0) 2018-10-18
[30] DE (10 2018 217 830.5) 2018-10-18
[30] DE (10 2018 218 004.0) 2018-10-22
[30] DE (10 2018 218 297.3) 2018-10-25
[30] DE (10 2018 218 295.7) 2018-10-25
[30] DE (10 2018 218 578.6) 2018-10-30
[30] DE (10 2018 218 779.7) 2018-11-05
[30] DE (10 2018 219 367.3) 2018-11-13
[30] DE (10 2018 219 875.6) 2018-11-20
[30] DE (10 2018 219 883.7) 2018-11-20
[30] DE (10 2018 220 493.4) 2018-11-28
[30] DE (10 2018 220 902.2) 2018-12-04
[30] DE (10 2018 221 544.8) 2018-12-12
[30] DE (10 2018 221 552.9) 2018-12-12

[21] **3,091,298**
[13] A1
[51] **Int.Cl. F42D 1/04 (2006.01) F42D 1/05 (2006.01) F42D 1/055 (2006.01)**
[25] FR
[54] **IGNITION SYSTEM INCLUDING ELECTRONIC DETONATORS**
[54] **SYSTEME DE MISE A FEU COMPORTANT DES DETONATEURS ELECTRONIQUES**
[72] GUYON, FRANCK, FR
[72] DENUELLE, AYMERIC, FR
[71] DAVEY BICKFORD, FR
[85] 2020-08-14
[86] 2019-02-15 (PCT/FR2019/050344)
[87] (WO2019/158872)
[30] FR (1851350) 2018-02-16

[21] **3,091,299**
[13] A1
[51] **Int.Cl. H04W 52/30 (2009.01) H04W 52/34 (2009.01)**
[25] EN
[54] **MAXIMUM TRANSMISSINO POWER DETERMINING METHOD, APPARATUS, SYSTEM, AND STORAGE MEDIUM**
[54] **PROCEDE, APPAREIL ET SYSTEME PERMETTANT DE DETERMINER UNE PUISSANCE DE TRANSMISSION MAXIMALE ET SUPPORT D'ENREGISTREMENT**
[72] BI, WENPING, CN
[72] GUO, ZHIHENG, CN
[72] LONG, YI, CN
[72] XIE, XINQIAN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-08-14
[86] 2018-02-14 (PCT/CN2018/076875)
[87] (WO2019/157734)

[21] **3,091,300**
[13] A1
[51] **Int.Cl. C07D 241/04 (2006.01) A61K 31/495 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **RECEPTOR INHIBITORS, PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME, AND USAGE THEREOF**
[54] **ANTAGONISTE DE RECEPTEUR, COMPOSITION PHARMACEUTIQUE LE COMPRENANT ET SON UTILISATION**
[72] ZHAO, YANPING, CN
[72] WANG, HONGJUN, CN
[72] LI, GONG, CN
[72] LI, XIANG, CN
[72] JIANG, YUANYUAN, CN
[72] WANG, YEMING, CN
[72] HUANG, HUAI, CN
[72] ZHOU, LIYING, CN
[72] LIU, YANAN, CN
[72] SHAO, NING, CN
[72] XIAO, FENGPING, CN
[72] ZOU, ZHENGUANG, CN
[71] BEIJING TIDE PHARMACEUTICAL CO., LTD., CN
[85] 2020-08-14
[86] 2019-02-22 (PCT/CN2019/075862)
[87] (WO2019/161781)
[30] CN (201810154610.5) 2018-02-23

[21] **3,091,301**
[13] A1
[51] **Int.Cl. B01D 39/16 (2006.01)**
[25] FR
[54] **METHOD FOR FLUORINATING A FILTER FOR A PIPETTE TIP, PIPETTE TIP, ASSOCIATED PRODUCTION METHOD AND PIPETTE**
[54] **PROCEDE DE FLUORATION D'UN FILTRE D'EMBOUT DE PIPETTE, EMBOUT DE PIPETTE, SON PROCEDE DE FABRICATION ET PIPETTE ASSOCIES**
[72] BATISSE, NICOLAS, FR
[72] DUBOIS, MARC, FR
[72] PEYROUX, JEREMY, FR
[72] GUIEU PRESLE, BEATRICE, FR
[71] GILSON SAS, FR
[71] UNIVERSITE CLERMONT AUVERGNE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] SIGMA CLERMONT, FR
[85] 2020-08-14
[86] 2019-02-18 (PCT/FR2019/050359)
[87] (WO2019/162602)
[30] FR (1851441) 2018-02-20

[21] **3,091,302**
[13] A1
[51] **Int.Cl. H05K 7/18 (2006.01) H02B 1/01 (2006.01)**
[25] EN
[54] **A CABINET FRAME ASSEMBLED BY FOLDED PROFILES**
[54] **CADRE D'ARMOIRE ASSEMBLE PAR DES PROFILS PLIES**
[72] THING, POUL, DK
[72] VESTERGAARD, JORGEN DAHL, DK
[71] KK WIND SOLUTIONS A/S, DK
[85] 2020-08-14
[86] 2019-02-22 (PCT/DK2019/050067)
[87] (WO2019/161869)
[30] DK (PA 2018 70123) 2018-02-23

[21] **3,091,304**
[13] A1
[51] **Int.Cl. A61K 47/26 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR USE AS A PROPHYLACTIC AGENT TO THOSE AT RISK OF INFECTION OF TUBERCULOSIS, OR AS SECONDARY AGENTS FOR TREATING INFECTED TUBERCULOSIS PATIENTS**
[54] **COMPOSITIONS DESTINEES A ETRE UTILISEES EN TANT QU'AGENT PROPHYLACTIQUE POUR DES PERSONNES PRESENTANT UN RISQUE D'INFECTION DE LA TUBERCULOSE, OU EN TANT QU'AGENTS SECONDAIRES POUR TRAITER DES PATIENTS INFECTES PAR LA TUBERCULOSE**
[72] MARTIN MONTANES, CARLOS, ES
[72] AGUILO ANENTO, JUAN IGNACIO, ES
[72] GONZALO ASENSIO, JESUS ANGEL, ES
[72] MARINOVA, DESSISLAVA VANEVA, ES
[72] UGANDA MAIZ, SANTIAGO, ES
[72] RODRIGUEZ SANCHEZ, ESTEBAN, ES
[72] PUENTES COLORADO, EUGENIA, ES
[72] FERNANDEZ ALVAREZ-SANTULLANO, CONCEPCION, ES
[71] UNIVERSIDAD DE ZARAGOZA, ES
[71] BIOFABRI S.L., ES
[85] 2020-08-14
[86] 2019-02-19 (PCT/EP2019/054106)
[87] (WO2019/158779)
[30] EP (18382097.6) 2018-02-19

[21] **3,091,305**
[13] A1
[51] **Int.Cl. C07D 221/20 (2006.01) A01N 43/42 (2006.01)**
[25] EN
[54] **HERBICIDAL 3-AZASPIRO[5.5]UNDECANE-8,10-DIONE COMPOUNDS**
[54] **COMPOSES HERBICIDES DE 3-AZASPIRO [5,5] UNDECANE -8,10-DIONE**
[72] HENNESSY, ALAN JOSEPH, GB
[72] JONES, ELIZABETH PEARL, GB
[72] HACHISU, SHUJI, GB
[72] WILLETTS, NIGEL JAMES, GB
[72] DALE, SUZANNA, GB
[72] GREGORY, ALEXANDER WILLIAM, GB
[72] HOULSBY, IAN THOMAS TINMOUTH, GB
[72] BHONOAH, YUNAS, GB
[72] COMAS-BARCELO, JULIA, GB
[71] SYNGENTA PARTICIPATIONS AG, CH
[85] 2020-08-14
[86] 2019-02-14 (PCT/EP2019/053741)
[87] (WO2019/158666)
[30] GB (1802558.5) 2018-02-16

[21] **3,091,306**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0478 (2006.01) H04R 25/00 (2006.01)**
[25] EN
[54] **ELECTRODE FOR DETECTING BIOELECTRICAL SIGNALS**
[54] **ELECTRODE POUR DETECTER DES SIGNAUX BIOELECTRIQUES**
[72] KIDMOSE, PREBEN, DK
[72] RANK, MIKE LIND, DK
[72] TOFT, HANS OLAF, DK
[72] ANDERSEN, MICHAEL, DK
[72] KAPPEL, SIMON LIND, DK
[71] T&W ENGINEERING A/S, DK
[85] 2020-08-14
[86] 2019-02-26 (PCT/EP2019/054681)
[87] (WO2019/162518)
[30] US (62/635,237) 2018-02-26

[21] **3,091,307**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **CSF1R BINDING AGENTS**
[54] **AGENTS DE LIAISON AU CSF1R**
[72] FINLAY, WILLIAM JAMES JONATHAN, GB
[71] ULTRAHUMAN TWELVE LIMITED, GB
[85] 2020-08-14
[86] 2019-02-28 (PCT/EP2019/055077)
[87] (WO2019/166596)
[30] GB (1803226.8) 2018-02-28
[30] GB (1810226.9) 2018-06-21
[30] GB (1819045.4) 2018-11-22

[21] **3,091,308**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/353 (2006.01) A61K 47/24 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING NEBIVOLOL**
[54] **COMPOSITIONS PHARMACEUTIQUES CONTENANT DU NEBIVOLOL**
[72] LOSCHER, FRANK, DE
[72] EICKHOFF, KIRSTEN, DE
[72] STREHL, DIANA, DE
[71] NOVALIQ GMBH, DE
[85] 2020-08-14
[86] 2019-03-01 (PCT/EP2019/055149)
[87] (WO2019/166631)
[30] EP (18159727.9) 2018-03-02
[30] US (62/637,676) 2018-03-02

[21] **3,091,309**
[13] A1
[51] **Int.Cl. A01K 1/015 (2006.01)**
[25] FR
[54] **FLOORING, IN PARTICULAR FOR THE FLOOR OF AN ENCLOSURE FOR RAISING ANIMALS**
[54] **REVETEMENT DE SOL, EN PARTICULIER POUR LE SOL D'UNE ENCEINTE POUR L'ELEVAGE D'ANIMAUX**
[72] BIORET, JEAN-VINCENT, FR
[71] BIORET AGRI-LOGETTE CONFORT, FR
[85] 2020-08-14
[86] 2019-02-20 (PCT/FR2019/050387)
[87] (WO2019/162614)
[30] FR (1851440) 2018-02-20

[21] **3,091,310**
[13] A1
[51] **Int.Cl. B27C 5/10 (2006.01) B25H 1/00 (2006.01) B27C 5/02 (2006.01)**
[25] EN
[54] **MILLING ADAPTER FOR A WORK TABLE**
[54] **ADAPTATEUR DE FRAISAGE POUR UNE TABLE DE TRAVAIL**
[72] PLOCKL, MANFRED, DE
[71] PLOCKL GMBH & CO. INDUSTRIEOPTIK KG, DE
[85] 2020-08-14
[86] 2019-03-08 (PCT/EP2019/055849)
[87] (WO2019/179789)
[30] DE (10 2018 106 669.4) 2018-03-21

[21] **3,091,311**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/41 (2006.01) A61P 17/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING VITILIGO**
[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DU VITILIGO**
[72] PASSERON, THIERRY, FR
[72] TULIC, MERI, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] CENTRE HOPITALIER UNIVERSITAIRE DE NICE, FR
[71] UNIVERSITE COTE D'AZUR, FR
[85] 2020-08-14
[86] 2019-02-15 (PCT/EP2019/053767)
[87] (WO2019/158675)
[30] EP (18305161.4) 2018-02-16

[21] **3,091,312**
[13] A1
[51] **Int.Cl. G06T 5/00 (2006.01) H04N 5/20 (2006.01) H04N 5/222 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING LUMINANCE DURING VIDEO PRODUCTION AND BROADCAST**
[54] **SYSTEME ET PROCEDE DE COMMANDE DE LUMINANCE PENDANT LA PRODUCTION ET LA DIFFUSION VIDEO**
[72] SAVOIE, CHARLES, LU
[72] TRUSSART, VINCENT, LU
[71] GVBB HOLDINGS, S.A.R.L., LU
[85] 2020-08-14
[86] 2019-02-15 (PCT/EP2019/053892)
[87] (WO2019/158730)
[30] US (62/631,397) 2018-02-15
[30] US (16/276,300) 2019-02-14

[21] **3,091,313**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 31/5377 (2006.01) A61P 27/06 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING TIMOLOL**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DU TIMOLOL**
[72] LOSCHER, FRANK, DE
[72] KROSSER, SONJA, DE
[72] STREHL, DIANA, DE
[72] HAUPTMEIER, BERNHARD, DE
[72] EICKHOFF, KIRSTEN, DE
[71] NOVALIQ GMBH, DE
[85] 2020-08-14
[86] 2019-03-25 (PCT/EP2019/057429)
[87] (WO2019/185543)
[30] EP (18164563.1) 2018-03-28
[30] EP (18185436.5) 2018-07-25

[21] **3,091,315**
[13] A1
[51] **Int.Cl. A23L 11/00 (2016.01) A23L 29/30 (2016.01) A23L 33/21 (2016.01) C08B 30/18 (2006.01) C08L 3/02 (2006.01)**
[25] FR
[54] **METHOD FOR PRODUCING RESISTANT PEA DEXTRIN**
[54] **PROCEDE DE FABRICATION DE DEXTRINE DE POIS RESISTANTE**
[72] WESOLEK, GERALD, FR
[71] ROQUETTE FRERES, FR
[85] 2020-08-14
[86] 2019-02-21 (PCT/FR2019/050398)
[87] (WO2019/162621)
[30] FR (18 51528) 2018-02-22

[21] **3,091,316**
[13] A1
[51] **Int.Cl. D21H 23/50 (2006.01) D21H 17/25 (2006.01) D21H 17/28 (2006.01) D21H 17/29 (2006.01) D21H 17/37 (2006.01) D21H 17/42 (2006.01) D21H 17/44 (2006.01) D21H 21/18 (2006.01) D21H 23/28 (2006.01) D21H 27/32 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING A MULTI-LAYERED PAPERBOARD, MULTI-LAYERED PAPERBOARD AND COMPOSITION FOR USE IN MULTI-LAYERED PAPERBOARD MANUFACTURING**
[54] **PROCEDE DE FABRICATION D'UN CARTON MULTICOUCHE, CARTON MULTICOUCHE ET COMPOSITION A UTILISER DANS LA FABRICATION DE CARTON MULTICOUCHE**
[72] HIETANIEMI, MATTI, FI
[71] KEMIRA OYJ, FI
[85] 2020-08-14
[86] 2019-01-18 (PCT/FI2019/050037)
[87] (WO2019/180303)
[30] FI (20185269) 2018-03-22

[21] **3,091,317**
[13] A1
[51] **Int.Cl. F16G 3/08 (2006.01)**
[25] FR
[54] **JUNCTION DEVICE FOR CONVEYOR BELTS**
[54] **DISPOSITIF DE JONCTION POUR BANDES TRANSPORTEUSES**
[72] TAVERNIER, BERNARD, FR
[71] FP BUSINESS INVEST, FR
[85] 2020-08-14
[86] 2019-02-22 (PCT/FR2019/050406)
[87] (WO2019/162628)
[30] FR (18/51530) 2018-02-22

[21] **3,091,318**
[13] A1
[51] **Int.Cl. G08B 13/16 (2006.01) G08B 17/00 (2006.01) G08B 19/00 (2006.01) G08B 25/04 (2006.01) G08B 25/14 (2006.01) G08B 29/04 (2006.01) G08B 29/12 (2006.01) G08B 29/14 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM ANTI-TAMPERING PROTECTION**
[54] **PROTECTION ANTI-ALTERATION POUR SYSTEME DE DETECTION DE TIR**
[72] CONNELL, THOMAS WYSONG II, US
[72] LEVIN, ALAN III, US
[72] FICARRA, TIMOTHY L., US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051206)
[87] (WO2019/159102)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,319**
[13] A1
[51] **Int.Cl. B26F 3/00 (2006.01) C08J 3/12 (2006.01)**
[25] EN
[54] **METHOD FOR REMOVING OBJECT TO BE REMOVED**
[54] **PROCEDE DE RETRAIT POUR OBJET A RETIRER**
[72] SADAKI, AKIRA, JP
[72] MAENO, JUN, JP
[72] YAMASAKI, AKITO, JP
[72] EBATA, TOMOKO, JP
[72] TAKAHAMA, YUICHI, JP
[71] IHI CORPORATION, JP
[85] 2020-08-14
[86] 2018-12-21 (PCT/JP2018/047220)
[87] (WO2019/159535)
[30] JP (2018-025925) 2018-02-16

[21] **3,091,320**
[13] A1
[51] **Int.Cl. F16G 3/08 (2006.01)**
[25] FR
[54] **JOINING DEVICE WITH SPACER FOR LINKING THE TWO ENDS OF A CONVEYOR BELT**
[54] **DISPOSITIF DE JONCTION A ENTRETOISE POUR RELIER LES DEUX EXTREMITES D'UNE BANDE TRANSPORTEUSE**
[72] TAVERNIER, BERNARD, FR
[71] FP BUSINESS INVEST, FR
[85] 2020-08-14
[86] 2019-02-22 (PCT/FR2019/050408)
[87] (WO2019/162630)
[30] FR (18/51535) 2018-02-22

[21] **3,091,321**
[13] A1
[51] **Int.Cl. C01G 23/00 (2006.01) C09D 11/037 (2014.01) C09D 7/61 (2018.01) C09C 1/36 (2006.01) C09C 3/08 (2006.01) C09D 201/00 (2006.01)**
[25] EN
[54] **FLAKY TITANIC ACID AND METHOD FOR PRODUCTION THEREOF, AND USE THEREOF**
[54] **ACIDE TITANIQUE EN PAILLETTES ET PROCEDE POUR SA PRODUCTION ET SON UTILISATION**
[72] UESUSUKI, YUSUKE, JP
[71] ISHIHARA SANGYO KAISHA, LTD., JP
[85] 2020-08-14
[86] 2019-02-13 (PCT/JP2019/004978)
[87] (WO2019/159923)
[30] JP (2018-025821) 2018-02-16

[21] **3,091,322**
[13] A1
[51] **Int.Cl. F24F 9/00 (2006.01) F24F 11/30 (2018.01) F24F 11/89 (2018.01) F24F 13/26 (2006.01)**
[25] EN
[54] **AN ACTIVE AIRFLOW INHIBITING APPARATUS**
[54] **APPAREIL D'INHIBITION D'ECOULEMENT D'AIR ACTIF**
[72] WIRTH, NICHOLAS J.P., GB
[71] WIRTH DOORS LIMITED, GB
[85] 2020-08-14
[86] 2019-02-18 (PCT/GB2019/050418)
[87] (WO2019/158938)
[30] GB (1802606.2) 2018-02-16

[21] **3,091,323**
[13] A1
[51] **Int.Cl. C08B 37/00 (2006.01) C08J 3/28 (2006.01)**
[25] EN
[54] **IMPROVED PROCESS FOR THE PREPARATION OF DALTEPARIN SODIUM**
[54] **PROCEDE AMELIORE POUR LA PREPARATION DE DALTEPARINE SODIQUE**
[72] CHINTAKUNTA, VAMSEE KRISHNA, IN
[72] VEDULA, MANOHAR SARMA, IN
[72] MANTENA, NARENDER DEV, IN
[72] KADABOINA, RAJASEKHAR, IN
[71] BIOLOGICAL E LIMITED, IN
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051192)
[87] (WO2019/159092)
[30] IN (201841005592) 2018-02-14

[21] **3,091,324**
[13] A1
[51] **Int.Cl. A63F 13/80 (2014.01) A63F 9/00 (2006.01)**
[25] EN
[54] **GAME MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE JEU**
[72] SHIGETA, YASUSHI, JP
[71] ANGEL PLAYING CARDS CO., LTD., JP
[85] 2020-08-14
[86] 2019-02-13 (PCT/JP2019/005057)
[87] (WO2019/159954)
[30] JP (2018-027023) 2018-02-19

[21] **3,091,326**
[13] A1
[51] **Int.Cl. A23K 20/163 (2016.01) A23L 33/105 (2016.01) A61K 31/12 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **ORAL INGESTION COMPOSITION**
[54] **COMPOSITION D'INGESTION ORALE**
[72] MAKINO, YUJI, JP
[72] TAKAHASHI, TSUKASA, JP
[71] THERAVALUES CORPORATION, JP
[85] 2020-08-14
[86] 2019-02-18 (PCT/JP2019/005898)
[87] (WO2019/160146)
[30] JP (2018-027317) 2018-02-19

[21] **3,091,327**
[13] A1
[51] **Int.Cl. G08B 13/16 (2006.01) G08B 25/04 (2006.01) G08B 25/14 (2006.01) G08B 17/00 (2006.01) G08B 19/00 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH AMBIENT NOISE MODELING AND MONITORING**
[54] **SYSTEME DE DETECTION DE TIR DOUE D'UNE MODELISATION ET D'UNE SURVEILLANCE DE BRUIT AMBIANT**
[72] CONNELL, THOMAS WYSONG II, US
[72] LEVIN, ALAN III, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051207)
[87] (WO2019/159103)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,328**
[13] A1
[51] **Int.Cl. G08B 13/16 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH FIRE ALARM SYSTEM INTEGRATION**
[54] **SYSTEME DE DETECTION DE TIR AVEC INTEGRATION DU SYSTEME D'ALARME INCENDIE**
[72] CONNELL, THOMAS WYSONG II, US
[72] LEVIN, ALAN III, US
[72] FURTADO, MICHAEL A., US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051208)
[87] (WO2019/159104)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,329**
[13] A1
[51] **Int.Cl. A61K 9/24 (2006.01) A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 31/165 (2006.01)**
[25] EN
[54] **EXTENDED-RELEASE PHARMACEUTICAL COMPOSITION CONTAINING LACOSAMIDE**
[54] **COMPOSITION PHARMACEUTIQUE A LIBERATION PROLONGEE CONTENANT DU LACOSAMIDE**
[72] LEE, NA KYEOM, KR
[72] PARK, JIN HYEONG, KR
[72] MIN, MI HONG, KR
[71] WHAN IN PHARMACEUTICAL COMPANY, KR
[85] 2020-08-14
[86] 2019-01-07 (PCT/KR2019/000219)
[87] (WO2019/160243)
[30] KR (10-2018-0018584) 2018-02-14

[21] **3,091,330**
[13] A1
[51] **Int.Cl. F21V 33/00 (2006.01) G08B 13/16 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SENSORS INCORPORATED INTO BUILDING MANAGEMENT DEVICES**
[54] **CAPTEURS DE DETECTION DE COUPS DE FEU INCORPORES DANS DES DISPOSITIFS DE GESTION DE BATIMENT**
[72] CONNELL, THOMAS WYSONG II, US
[72] LEVIN, ALAN III, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051209)
[87] (WO2019/159105)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,331**
[13] A1
[51] **Int.Cl. C12N 15/70 (2006.01) C07K 14/195 (2006.01) C12N 15/77 (2006.01) C12P 13/22 (2006.01)**
[25] EN
[54] **NOVEL L-TRYPTOPHAN EXPORT PROTEIN AND METHOD FOR PRODUCING L-TRYPTOPHAN USING SAME**
[54] **NOUVELLE PROTEINE D'EXPORTATION DE L-TRYPTOPHANE ET METHODE DE PRODUCTION DE L-TRYPTOPHANE L'UTILISANT**
[72] JUNG, MOO YOUNG, KR
[72] SEO, CHANG IL, KR
[72] KIM, HYO JIN, KR
[72] KIM, TAE YEON, KR
[72] KIM, HYUN AH, KR
[72] SON, SUNG KWANG, KR
[72] YOO, HYE RYUN, KR
[72] LEE, JAE MIN, KR
[72] CHEONG, KI YONG, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2020-08-14
[86] 2019-02-22 (PCT/KR2019/002238)
[87] (WO2019/164348)
[30] KR (10-2018-0022054) 2018-02-23

[21] **3,091,332**
[13] A1
[51] **Int.Cl. G08B 13/16 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH LOCATION TRACKING**
[54] **SYSTEME DE DETECTION DE TIR AVEC SUIVI D'EMPLACEMENT**
[72] CONNELL, THOMAS WYSONG II, US
[72] LEVIN, ALAN III, US
[72] FICARRA, TIMOTHY L, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051210)
[87] (WO2019/159106)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,333**
[13] A1
[51] **Int.Cl. F16C 39/04 (2006.01) F16F 15/315 (2006.01)**
[25] EN
[54] **LARGE SCALE FLYWHEEL FOR ENERGY STORAGE**
[54] **VOLANT A GRANDE ECHELLE POUR STOCKAGE D'ENERGIE**
[72] BERGAN, PAL G., NO
[71] BERGAN TECHNOLOGY AS, NO
[85] 2020-08-14
[86] 2018-02-15 (PCT/NO2018/050040)
[87] (WO2019/160422)

[21] **3,091,335**
[13] A1
[51] **Int.Cl. C07H 19/06 (2006.01) C12Q 1/6806 (2018.01) C12N 9/02 (2006.01) C12P 19/18 (2006.01)**
[25] EN
[54] **METHODS FOR THE EPIGENETIC ANALYSIS OF DNA, PARTICULARLY CELL-FREE DNA**
[54] **PROCEDES D'ANALYSE EPIGENETIQUE D'ADN, EN PARTICULIER D'ADN ACELLULAIRE**
[72] ARENSDORF, PATRICK A., US
[72] SPACEK, DAMEK, US
[72] SONG, CHUNXIAO, GB
[71] BLUESTAR GENOMICS, INC., US
[85] 2020-08-14
[86] 2019-02-13 (PCT/US2019/017902)
[87] (WO2019/160994)
[30] US (62/630,798) 2018-02-14

[21] **3,091,336**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01) G10L 15/30 (2013.01) G10L 17/22 (2013.01) G10L 15/22 (2006.01) G10L 15/26 (2006.01)**
[25] EN
[54] **SPEECH RECOGNITION ORDERING SYSTEM AND RELATED METHODS**
[54] **SYSTEME DE COMMANDE PAR RECONNAISSANCE DE LA PAROLE ET PROCEDES ASSOCIES**
[72] PENG, PETER, US
[72] LI, YANG, US
[72] SADRANI, VIDHIBEN BHARATKUMAR, US
[72] FINE, CHRIS, US
[72] LUO, ROGER JIE, US
[71] JETSON AI INC., US
[85] 2020-08-14
[86] 2019-02-14 (PCT/US2019/017937)
[87] (WO2019/161009)
[30] US (62/630,457) 2018-02-14
[30] US (62/747,829) 2018-10-19

[21] **3,091,338**
[13] A1
[51] **Int.Cl. C07D 281/10 (2006.01) C07K 5/065 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF ELOBIXIBAT**
[54] **PROCEDE DE PREPARATION D'ELOBIXIBAT**
[72] BHAT, GANAPATI G., IN
[72] COUTINHO, JOHNSON M., IN
[72] DAHLSTROM, MIKAEL, SE
[72] LOFTHAGEN, MICHAEL, SE
[72] TATARA, AKINORI, JP
[71] ELOBIX AB, SE
[85] 2020-08-14
[86] 2019-03-08 (PCT/SE2019/050208)
[87] (WO2019/172834)
[30] IN (201811008692) 2018-03-09
[30] SE (1850474-6) 2018-04-23

[21] **3,091,339**
[13] A1
[51] **Int.Cl. A61K 31/4155 (2006.01) A61K 31/437 (2006.01) A61K 31/519 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **JAK1 PATHWAY INHIBITORS FOR THE TREATMENT OF CYTOKINE-RELATED DISORDERS**
[54] **INHIBITEURS DE LA VOIE JAK1 POUR LE TRAITEMENT DE TROUBLES LIES AUX CYTOKINES**
[72] O'NEILL MONTGOMERY, MICHAEL, US
[72] NAIM, AHMAD, US
[72] SNODGRASS, SUSAN, US
[71] INCYTE CORPORATION, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/US2019/018066)
[87] (WO2019/161098)
[30] US (62/710,446) 2018-02-16
[30] US (62/631,825) 2018-02-18

[21] **3,091,340**
[13] A1
[51] **Int.Cl. C08F 4/06 (2006.01) C07C 323/25 (2006.01) C07C 329/00 (2006.01) C07C 335/02 (2006.01) C07D 251/38 (2006.01) C07D 277/32 (2006.01)**
[25] EN
[54] **ACCELERATOR SOLUTIONS USEFUL FOR RESIN CURING**
[54] **SOLUTIONS D'ACCELERATEUR UTILES POUR LE DURCISSEMENT DE RESINE**
[72] ALSBAIEE, ALAAEDDIN, US
[72] CROCKER, EVAN, US
[71] ARKEMA INC., US
[85] 2020-08-14
[86] 2019-02-11 (PCT/US2019/017462)
[87] (WO2019/160798)
[30] US (62/631,997) 2018-02-19

[21] **3,091,341**
[13] A1
[51] **Int.Cl. A61N 1/32 (2006.01) A61N 1/04 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **DEVICES FOR BRAIN STIMULATION**
[54] **DISPOSITIFS POUR LA STIMULATION DU CERVEAU**
[72] COUSER, DANIEL J., US
[71] COUSER, DANIEL J., US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018149)
[87] (WO2019/161156)
[30] US (62/631,869) 2018-02-18
[30] US (15/972,171) 2018-05-06
[30] US (16/180,855) 2018-11-05

[21] **3,091,342**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/404 (2006.01) A61K 31/415 (2006.01) A61K 31/4164 (2006.01) A61K 31/4439 (2006.01) A61K 31/451 (2006.01) A61K 31/4709 (2006.01) A61K 31/495 (2006.01) A61K 31/50 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) C07D 211/32 (2006.01) C07D 231/12 (2006.01) C07D 233/64 (2006.01) C07D 237/08 (2006.01) C07D 239/26 (2006.01) C07D 241/04 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01)**
[25] EN
[54] **P300/CBP HAT INHIBITORS AND METHODS FOR THEIR USE**
[54] **INHIBITEURS D'HAT P300/CBP**
[72] WILSON, JONATHAN E., US
[72] BRUCELLE, FRANCOIS, US
[72] LEVELL, JULIAN R., US
[71] CONSTELLATION PHARMACEUTICALS, INC., US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018158)
[87] (WO2019/161162)
[30] US (62/631,596) 2018-02-16
[30] US (62/758,885) 2018-11-12

[21] **3,091,343**
[13] A1
[51] **Int.Cl. A61M 5/145 (2006.01) A61M 5/148 (2006.01) A61M 5/24 (2006.01)**
[25] EN
[54] **SYRINGE ROLLING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE ROULEMENT DE SERINGUE**
[72] SPOHN, MICHAEL, US
[72] COWAN, KEVIN, US
[71] BAYER HEALTHCARE LLC, US
[85] 2020-08-14
[86] 2019-02-18 (PCT/US2019/018404)
[87] (WO2019/161327)
[30] US (62/632,026) 2018-02-19

[21] **3,091,344**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) C07K 16/22 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING HU14.18K322A MONOCLONAL ANTIBODY**
[54] **PROCEDE DE PRODUCTION D'ANTICORPS MONOCLONAL HU14.18K322A**
[72] MEAGHER, MICHAEL M., US
[72] REDDIVARI, MURALIDHAR, US
[71] ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC., US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018169)
[87] (WO2019/161167)
[30] US (62/630,971) 2018-02-15

[21] **3,091,345**
[13] A1
[51] **Int.Cl. A47C 3/04 (2006.01) A47C 1/02 (2006.01) A47C 3/00 (2006.01)**
[25] EN
[54] **CHAIR ASSEMBLY**
[54] **ENSEMBLE CHAISE**
[72] BARRETT, SHAWN, US
[71] BARRETT STUDIOS, INC., US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018171)
[87] (WO2019/161168)
[30] US (62/631,580) 2018-02-16

[21] **3,091,346**
[13] A1
[51] **Int.Cl. G06N 10/00 (2019.01) H03K 3/38 (2006.01) H03K 19/16 (2006.01) H03K 19/195 (2006.01)**
[25] EN
[54] **ROBUST TUNABLE COUPLING BETWEEN SUPERCONDUCTIVE CIRCUITS**
[54] **COUPLAGE ACCORDABLE ROBUSTE ENTRE CIRCUITS SUPRACONDUCTEURS**
[72] EPSTEIN, RYAN J., US
[72] CLARKE, DAVID JAMES, US
[72] MARAKOV, ALEXANDER, US
[72] BOYD, GREGORY R., US
[72] PRZYBYSZ, ANTHONY JOSEPH, US
[72] STRAND, JOEL D., US
[72] FERGUSON, DAVID GEORGE, US
[71] NORTHRUP GRUMMAN SYSTEMS CORPORATION, US
[85] 2020-08-14
[86] 2019-02-19 (PCT/US2019/018497)
[87] (WO2019/168708)
[30] US (15/910,254) 2018-03-02

[21] **3,091,348**
[13] A1
[51] **Int.Cl. B01D 61/14 (2006.01) A61L 2/00 (2006.01) B01D 61/16 (2006.01) B01D 67/00 (2006.01) B01D 69/02 (2006.01) B01D 71/10 (2006.01) B01D 71/12 (2006.01) B01D 71/16 (2006.01) B01D 71/20 (2006.01) C12N 7/02 (2006.01) B01D 69/08 (2006.01)**
[25] EN
[54] **MODIFIED FILTER MEMBRANE AND METHOD**
[54] **MEMBRANE FILTRANTE MODIFIEE ET PROCEDE**
[72] LIU, SHENGJIANG, US
[72] WANG, WENSHENG, US
[72] HESSLEIN, ASHLEY, US
[71] BAYER HEALTHCARE LLC, US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018216)
[87] (WO2019/161199)
[30] US (62/632,165) 2018-02-19

[21] **3,091,349**
[13] A1
[51] **Int.Cl. A47C 27/06 (2006.01) A47C 21/04 (2006.01) A47C 27/12 (2006.01) A47C 27/14 (2006.01)**
[25] EN
[54] **SUPPORT CUSHIONS INCLUDING A POCKETED COIL LAYER WITH A PLURALITY OF FABRIC TYPES FOR DIRECTING AIR FLOW, AND METHODS FOR CONTROLLING SURFACE TEMPERATURE OF SAME**
[54] **COUSSINS DE SOUTIEN COMPRENANT UNE COUCHE DE BOBINE A POCHES AYANT UNE PLURALITE DE TYPES DE TISSU POUR DIRIGER UN FLUX D'AIR, ET LEURS PROCEDES DE REGULATION DE TEMPERATURE DE SURFACE**
[72] GHANEI, HAMID, US
[72] TAR, KEVIN, US
[72] JANSEN, TAYLOR M., US
[72] EVANS, JAMES ALVA, JR., US
[71] SEALY TECHNOLOGY, LLC, US
[85] 2020-08-14
[86] 2019-02-21 (PCT/US2019/018961)
[87] (WO2019/165074)
[30] US (62/633,895) 2018-02-22

[21] **3,091,352**
[13] A1
[51] **Int.Cl. A61K 31/7016 (2006.01) A61K 31/7034 (2006.01) C07H 3/04 (2006.01)**
[25] EN
[54] **DIARYL TREHALOSE COMPOUNDS AND USES THEREOF**
[54] **COMPOSES DE TREHALOSE DE DIARYLE ET LEURS UTILISATIONS**
[72] BURKHART, DAVID, US
[72] ETTENGER, GEORGE, US
[72] EVANS, JAY, US
[72] RYTER, KENDAL T., US
[72] SMITH, ALYSON, US
[71] THE UNIVERSITY OF MONTANA, US
[85] 2020-08-14
[86] 2019-02-21 (PCT/US2019/019012)
[87] (WO2019/165114)
[30] US (62/633,375) 2018-02-21

[21] **3,091,353**
[13] A1
[51] **Int.Cl. A61K 31/198 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC AGENTS FOR TREATING RESTLESS LEGS SYNDROME**
[54] **AGENTS THERAPEUTIQUES PERMETTANT DE TRAITER LE SYNDROME DES JAMBES SANS REPOS**
[72] FACTOR, MALLORY, GB
[72] STRUPP, MICHAEL, DE
[71] INTRABIO LTD, GB
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051214)
[87] (WO2019/159110)
[30] US (62/631,383) 2018-02-15

[21] **3,091,354**
[13] A1
[51] **Int.Cl. C08K 7/06 (2006.01) C08G 77/00 (2006.01) C08L 83/00 (2006.01) C09D 189/06 (2006.01) C09D 191/06 (2006.01) C09J 191/00 (2006.01)**
[25] EN
[54] **MOISTURE CURABLE SILICONE POLYMER AND USES THEREOF**
[54] **POLYMERE DE SILICONE DURCISSABLE A L'HUMIDITE ET SES UTILISATIONS**
[72] LIU, YUXIA, US
[72] SHAH, GEETANJALIBEN, US
[72] HEMERY, THERESE, DE
[72] DECATO, ALFRED A., US
[72] HIREKERUR, ABHIJIT, US
[71] HENKEL IP & HOLDING GMBH, DE
[71] HENKEL AG & CO. KGAA, DE
[85] 2020-08-14
[86] 2019-02-22 (PCT/US2019/019212)
[87] (WO2019/165251)
[30] US (62/633,975) 2018-02-22
[30] US (62/634,431) 2018-02-23

[21] **3,091,356**
[13] A1
[51] **Int.Cl. H04N 19/543 (2014.01) H04N 19/587 (2014.01)**
[25] EN
[54] **VARIABLE TEMPLATE SIZE FOR TEMPLATE MATCHING**
[54] **TAILLE VARIABLE DE MODELES POUR MISE EN CORRESPONDANCE DE MODELES**
[72] PANUSOPONE, KRIT, US
[72] WANG, LIMIN, US
[71] ARRIS ENTERPRISES LLC, US
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018279)
[87] (WO2019/161248)
[30] US (62/631,047) 2018-02-15
[30] US (16/277,532) 2019-02-15

[21] **3,091,357**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01) H04N 21/81 (2011.01)**
[25] EN
[54] **REAL-TIME ADVERTISEMENT-INSERTION VERIFICATION**
[54] **VERIFICATION D'INSERTION PUBLICITAIRE EN TEMPS REEL**
[72] MILFORD, MATTHEW A., US
[72] DENIS, XAVIER P., US
[72] ROMRELL, DAVID A., US
[71] ARRIS ENTERPRISES LLC, US
[85] 2020-08-14
[86] 2019-02-25 (PCT/US2019/019412)
[87] (WO2019/165365)
[30] US (62/634,322) 2018-02-23
[30] US (16/284,538) 2019-02-25

[21] **3,091,359**
[13] A1
[51] **Int.Cl. G06F 7/76 (2006.01) G06N 7/00 (2006.01)**
[25] EN
[54] **CONVEX FEATURE NORMALIZATION FOR FACE RECOGNITION**
[54] **NORMALISATION DE CARACTERISTIQUES CONVEXES POUR LA RECONNAISSANCE FACIALE**
[72] SAVVIDES, MARIOS, US
[72] PAL, DIPAN KUMAR, US
[72] ZHENG, YUTONG, US
[71] CARNEGIE MELLON UNIVERSITY, US
[85] 2020-08-14
[86] 2019-02-28 (PCT/US2019/020090)
[87] (WO2019/169155)
[30] US (62/710,814) 2018-02-28

[21] **3,091,360**
[13] A1
[51] **Int.Cl. B01J 20/18 (2006.01) C01B 32/40 (2017.01) B01D 15/00 (2006.01) B01D 53/04 (2006.01) B01J 37/08 (2006.01) C01G 3/02 (2006.01) C01G 49/02 (2006.01)**
[25] EN
[54] **ADSORBENT COMPOSITIONS FOR CARBON MONOXIDE REMOVAL**
[54] **COMPOSITIONS ADSORBANTES POUR ELIMINATION DE MONOXYDE DE CARBONE**
[72] VITYUK, ARTEM D., US
[72] HRATKO, LINDA, US
[71] BASF CORPORTION, US
[85] 2020-08-14
[86] 2019-03-04 (PCT/US2019/020521)
[87] (WO2019/173201)
[30] US (62/638,612) 2018-03-05

[21] **3,091,362**
[13] A1
[51] **Int.Cl. A61B 17/14 (2006.01)**
[25] EN
[54] **SHEATHED SURGICAL SAW BLADE WITH BEARINGS**
[54] **LAME DE SCIE CHIRURGICALE GAINEE A ROULEMENTS**
[72] SIEH, JOHN, US
[72] GONZALEZ, DAVID, US
[71] CONMED CORPORATION, US
[85] 2020-08-14
[86] 2019-03-05 (PCT/US2019/020677)
[87] (WO2019/173285)
[30] US (62/639,040) 2018-03-06
[30] US (62/724,914) 2018-08-30

[21] **3,091,363**
[13] A1
[51] **Int.Cl. A61L 27/38 (2006.01) A61L 27/46 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **THREE DIMENSIONALLY SHAPED BIOFABRICATED MATERIALS AND METHODS OF MANUFACTURE**
[54] **MATERIAUX BIOFABRIQUES DE FORME TRIDIMENSIONNELLE ET PROCEDES DE FABRICATION**
[72] BABIN, NICHOLAS JOHN, US
[72] SPARKS, KEVIN, US
[72] SPINELLA, STEPHEN, US
[72] PURCELL, BRENDAN PATRICK, US
[71] MODERN MEADOW, INC., US
[85] 2020-08-14
[86] 2019-03-05 (PCT/US2019/020768)
[87] (WO2019/173351)
[30] US (62/638,670) 2018-03-05

[21] **3,091,365**
[13] A1
[51] **Int.Cl. C07F 5/02 (2006.01) A61K 31/69 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ARGINASE INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE L'ARGINASE ET LEURS PROCEDES D'UTILISATION**
[72] MLYNARSKI, SCOTT NATHAN, US
[72] GREBE, TYLER, US
[72] KAWATKAR, SAMEER, US
[72] FINLAY, MAURICE RAYMOND VERSCHOYLE, GB
[72] SIMPSON, IAIN, GB
[72] WANG, JIANYAN, US
[72] COOK, STEVE, US
[72] WU, DEDONG, US
[71] ASTRAZENECA AB, SE
[85] 2020-08-14
[86] 2019-02-15 (PCT/IB2019/051236)
[87] (WO2019/159120)
[30] US (62/631,659) 2018-02-17
[30] US (62/671,576) 2018-05-15
[30] US (62/721,113) 2018-08-22
[30] US (62/778,002) 2018-12-11

[21] **3,091,367**
[13] A1
[51] **Int.Cl. A01N 47/34 (2006.01)**
[25] EN
[54] **ENHANCED YIELD IN NUT BEARING PLANTS**
[54] **RENDEMENT AUGMENTE DANS DES PLANTES A NOIX**
[72] ALLRED, DARIN, US
[71] UPL CORPORATION LTD., MU
[85] 2020-08-14
[86] 2019-02-15 (PCT/US2019/018314)
[87] (WO2019/161274)
[30] US (62/710,593) 2018-02-16

[21] **3,091,371**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01) C12N 5/00 (2006.01) C12Q 1/02 (2006.01) G01N 33/48 (2006.01) G01N 33/483 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **A MICROFLUIDIC DEVICE FOR CULTURING CELLS COMPRISING A BIOWALL, A BEAD BED AND A BIOINTERFACE AND METHODS OF MODELLING SAID BIOINTERFACE THEREOF**
[54] **DISPOSITIF MICROFLUIDIQUE POUR CULTIVER DES CELLULES, COMPRENANT UNE BIOPAROI, UN LIT DE BILLES ET UNE BIOINTERFACE, ET PROCEDES POUR MODELISER LADITE BIOINTERFACE**
[72] VERES, TEODOR, CA
[72] HOA, XUYEN DAI, CA
[72] DAOUD, JAMAL, CA
[72] MIVILLE-GODIN, CAROLINE, CA
[72] MALIC, LIDIJA, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2020-08-14
[86] 2019-02-18 (PCT/IB2019/051298)
[87] (WO2019/159149)
[30] US (62/631,977) 2018-02-19

[21] **3,091,373**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **CANCER TREATMENT USING COMBINATION OF NEUTROPHIL MODULATOR WITH MODULATOR OF IMMUNE CHECKPOINT**
[54] **TRAITEMENT DU CANCER A L'AIDE D'UNE COMBINAISON D'UN MODULATEUR DE NEUTROPHILES AVEC UN MODULATEUR DE POINT DE CONTROLE IMMUNITAIRE**
[72] REDKA, SANJEEV, US
[72] REDDY, MAMMATHA, US
[71] APOLLOMICS INC., US
[85] 2020-08-14
[86] 2019-02-17 (PCT/US2019/018377)
[87] (WO2019/161320)
[30] US (62/631,771) 2018-02-17
[30] US (62/757,729) 2018-11-08

[21] **3,091,374**
[13] A1
[51] **Int.Cl. B32B 15/08 (2006.01) B32B 15/09 (2006.01) B32B 15/092 (2006.01)**
[25] EN
[54] **COALESCING AGENTS FOR WATERBORNE COATINGS**
[54] **AGENTS DE COALESCENCE POUR REVETEMENTS AQUEUX**
[72] WU, WENJUN, US
[72] SCHNEIDER, JEFFREY A., US
[72] DONNELLY, ZUZANNA, US
[72] PEDERSON, ALEX R., US
[72] ARENDT, JEFFREY P., US
[72] DU, AN, US
[71] ARKEMA INC., US
[85] 2020-08-14
[86] 2019-02-18 (PCT/US2019/018398)
[87] (WO2019/161323)
[30] US (62/631,966) 2018-02-19

[21] **3,091,378**
[13] A1
[51] **Int.Cl. A61K 8/37 (2006.01) A61K 8/02 (2006.01) A61K 8/92 (2006.01) A61Q 15/00 (2006.01)**
[25] EN
[54] **DEODORANT COMPOSITIONS**
[54] **COMPOSITIONS DE DEODORANT**
[72] STURGIS, DAVID ARTHUR, US
[72] BRITT, LINDSEY MICHELLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2020-08-14
[86] 2019-03-18 (PCT/US2019/022660)
[87] (WO2019/182926)
[30] US (62/647,104) 2018-03-23

[21] **3,091,381**
[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/37 (2006.01) A61K 8/49 (2006.01) A61K 8/92 (2006.01) A61Q 15/00 (2006.01)**
[25] EN
[54] **ANTIPERSPIRANT AND DEODORANT COMPOSITIONS**
[54] **COMPOSITIONS ANTITRANSPIRANTES ET DEODORANTES**
[72] STURGIS, DAVID ARTHUR, US
[72] BRITT, LINDSEY MICHELLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2020-08-14
[86] 2019-03-18 (PCT/US2019/022661)
[87] (WO2019/182927)
[30] US (62/647,111) 2018-03-23

[21] **3,091,385**
[13] A1
[51] **Int.Cl. C11D 3/40 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES**
[72] MIRACLE, GREGORY SCOT, US
[72] DITULLIO, DANIEL DALE, US
[71] THE PROCTOR & GAMBLE COMPANY, US
[85] 2020-08-14
[86] 2019-03-18 (PCT/US2019/022663)
[87] (WO2019/182929)
[30] US (62/645,821) 2018-03-21

[21] **3,091,386**
[13] A1
[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **DYNAMIC INTERFERENCE REDUCTION FOR ANTENNA BEAM TRACKING SYSTEMS**
[54] **REDUCTION D'INTERFERENCE DYNAMIQUE POUR SYSTEMES DE SUIVI DE FAISCEAU D'ANTENNE**
[72] DIFONZO, DANIEL F., US
[72] TURPIN, JEREMIAH P., US
[71] ISOTROPIC SYSTEMS LTD., GB
[85] 2020-08-14
[86] 2019-03-11 (PCT/IB2019/051963)
[87] (WO2019/171360)
[30] US (62/640,960) 2018-03-09

[21] **3,091,389**
[13] A1
[51] **Int.Cl. A61B 18/24 (2006.01) A61B 17/22 (2006.01) A61N 5/00 (2006.01)**
[25] EN
[54] **OPTIMIZATION OF BPH TREATMENT USING HOLEP (HOLMIUM LASER ENUCLEATION OF PROSTATE)**
[54] **OPTIMISATION DU TRAITEMENT DE L'HYPERTROPHIE BENIGNE DE LA PROSTATE (HBP) A L'AIDE D'UNE ENUCLEATION DE LA PROSTATE AU LASER HOLMIUM (HOLEP)**
[72] KHACHATUROV, ARKADY, IL
[72] WAISMAN, TAL, IL
[72] BENISTY, EYAL, IL
[72] FELDCHTEIN, MIKHAEL, IL
[71] LUMENIS LTD., IL
[85] 2020-08-14
[86] 2019-03-28 (PCT/IL2019/050362)
[87] (WO2019/186564)
[30] US (62/649,930) 2018-03-29

[21] **3,091,390**
[13] A1
[51] **Int.Cl. C11D 3/40 (2006.01) C11D 3/37 (2006.01) C11D 11/00 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **LAUNDRY CARE COMPOSITION**
[54] **COMPOSITION DE SOINS POUR LE LINGE**
[72] MIRACLE, GREGORY SCOT, US
[72] DITULLIO, DANIEL DALE, US
[71] THE PROCTOR & GAMBLE COMPANY, US
[85] 2020-08-14
[86] 2019-03-18 (PCT/US2019/022664)
[87] (WO2019/182930)
[30] US (62/645,822) 2018-03-21

[21] **3,091,391**
[13] A1
[51] **Int.Cl. A61F 2/06 (2013.01) A61F 2/844 (2013.01) A61F 2/82 (2013.01) A61F 2/86 (2013.01) A61F 2/90 (2013.01) B32B 1/08 (2006.01) F15D 1/04 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR ENHANCED FLOW STENT DEVICE**
[54] **PROCEDES ET APPAREIL POUR UN DISPOSITIF DE TYPE ENDOPROTHESE A CIRCULATION AMELIOREE**
[72] PORTER, CHRISTOPHER A., US
[71] HIGH DESERT RADIOLOGY, P.C., US
[85] 2020-08-14
[86] 2019-04-09 (PCT/US2019/026485)
[87] (WO2019/209521)
[30] US (15/962,136) 2018-04-25

[21] **3,091,392**
[13] A1
[51] **Int.Cl. B21B 45/02 (2006.01)**
[25] EN
[54] **HYBRID ROLLING MILL**
[54] **LAMINOIR HYBRIDE**
[72] GAENSBAUER, DAVID ANTHONY, US
[72] GANTZER, DAVID EDWARD, US
[71] NOVELIS INC., US
[85] 2020-08-14
[86] 2019-06-13 (PCT/US2019/036958)
[87] (WO2019/241512)
[30] US (62/684,437) 2018-06-13

[21] **3,091,393**
[13] A1
[51] **Int.Cl. C21D 9/573 (2006.01) B21B 37/28 (2006.01) B21B 37/44 (2006.01) B21B 38/02 (2006.01) B21B 45/02 (2006.01) C21D 1/60 (2006.01) C21D 1/62 (2006.01) C21D 11/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR QUENCHING A METAL STRIP AFTER ROLLING**
[54] **SYSTEMES ET PROCEDES DE TREMPE D'UNE BANDE METALLIQUE APRES LAMINAGE**
[72] GAENSBAUER, DAVID ANTHONY, US
[72] HOBBIS, ANDREW JAMES, CA
[71] NOVELIS INC., US
[85] 2020-08-14
[86] 2019-06-13 (PCT/US2019/036962)
[87] (WO2019/241514)
[30] US (62/684,428) 2018-06-13

[21] **3,091,394**
[13] A1
[51] **Int.Cl. A61B 5/01 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **RUMINAL BOLUS FOR TRACKING BOVINES**
[54] **BOLUS RUMINAL POUR SUIVRE DES BOVINS**
[72] MAGGAZZU, GIUSEPPE, IT
[72] PRESTI, DARIO, IT
[72] BENEDETTO, ROSA, IT
[72] BLAND, RAMSEY, US
[72] HOCH, MARTIN, US
[71] MOVMENT LLC, US
[85] 2020-08-15
[86] 2019-02-19 (PCT/US2019/018600)
[87] (WO2019/161397)
[30] US (62/632,158) 2018-02-19

[21] **3,091,397**
[13] A1
[51] **Int.Cl. H01L 51/52 (2006.01) H01L 33/10 (2010.01) H01L 51/54 (2006.01) H01L 51/56 (2006.01)**
[25] EN
[54] **OLED MICROCAVITY DESIGN AND OPTIMIZATION METHOD**
[54] **CONCEPTION DE MICROCAVITE OLED ET PROCEDE D'OPTIMISATION**
[72] CAMPBELL, JENNIFER, CA
[72] CHENG, JIAQI, CA
[72] PECKHAM, JORDAN, CA
[71] AVALON HOLOGRAPHICS INC., CA
[85] 2020-08-17
[86] 2018-07-11 (PCT/CA2018/050843)
[87] (WO2019/165536)
[30] US (15/909,968) 2018-03-01

[21] **3,091,398**
[13] A1
[51] **Int.Cl. G03B 21/604 (2014.01) G03B 21/602 (2014.01) H04N 13/351 (2018.01) H04N 13/363 (2018.01) F41H 5/08 (2006.01) G03B 21/10 (2006.01)**
[25] EN
[54] **DISPLAY SYSTEM**
[54] **SYSTEME D'AFFICHAGE**
[72] CRAMER, GUY, CA
[71] HYPERSTEALTH BIOTECHNOLOGY CORPORATION, CA
[85] 2020-08-17
[86] 2019-02-13 (PCT/CA2019/000019)
[87] (WO2019/161478)
[30] US (62/632,526) 2018-02-20
[30] US (62/693,959) 2018-07-04

[21] **3,091,399**
[13] A1
[51] **Int.Cl. H04W 36/18 (2009.01) H04W 36/02 (2009.01) H04W 40/36 (2009.01) H04W 84/12 (2009.01) H04W 76/15 (2018.01)**
[25] EN
[54] **METHOD AND COMPUTER DEVICE FOR TRANSMITTING AN INFORMATION STREAM ASSOCIATED WITH A USER DEVICE**
[54] **PROCEDE ET DISPOSITIF INFORMATIQUE POUR TRANSMETTRE UN FLUX D'INFORMATIONS ASSOCIE A UN DISPOSITIF UTILISATEUR**
[72] SEGUIN, DANIEL, CA
[71] BOMBARDIER INC., CA
[85] 2020-08-17
[86] 2019-02-18 (PCT/CA2019/050193)
[87] (WO2019/157601)
[30] US (62/632,160) 2018-02-19

[21] **3,091,401**
[13] A1
[51] **Int.Cl. F16N 1/00 (2006.01) F16C 33/66 (2006.01) F16H 55/36 (2006.01) F16H 57/04 (2010.01) F16N 21/02 (2006.01)**
[25] EN
[54] **GREASABLE IDLER PULLEY AND RELATED KIT AND METHOD**
[54] **POULIE LIBRE POUVANT ETRE GRAISSEE ET KIT ET PROCEDE ASSOCIES**
[72] BOURGAULT, JOSEPH L., CA
[72] NAGY, FRANK, CA
[72] SORIANO, ROBERTO P., CA
[72] BIGELOW, DEAN M., CA
[72] THEIS, DYLAN CHADWICK NOBLE, CA
[71] F. P. BOURGAULT TILLAGE TOOLS LTD., CA
[85] 2020-08-17
[86] 2019-02-20 (PCT/CA2019/050201)
[87] (WO2019/161489)
[30] US (62/632,801) 2018-02-20

[21] **3,091,402**
[13] A1
[51] **Int.Cl. G08G 1/07 (2006.01) H04W 4/44 (2018.01) G08G 1/087 (2006.01) H04L 9/00 (2006.01) H04L 12/66 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING A DIGITAL INTERSECTION**
[54] **SYSTEME ET PROCEDE DE FOURNITURE D'UNE INTERSECTION NUMERIQUE**
[72] BHAVNANI, JEAN-PIERRE, CA
[72] THOMPSON, DAVID G., CA
[72] ABBOTT, TYLER R.W., CA
[72] IGNOR, MATTHEW M., CA
[72] PRICE, JOHN E., CA
[72] MCBRIDE, KURTIS N., CA
[71] MIOVISION TECHNOLOGIES INCORPORATED, CA
[85] 2020-08-17
[86] 2019-02-21 (PCT/CA2019/050215)
[87] (WO2019/161501)
[30] US (62/633,519) 2018-02-21

[21] **3,091,403**
[13] A1
[51] **Int.Cl. C09D 1/00 (2006.01) C09D 7/40 (2018.01) C09D 7/63 (2018.01) C09D 5/00 (2006.01) C09D 5/08 (2006.01)**
[25] EN
[54] **PROTECTIVE COATING COMPOSITION FOR SUBSTRATES IN CONTACT WITH MOLTEN METAL**
[54] **COMPOSITION DE REVETEMENT PROTECTEUR POUR SUBSTRATS EN CONTACT AVEC DU METAL FONDU**
[72] GOUIN, MARCEL, CA
[72] VEILLETTE, FRANCOIS, CA
[72] SIMARD, ALAIN, CA
[71] PYROTEK HIGH-TEMPERATURE INDUSTRIAL PRODUCTS INC., CA
[85] 2020-08-17
[86] 2019-02-22 (PCT/CA2019/050222)
[87] (WO2019/161507)
[30] US (62/634,482) 2018-02-23

[21] **3,091,404**
[13] A1
[51] **Int.Cl. H04W 64/00 (2009.01)**
[25] EN
[54] **ROBUST ADJUSTMENT OF ACCESS AND MOBILITY MANAGEMENT FUNCTIONS**
[54] **AJUSTEMENT ROBUSTE DE FONCTIONS DE GESTION D'ACCES ET DE MOBILITE**
[72] ZHU, JINGUO, CN
[71] ZTE CORPORATION, CN
[85] 2020-08-17
[86] 2017-06-20 (PCT/CN2017/089202)
[87] (WO2018/232599)

[21] **3,091,405**
[13] A1
[51] **Int.Cl. G06N 3/08 (2006.01)**
[25] EN
[54] **MODEL TRAINING SYSTEM AND METHOD, AND STORAGE MEDIUM**
[54] **SYSTEME ET PROCEDE D'APPRENTISSAGE DE MODELE ET SUPPORT D'INFORMATIONS**
[72] CHEN, PU, CN
[72] LIAO, QIAOBO, CN
[71] HUAWEI TECHNOLOGIES, CO., LTD., CN
[85] 2020-08-17
[86] 2018-11-06 (PCT/CN2018/114082)
[87] (WO2019/105189)
[30] CN (201711227185.X) 2017-11-29

[21] **3,091,413**
[13] A1
[51] **Int.Cl. A01N 43/00 (2006.01) A61K 31/00 (2006.01) A61K 47/00 (2006.01)**
[25] EN
[54] **TRIAZOLE-CONTAINING MACROLIDES AND OPHTHALMIC USES THEREFOR**
[54] **MACROLIDES CONTENANT UN TRIAZOLE ET UTILISATIONS OPHTALMIQUES DE CEUX-CI**
[72] FERNANDES, PRABHAVATHI, US
[72] PEREIRA, DAVID EUGENE, US
[72] WU, SARA, US
[71] CEMPRA PHARMACEUTICALS, INC., US
[71] FERNANDES, PRABHAVATHI, US
[71] PEREIRA, DAVID EUGENE, US
[71] WU, SARA, US
[85] 2020-08-17
[86] 2018-02-16 (PCT/US2018/018523)
[87] (WO2018/152424)
[30] US (62/460,143) 2017-02-17

[21] **3,091,414**
[13] A1
[51] **Int.Cl. A61K 38/10 (2006.01) A61K 38/16 (2006.01) A61K 48/00 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01) A61P 35/00 (2006.01) A61Q 5/00 (2006.01) A61Q 19/02 (2006.01) C12N 15/00 (2006.01)**
[25] EN
[54] **PD-1 PEPTIDE INHIBITORS**
[54] **INHIBITEURS PEPTIDIQUES DE PD-1**
[72] GUTIERREZ, GABRIEL M., US
[72] KOTRAIAH, VINAYAKA, US
[72] PANNUCCI, JAMES, US
[72] AYALA, RAMSES, US
[71] LEIDOS, INC., US
[85] 2020-08-17
[86] 2018-02-28 (PCT/US2018/020209)
[87] (WO2019/168524)
[30] US (15/906,481) 2018-02-27

[21] **3,091,415**
[13] A1
[51] **Int.Cl. H04N 21/44 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SCHEDULING A COMMUNICATION SESSION BASED ON MEDIA ASSET COMMUNICATION DATA**
[54] **SYSTEMES ET PROCEDES DE PLANIFICATION D'UNE SESSION DE COMMUNICATION SUR LA BASE DE DONNEES DE COMMUNICATION D'ACTIF MULTIMEDIA**
[72] CASTANEDA, EVANGELINE, US
[72] DEVER, SARA, US
[72] WANG, TI-SHIANG, US
[71] ROVI GUIDES, INC., US
[85] 2020-08-17
[86] 2018-03-07 (PCT/US2018/021414)
[87] (WO2019/172906)

[21] **3,091,416**
[13] A1
[51] **Int.Cl. A47G 25/06 (2006.01) A47G 25/90 (2006.01)**
[25] EN
[54] **PERSONAL RADIATION GARMENT SUSPENSION SYSTEM**
[54] **SYSTEME DE SUSPENSION DE VETEMENT PERSONNEL DE PROTECTION CONTRE LES RAYONNEMENTS**
[72] MONIR, GEORGE, US
[71] MONIR, GEORGE, US
[85] 2020-08-17
[86] 2019-01-21 (PCT/US2019/014420)
[87] (WO2019/147517)
[30] US (62/623,237) 2018-01-29
[30] US (16/001,250) 2018-06-06

[21] **3,091,417**
[13] A1
[51] **Int.Cl. B60J 3/02 (2006.01)**
[25] EN
[54] **SLIDING VISOR**
[54] **PARE-SOLEIL COULISSANT**
[72] HUFF, DAVID, US
[72] LEVINE, AARON, US
[71] IRVIN AUTOMOTIVE PRODUCTS, LLC, US
[85] 2020-08-17
[86] 2019-01-31 (PCT/US2019/016023)
[87] (WO2019/177708)
[30] US (15/919,357) 2018-03-13

[21] **3,091,418**
[13] A1
[51] **Int.Cl. A61L 9/22 (2006.01) B08B 1/00 (2006.01) B08B 1/04 (2006.01) H01J 27/02 (2006.01)**
[25] EN
[54] **SELF CLEANING ION GENERATOR DEVICE**
[54] **DISPOSITIF GENERATEUR D'IONS AUTONETTOYANT**
[72] WADDELL, CHARLES HOUSTON, US
[71] GLOBAL PLASMA SOLUTIONS, INC, US
[85] 2020-08-17
[86] 2019-02-11 (PCT/US2019/017424)
[87] (WO2019/157419)
[30] US (62/629,295) 2018-02-12

[21] **3,091,419**
[13] A1
[51] **Int.Cl. G06Q 40/00 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTHENTICATED SHARIA LAW COMPLIANT LOTTERY, SPORTS BETTING AND GAMING**
[54] **SYSTEME ET PROCEDE DE LOTERIE, DE PARIS SPORTIFS ET DE JEU AUTHENTIFIES CONFORMES A LA LOI ISLAMIQUE**
[72] RAMMAL, KARIM ANWAR, US
[71] RAMMAL, KARIM ANWAR, US
[85] 2020-08-14
[86] 2019-02-11 (PCT/US2019/017553)
[87] (WO2019/160823)
[30] US (62/631,547) 2018-02-16
[30] US (62/673,373) 2018-05-18

[21] **3,091,420**
[13] A1
[51] **Int.Cl. A61K 41/00 (2020.01) A61N 5/10 (2006.01)**
[25] EN
[54] **SYSTEM FOR THE DIRECT PRODUCTION OF THERAPEUTIC YTTRIUM-90 FOR CANCER TREATMENT**
[54] **SYSTEME DE PRODUCTION DIRECTE D'YTTRIUM-90 THERAPEUTIQUE POUR LE TRAITEMENT DU CANCER**
[72] HEIBEL, MICHAEL D., US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2020-08-17
[86] 2019-02-13 (PCT/US2019/017793)
[87] (WO2020/036627)
[30] US (62/631,737) 2018-02-17

[21] **3,091,421**
[13] A1
[51] **Int.Cl. A61K 41/00 (2020.01) A61N 5/10 (2006.01)**
[25] EN
[54] **THERAPEUTIC ELECTRON RADIATOR FOR CANCER TREATMENT**
[54] **EMETTEUR D'ELECTRONS THERAPEUTIQUES POUR LE TRAITEMENT DU CANCER**
[72] HEIBEL, MICHAEL D., US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2020-08-17
[86] 2019-02-13 (PCT/US2019/017821)
[87] (WO2019/160931)
[30] US (62/631,734) 2018-02-17

[21] **3,091,422**
[13] A1
[51] **Int.Cl. D06M 10/00 (2006.01) A47L 17/08 (2006.01) D06M 11/36 (2006.01) D06M 11/49 (2006.01) D06M 11/58 (2006.01) D06M 15/263 (2006.01) D06M 15/507 (2006.01) D06M 15/55 (2006.01) D06M 15/564 (2006.01) D06M 23/08 (2006.01)**
[25] EN
[54] **METAL DETECTABLE SCOURING PAD**
[54] **TAMPON A RECURER DETECTABLE COMME DU METAL**
[72] MARTIN, ROBERT, US
[72] DI BENEDETTO, MARIO, IT
[71] ILLINOIS TOOL WORKS INC., US
[85] 2020-08-17
[86] 2019-02-14 (PCT/US2019/018013)
[87] (WO2019/161057)
[30] US (62/632,087) 2018-02-19
[30] US (16/274,977) 2019-02-13

[21] **3,091,423**
[13] A1
[51] **Int.Cl. C07D 209/08 (2006.01) C07D 403/12 (2006.01)**
[25] EN
[54] **HEPTAMETHINE CYANINES FOR USE AS FLUORESCENT MARKERS OF THE BILIARY AND RENAL SYSTEMS**
[54] **CYANINES D'HEPTAMETHINE DESTINEES A ETRE UTILISEES EN TANT QUE MARQUEURS FLUORESCENTS DES SYSTEMES BILIAIRES ET RENAUX**
[72] SCHNERMANN, MARTIN JOHN, US
[72] KIM, PETER C. W., US
[72] CHA, JAEPYEONG, US
[72] NANI, ROGER RAUHAUSER, US
[71] CHILDREN'S NATIONAL MEDICAL CENTER, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2020-08-17
[86] 2019-02-14 (PCT/US2019/018057)
[87] (WO2019/161091)
[30] US (62/631,390) 2018-02-15

[21] **3,091,424**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **MULTI-SPECIFIC BINDING PROTEINS THAT BIND CD33, NKG2D, AND CD16, AND METHODS OF USE**
[54] **PROTEINES DE LIAISON MULTI-SPECIFIQUES QUI SE LIENT A CD33, NKG2D ET CD16, ET PROCEDES D'UTILISATION**
[72] CHANG, GREGORY P., US
[72] CHEUNG, ANN F., US
[72] GRINBERG, ASYA, US
[72] SETHI, DHRUV KAM, US
[72] HANEY, WILLIAM, US
[72] PRINZ, BIANKA, US
[72] LUNDE, BRADLEY M., US
[71] DRAGONFLY THERAPEUTICS, INC., US
[85] 2020-08-17
[86] 2019-02-20 (PCT/US2019/018751)
[87] (WO2019/164930)
[30] US (62/632,756) 2018-02-20
[30] US (62/677,137) 2018-05-28

[21] **3,091,425**
[13] A1
[51] **Int.Cl. A47J 27/12 (2006.01) A47J 27/084 (2006.01)**
[25] EN
[54] **A MULTI-PURPOSE COOKING SET**
[54] **USTENSILE DE CUISINE POLYVALENT**
[72] TAYEFEH HOJATY, SEIED HASSAN, IR
[71] TAYEFEH HOJATY, SEIED HASSAN, IR
[85] 2020-08-15
[86] 2018-07-24 (PCT/IB2018/055480)
[87] (WO2020/021304)

[21] **3,091,426**
[13] A1
[51] **Int.Cl. G08B 17/12 (2006.01) G01W 1/08 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **HEAT SOURCE DETECTION DEVICE**
[54] **DISPOSITIF DE DETECTION DE SOURCE DE CHALEUR**
[72] SASAGAWA, CHIHARU, JP
[72] OGAI, TAKASHI, JP
[71] IHI CORPORATION, JP
[85] 2020-08-17
[86] 2019-02-19 (PCT/JP2019/006110)
[87] (WO2019/160161)
[30] JP (2018-027194) 2018-02-19

[21] **3,091,427**
[13] A1
[51] **Int.Cl. F01N 3/10 (2006.01) F01N 13/14 (2010.01) F01N 1/02 (2006.01) F01N 3/20 (2006.01) F01N 3/28 (2006.01)**
[25] EN
[54] **TWO-STROKE ENGINE EXHAUST RESONATOR WITH EXHAUST GAS CATALYTIC CONVERTER**
[54] **RESONATEUR D'ECHAPPEMENT DE MOTEUR A DEUX TEMPS COMPORTANT UN CONVERTISSEUR CATALYTIQUE DE GAZ D'ECHAPPEMENT**
[72] SULA, MARTIN, XX
[71] SULA, MARTIN, AF
[85] 2020-08-17
[86] 2019-02-19 (PCT/CZ2019/050006)
[87] (WO2019/158138)
[30] CZ (PV 2018-80) 2018-02-19

[21] **3,091,428**
[13] A1
[51] **Int.Cl. G06K 7/00 (2006.01) G06K 7/10 (2006.01) G06K 9/18 (2006.01)**
[25] EN
[54] **SECURE MACHINE READABLE CODE-EMBEDDED DIAGNOSTIC TEST**
[54] **DISPOSITIF SECURISE D'EXAMEN DE DIAGNOSTIC, INTEGRE A UN CODE LISIBLE PAR MACHINE**
[72] SCHERR, THOMAS F., US
[71] PRAGMADX, INC., US
[85] 2020-08-17
[86] 2019-02-19 (PCT/US2019/018487)
[87] (WO2019/161359)
[30] US (62/631,985) 2018-02-19
[30] US (16/279,016) 2019-02-19

[21] **3,091,429**
[13] A1
[51] **Int.Cl. B23K 20/12 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR AVOIDING AN INTERRUPTION IN THE WELDING PROCESS DURING FRICTION STIR WELDING, IN PARTICULAR BREAKAGE OF THE FRICTION PIN**
[54] **DISPOSITIF ET PROCEDE SERVANT A EVITER UNE INTERRUPTION DU PROCESSUS DE SOUDAGE LORS DU SOUDAGE PAR AGITATION-FRICTION, EN PARTICULIER UNE RUPTURE DE LA TIGE DE FRICTION**
[72] WEIGL, MARKUS, DE
[71] GRENZEBACH MASCHINENBAU GMBH, DE
[85] 2020-08-17
[86] 2019-02-22 (PCT/DE2019/000044)
[87] (WO2019/170182)
[30] DE (10 2018 001 774.6) 2018-03-06

[21] **3,091,430**
[13] A1
[51] **Int.Cl. B65D 81/34 (2006.01) A47J 36/02 (2006.01) B65D 5/02 (2006.01)**
[25] EN
[54] **MICROWAVE POPCORN BAG**
[54] **SAC DE POPCORN POUR MICRO-ONDES**
[72] FRANCE, DAVID W., US
[71] CONAGRA FOODS RDM, INC., US
[85] 2020-08-17
[86] 2019-02-19 (PCT/US2019/018512)
[87] (WO2019/161369)
[30] US (62/632,078) 2018-02-19

[21] **3,091,431**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/82 (2006.01)**
[25] EN
[54] **CONTROL OF INSECT PESTS USING RNA MOLECULES**
[54] **LUTTE CONTRE LES INSECTES NUISIBLES A L'AIDE DE MOLECULES D'ARN**
[72] NAUDET, YANN, BE
[72] DE SCHRIJVER, LIEN, BE
[72] CAPPELLE, KAAT, BE
[72] DENORME, STEFFY, BE
[71] DEVGEN NV, BE
[85] 2020-08-17
[86] 2019-02-13 (PCT/EP2019/053552)
[87] (WO2019/162163)
[30] US (62/634977) 2018-02-26

[21] **3,091,432**
[13] A1
[51] **Int.Cl. A46B 5/00 (2006.01) B25G 1/04 (2006.01) E04H 12/18 (2006.01) F16C 11/10 (2006.01)**
[25] EN
[54] **COLLAPSIBLE HANDLE FOR A TOOL**
[54] **POIGNEE PLIABLE POUR UN OUTIL**
[72] STANISZEWSKI, MEGAN, US
[72] DUTTON, MIA, US
[71] SPRINGFIELD INNOVATION GROUP LLC, US
[85] 2020-08-17
[86] 2019-02-19 (PCT/US2019/018555)
[87] (WO2019/161379)
[30] US (62/632,130) 2018-02-19

[21] **3,091,433**
[13] A1
[51] **Int.Cl. G01N 31/22 (2006.01) G01N 21/64 (2006.01) G01N 21/78 (2006.01)**
[25] EN
[54] **METHOD OF MEASURING BENZIMIDAZOLE-BASED COMPOUNDS IN WATER**
[54] **PROCEDE DE MESURE DE COMPOSES A BASE DE BENZIMIDAZOLE DANS DE L'EAU**
[72] DHAKE, KISHOR PADMAKAR, IN
[72] THAKUR, ANUP PANDURANG, IN
[72] MICHELS, JAMES JOSEPH, US
[71] ECOLAB USA INC., US
[85] 2020-08-17
[86] 2019-02-21 (PCT/US2019/018889)
[87] (WO2019/168731)
[30] US (62/636,928) 2018-03-01

[21] **3,091,434**
[13] A1
[51] **Int.Cl. A61K 8/46 (2006.01) A61Q 3/00 (2006.01) A61Q 5/04 (2006.01)**
[25] EN
[54] **COVALENT TREATMENT WITH THIOLS OF KERATIN-CONTAINING MATERIALS**
[54] **TRAITEMENT COVALENT AVEC DES THIOLS DE MATERIAUX CONTENANT DE LA KERATINE**
[72] KANG, SOO-YOUNG, US
[72] JI, ZHAOXIA, US
[72] JOHNSON, SARA A., US
[72] VILLANUEVA, DINARA A., US
[72] ABEYRATHNA, NAWODI, US
[72] JOHNSON, JEREMIAH A., US
[71] LIVING PROOF, INC., US
[85] 2020-08-17
[86] 2019-02-19 (PCT/US2019/018581)
[87] (WO2019/164841)
[30] US (62/632,947) 2018-02-20

[21] **3,091,435**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **PUBLICITY-ASSOCIATED INFORMATION PROCESSING DEVICE AND PROGRAM**
[54] **DISPOSITIF ET PROGRAMME DE TRAITEMENT D'INFORMATIONS ASSOCIEES A LA PUBLICITE**
[72] SHIMIZU, NAOKI, JP
[72] KASAHARA, SHIGETO, JP
[71] DENTSU GROUP INC., JP
[85] 2020-08-17
[86] 2019-02-21 (PCT/JP2019/006647)
[87] (WO2019/167808)
[30] JP (2018-033704) 2018-02-27

[21] **3,091,436**
[13] A1
[51] **Int.Cl. A61K 36/9066 (2006.01) A61K 9/48 (2006.01) A61K 31/12 (2006.01) A61K 31/375 (2006.01) A61K 31/575 (2006.01) A61K 36/888 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NUTRITIONAL SUPPLEMENT FOR MAMMALS**
[54] **SUPPLEMENT NUTRITIONNEL POUR MAMMIFERES**
[72] CROW, LARRY D., US
[72] ZAID, GENE H., US
[72] WOLF, BETH ANN, US
[72] MOORE, ROBERT PRESTON, US
[72] ROPP, RACHEL ELIZABETH, US
[71] ANKH LIFE SCIENCES LIMITED, IE
[85] 2020-08-17
[86] 2019-02-21 (PCT/US2019/018880)
[87] (WO2019/165023)
[30] US (62/634,406) 2018-02-23
[30] US (16/115,284) 2018-08-28
[30] US (16/280,942) 2019-02-20

[21] **3,091,437**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **NEUTRALIZING ANTIBODIES TO HIV-1 ENV AND THEIR USE**
[54] **ANTICORPS NEUTRALISANTS DIRIGES CONTRE LA PROTEINE D'ENVELOPPE (ENV) DU VIH-1 ET LEUR UTILISATION**
[72] KWONG, PETER, US
[72] LUSSO, PAOLO, US
[72] KWON, YOUNG DO, US
[72] LIU, QINGBO, US
[72] MASCOLA, JOHN, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2020-08-17
[86] 2019-02-21 (PCT/US2019/019021)
[87] (WO2019/165122)
[30] US (62/633,517) 2018-02-21
[30] US (62/775,754) 2018-12-05

[21] **3,091,438**
[13] A1
[51] **Int.Cl. A61B 5/01 (2006.01) A61B 5/00 (2006.01) A61B 5/06 (2006.01) G01K 1/08 (2006.01) G01K 7/00 (2006.01)**
[25] EN
[54] **TWO-IN-ONE THERMOMETER**
[54] **THERMOMETRE DEUX-EN-UN**
[72] MCDUFFIE, RICHARD, US
[72] JUHNG, ZOEY, US
[72] TREACY, LYNDON T., US
[72] ZASTAWNY, MATHIEU, US
[72] CAVERO, DIO CLIMACO, US
[72] SANCHEZ, ADAM, US
[72] LERAILLER, THIBAULT, US
[72] KOSTOPOULOS, THEODORE, US
[71] HELEN OF TROY LIMITED, BB
[85] 2020-08-17
[86] 2019-03-08 (PCT/US2019/021283)
[87] (WO2019/173673)
[30] US (62/640,926) 2018-03-09

[21] **3,091,439**
[13] A1
[51] **Int.Cl. C12Q 1/6897 (2018.01) A01K 67/027 (2006.01) A01K 67/033 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01) C12Q 1/00 (2006.01)**
[25] EN
[54] **TRANSGENIC ANIMAL PHENOTYPING PLATFORM AND USES THEREOF**
[54] **PLATE-FORME DE PHENOTYPAGE D'ANIMAUX TRANSGENIQUES ET SES UTILISATIONS**
[72] HOPKINS, CHRISTOPHER, US
[72] BROCK, TRISHA, US
[72] MCCORMICK, KATHRYN, US
[72] HE, GONGPING, US
[71] NEMAMETRIX INC., US
[85] 2020-08-17
[86] 2019-02-21 (PCT/US2019/019027)
[87] (WO2019/165128)
[30] US (62/633,590) 2018-02-21
[30] US (62/653,092) 2018-04-05

[21] **3,091,440**
[13] A1
[51] **Int.Cl. B01D 53/28 (2006.01) F24F 3/147 (2006.01) F28F 3/08 (2006.01) B01J 20/22 (2006.01)**
[25] EN
[54] **HUMIDITY CONTROL ELEMENT AND METHOD FOR USING SAME**
[54] **ELEMENT DE REGULATION D'HUMIDITE ET SON PROCEDE D'UTILISATION**
[72] UEDA, KENTARO, JP
[72] SAKURAI, SAORI, JP
[71] OSAKA GAS CO., LTD., JP
[85] 2020-08-17
[86] 2019-02-26 (PCT/JP2019/007237)
[87] (WO2019/187893)
[30] JP (2018-064015) 2018-03-29

[21] **3,091,441**
[13] A1
[51] **Int.Cl. A42B 3/06 (2006.01)**
[25] EN
[54] **CONNECTOR**
[54] **RACCORD**
[72] PIETRZAK, CHRISTOPHER, SE
[71] MIPS AB, SE
[85] 2020-08-17
[86] 2019-02-19 (PCT/EP2019/054113)
[87] (WO2019/162281)
[30] GB (1802898.5) 2018-02-22

[21] **3,091,442**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61K 47/00 (2006.01) A61K 47/06 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **POLYPLEX DELIVERY SYSTEM FOR PROTEINS, NUCLEIC ACIDS AND PROTEIN/NUCLEIC ACID COMPLEXES**
[54] **SYSTEME D'ADMINISTRATION DE POLYPLEXES POUR PROTEINES, ACIDES NUCLEIQUES ET COMPLEXES PROTEINE/ACIDE NUCLEIQUE**
[72] GONG, SHAOQIN, US
[72] WANG, YUYUAN, US
[72] SAHA, KRISHANU, US
[72] ABDEEN, AMR ASHRAF, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2020-08-17
[86] 2019-02-21 (PCT/US2019/019051)
[87] (WO2019/165149)
[30] US (62/634,156) 2018-02-22

[21] **3,091,443**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 31/485 (2006.01)**
[25] EN
[54] **TRANSMUCOSAL FILM COMPOSITION AND METHODS OF MAKING AND USING THE SAME**
[54] **COMPOSITION POUR FILM POUR VOIE TRANSMUCOSALE ET PROCEDES DE PREPARATION ET D'UTILISATION DE CELLE-CI**
[72] VASISHT, SAMARTH, US
[72] VASISHT, NIRAJ, US
[71] AVIOR, INC., US
[85] 2020-08-17
[86] 2019-02-22 (PCT/US2019/019150)
[87] (WO2019/165208)
[30] US (62/633,907) 2018-02-22

[21] **3,091,444**
[13] A1
[51] **Int.Cl. A61K 35/37 (2015.01) A61K 35/741 (2015.01) A61P 35/00 (2006.01)**
[25] EN
[54] **MICROBIOME RELATED IMMUNOTHERAPIES**
[54] **IMMUNOTHERAPIES ASSOCIEES AU MICROBIOME**
[72] LOBACKI, JOSEPH, US
[72] THIENEL, ULRICH, US
[72] KASSAM, ZAIN, US
[72] SANTIAGO, MARINA, US
[71] CRESTOVO HOLDINGS LLC, US
[85] 2020-08-17
[86] 2019-02-22 (PCT/US2019/019260)
[87] (WO2019/165285)
[30] US (62/634,503) 2018-02-23
[30] US (62/743,792) 2018-10-10
[30] US (62/743,794) 2018-10-10

[21] **3,091,445**
[13] A1
[51] **Int.Cl. H01M 8/04828 (2016.01) H01M 8/04492 (2016.01) H01M 8/04701 (2016.01) H01M 8/0606 (2016.01) H01M 8/0662 (2016.01) C01B 3/38 (2006.01) H01M 8/12 (2016.01)**
[25] EN
[54] **FUEL CELL SYSTEM AND METHOD FOR OPERATING FUEL CELL SYSTEM**
[54] **SYSTEME DE PILE A COMBUSTIBLE ET PROCEDE DE FONCTIONNEMENT D'UN SYSTEME DE PILE A COMBUSTIBLE**
[72] SHINKE, NORITOSHI, JP
[72] ECHIGO, MITSUAKI, JP
[71] OSAKA GAS CO., LTD., JP
[85] 2020-08-17
[86] 2019-03-06 (PCT/JP2019/008945)
[87] (WO2019/172337)
[30] JP (2018-040449) 2018-03-07

[21] **3,091,446**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/00 (2006.01) A61B 17/06 (2006.01) A61B 17/062 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR SUTURE PLACEMENT**
[54] **DISPOSITIFS ET METHODES POUR LA POSE D'UNE SUTURE**
[72] ANDERSON, DAVID GREG, US
[72] KURD, MARK F., US
[72] TAPPER, JAY, US
[72] JOHNSON, JENS, US
[71] DURASTAT LLC, US
[85] 2020-08-17
[86] 2019-02-26 (PCT/US2019/019477)
[87] (WO2019/168803)
[30] US (15/909,408) 2018-03-01

[21] **3,091,447**
[13] A1
[51] **Int.Cl. A23J 1/00 (2006.01) A23K 20/00 (2016.01) A23J 1/14 (2006.01)**
[25] EN
[54] **A DRY OILSEED MEAL PROTEIN FRACTION**
[54] **FRACTION DE PROTEINE DE FARINE DE GRAINES OLEAGINEUSES SECHE**
[72] FROUEL, STEPHANE, FR
[72] PAILLER, STEPHANE, FR
[72] SPIRAERS, ALINE, FR
[71] AVRIL, FR
[85] 2020-08-17
[86] 2019-02-22 (PCT/EP2019/054444)
[87] (WO2019/162440)
[30] EP (18305188.7) 2018-02-23

[21] **3,091,448**
[13] A1
[51] **Int.Cl. B22F 1/00 (2006.01) B33Y 10/00 (2015.01) B33Y 40/00 (2020.01) B33Y 70/00 (2020.01) A61L 31/00 (2006.01) B22F 3/105 (2006.01) C22C 28/00 (2006.01) C23C 14/34 (2006.01)**
[25] EN
[54] **SPHERICAL TANTALUM POWDER, PRODUCTS CONTAINING THE SAME, AND METHODS OF MAKING THE SAME**
[54] **POUDRE DE TANTALE SPHERIQUE, PRODUITS LA CONTENANT, ET SES PROCEDES DE PRODUCTION**
[72] SUNGAIL, CRAIG, US
[72] ABID, AAMIR, US
[71] GLOBAL ADVANCED METALS USA, INC., US
[85] 2020-08-17
[86] 2019-02-27 (PCT/US2019/019698)
[87] (WO2020/027874)
[30] US (62/638,328) 2018-03-05
[30] US (62/793,418) 2019-01-17

[21] **3,091,450**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12P 5/02 (2006.01) C12P 7/06 (2006.01)**
[25] EN
[54] **GLUCOAMYLASE ENGINEERED YEAST AND FERMENTATION METHODS**
[54] **LEVURE MODIFIEE A GLUCOAMYLASE ET PROCEDES DE FERMENTATION**
[72] MILLER, CHRIS, US
[72] RUSH, BRIAN, US
[72] STANTON, BRYNNE, US
[72] DUNN, JOSHUA, US
[71] CARGILL, INCORPORATED, US
[85] 2020-08-17
[86] 2019-02-27 (PCT/US2019/019805)
[87] (WO2019/168962)
[30] US (62/636,716) 2018-02-28

[21] **3,091,451**
[13] A1
[51] **Int.Cl. A61F 2/76 (2006.01) A61F 2/78 (2006.01)**
[25] EN
[54] **ADAPTOR FOR MOUNTING A PROSTHESIS**
[54] **ADAPTATEUR POUR LE MONTAGE D'UNE PROTHESE**
[72] BEERENS, MAIKEL MICHAEL ADRIANUS, NL
[72] JANSEN, HARRY CHRISTIAAN ANTOON, NL
[71] XILLOC NEXUS B.V., NL
[85] 2020-08-17
[86] 2019-02-20 (PCT/NL2019/050113)
[87] (WO2019/164394)
[30] NL (2020464) 2018-02-20

[21] **3,091,452**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC MITRAL VALVE WITH IMPROVED ANCHORS AND SEAL**
[54] **VALVE MITRALE PROTHETIQUE DOTEE D'ANCRAGES ET D'UN JOINT D'ETANCHEITE AMELIORES**
[72] COOPER, ALEXANDER H., US
[72] SCHWARTZ, JULIET LAURA, US
[72] PHAM, WENDY VO, US
[72] LUONG, HIEU MINH, US
[72] SANCHEZ, JULIO CESAR, US
[72] PETERSON, MATTHEW A., US
[72] RATZ, J., BRENT, US
[72] AI, LISONG, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2020-08-17
[86] 2019-02-28 (PCT/US2019/019976)
[87] (WO2019/169087)
[30] US (62/636,672) 2018-02-28
[30] US (62/781,817) 2018-12-19
[30] US (16/286,436) 2019-02-26

[21] **3,091,453**
[13] A1
[51] **Int.Cl. G16H 40/40 (2018.01) G06Q 10/00 (2012.01)**
[25] EN
[54] **ELECTRONIC TELEMETRY-BASED DEVICE MONITORING**
[54] **SURVEILLANCE DE DISPOSITIF FONDEE SUR UNE TELEMETRIE ELECTRONIQUE**
[72] TISCHER, WILLIAM DALE, US
[72] TOWNES, TROY EDWARD, US
[71] ERGOTRON, INC., US
[85] 2020-08-17
[86] 2019-02-28 (PCT/US2019/020136)
[87] (WO2019/169191)

[21] **3,091,454**
[13] A1
[51] **Int.Cl. A61K 31/7034 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING ACUTE MYELOID LEUKEMIA AND RELATED CONDITIONS**
[54] **METHODES DE TRAITEMENT DE LA LEUCEMIE AIGUE MYELOIDE ET D'ETATS PATHOLOGIQUES ASSOCIES**
[72] THACKRAY, HELEN M., US
[72] FLANNER, HENRY H., US
[72] WOLFGANG, CURT D., US
[71] GLYCOMIMETICS, INC., US
[85] 2020-08-17
[86] 2019-03-04 (PCT/US2019/020574)
[87] (WO2019/173229)
[30] US (62/638,569) 2018-03-05

[21] **3,091,455**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/111 (2006.01) A01B 63/12 (2006.01) A01B 63/20 (2006.01) A01B 63/30 (2006.01) A01B 71/02 (2006.01) A01C 7/04 (2006.01)**
[25] EN
[54] **AGRICULTURAL TRENCH DEPTH SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES ET APPAREIL DE PROFONDEUR DE TRANCHEE AGRICOLE**
[72] SLONEKER, DILLON, US
[72] HODEL, JEREMY, US
[71] PRECISION PLANTING LLC, US
[85] 2020-08-17
[86] 2019-03-05 (PCT/US2019/020829)
[87] (WO2019/169412)
[30] US (62/683,612) 2018-06-11
[30] US (62/792,384) 2019-01-14

[21] **3,091,456**
[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01) A61K 38/20 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **NOVEL IL-4-/IL-13-DERIVED PEPTIDE COMPOUNDS FOR THE TREATMENT OR PREVENTION OF NEURODEGENERATIVE OR NEUROINFLAMMATORY DISEASES**
[54] **NOUVEAUX COMPOSES PEPTIDIQUES DERIVES DE L'IL-4-/L'IL-13 POUR LE TRAITEMENT OU LA PREVENTION DE MALADIES NEURODEGENERATIVES OU NEUROINFLAMMATOIRES**
[72] VOGELAAR, CHRISTINA FRANCISCA, DE
[72] ZIPP, FRAUKE, DE
[71] UNIVERSITATSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAT MAINZ, DE
[85] 2020-08-17
[86] 2019-02-25 (PCT/EP2019/054532)
[87] (WO2019/166355)
[30] EP (18158758.5) 2018-02-27

[21] **3,091,459**
[13] A1
[51] **Int.Cl. C01B 3/36 (2006.01) C21B 13/00 (2006.01)**
[25] EN
[54] **OXYGEN INJECTION SYSTEM FOR A DIRECT REDUCTION PROCESS**
[54] **SYSTEME D'INJECTION D'OXYGENE POUR UN PROCEDE DE REDUCTION DIRECTE**
[72] MICHISHITA, HARUYASU, US
[72] ELLIOTT, ANTONIO, US
[71] MIDREX TECHNOLOGIES, INC., US
[85] 2020-08-17
[86] 2019-03-25 (PCT/US2019/023832)
[87] (WO2019/190960)
[30] US (62/648,550) 2018-03-27

[21] **3,091,460**
[13] A1
[51] **Int.Cl. B23K 26/24 (2014.01) B23K 26/322 (2014.01) B23K 26/352 (2014.01) B23K 26/60 (2014.01) B23K 26/16 (2006.01)**
[25] EN
[54] **METHOD FOR WELDING PRETREATMENT OF COATED STEEL SHEETS**
[54] **PROCEDE DE PRETRAITEMENT PAR SOUDAGE DE TOLES D'ACIER REVETUES**
[72] BRUGGER, GERALD, AT
[71] VOESTALPINE AUTOMOTIVE COMPONENTS LINZ GMBH, AT
[85] 2020-08-17
[86] 2019-02-27 (PCT/EP2019/054877)
[87] (WO2019/166498)
[30] DE (10 2018 104 829.7) 2018-03-02

[21] **3,091,461**
[13] A1
[51] **Int.Cl. H01F 27/40 (2006.01) G01R 27/26 (2006.01) G01R 31/12 (2020.01) H01F 27/32 (2006.01)**
[25] EN
[54] **INSULATION OF NON-LIQUID IMMERSED TRANSFORMERS**
[54] **ISOLATION DE TRANSFORMATEURS NON IMMERGES DANS UN LIQUIDE**
[72] SANCHEZ LAGO, LUIS, ES
[72] ROY MARTIN, CARLOS, ES
[72] MURILLO, RAFAEL, ES
[72] CEBRIAN LLES, LORENA, ES
[72] NOGUES BARRIERAS, ANTONIO, ES
[71] ABB POWER GRIDS SWITZERLAND AG, CH
[85] 2020-08-14
[86] 2019-02-14 (PCT/EP2019/053740)
[87] (WO2019/158665)
[30] EP (18382087.7) 2018-02-15

[21] **3,091,462**
[13] A1
[51] **Int.Cl. A61B 17/02 (2006.01) A61B 17/064 (2006.01) A61B 17/00 (2006.01) A61B 17/10 (2006.01)**
[25] EN
[54] **MEDICAL APPARATUS FOR CLOSING AN OPENING IN A TISSUE**
[54] **APPAREIL MEDICAL POUR FERMER UNE OUVERTURE DANS UN TISSU**
[72] GOETZ, WOLFGANG, DE
[71] VENOCK MEDICAL GMBH, DE
[85] 2020-08-17
[86] 2019-02-28 (PCT/EP2019/055035)
[87] (WO2019/166573)
[30] DE (10 2018 104 549.2) 2018-02-28

[21] **3,091,464**
[13] A1
[51] **Int.Cl. C05D 9/02 (2006.01) B01J 20/22 (2006.01) C05C 3/00 (2006.01) C07C 43/176 (2006.01) C07C 43/215 (2006.01) C07C 43/285 (2006.01) C07C 43/29 (2006.01) C07C 65/28 (2006.01) C07C 205/34 (2006.01) C07C 205/38 (2006.01) C07C 235/42 (2006.01) C07C 255/54 (2006.01) C07D 249/08 (2006.01)**
[25] EN
[54] **DELAYED RELEASE FORMULATION OF NITRIFICATION INHIBITORS**
[54] **FORMULATION A LIBERATION RETARDEE D'INHIBITEURS DE NITRIFICATION**
[72] NAVE, BARBARA, DE
[72] SCHNEIDER, KARL-HEINRICH, DE
[72] MUELLER, ULRICH, DE
[72] KARWACKI, LUKASZ, DE
[72] ARNOLD, LENA, BE
[72] PARVULESCU, ANDREI-NICOLAE, DE
[71] BASF SE, DE
[85] 2020-08-17
[86] 2019-03-06 (PCT/EP2019/055483)
[87] (WO2019/174977)
[30] EP (18161231.8) 2018-03-12

[21] **3,091,466**
[13] A1
[51] **Int.Cl. E21B 47/10 (2012.01) E21B 29/10 (2006.01) E21B 47/00 (2012.01) E21B 47/08 (2012.01)**
[25] EN
[54] **3-DIMENSIONAL SCANNER FOR DOWNHOLE WELL INTEGRITY RECONSTRUCTION IN THE HYDROCARBON INDUSTRY**
[54] **SCANNER TRIDIMENSIONNEL POUR RECONSTRUCTION D'INTEGRITE DE PUITS DE FOND DE TROU DANS L'INDUSTRIE DES HYDROCARBURES**
[72] ALBAHRANI, HUSSAIN, SA
[72] ALJUBRAN, MOHAMMAD, SA
[72] MOELLENDICK, TIMOTHY E., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-08-17
[86] 2019-02-11 (PCT/US2019/017439)
[87] (WO2019/164691)
[30] US (15/900,371) 2018-02-20

[21] **3,091,468**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **USE OF ANTI-HUMAN SIRPA V1 ANTIBODIES AND METHOD FOR PRODUCING ANTI-SIRPA V1 ANTIBODIES**
[54] **UTILISATION D'ANTICORPS ANTI-SIRPA V1 HUMAINS ET PROCEDE DE PRODUCTION D'ANTICORPS ANTI-SIRPA V1**
[72] POIRIER, NICOLAS, FR
[72] GAUTTIER, VANESSA, FR
[72] MARY, CAROLINE, FR
[72] PENGAM, SABRINA, FR
[72] VANHOVE, BERNARD, FR
[71] OSE IMMUNOTHERAPEUTICS, FR
[85] 2020-08-17
[86] 2019-03-13 (PCT/EP2019/056250)
[87] (WO2019/175218)
[30] EP (18305271.1) 2018-03-13

[21] **3,091,469**
[13] A1
[51] **Int.Cl. A63F 13/428 (2014.01) A63F 13/213 (2014.01) A63F 13/655 (2014.01) A63F 13/843 (2014.01)**
[25] EN
[54] **INTERACTIVE VIDEO GAME SYSTEM**
[54] **SYSTEME DE JEU VIDEO INTERACTIF**
[72] COSSAIRT, TRAVIS JON, US
[72] YEH, WEI CHENG, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2020-05-27
[86] 2018-11-06 (PCT/US2018/059465)
[87] (WO2019/112737)
[30] US (15/833,839) 2017-12-06

[21] **3,091,470**
[13] A1
[51] **Int.Cl. C07C 29/132 (2006.01) B01J 23/30 (2006.01) B01J 23/652 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **CONTINUOUS OR SEMI-CONTINUOUS PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL AND CATALYST SYSTEM FOR USE THEREIN**
[54] **PROCEDE CONTINU OU SEMI-CONTINU DE PREPARATION D'ETHYLENE GLYCOL ET SYSTEME CATALYSEUR DESTINE A ETRE UTILISE DANS CE PROCEDE**
[72] VAN DER WAAL, JAN CORNELIS, NL
[72] DEKKER, PAULA, NL
[72] SINGH, JAGDEEP, NL
[72] MCKAY, BENJAMIN, NL
[71] AVANTIUM KNOWLEDGE CENTRE B.V., NL
[85] 2020-08-17
[86] 2019-03-14 (PCT/EP2019/056509)
[87] (WO2019/175362)
[30] NL (2020584) 2018-03-14

[21] **3,091,471**
[13] A1
[51] **Int.Cl. C07C 29/132 (2006.01) B01J 23/30 (2006.01) B01J 23/652 (2006.01) B01J 23/96 (2006.01) B01J 38/52 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF ETHYLENE GLYCOL AND HETEROGENEOUS CATALYST COMPOSITION**
[54] **PROCEDE DE PRODUCTION D'ETHYLENE GLYCOL ET COMPOSITION DE CATALYSEUR HETEROGENE**
[72] SINGH, JAGDEEP, NL
[72] DEKKER, PAULA, NL
[72] VAN DER WAAL, JAN CORNELIS, NL
[72] MCKAY, BENJAMIN, NL
[71] AVANTIUM KNOWLEDGE CENTRE B.V., NL
[85] 2020-08-17
[86] 2019-03-14 (PCT/EP2019/056512)
[87] (WO2019/175365)
[30] NL (2020585) 2018-03-14

[21] **3,091,472**
[13] A1
[51] **Int.Cl. B65D 75/00 (2006.01) B65D 75/58 (2006.01) B65D 77/28 (2006.01)**
[25] EN
[54] **DRINKS POUCH**
[54] **POCHE A BOISSONS**
[72] NASH, JAMES, GB
[72] HORN, RYAN, GB
[72] KAYE, KIT MASON, GB
[71] HANDIPAK HOLDINGS LTD, GB
[85] 2020-08-17
[86] 2019-02-26 (PCT/GB2019/000035)
[87] (WO2019/162640)
[30] GB (1803123.7) 2018-02-26
[30] GB (1815027.6) 2018-09-14

[21] **3,091,474**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01) G01V 1/36 (2006.01) G01V 1/37 (2006.01) G01V 1/42 (2006.01) G01V 1/44 (2006.01) G01V 1/52 (2006.01) G01V 3/38 (2006.01)**
[25] EN
[54] **VIBRATION WHILE DRILLING DATA PROCESSING METHODS**
[54] **PROCEDES DE TRAITEMENT DE DONNEES DE VIBRATION PENDANT LE FORAGE**
[72] PALMER, DANIEL, US
[72] RECTOR, JAMES, US
[71] DATACLOUD INTERNATIONAL, INC., US
[85] 2020-08-17
[86] 2019-02-15 (PCT/US2019/018210)
[87] (WO2019/161194)
[30] US (62/631,655) 2018-02-17
[30] US (16/047,528) 2018-07-27

[21] **3,091,476**
[13] A1
[25] EN
[54] **INTERACTIVE VIDEO GAME SYSTEM**
[54] **SYSTEME DE JEU VIDEO INTERACTIF**
[72] YEH, WEI CHENG, US
[72] LEIBA, NEIL ANDREW, US
[72] MCCAY, ERICA LYNN, US
[72] COSSAIRT, TRAVIS JON, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2020-05-27
[86] 2018-11-06 (PCT/US2018/059470)
[87] (WO2019/112738)
[30] US (15/833,839) 2017-12-06
[30] US (16/149,563) 2018-10-02

[21] **3,091,477**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) B01J 19/00 (2006.01) B01L 3/02 (2006.01) B01L 7/00 (2006.01) C12M 3/00 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR MANUFACTURING A MICROFLUIDIC ARRANGEMENT, AND A MICROFLUIDIC ARRANGEMENT**
[54] **PROCEDES ET APPAREIL DE FABRICATION D'UN AGENCEMENT MICROFLUIDIQUE, ET AGENCEMENT MICROFLUIDIQUE**
[72] WALSH, EDMOND, GB
[72] FEUERBORN, ALEXANDER, GB
[72] COOK, PETER RICHARD, GB
[72] SOITU, CRISTIAN, GB
[71] OXFORD UNIVERSITY INNOVATION LIMITED, GB
[85] 2020-08-17
[86] 2019-02-05 (PCT/GB2019/050303)
[87] (WO2019/162644)
[30] GB (1802819.1) 2018-02-21
[30] GB (1811977.6) 2018-07-23

[21] **3,091,478**
[13] A1
[51] **Int.Cl. C12N 15/88 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MEMBRANE PROTEIN DELIVERY**
[54] **COMPOSITIONS ET PROCEDES D'ADMINISTRATION DE PROTEINES MEMBRANAIRES**
[72] VON MALTZAHN, GEOFFREY A., US
[72] MILWID, JOHN MILES, US
[72] RUBENS, JACOB ROSENBLUM, US
[72] MEE, MICHAEL TRAVIS, US
[72] GORDON, NEAL FRANCIS, US
[72] SHAH, JAGESH VIJAYKUMAR, US
[72] TRUDEAU, KYLE MARVIN, US
[72] HARTLEY, BRIGHAM JAY, US
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US
[85] 2020-08-17
[86] 2019-02-15 (PCT/US2019/018324)
[87] (WO2019/161281)
[30] US (62/631,747) 2018-02-17

[21] **3,091,479**
[13] A1
[51] **Int.Cl. F04C 5/00 (2006.01)**
[25] EN
[54] **PUMP APPARATUS**
[54] **APPAREIL DU TYPE POMPE**
[72] WEATHERLEY, RICHARD, GB
[71] TCS MICROPUMPS LIMITED, GB
[85] 2020-08-17
[86] 2019-02-15 (PCT/GB2019/050413)
[87] (WO2019/158935)
[30] GB (1802587.4) 2018-02-16

[21] **3,091,480**
[13] A1
[51] **Int.Cl. G16B 20/30 (2019.01)**
[25] EN
[54] **GAN-CNN FOR MHC PEPTIDE BINDING PREDICTION**
[54] **RAG-CNN POUR LA PREDICTION DE LIAISON DU PEPTIDE AU CMH**
[72] WANG, XINGJIAN, US
[72] HUANG, YING, US
[72] WANG, WEI, US
[72] ZHAO, QI, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2020-08-17
[86] 2019-02-18 (PCT/US2019/018434)
[87] (WO2019/161342)
[30] US (62/631,710) 2018-02-17

[21] **3,091,481**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/40 (2006.01)**
[25] EN
[54] **SHAVING RAZOR SYSTEM INCLUDING SKIN INTERCONNECT MEMBER**
[54] **SYSTEME DE RASOIR COMPRENANT UN ELEMENT D'INTERCONNEXION DE PEAU**
[72] PATEL, ASHOK BAKUL, US
[72] JOHNSON, ROBERT HAROLD, US
[72] WASHINGTON, JACK ANTHONY, US
[72] BRUNO, MICHAEL HAL, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-17
[86] 2019-03-27 (PCT/US2019/024174)
[87] (WO2019/191156)
[30] US (62/650,292) 2018-03-30

[21] **3,091,482**
[13] A1
[51] **Int.Cl. G08B 13/16 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH FORENSIC DATA RETENTION, LIVE AUDIO MONITORING, AND TWO-WAY COMMUNICATION**
[54] **SYSTEME DE DETECTION DE TIRS D'ARME A FEU AVEC CONSERVATION DE DONNEES JUDICIAIRES, SURVEILLANCE AUDIO EN DIRECT ET COMMUNICATION BIDIRECTIONNELLE**
[72] LEVIN III, ALAN, US
[72] CONNELL II, THOMAS WYSONG, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-17
[86] 2019-02-14 (PCT/IB2019/051202)
[87] (WO2019/159098)

[21] **3,091,483**
[13] A1
[51] **Int.Cl. B26B 21/52 (2006.01) B26B 21/22 (2006.01) B26B 21/40 (2006.01)**
[25] EN
[54] **SHAVING RAZOR SYSTEM INCLUDING SKIN INTERCONNECT MEMBER**
[54] **SYSTEME DE RASOIR COMPRENANT UN ELEMENT D'INTERCONNEXION AVEC LA PEAU**
[72] PATEL, ASHOK BAKUL, US
[72] JOHNSON, ROBERT HAROLD, US
[72] WASHINGTON, JACK ANTHONY, US
[72] BRUNO, MICHAEL HAL, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-17
[86] 2019-03-27 (PCT/US2019/024175)
[87] (WO2019/191157)
[30] US (62/650,293) 2018-03-30

[21] **3,091,484**
[13] A1
[51] **Int.Cl. B26B 21/22 (2006.01) B26B 21/52 (2006.01)**
[25] EN
[54] **SHAVING RAZOR SYSTEM INCLUDING SKIN INTERCONNECT MEMBER**
[54] **SYSTEME DE RASAGE COMPRENANT UN ELEMENT D'INTERCONNEXION AVEC LA PEAU**
[72] PATEL, ASHOK BAKUL, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2020-08-17
[86] 2019-03-27 (PCT/US2019/024176)
[87] (WO2019/191158)
[30] US (62/650,294) 2018-03-30

[21] **3,091,485**
[13] A1
[51] **Int.Cl. B24D 3/28 (2006.01) B24D 3/00 (2006.01)**
[25] EN
[54] **LOW-SHEDDING NONWOVEN ABRASIVE ARTICLES**
[54] **ARTICLES ABRASIFS NON TISSES A FAIBLE PERTE**
[72] AMID, HOOMAN, US
[72] HSU, SHYIGUEI, US
[72] RAMIREZ, FERNANDO J., MX
[72] SANDOVAL HERRERA, KAREN JUDITH, MX
[72] CAI, YING, US
[71] SAINT-GOBAIN ABRASIVES, INC., US
[71] SAINT-GOBAIN ABRASIFS, FR
[85] 2020-08-17
[86] 2019-03-29 (PCT/US2019/025040)
[87] (WO2019/191711)
[30] US (62/650,236) 2018-03-29

[21] **3,091,486**
[13] A1
[51] **Int.Cl. C07D 473/30 (2006.01) A61K 31/4192 (2006.01) A61K 31/437 (2006.01) A61K 31/5025 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/522 (2006.01) A61K 31/53 (2006.01) A61P 11/00 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 473/08 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **OXADIAZOLE TRANSIENT RECEPTOR POTENTIAL CHANNEL INHIBITORS**
[54] **INHIBITEURS DE CANAL A POTENTIEL DE RECEPTEUR TRANSITOIRE A BASE D'OXADIAZOLE**
[72] TERRETT, JACK ALEXANDER, US
[72] CHEN, HUIFEN, US
[72] CONSTANTINEAU-FORGET, LEA, CA
[72] LAROUCHE-GAUTHIER, ROBIN, CA
[72] LEPISSIER, LUCE, CA
[72] BEAUMIER, FRANCIS, CA
[72] DERY, MARTIN, CA
[72] GRAND-MAITRE, CHANTAL, CA
[72] STURINO, CLAUDIO, CA
[72] VOLGRAF, MATTHEW, US
[72] VILLEMURE, ELISIA, US
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2020-08-14
[86] 2019-03-18 (PCT/US2019/022659)
[87] (WO2019/182925)
[30] US (62/644,987) 2018-03-19
[30] US (62/676,057) 2018-05-24
[30] US (62/725,488) 2018-08-31
[30] US (62/812,806) 2019-03-01

[21] **3,091,490**
[13] A1
[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/0783 (2010.01) A61K 48/00 (2006.01)**
[25] EN
[54] **RAPAMYCIN RESISTANT CELLS**
[54] **CELLULES RESISTANTES A LA RAPAMYCINE**
[72] SCHARENBERG, ANDREW M., US
[72] RAWLINGS, DAVID J., US
[72] SOMMER, KAREN, US
[72] WEST, SAMUEL, US
[72] HONAKER, YUCHI CHIANG, US
[72] TAKEUCHI, RYO, US
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US
[85] 2020-08-17
[86] 2019-04-25 (PCT/US2019/029118)
[87] (WO2019/210057)
[30] US (62/663,562) 2018-04-27

[21] **3,091,491**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) C12N 5/00 (2006.01) C12N 9/22 (2006.01)**
[25] EN
[54] **EXPRESSION OF HUMAN FOXP3 IN GENE EDITED T CELLS**
[54] **EXPRESSION DE FOXP3 HUMAIN DANS DES LYMPHOCYTES T A EDITION GENIQUE**
[72] SCHARENBERG, ANDREW M., US
[72] RAWLINGS, DAVID J., US
[72] SOMMER, KAREN, US
[72] HONAKER, YUCHI CHIANG, US
[72] KHAN, IRAM F., US
[72] TORGERSON, TROY, US
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US
[85] 2020-08-17
[86] 2019-04-25 (PCT/US2019/029159)
[87] (WO2019/210078)
[30] US (62/663,561) 2018-04-27
[30] US (62/773,414) 2018-11-30

[21] **3,091,492**
[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] **CD38 PROTEIN ANTIBODY AND APPLICATION THEREOF**
[54] **ANTICORPS DE PROTEINE CD38 ET UTILISATION ASSOCIEE**
[72] LV, MING, CN
[72] DING, XIAORAN, CN
[72] MIAO, SHIWEI, CN
[72] TAN, BIN, CN
[72] WANG, XUEGONG, CN
[71] HANGZHOU SUMGEN BIOTECH CO., LTD., CN
[71] SUMGEN MAB (BEIJING) BIOTECH CO., LTD., CN
[85] 2020-07-29
[86] 2019-02-11 (PCT/CN2019/074806)
[87] (WO2019/154421)
[30] CN (201810144817.4) 2018-02-12

[21] **3,091,494**
[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **APTAMER AS BIOMARKERS**
[54] **APTAMERE EN TANT QUE BIOMARQUEURS**
[72] PENNER, GREGORY, CA
[71] NEONEURO, FR
[85] 2020-08-18
[86] 2018-02-19 (PCT/EP2018/054051)
[87] (WO2018/150030)
[30] US (62/460,887) 2017-02-20

[21] **3,091,496**
[13] A1
[51] **Int.Cl. A23C 19/14 (2006.01) A01J 27/02 (2006.01) A23C 19/16 (2006.01)**
[25] EN
[54] **IMPROVED CHEESE RIPENING**
[54] **AFFINAGE AMELIORE DU FROMAGE**
[72] PENDERS, JOHANNES ANTONIUS, NL
[72] BURGHOUT, HERMAN FRANK, NL
[71] FRIESLANDCAMPINA NEDERLAND B.V., NL
[85] 2020-08-18
[86] 2018-09-13 (PCT/EP2018/074738)
[87] (WO2019/174760)
[30] EP (18161414.0) 2018-03-13

[21] **3,091,497**
[13] A1
[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/686 (2018.01)**
[25] EN
[54] **OLIGONUCLEOTIDE, OLIGONUCLEOTIDE SET, METHOD FOR SIMULTANEOUS DETECTION OF NEISSERIA MENINGITIDIS, STREPTOCOCCUS PNEUMONIAE AND HAEMOPHILUS INFLUENZAE, AND KIT**
[54] **OLIGONUCLEOTIDE, ENSEMBLE D'OLIGONUCLEOTIDES, METHODE DE DETECTION SIMULTANEE DE NEISSERIA MENINGITIDIS, STREPTOCOCCUS PNEUMONIAE ET HAEMOPHILUS INFLUENZA, ET TROUSSE**
[72] CAPASSO, IVANO RAFAELLE VICTORIO DE FILIPPIS, BR
[72] DE ALMEIDA, ANTONIO EUGENIO CASTRO CARDOSO, BR
[71] FUNDACAO OSWALDO CRUZ, BR
[85] 2020-08-18
[86] 2019-02-20 (PCT/BR2019/050049)
[87] (WO2019/161469)
[30] BR (BR1020180032453) 2018-02-20

[21] **3,091,498**
[13] A1
[25] EN
[54] **COLLAPSIBLE BICYCLE FRAME**
[54] **CADRE DE BICYCLETTE PLIABLE**
[72] MCFARLANE, ALAN BRECHIN, CA
[71] BRECHIN DESIGN INC., CA
[85] 2020-08-18
[86] 2019-02-22 (PCT/CA2019/000026)
[87] (WO2019/161482)
[30] US (62/633,879) 2018-02-22

[21] **3,091,499**
[13] A1
[51] **Int.Cl. F01D 9/06 (2006.01) F01D 25/16 (2006.01)**
[25] EN
[54] **ASSEMBLY FOR A TURBOMACHINE**
[54] **ENSEMBLE POUR UNE TURBOMACHINE**
[72] HALLOUIN, BAPTISTE, FR
[72] MONTPELLAZ, ALEXANDRE, FR
[72] VOTIE, SYLVAIN PIERRE, FR
[72] IPARAGUIRRE, FABRICE, FR
[72] DANIS, YANN, FR
[71] SAFRAN HELICOPTER ENGINES, FR
[85] 2020-08-17
[86] 2019-02-28 (PCT/FR2019/050462)
[87] (WO2019/166742)
[30] FR (1851776) 2018-02-28

[21] **3,091,500**
[13] A1
[51] **Int.Cl. B02C 18/16 (2006.01) A24B 3/00 (2006.01) A24B 5/10 (2006.01) A24B 7/00 (2006.01) A24B 15/18 (2006.01) A47J 42/30 (2006.01) B02C 18/10 (2006.01)**
[25] EN
[54] **HERB GRINDING MACHINE**
[54] **MACHINE DE BROYAGE D'HERBES**
[72] SHIPLEY, TOM, CA
[72] HOWARD, JOHN PAUL, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2020-08-18
[86] 2019-02-25 (PCT/CA2019/050223)
[87] (WO2019/161508)
[30] US (62/635,168) 2018-02-26

[21] **3,091,502**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/39 (2006.01) A61K 39/395 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-PD-1 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-PD-1 ET LEURS UTILISATIONS**
[72] YANG, YI, CN
[72] XIE, JINGSHU, CN
[72] DONG, CHUNYAN, CN
[72] YANG, FANG, CN
[72] LU, CHENGYUAN, CN
[72] CHENG, XIAODONG, CN
[72] SHEN, YUELEI, CN
[72] NI, JIAN, CN
[72] GUO, YANAN, CN
[72] CHEN, YUNYUN, CN
[71] EUCURE (BEIJING) BIOPHARMA CO., LTD, CN
[85] 2020-08-18
[86] 2018-02-23 (PCT/CN2018/077016)
[87] (WO2019/161536)

[21] **3,091,505**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01) A01N 1/02 (2006.01) A61K 35/36 (2015.01) G01N 33/50 (2006.01)**
[25] FR
[54] **EX VIVO SUBCUTANEOUS INJECTION MODEL**
[54] **MODELE D'INJECTION SOUS CUTANEE EX VIVO**
[72] DESCARGUES, PASCAL, US
[72] PAGES, EMELINE, FR
[72] JARDET, CLAIRE, FR
[71] GENOSKIN, FR
[85] 2020-08-18
[86] 2019-03-03 (PCT/EP2019/000061)
[87] (WO2019/170281)
[30] FR (1870232) 2018-03-05

[21] **3,091,506**
[13] A1
[51] **Int.Cl. C08G 18/08 (2006.01) C08F 283/00 (2006.01) C08G 18/22 (2006.01) C08G 18/32 (2006.01) C08G 18/36 (2006.01) C08G 18/48 (2006.01) C08G 18/66 (2006.01) C08G 18/72 (2006.01) C08G 18/76 (2006.01) C08G 18/79 (2006.01) C08J 9/00 (2006.01) C08K 5/10 (2006.01)**
[25] EN
[54] **POLYURETHANE-BASED POLYMER MATERIAL HAVING EXCELLENT RESISTANCE TO HEAT DISTORTION AND ELONGATION AT TEAR**
[54] **MATERIAU POLYMERE A BASE DE POLYURETHANE DOTE D'UNE EXCELLENTE RESISTANCE AU THERMOFORMAGE ET D'UN EXCELLENT ALLONGEMENT A LA RUPTURE**
[72] EMGE, ANDREAS, DE
[72] MEYER, ANDRE, DE
[72] ELING, BEREND, DE
[72] AUFFARTH, STEFAN, DE
[71] BASF SE, DE
[85] 2020-08-18
[86] 2019-02-11 (PCT/EP2019/053234)
[87] (WO2019/162115)
[30] EP (18158170.3) 2018-02-22

[21] **3,091,508**
[13] A1
[51] **Int.Cl. C12N 7/01 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/18 (2006.01) C12N 7/04 (2006.01) C12N 15/40 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **ATTENUATED FLAVIVIRUSES**
[54] **FLAVIVIRUS ATTENUES**
[72] COLEMAN, JOHN ROBERT, US
[72] MUELLER, STEFFEN, US
[72] WANG, YING, US
[71] CODAGENIX INC., US
[85] 2020-08-18
[86] 2018-12-21 (PCT/US2018/067114)
[87] (WO2019/172982)
[30] US (62/640,355) 2018-03-08

[21] **3,091,509**
[13] A1
[51] **Int.Cl. G16H 40/60 (2018.01) G16H 10/65 (2018.01) G16H 20/10 (2018.01) G16H 20/17 (2018.01)**
[25] EN
[54] **WETNESS DETECTION WITH BIOMETRIC SENSOR DEVICE FOR USE IN BLOOD TREATMENT**
[54] **DETECTION D'HUMIDITE AVEC DISPOSITIF DE CAPTEUR BIOMETRIQUE DESTINE A ETRE UTILISE DANS LE TRAITEMENT DU SANG**
[72] WEAVER, COLIN, US
[72] CRNKOVICH, MARTIN JOSEPH, US
[72] YUDS, DAVID, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2020-08-18
[86] 2019-01-04 (PCT/US2019/012263)
[87] (WO2019/164590)
[30] US (15/899,573) 2018-02-20

[21] **3,091,510**
[13] A1
[51] **Int.Cl. C10M 107/10 (2006.01)**
[25] EN
[54] **FUNCTIONAL FLUIDS COMPRISING LOW-VISCOSITY, LOW-VOLATILITY POLYALPHA-OLEFIN BASE STOCK**
[54] **FLUIDES FONCTIONNELS COMPRENANT UNE HUILE DE BASE DE POLYALPHA-OLEFINE DE FAIBLE VISCOSITE**
[72] LOTFIZADEHDEHKORDI, BABAK, US
[72] EMETT, CRAIG J., US
[72] KUZHIYIL, NAJEEB M., US
[72] HAN, WENNING W., US
[72] BRAUN, HEINRICH R., DE
[71] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2020-08-18
[86] 2019-01-14 (PCT/US2019/013444)
[87] (WO2019/160630)
[30] US (62/632,044) 2018-02-19
[30] EP (18167068.8) 2018-04-12

[21] **3,091,511**
[13] A1
[51] **Int.Cl. E04G 1/34 (2006.01) E04C 3/08 (2006.01) E04C 5/16 (2006.01) E04G 3/22 (2006.01) E04G 7/02 (2006.01)**
[25] EN
[54] **MODULAR SPACE FRAME SUPPORT SYSTEM, WORK PLATFORM SYSTEM AND METHODS OF ERECTING THE SAME**
[54] **SYSTEME DE SUPPORT DE CADRE D'ESPACE MODULAIRE, SYSTEME DE PLATE-FORME DE TRAVAIL ET PROCEDES D'ERECTION DE CELUI-CI**
[72] SCRAFFORD, ROY T., US
[72] MARTALOCK, ALANA, US
[72] DOLLY, JERRY, US
[72] JOLICOEUR, PAUL, US
[72] TOMLINSON, SCOTT, US
[72] BURKHART, JONATHAN, US
[72] GRUMBERG, MATHIEU, US
[71] SAFWAY SERVICES, LLC, US
[85] 2020-08-18
[86] 2019-01-15 (PCT/US2019/013658)
[87] (WO2019/143615)
[30] US (62/618,067) 2018-01-16
[30] US (62/682,644) 2018-06-08

[21] **3,091,512**
[13] A1
[51] **Int.Cl. A01K 29/00 (2006.01) A61B 5/00 (2006.01) A61B 5/02 (2006.01) G06N 5/04 (2006.01)**
[25] EN
[54] **MOBILE ANIMAL SURVEILLANCE AND DISTRESS MONITORING**
[54] **SUIVI ET SURVEILLANCE DE SOUFFRANCE D'ANIMAL PAR MOBILE**
[72] SCHAB, JEFFREY R., US
[72] SCHAB, MICHAEL W., US
[72] BOWEN, RYAN M., US
[72] PENNELL, JASON A., US
[72] VONDERAHE, ROGER P., US
[71] EQUUS GLOBAL HOLDINGS LLC, US
[85] 2020-08-18
[86] 2019-01-17 (PCT/US2019/014082)
[87] (WO2019/160645)
[30] US (15/899,342) 2018-02-19

[21] **3,091,513**
[13] A1
[51] **Int.Cl. E05B 13/00 (2006.01) E05B 15/00 (2006.01) E05B 15/10 (2006.01) E05B 65/00 (2006.01)**
[25] EN
[54] **ANTI-BARRICADING TURN HUB ASSEMBLY FOR A DOOR LOCKSET**
[54] **ENSEMBLE MOYEU DE TOUR ANTI-BLOCAGE POUR UNE SERRURE COMPLETE DE PORTE**
[72] VERDERAIME, STEVEN, US
[72] LITWINSKI, ADAM M., US
[72] CARRON, JONATHAN M., US
[72] LUNDAY, DRAKE, US
[71] SCHLAGE LOCK COMPANY LLC, US
[85] 2020-08-18
[86] 2019-02-04 (PCT/US2019/016509)
[87] (WO2019/152923)
[30] US (62/625,638) 2018-02-02
[30] US (15/897,782) 2018-02-15

[21] **3,091,514**
[13] A1
[51] **Int.Cl. C13K 1/06 (2006.01) C07H 1/00 (2006.01) C07H 15/26 (2006.01)**
[25] EN
[54] **PROCESS FOR SPRAY DRYING FUCOSYLLACTOSE SOLUTIONS AND RELATED PRODUCT COMPOSITIONS**
[54] **PROCEDE DE SECHAGE PAR PULVERISATION DE SOLUTIONS DE FUCOSYLLACTOSE ET COMPOSITIONS DE PRODUIT ASSOCIEES**
[72] DALGAARD, NIELS, DK
[71] DUPONT NUTRITION BIOSCIENCES APS, DK
[85] 2020-08-18
[86] 2019-02-13 (PCT/US2019/017811)
[87] (WO2019/160922)
[30] US (62/632,153) 2018-02-19
[30] US (62/648,428) 2018-03-27
[30] EP (18164250.5) 2018-03-27

[21] **3,091,515**
[13] A1
[51] **Int.Cl. A61F 2/12 (2006.01) A61B 90/00 (2016.01)**
[25] EN
[54] **EXPANDABLE ABSORBABLE IMPLANTS FOR BREAST RECONSTRUCTION AND AUGMENTATION**
[54] **IMPLANTS EXTENSIBLES ABSORBABLES POUR RECONSTRUCTION ET AUGMENTATION MAMMAIRES**
[72] LIMEM, SKANDER, US
[72] SHAH, BHAVIN, US
[72] RIZK, SAID, US
[72] DUBOIS, MATTHEW, US
[72] WILLIAMS, SIMON F., US
[71] TEPHA, INC., US
[85] 2020-08-18
[86] 2019-02-19 (PCT/US2019/018543)
[87] (WO2019/164826)
[30] US (62/632,498) 2018-02-20

[21] **3,091,516**
[13] A1
[51] **Int.Cl. A61K 31/655 (2006.01) A61K 9/00 (2006.01) A61P 17/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR TOPICAL JS-K AS THERAPY FOR ACTINIC KERATOSIS**
[54] **COMPOSITION ET METHODE POUR UNE UTILISATION TOPIQUE DU JS-K COMME THERAPIE CONTRE LA KERATOSE ACTINIQUE**
[72] KENNEDY, THOMAS P., US
[71] JSK THERAPEUTICS, INC, US
[85] 2020-08-18
[86] 2019-02-19 (PCT/US2019/018597)
[87] (WO2019/161396)
[30] US (62/631,928) 2018-02-19

[21] **3,091,517**
[13] A1
[51] **Int.Cl. C07D 487/08 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07D 239/28 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **N-(PHENYL)-2-(PHENYL)PYRIMIDINE-4-CARBOXAMIDE DERIVATIVES AND RELATED COMPOUNDS AS HPK1 INHIBITORS FOR TREATING CANCER**
[54] **DERIVES DE N-(PHENYL)-2-(PHENYL)PYRIMIDINE-4-CARBOXAMIDE ET COMPOSES APPARENTES UTILISES EN TANT QU'INHIBITEURS DE HPK1 POUR LE TRAITEMENT DU CANCER**
[72] VECHORKIN, OLEG, US
[72] PAN, JUN, US
[72] SOKOLSKY, ALEXANDER, US
[72] STYDUHAR, EVAN, US
[72] YE, QINDA, US
[72] YAO, WENQING, US
[71] INCYTE CORPORATION, US
[85] 2020-08-18
[86] 2019-02-19 (PCT/US2019/018608)
[87] (WO2019/164846)
[30] US (62/632,702) 2018-02-20
[30] US (62/672,772) 2018-05-17
[30] US (62/750,371) 2018-10-25

[21] **3,091,518**
[13] A1
[51] **Int.Cl. E06B 7/18 (2006.01)**
[25] EN
[54] **A SELF-ADJUSTING BOTTOM BAR FOR A RETRACTABLE SCREEN**
[54] **BARRE INFERIEURE A REGLAGE AUTOMATIQUE POUR UN ECRAN RETRACTABLE**
[72] HEALAM, JEFFERY L., US
[72] ACKERMAN, MARTIN J., US
[72] ZIMPRICH, DON, US
[72] TRAFTON, CHRISTOPHE R., US
[71] TUCSON ROLLING SHUTTERS, INC., US
[85] 2020-08-18
[86] 2019-02-19 (PCT/US2019/018525)
[87] (WO2019/161371)
[30] US (15/898,880) 2018-02-19

[21] **3,091,519**
[13] A1
[51] **Int.Cl. A63C 10/18 (2012.01)**
[25] FR
[54] **MECHANISM FOR ADJUSTING THE ORIENTATION OF BINDINGS ON A SNOWBOARD**
[54] **DISPOSITIF DE REGLAGE DE L'ORIENTATION D'UNE FIXATION DE CHAUSSURE SUR UNE PLANCHE DE SURF DES NEIGES**
[72] GARNERONE, REMI, FR
[71] BLACK LINE, FR
[85] 2020-08-18
[86] 2019-02-20 (PCT/FR2019/050391)
[87] (WO2019/162617)
[30] FR (1851453) 2018-02-20

[21] **3,091,520**
[13] A1
[51] **Int.Cl. B62B 3/14 (2006.01)**
[25] EN
[54] **MANUALLY MOVABLE TROLLEY**
[54] **CHARIOT DE TRANSPORT DEPLACABLE MANUELLEMENT**
[72] EBERLEIN, MARTIN, BG
[71] EBERLEIN, MARTIN, BG
[71] EBERLEIN, MARTIN, BG
[85] 2020-08-06
[86] 2019-01-23 (PCT/DE2019/000015)
[87] (WO2019/154449)
[30] DE (DE 20 2018 000 613.0) 2018-02-07
[30] DE (DE 20 2018 000 661.0) 2018-02-09

[21] **3,091,521**
[13] A1
[51] **Int.Cl. B60P 1/08 (2006.01) B60P 1/02 (2006.01) B60P 1/34 (2006.01) B60P 1/43 (2006.01) B60P 3/06 (2006.01) B62D 63/06 (2006.01)**
[25] EN
[54] **TILTABLE TRAILER COMPRISING MECHANICAL ACTUATION MEANS AND HIGH-POSITION LOCKING MEANS**
[54] **REMORQUE INCLINABLE COMPRENANT DES MOYENS D'ACTIONNEMENT MECANIQUE ET DES MOYENS DE VERROUILLAGE EN POSITION HAUTE**
[72] COCHET, LUDOVIC, FR
[71] COCHET, FR
[85] 2020-08-18
[86] 2019-02-22 (PCT/EP2019/054429)
[87] (WO2019/162433)
[30] FR (1851538) 2018-02-22

[21] **3,091,522**
[13] A1
[51] **Int.Cl. H04M 1/725 (2006.01) H04M 3/487 (2006.01)**
[25] EN
[54] **TERMINAL, SERVICE METHOD AND SYSTEM FOR INTEGRATED IDENTIFIER MANAGEMENT SYSTEM FOR INTEGRATED IDENTIFIER AND USER INTERFACE**
[54] **TERMINAL, PROCEDE ET SYSTEME DE SERVICE POUR IDENTIFIANT INTEGRE ET INTERFACE UTILISATEUR**
[72] KIM, JAEDOO, KR
[71] PAX S&T CO., LTD, KR
[85] 2020-05-14
[86] 2018-12-21 (PCT/KR2018/016400)
[87] (WO2019/132433)
[30] KR (10-2017-0180468) 2017-12-27
[30] KR (10-2018-0015820) 2018-02-08

[21] **3,091,523**
[13] A1
[51] **Int.Cl. C08G 18/48 (2006.01) B32B 27/40 (2006.01) C08G 18/20 (2006.01) C08G 18/30 (2006.01) C08G 18/76 (2006.01) C09J 175/08 (2006.01) E04C 2/292 (2006.01)**
[25] EN
[54] **COMPOSITE ELEMENTS OF THERMAL INSULATION MATERIAL, ADHESIVE AND OUTER LAYER**
[54] **ELEMENTS COMPOSITES CONSTITUES DE MATERIAU ISOLANT, D'ADHESIF ET D'UNE COUCHE DE RECOUVREMENT**
[72] JACOBMEIER, OLAF, DE
[72] KRONIG, SABRINA, DE
[72] HUSKOBLA, ANTJE, DE
[72] RENNER, CHRISTIAN, DE
[72] HUNTEMANN, PETER, DE
[71] BASF SE, DE
[85] 2020-08-06
[86] 2019-01-30 (PCT/EP2019/052175)
[87] (WO2019/154677)
[30] EP (18155625.9) 2018-02-07

[21] **3,091,524**
[13] A1
[51] **Int.Cl. B01D 53/00 (2006.01) B01D 53/02 (2006.01) B01D 53/04 (2006.01) B01D 53/14 (2006.01)**
[25] EN
[54] **FLUIDIZED BED EXTRACTORS FOR CAPTURE OF CO2 FROM AMBIENT AIR**
[54] **EXTRACTEURS A LIT FLUIDISE POUR LA CAPTURE DE CO2 A PARTIR D'AIR AMBIANT**
[72] BOURHIS, ALAIN L., US
[72] STECKLER, DAVID K., US
[72] SORDELLA, RAFFAELLA, US
[72] O'KEEFE, FRANK, US
[71] CARBON SINK, INC., US
[85] 2020-08-14
[86] 2019-02-14 (PCT/US2019/018086)
[87] (WO2019/161114)
[30] US (62/710,445) 2018-02-16
[30] US (62/740,261) 2018-10-02

[21] **3,091,525**
[13] A1
[51] **Int.Cl. D21F 1/52 (2006.01) D21F 2/00 (2006.01) D21F 3/02 (2006.01) D21F 3/04 (2006.01) D21F 11/00 (2006.01) D21F 11/14 (2006.01)**
[25] EN
[54] **PROCESS AND DEVICE FOR TREATING A PULP WEB IN AN EXTENDED-NIP PRESS UNIT**
[54] **PROCEDE ET DISPOSITIF POUR TRAITER UNE BANDE DE MATIERE FIBREUSE DANS UN ENSEMBLE DE PRESSE A LONGUE ZONE DE PRESSION**
[72] ANZEL, ANDREAS, AT
[72] MEITNER, ROBERT, DE
[72] RICHARDS, PAUL, AT
[72] PLIENEGGER, WOLFGANG, AT
[71] ANDRITZ AG, AT
[85] 2020-08-18
[86] 2019-02-19 (PCT/EP2019/054041)
[87] (WO2019/166271)
[30] AT (A50177/2018) 2018-03-01

[21] **3,091,526**
[13] A1
[51] **Int.Cl. A41D 1/00 (2018.01) A61B 5/0408 (2006.01)**
[25] EN
[54] **ARTICLE OF CLOTHING INCORPORATING AT LEAST ONE CONDUCTIVE WIRE AND ASSOCIATED PRODUCTION METHOD**
[54] **PIECE DE VETEMENT INTEGRANT AU MOINS UN FIL CONDUCTEUR ET PROCEDE DE REALISATION ASSOCIE**
[72] GASSER, JEROME, FR
[71] SARL SP, FR
[85] 2020-08-10
[86] 2019-02-20 (PCT/EP2019/054152)
[87] (WO2019/162295)
[30] FR (1851471) 2018-02-21

[21] **3,091,527**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01)**
[25] EN
[54] **FLEXURE-GUIDED PIEZO DRILL WITH LARGE AXIAL VIBRATION AND SMALL LATERAL VIBRATION**
[54] **FORET PIEZOELECTRIQUE GUIDE PAR FLEXION A GRANDE VIBRATION AXIALE ET A PETITE VIBRATION LATERALE**
[72] SUN, YU, CA
[72] JOHNSON, WESLEY, CA
[72] LIU, JUN, US
[72] DAI, CHANGSHENG, CA
[71] JIANGSU JITRI MICRO-NANO AUTOMATION INSTITUTE CO., LTD, CN
[85] 2020-08-18
[86] 2018-05-16 (PCT/CN2018/087080)
[87] (WO2018/210266)
[30] US (62/508,361) 2017-05-18

[21] **3,091,528**
[13] A1
[25] EN
[54] **CRYSTAL FORM OF OXOPICOLINAMIDE DERIVATIVE AND PREPARATION METHOD THEREFOR**
[54] **FORME CRISTALLINE D'UN DERIVE D'OXOPICOLINAMIDE ET SON PROCEDE DE PREPARATION**
[72] YANG, JUNRAN, CN
[72] WANG, LIN, CN
[72] SHAO, QIYUN, CN
[72] DU, ZHENXING, CN
[72] WANG, LIKUN, CN
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[85] 2020-08-18
[86] 2019-02-26 (PCT/CN2019/076132)
[87] (WO2019/165951)
[30] CN (201810163529.3) 2018-02-27

[21] **3,091,529**
[13] A1
[51] **Int.Cl. H04S 7/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD OF OBJECT-BASED SPATIAL AUDIO MASTERING**
[54] **DISPOSITIF ET PROCEDE POUR MATRICAGE AUDIO SPATIAL A BASE D'OBJET**
[72] HESTERMANN, SIMON, DE
[72] SLADECZEK, CHRISTOPH, DE
[72] SEIDENECK, MARIO, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2020-08-18
[86] 2019-02-18 (PCT/EP2019/053961)
[87] (WO2019/158750)
[30] DE (10 2018 202 511.8) 2018-02-19
[30] DE (10 2018 206 025.8) 2018-04-19

[21] **3,091,530**
[13] A1
[51] **Int.Cl. G01N 35/10 (2006.01) B25J 9/16 (2006.01)**
[25] EN
[54] **MEASURING APPARATUS FOR A LABORATORY APPLIANCE FOR MEASURING AN ARTICLE, ARTICLE FOR SAID MEASURING APPARATUS AND MEASURING METHOD**
[54] **APPAREIL DE MESURE POUR UNE MACHINE AUTOMATIQUE DE LABORATOIRE, DESTINE A MESURER UN OBJET, OBJET POUR LEDIT APPAREIL DE MESURE ET PROCEDE DE MESURE**
[72] LAPCZYNA, MARKUS, DE
[72] DUNKER, UWE, DE
[72] REICHMUTH, BURKHARDT, DE
[72] RADKE, MAIK, DE
[71] EPPENDORF AG, DE
[85] 2020-08-18
[86] 2019-02-27 (PCT/EP2019/054901)
[87] (WO2019/166512)
[30] EP (18158943.3) 2018-02-27
[30] EP (18177610.5) 2018-06-13

[21] **3,091,531**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01)**
[25] EN
[54] **PATIENT ASSESSMENT METHOD**
[54] **METHODE D'EVALUATION DE PATIENT**
[72] EUGEN-OLSEN, JESPER, DK
[72] ANDERSON, OVE, DK
[71] VIROGATES A/S, DK
[71] HVIDOVRE HOSPITAL, DK
[71] UNIVERSITY OF COPENHAGEN, DK
[85] 2020-08-18
[86] 2019-02-20 (PCT/EP2019/054232)
[87] (WO2019/162334)
[30] GB (1802795.3) 2018-02-21

[21] **3,091,532**
[13] A1
[51] **Int.Cl. A01N 43/16 (2006.01) A01N 25/30 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITION COMPRISING AT LEAST ONE PHENOLIC ACTIVE COMPOUND**
[54] **COMPOSITION HERBICIDE COMPRENANT AU MOINS UN COMPOSE PHENOLIQUE ACTIF**
[72] BEN KAAB, SOFIENE, BE
[72] JIJAKLI, HAISSAM, BE
[72] KSOURI, RIADH, TN
[72] PARISI, OLIVIER, BE
[72] DAL MASO, SIMON, BE
[71] UNIVERSITE DE LIEGE, BE
[71] FACULTE DES SCIENCES MATHEMATIQUES, PHYSIQUES ET NATURELLES DE TUNIS, TN
[71] BIOTECHNOLOGY CENTER AT THE TECHNOPOLE OF BORJ-CEDRIA (CBBC), TN
[85] 2020-08-18
[86] 2019-02-21 (PCT/EP2019/054330)
[87] (WO2019/162388)
[30] EP (PCT/EP2018/054418) 2018-02-22

[21] **3,091,533**
[13] A1
[51] **Int.Cl. C07D 405/14 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **PYRAZOLE DERIVATIVES AS INHIBITORS OF THE WNT SIGNALLING PATHWAY**
[54] **DERIVES DE PYRAZOLE EN TANT QU'INHIBITEURS DE LA VOIE DE SIGNALISATION WNT**
[72] KATANAEV, VLADIMIR L., CH
[72] KOVAL, ALEXEY, CH
[71] UNIVERSITE DE LAUSANNE, FR
[85] 2020-08-18
[86] 2019-03-01 (PCT/EP2019/055117)
[87] (WO2019/166616)
[30] EP (18159649.5) 2018-03-02

[21] **3,091,534**
[13] A1
[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/06 (2006.01)**
[25] EN
[54] **CONNECTION FOR PERCUSSION DRILLING**
[54] **RACCORD POUR PERCAGE A PERCUSSION**
[72] HAMMARGREN, JOHN, SE
[72] NORMAN, ANDREAS, SE
[71] SANDVIK MINING AND CONSTRUCTION TOOLS AB, SE
[85] 2020-08-18
[86] 2019-02-22 (PCT/EP2019/054455)
[87] (WO2019/170437)
[30] EP (18160853.0) 2018-03-09

[21] **3,091,535**
[13] A1
[51] **Int.Cl. A01N 37/46 (2006.01) A01P 21/00 (2006.01)**
[25] EN
[54] **METHOD FOR INCREASING THE RESISTANCE OF A CEREAL PLANT**
[54] **PROCEDE D'AUGMENTATION DE LA RESISTANCE D'UNE PLANTE CEREALIERE**
[72] RUSH, JESSICA, CA
[72] SARMIENTO, GABRIEL, PH
[72] STAMM, MITCHELL, US
[72] AREVALO, HECTOR, US
[72] MAZUIR, FLORENT, DE
[72] SIKULJAK, TATJANA, DE
[71] BASF AGROCHEMICAL PRODUCTS B.V., NL
[85] 2020-08-18
[86] 2019-03-06 (PCT/EP2019/055471)
[87] (WO2019/170690)
[30] EP (18160488.5) 2018-03-07

[21] **3,091,536**
[13] A1
[51] **Int.Cl. C07K 16/24 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **LIGANDS TO GM-CSF OR GM-CSF-RECEPTOR FOR USE IN TREATMENT OF A HAEMATOLOGIC MALIGNANCY IN A PATIENT HAVING UNDERGONE ALLO-HCT**
[54] **LIGANDS DE GM-CSF OU DU RECEPTEUR GM-CSF DESTINES A ETRE UTILISES DANS LE TRAITEMENT D'UNE MALIGNITE HEMATOLOGIQUE CHEZ UN PATIENT AYANT SUBI UN ALLO-HCT**
[72] TUGUES, SONIA, CH
[72] BECHER, BURKHARD, CH
[71] UNIVERSITAT ZURICH, CH
[85] 2020-08-18
[86] 2019-02-22 (PCT/EP2019/054493)
[87] (WO2019/162472)
[30] EP (18158169.5) 2018-02-22
[30] EP (18189562.4) 2018-08-17
[30] EP (18194549.4) 2018-09-14
[30] US (16269572) 2019-02-07

[21] **3,091,537**
[13] A1
[51] **Int.Cl. B22F 3/105 (2006.01)**
[25] EN
[54] **APPARATUS FOR PRODUCING A SHAPED BODY**
[54] **DISPOSITIF DE FABRICATION D'UN CORPS MOULE**
[72] FOCKELE, MATTHIAS, DE
[71] REALIZER GMBH, DE
[85] 2020-08-18
[86] 2019-02-25 (PCT/EP2019/054621)
[87] (WO2019/166374)
[30] DE (10 2018 203 013.8) 2018-02-28

[21] **3,091,538**
[13] A1
[51] **Int.Cl. F41A 3/66 (2006.01) F41C 23/18 (2006.01)**
[25] EN
[54] **HOUSING**
[54] **BOITIER**
[72] BLACHE, ANDREAS, DE
[72] SCHMEES, HEINER, DE
[71] RHEINMETALL WAFFE MUNITION GMBH, DE
[85] 2020-08-18
[86] 2019-03-14 (PCT/EP2019/056405)
[87] (WO2019/206514)
[30] DE (20 2018 102 366.7) 2018-04-27

[21] **3,091,540**
[13] A1
[51] **Int.Cl. E02D 27/42 (2006.01) F03D 13/20 (2016.01) E04H 12/22 (2006.01)**
[25] EN
[54] **SEMI-FINISHED PART FOR A FOUNDATION OF A TOWER CONSTRUCTION, SEMI-FINISHED PART FOUNDATION SEGMENT, FOUNDATION, METHOD FOR PRODUCING A SEMI-FINISHED PART AND METHOD FOR PRODUCING A FOUNDATION**
[54] **PIECE SEMI-FINIE POUR UNE FONDATION D'UNE CONSTRUCTION EN FORME DE TOUR, SEGMENT DE FONDATION EN LA PIECE SEMI-FINIE, FONDATION, PROCEDE SERVANT A FABRIQUER UNE PIECE SEMI-FINIE, ET PROCEDE SERVANT A FABRIQUER UNE FONDATION**
[72] MERTENS, RENE, DE
[72] BRENNER, ALBRECHT, DE
[72] BOETTCHER, BERND, DE
[71] WOBBEN PROPERTIES GMBH, DE
[85] 2020-08-18
[86] 2019-03-18 (PCT/EP2019/056655)
[87] (WO2019/179914)
[30] DE (10 2018 106 998.7) 2018-03-23

[21] **3,091,541**
[13] A1
[51] **Int.Cl. A61H 1/02 (2006.01) A61F 5/01 (2006.01) A61F 5/058 (2006.01)**
[25] EN
[54] **THERAPEUTIC DEVICE FOR PERFORMING PASSIVE SHOULDER ROTATION EXERCISES**
[54] **DISPOSITIF THERAPEUTIQUE POUR EFFECTUER UN EXERCICE PASSIF DE ROTATION DE L'EPAULE**
[72] GONZALEZ RUIZ, GUAROCUYA, DO
[71] GONZALEZ RUIZ, GUAROCUYA, DO
[85] 2020-08-12
[86] 2018-09-06 (PCT/DO2018/050002)
[87] (WO2019/158176)
[30] DO (P2018-0054) 2018-02-19

[21] **3,091,542**
[13] A1
[51] **Int.Cl. F04D 13/06 (2006.01) F04D 13/08 (2006.01) H02K 5/22 (2006.01)**
[25] FR
[54] **INTEGRATED MOTOR-PUMP UNIT**
[54] **GROUPE MOTOPOMPE INTEGRE**
[72] PETIT, NICOLAS, FR
[72] AERNOUT, NOEMIE, FR
[71] KSB SAS, FR
[85] 2020-08-18
[86] 2019-04-03 (PCT/EP2019/058433)
[87] (WO2019/193069)
[30] FR (18 70412) 2018-04-06

[21] **3,091,543**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 48/00 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ORGAN-PROTECTIVE EXPRESSION AND MODULATION OF CODING RIBONUCLEIC ACIDS**
[54] **COMPOSITIONS ET PROCEDES D'EXPRESSION ET DE MODULATION DE CODAGE D'ACIDES RIBONUCLEIQUES DE PROTECTION D'ORGANE**
[72] MICOL, ROMAIN, GB
[71] COMBINED THERAPEUTICS, INC., US
[85] 2020-08-18
[86] 2019-02-19 (PCT/GB2019/050454)
[87] (WO2019/158955)
[30] US (62/632,056) 2018-02-19
[30] US (PCT/US2018/049772) 2018-09-06

[21] **3,091,544**
[13] A1
[51] **Int.Cl. A45C 3/00 (2006.01) B32B 5/00 (2006.01) B32B 23/00 (2006.01) B32B 29/00 (2006.01)**
[25] EN
[54] **BOX FOR TRANSPORTING VARIOUS PRODUCTS**
[54] **CAISSE POUR LE TRANSPORT DE PRODUITS DIVERS**
[72] MOLINA MUTANOLA, PABLO, ES
[71] SUMBOX WORLDWIDE SL, ES
[85] 2020-08-18
[86] 2019-04-02 (PCT/ES2019/070219)
[87] (WO2019/175462)

[21] **3,091,545**
[13] A1
[51] **Int.Cl. B62D 55/205 (2006.01) B60C 27/20 (2006.01) B62D 55/04 (2006.01) B62D 55/26 (2006.01) B62D 55/28 (2006.01)**
[25] EN
[54] **TRACK ASSEMBLY FOR TERRAIN GOING VEHICLES AND A LINK FOR THE TRACK ASSEMBLY**
[54] **ENSEMBLE CHENILLE POUR VEHICULES TOUT-TERRAIN ET LIAISON POUR L'ENSEMBLE CHENILLE**
[72] KORHONEN, MARKO, FI
[72] KORKMAN, MIKAEL, FI
[71] FOMATEC OY, FI
[85] 2020-08-18
[86] 2018-02-23 (PCT/FI2018/050135)
[87] (WO2019/162558)

[21] **3,091,546**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01) B01J 19/00 (2006.01)**
[25] EN
[54] **A SPRAY DRYING PROCESS WITH CONTINUOUS PREPARATION OF SPRAY SOLUTION**
[54] **PROCEDE DE SECHAGE PAR PULVERISATION AVEC PREPARATION CONTINUE D'UNE SOLUTION DE PULVERISATION**
[72] VICENTE, JOAO, PT
[72] SA COUTO, CLARA, PT
[72] FERREIRA, RUI, PT
[72] TEMTEM, MARCIO, PT
[71] HOVIONE SCIENTIA LIMITED, IE
[85] 2020-08-18
[86] 2019-02-22 (PCT/GB2019/050495)
[87] (WO2019/162688)
[30] PT (110585) 2018-02-22

[21] **3,091,547**
[13] A1
[51] **Int.Cl. A61K 35/62 (2006.01) A61K 38/17 (2006.01) A61K 38/44 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 17/00 (2006.01) A61P 37/00 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **LARVAL PREPARATION OF HELIGMOSOMOIDES POLYGYRUS BAKERI AS WELL AS METHODS OF MAKING IT AND USES THEREOF**
[54] **PREPARATION DE LARVES D'HELIGMOSOMOIDES POLYGYRUS BAKERI, LEURS PROCEDES DE FABRICATION ET LEURS UTILISATIONS**
[72] ESSER-VON BIEREN, JULIA, DE
[72] SCHMIDT-WEBER, CARSTEN, DE
[71] HELMHOLTZ ZENTRUM MUENCHEN - DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT (GMBH), DE
[85] 2020-08-18
[86] 2019-04-05 (PCT/EP2019/058610)
[87] (WO2019/193140)
[30] EP (18165899.8) 2018-04-05
[30] EP (18000325.3) 2018-04-05

[21] **3,091,548**
[13] A1
[51] **Int.Cl. D03D 1/00 (2006.01) D02G 3/44 (2006.01) D03D 15/00 (2006.01) A41D 1/00 (2018.01) A41D 19/00 (2006.01) A42B 3/04 (2006.01)**
[25] EN
[54] **CONDUCTIVE TEXTILE ASSEMBLY WITH ELECTRICAL SHIELDING STRUCTURE**
[54] **ENSEMBLE TEXTILE CONDUCTEUR COMPRENANT UNE STRUCTURE DE BLINDAGE ELECTRIQUE**
[72] SWALLOW, STANLEY SHIGEZO, GB
[72] THOMPSON, ASHA PETA, GB
[71] INTELLIGENT TEXTILES LIMITED, GB
[85] 2020-08-18
[86] 2019-02-19 (PCT/GB2019/050430)
[87] (WO2019/158946)
[30] GB (1802651.8) 2018-02-19

[21] **3,091,550**
[13] A1
[51] **Int.Cl. H04J 3/06 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH MASTER SLAVE TIMING ARCHITECTURE**
[54] **SYSTEME DE DETECTION DE COUPS DE FEU AVEC ARCHITECTURE DE SYNCHRONISATION MAITRE-ESCLAVE**
[72] CONNELL II, THOMAS WYSONG, US
[72] LEVIN III, ALAN, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-17
[86] 2019-02-14 (PCT/IB2019/051203)
[87] (WO2019/159099)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,551**
[13] A1
[51] **Int.Cl. G06K 9/46 (2006.01) G06K 9/32 (2006.01)**
[25] EN
[54] **METHOD FOR OPTICAL RECOGNITION OF MARKERS**
[54] **PROCEDE POUR LA RECONNAISSANCE OPTIQUE DE MARQUEURS**
[72] COIMBRA DE ANDRADE, DOUGLAS, BR
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR
[85] 2020-08-18
[86] 2019-02-19 (PCT/GB2019/050442)
[87] (WO2019/158951)
[30] BR (10 2018 003125-2) 2018-02-19

[21] **3,091,552**
[13] A1
[51] **Int.Cl. G08B 15/00 (2006.01) G08B 13/16 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH BUILDING MANAGEMENT SYSTEM INTEGRATION**
[54] **SYSTEME DE DETECTION DE COUPS DE FEU AVEC INTEGRATION DE SYSTEME DE GESTION DE BATIMENT**
[72] CONNELL II, THOMAS WYSONG, US
[72] LEVIN III, ALAN, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-17
[86] 2019-02-14 (PCT/IB2019/051205)
[87] (WO2019/159101)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,553**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/38 (2006.01) F04B 47/02 (2006.01)**
[25] EN
[54] **DOWNHOLE PUMP WITH ANTI-GAS LOCK ORIFICE**
[54] **POMPE DE FOND DE TROU A ORIFICE DE VERROUILLAGE ANTI-GAZ**
[72] FERREIRA GAGLIOTI, SILVIO, BR
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR
[85] 2020-08-18
[86] 2019-02-19 (PCT/GB2019/050445)
[87] (WO2019/158952)
[30] BR (10 2018 003152-0) 2018-02-19

[21] **3,091,555**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61P 25/18 (2006.01) C07D 493/04 (2006.01) C07D 495/04 (2006.01) C07D 498/04 (2006.01) C07D 513/00 (2006.01)**
[25] EN
[54] **TETRAHYDROPYRROLE COMPOUND, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION CONTAINING SAME, AND USE THEREOF**
[54] **COMPOSE TETRAHYDROPYRROLE, SON PROCEDE DE PREPARATION, COMPOSITION PHARMACEUTIQUE LE CONTENANT, ET UTILISATION ASSOCIEE**
[72] DANG, ZHU, CN
[72] CAI, CHRISTINE JUE, CN
[72] LUO, ZHEN, CN
[72] WANG, LIUGANG, CN
[72] BAO, DAN, CN
[71] MEDICONNS (SHANGHAI) BIOPHARMACEUTICAL CO., LTD, CN
[85] 2020-08-19
[86] 2018-12-26 (PCT/CN2018/123751)
[87] (WO2019/129025)
[30] CN (201711435683.3) 2017-12-26

[21] **3,091,558**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01) C12N 15/67 (2006.01)**
[25] EN
[54] **NOVEL RSV RNA MOLECULES AND COMPOSITIONS FOR VACCINATION**
[54] **NOUVELLES MOLECULES D'ARN RSV ET COMPOSITIONS POUR VACCINATION**
[72] LUTZ, JOHANNES, DE
[72] RAUCH, SUSANNE, DE
[72] HEIDENREICH, REGINA, DE
[72] PETSCH, BENJAMIN, DE
[71] CUREVAC AG, DE
[85] 2020-08-18
[86] 2019-04-17 (PCT/EP2019/060000)
[87] (WO2019/202035)
[30] EP (PCT/EP2018/059799) 2018-04-17
[30] EP (PCT/EP2018/060810) 2018-04-26
[30] EP (PCT/EP2018/061423) 2018-05-03

[21] **3,091,559**
[13] A1
[51] **Int.Cl. H04W 48/12 (2009.01)**
[25] EN
[54] **METHOD FOR ENABLING NEW RADIO (NR) INTEGRATED ACCESS AND BACKHAUL (IAB) NODES TO OPERATE IN NON-STANDALONE (NSA) CELLS**
[54] **PROCEDE POUR PERMETTRE A DES N□UDS D'ACCES ET DE RACCORDEMENT INTEGRES (IAB) NOUVELLE RADIO (NR) DE FONCTIONNER DANS DES CELLULES NON AUTONOMES (NSA)**
[72] MILDH, GUNNAR, SE
[72] MUHAMMAD, AJMAL, SE
[72] PEISA, JANNE, FI
[72] TEYEB, OUMER, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2020-08-17
[86] 2019-02-14 (PCT/IB2019/051211)
[87] (WO2019/159107)
[30] US (62/710,355) 2018-02-16

[21] **3,091,560**
[13] A1
[51] **Int.Cl. A61N 5/10 (2006.01) A61L 27/40 (2006.01) A61L 27/42 (2006.01) A61M 31/00 (2006.01) G21F 5/02 (2006.01) G21G 4/08 (2006.01)**
[25] EN
[54] **RADIOTHERAPY SEEDS AND APPLICATORS**
[54] **GRAINS ET APPLICATEURS POUR RADIOTHERAPIE**
[72] KELSON, ITZHAK, IL
[72] KEISARI, YONA, IL
[72] SCHMIDT, MICHAEL, IL
[72] MAGEN, OFER, IL
[72] SOSNOVITCH, AMITAI, IL
[72] KERET, GUY, IL
[72] GAT, AMNON, IL
[71] ALPHA TAU MEDICAL LTD., IL
[85] 2020-08-14
[86] 2019-03-07 (PCT/IB2019/051834)
[87] (WO2019/171308)
[30] US (62/640,077) 2018-03-08

[21] **3,091,563**
[13] A1
[51] **Int.Cl. G01S 17/89 (2020.01) G01S 7/483 (2006.01)**
[25] EN
[54] **METHOD FOR IMPROVED NEAR AND REMOTE DETECTION OF A LIDAR RECEIVING UNIT**
[54] **PROCEDE DE DETECTION RAPPROCHEE ET A DISTANCE AMELIOREE D'UNE UNITE DE RECEPTION LIDAR**
[72] BEUSCHEL, RALF, DE
[72] KIEHN, MICHAEL, DE
[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE
[85] 2020-08-12
[86] 2018-11-16 (PCT/EP2018/081592)
[87] (WO2019/115149)
[30] DE (10 2017 222 969.1) 2017-12-15

[21] **3,091,566**
[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/20 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AN AEROSOL-GENERATING DEVICE HAVING TEMPERATURE-BASED CONTROL**
[54] **DISPOSITIF DE GENERATION D'AEROSOL AYANT UNE COMMANDE BASEE SUR LA TEMPERATURE**
[72] UTHURRY, JEROME, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2020-08-18
[86] 2019-04-23 (PCT/EP2019/060380)
[87] (WO2019/206916)
[30] EP (18168846.6) 2018-04-23

[21] **3,091,569**
[13] A1
[51] **Int.Cl. H02J 3/14 (2006.01) H01R 13/66 (2006.01) H01R 13/70 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR CONTROLLING ELECTRICAL LOADS**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE COMMANDE DE CHARGES ELECTRIQUES**
[72] KRUSE, LARS PETER, CH
[72] FISCHER, MARKUS, CH
[71] LANDIS+GYR AG, CH
[85] 2020-08-18
[86] 2019-02-14 (PCT/IB2019/051184)
[87] (WO2019/159089)
[30] CH (00196/18) 2018-02-19

[21] **3,091,571**
[13] A1
[51] **Int.Cl. G01S 19/24 (2010.01) H04B 7/185 (2006.01)**
[25] EN
[54] **TRANSMISSION OF SATELLITE NAVIGATION MESSAGE INTO MULTIPLE PAGES ENCODED FOR OPTIMAL RETRIEVAL AT RECEIVER IN A FULLY INTERCHANGEABLE WAY**
[54] **TRANSMISSION D'UN MESSAGE DE NAVIGATION PAR SATELLITE DANS DE MULTIPLES PAGES CODEES POUR UNE RECUPERATION OPTIMALE AU NIVEAU DU RECEPTEUR D'UNE MANIERE ENTIEREMENT INTERCHANGEABLE**
[72] FERNANDEZ-HERNANDEZ, IGNACIO, BE
[71] THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, BE
[85] 2020-08-18
[86] 2019-10-03 (PCT/EP2019/076846)
[87] (WO2020/074366)
[30] EP (18199280.1) 2018-10-09

[21] **3,091,577**
[13] A1
[51] **Int.Cl. A01G 25/09 (2006.01) A01G 31/06 (2006.01)**
[25] EN
[54] **DEVICE FOR MOISTENING AND/OR FERTILIZING PLANTS**
[54] **DISPOSITIF POUR L'HUMIDIFICATION ET/OU LA FERTILISATION DE PLANTES**
[72] PARAPATITS, MARTIN, AT
[71] PHYTONIQ GMBH, AT
[85] 2020-08-10
[86] 2019-02-14 (PCT/AT2019/060056)
[87] (WO2019/157548)
[30] AT (A50140/2018) 2018-02-15
[30] AT (A50305/2018) 2018-04-11

[21] **3,091,578**
[13] A1
[51] **Int.Cl. C02F 9/14 (2006.01) B01D 35/02 (2006.01) C02F 1/44 (2006.01) C02F 3/00 (2006.01) C02F 3/10 (2006.01) C02F 3/28 (2006.01) C02F 3/30 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A LOW ENVIRONMENTAL IMPACT TREATMENT OF CONTAMINATED FLUID**
[54] **SYSTEMES ET PROCEDES POUR UN TRAITEMENT A FAIBLE IMPACT ENVIRONNEMENTAL D'UN FLUIDE CONTAMINE**
[72] POWELL, ANTHONY L., CA
[72] BUTTERS, BRIAN E., CA
[71] 1934612 ONTARIO INC., CA
[85] 2020-08-17
[86] 2019-02-23 (PCT/IB2019/051473)
[87] (WO2019/162905)
[30] US (62/634,475) 2018-02-23

[21] **3,091,579**
[13] A1
[51] **Int.Cl. G09B 21/02 (2006.01) G09B 5/06 (2006.01)**
[25] EN
[54] **A SMART INTERACTIVE SYSTEM FOR BRAILLE LEARNING**
[54] **SYSTEME INTERACTIF INTELLIGENT POUR APPRENTISSAGE DU BRAILLE**
[72] SHAIKH, SAIF ALI SHOUKAT ALI, IN
[72] RAMESH, DILIP, IN
[72] DAWLE, SANSKRITI ATUL, IN
[72] SRIVASTAVA, AMAN KARAN, IN
[71] THINKERBELL LABS PRIVATE LIMITED, IN
[85] 2020-08-18
[86] 2019-02-20 (PCT/IB2019/051370)
[87] (WO2019/162848)
[30] IN (201841006427) 2018-02-20

[21] **3,091,580**
[13] A1
[51] **Int.Cl. B81B 3/00 (2006.01) F15C 3/00 (2006.01) F16K 7/17 (2006.01) F16K 13/00 (2006.01)**
[25] EN
[54] **POLYMERIC MICROFLUIDIC VALVE**
[54] **SOUPAPE MICROFLUIDIQUE POLYMERE**
[72] LI, KEBIN, CA
[72] MORTON, KEITH J., CA
[72] VERES, TEODOR, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2020-08-17
[86] 2019-03-04 (PCT/IB2019/051731)
[87] (WO2019/167031)
[30] US (62/637,673) 2018-03-02

[21] **3,091,581**
[13] A1
[51] **Int.Cl. C22C 38/00 (2006.01) C21D 9/46 (2006.01) C22C 38/06 (2006.01) C23C 2/02 (2006.01) C23C 2/06 (2006.01) C23C 2/40 (2006.01) C21D 1/18 (2006.01) C21D 9/00 (2006.01)**
[25] EN
[54] **ZINC-PLATED STEEL SHEET FOR HOT STAMPING AND PRODUCTION METHOD THEREFOR**
[54] **TOLE D'ACIER PLAQUEE ZINC POUR L'ESTAMPAGE A CHAUD ET SON PROCEDE DE PRODUCTION**
[72] YOSHIDA, TAKATOSHI, JP
[72] UKAWA, YOSUKE, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2020-08-18
[86] 2019-02-06 (PCT/JP2019/004182)
[87] (WO2019/167573)
[30] JP (2018-037132) 2018-03-02

[21] **3,091,582**
[13] A1
[51] **Int.Cl. A61B 3/13 (2006.01) A61B 3/15 (2006.01)**
[25] EN
[54] **AUTOMATIC XY CENTERING FOR DIGITAL MICROSCOPE**
[54] **CENTRAGE XY AUTOMATIQUE POUR MICROSCOPE NUMERIQUE**
[72] CHARLES, STEVEN T., US
[71] ALCON INC., CH
[85] 2020-08-17
[86] 2019-04-04 (PCT/IB2019/052783)
[87] (WO2019/197951)
[30] US (62/656,079) 2018-04-11

[21] **3,091,583**
[13] A1
[51] **Int.Cl. A61K 39/09 (2006.01) C07K 14/315 (2006.01) A61K 39/00 (2006.01) C12N 15/74 (2006.01)**
[25] EN
[54] **EXPRESSION OF PNEUMOCOCCAL SURFACE PROTEIN A (PSPA)**
[54] **EXPRESSION DE PROTEINE DE SURFACE PNEUMOCOCCIQUE A (PSPA)**
[72] SRIRAMAN, RAJAN, IN
[72] MATUR, RAMESH VENKAT, IN
[72] MANTENA, NARENDER DEV, IN
[72] DATLA, MAHIMA, IN
[72] KAMIREDDY, SWETHA, IN
[71] BIOLOGICAL E LIMITED, IN
[85] 2020-08-18
[86] 2019-03-01 (PCT/IB2019/051655)
[87] (WO2019/167008)
[30] IN (201841007814) 2018-03-01

[21] **3,091,584**
[13] A1
[51] **Int.Cl. A61K 31/4965 (2006.01) A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61P 7/00 (2006.01) A61P 7/02 (2006.01) A61P 9/08 (2006.01) A61P 11/08 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **GRANULAR COMPOSITION, PRODUCTION METHOD FOR GRANULAR COMPOSITION, AND DISSOLUTION PROPERTY IMPROVEMENT METHOD FOR GRANULAR COMPOSITION**
[54] **COMPOSITION GRANULAIRE, PROCEDE DE PRODUCTION D'UNE COMPOSITION GRANULAIRE ET PROCEDE D'AMELIORATION DE LA PROPRIETE D'ELUTION D'UNE COMPOSITION GRANULAIRE**
[72] TANAKA, TOSHINORI, JP
[72] YAMADA, RIE, JP
[71] NIPPON SHINYAKU CO., LTD., JP
[85] 2020-08-18
[86] 2019-02-20 (PCT/JP2019/006317)
[87] (WO2019/163822)
[30] JP (2018-029093) 2018-02-21

[21] **3,091,585**
[13] A1
[51] **Int.Cl. H01B 3/52 (2006.01) C08G 59/42 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR USE IN IMPREGNATION OF PAPER BUSHINGS**
[54] **COMPOSITIONS DESTINEES A ETRE UTILISEES DANS L'IMPREGNATION DE TRAVERSEES EN PAPIER**
[72] BEISELE, CHRISTIAN, DE
[72] WILBERS, HUBERT, DE
[72] BAR, DANIEL, CH
[71] HUNTSMAN ADVANCED MATERIALS LICENSING (SWITZERLAND) GMBH, CH
[85] 2020-08-17
[86] 2019-02-22 (PCT/EP2019/054430)
[87] (WO2019/174891)
[30] EP (18162360.4) 2018-03-16

[21] **3,091,593**
[13] A1
[51] **Int.Cl. A61B 8/08 (2006.01) A61B 10/02 (2006.01) A61B 17/34 (2006.01) G01S 7/52 (2006.01)**
[25] EN
[54] **BIOPSY NEEDLE VISUALIZATION**
[54] **VISUALISATION D'AIGUILLE DE BIOPSIE**
[72] ST. PIERRE, SHAWN, US
[72] GRANTZ, STEPHEN, US
[72] FISK, THOMAS, US
[72] GUETERSLOH, MARK, US
[71] HOLOGIC, INC., US
[85] 2020-08-17
[86] 2019-05-03 (PCT/US2019/030615)
[87] (WO2019/213532)
[30] US (62/666,869) 2018-05-04

[21] **3,091,597**
[13] A1
[51] **Int.Cl. A61K 47/32 (2006.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/51 (2006.01) A61K 31/4985 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATIONS, METHOD FOR PRODUCING A PHARMACEUTICAL FORMULATION, AND MEDICAMENT COMPRISING SAME**
[54] **FORMULATIONS PHARMACEUTIQUES, PROCEDE DE FABRICATION D'UNE FORMULATION PHARMACEUTIQUE ET MEDICAMENT COMPRENANT UNE TELLE FORMULATION PHARMACEUTIQUE**
[72] ROEWER, NORBERT, DE
[72] BROSCHEIT, JENS, DE
[72] STEER, ISABELL, DE
[71] SMAWA GMBH, DE
[85] 2020-08-06
[86] 2019-02-07 (PCT/EP2019/052972)
[87] (WO2019/154896)
[30] EP (18155542.6) 2018-02-07

[21] **3,091,598**
[13] A1
[51] **Int.Cl. A61K 45/00 (2006.01) C12Q 1/686 (2018.01) A61K 31/166 (2006.01) A61K 31/17 (2006.01) A61K 31/37 (2006.01) A61K 31/4166 (2006.01) A61K 31/426 (2006.01) A61K 31/439 (2006.01) A61K 31/445 (2006.01) A61K 31/4453 (2006.01) A61K 31/4525 (2006.01) A61K 31/455 (2006.01) A61K 31/4741 (2006.01) A61K 31/496 (2006.01) A61K 31/498 (2006.01) A61K 31/502 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/529 (2006.01) A61K 31/5377 (2006.01) A61K 31/538 (2006.01) A61K 31/553 (2006.01) A61K 31/7028 (2006.01) A61K 38/05 (2006.01) A61P 19/08 (2006.01) A61P 43/00 (2006.01) C12Q 1/02 (2006.01) C12Q 1/68 (2018.01) G01N 33/15 (2006.01) G01N 33/50 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **IL-17A ACTIVITY INHIBITOR AND USE THEREOF**
[54] **INHIBITEUR DE L'ACTIVITE DE L'IL-17A ET SON UTILISATION**
[72] SAKAI, DAISUKE, JP
[72] HIRAYAMA, NORIAKI, JP
[72] SUYAMA, KAORI, JP
[71] TOKAI UNIVERSITY EDUCATIONAL SYSTEM, JP
[71] NIPPON ZOKI PHARMACEUTICAL CO., LTD., JP
[85] 2020-08-18
[86] 2019-02-22 (PCT/JP2019/006786)
[87] (WO2019/163945)
[30] JP (2018-030061) 2018-02-22

[21] **3,091,602**
[13] A1
[51] **Int.Cl. G06T 15/00 (2011.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR COMMAND STREAM OPTIMIZATION AND ENHANCEMENT**
[54] **APPAREIL ET PROCEDE D'OPTIMISATION ET D'AMELIORATION D'UN FLUX DE COMMANDES**
[72] ZHANG, FAN, US
[72] ZHU, XIAOXING, US
[72] CABALLERO, ARTURO, US
[72] NUNES, GUSTAVO, US
[72] CHANOT, AURELIEN, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-08-10
[86] 2019-05-31 (PCT/CN2019/089514)
[87] (WO2019/228497)
[30] US (62/678,726) 2018-05-31
[30] US (62/722,542) 2018-08-24

[21] **3,091,604**
[13] A1
[51] **Int.Cl. A61B 17/28 (2006.01) A61B 17/29 (2006.01) A61B 17/30 (2006.01) B25B 9/02 (2006.01)**
[25] EN
[54] **INSTRUMENTS AND METHODS FOR THE IMPLANTATION OF CELL-SEEDED ULTRA-THIN SUBSTRATES**
[54] **INSTRUMENTS ET PROCEDES D'IMPLANTATION DE SUBSTRATS ULTRAMINCES ENSEMENCES DE CELLULES**
[72] HUMAYUN, MARK S., US
[71] UNIVERSITY OF SOUTHERN CALIFORNIA, US
[85] 2020-08-18
[86] 2019-02-20 (PCT/US2019/018831)
[87] (WO2019/164993)
[30] US (62/633,002) 2018-02-20

[21] **3,091,607**
[13] A1
[51] **Int.Cl. B60L 53/68 (2019.01) G06Q 50/30 (2012.01) B60L 53/16 (2019.01) B60L 53/63 (2019.01) B60L 53/66 (2019.01) B60L 53/67 (2019.01)**
[25] EN
[54] **A METHOD AND DEVICE FOR CONVERTING STANDALONE EV CHARGING STATIONS INTO INTELLIGENT STATIONS WITH REMOTE COMMUNICATIONS CONNECTIVITY AND CONTROL**
[54] **PROCEDE ET DISPOSITIF DE CONVERSION DE STATIONS DE CHARGE EV AUTONOMES EN STATIONS INTELLIGENTES A CONNECTIVITE ET COMMANDE DE COMMUNICATIONS A DISTANCE**
[72] GOEI, ESMOND, US
[71] POWER HERO CORP., US
[85] 2020-08-14
[86] 2019-02-19 (PCT/US2019/018551)
[87] (WO2019/161377)
[30] US (62/632,208) 2018-02-19

[21] **3,091,609**
[13] A1
[51] **Int.Cl. B23C 5/22 (2006.01) B23C 5/06 (2006.01)**
[25] EN
[54] **ROUND DOUBLE-SIDED CUTTING INSERT HAVING A PERIPHERAL SURFACE PROVIDED WITH PROTRUDING INDEXING LATCHES, INSERT HOLDER THEREFOR AND CUTTING TOOL**
[54] **PLAQUETTE DE COUPE DOUBLE FACE RONDE AYANT UNE SURFACE PERIPHERIQUE POURVUE DE VERROUS D'INDEXATION SAILLANTS, PORTE-PLAQUETTE POUR CELUI-CI ET OUTIL DE COUPE**
[72] HECHT, GIL, IL
[71] ISCAR LTD., IL
[85] 2020-08-18
[86] 2019-01-22 (PCT/IL2019/050087)
[87] (WO2019/159161)
[30] US (15/898,956) 2018-02-19

[21] **3,091,611**
[13] A1
[51] **Int.Cl. A61B 5/04 (2006.01) G06N 20/00 (2019.01) G06N 20/10 (2019.01) A61B 5/00 (2006.01) A61B 5/0476 (2006.01) G06F 3/01 (2006.01) G06F 3/05 (2006.01) G06K 9/62 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INTERFACING WITH BIOLOGICAL TISSUE**
[54] **SYSTEME ET PROCEDE D'INTERFACAGE AVEC UN TISSU BIOLOGIQUE**
[72] GENOV, ROMAN, CA
[72] O'LEARY, GERARD, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2020-08-04
[86] 2019-02-11 (PCT/CA2019/050172)
[87] (WO2019/153094)
[30] US (62/629,001) 2018-02-10
[30] US (16/214,374) 2018-12-10

[21] **3,091,613**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTI-ANGIOPOIETIN-2 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-ANGIOPOIETINE-2 ET LEURS UTILISATIONS**
[72] KOH, GOU YOUNG, KR
[72] BAE, JEOMIL, KR
[72] KIM, MI JEONG, KR
[72] PARK, JIN-SUNG, KR
[72] SEO, SU JIN, KR
[72] KIM, JAERYUNG, KR
[72] PARK, JANG RYUL, KR
[72] KIM, PILHAN, KR
[72] OH, WANGYUHL, KR
[71] INSTITUTE FOR BASIC SCIENCE, KR
[71] KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY, KR
[85] 2020-08-18
[86] 2019-02-19 (PCT/KR2019/001983)
[87] (WO2019/164219)
[30] US (62/633,038) 2018-02-20
[30] KR (10-2019-0018769) 2019-02-18

[21] **3,091,614**
[13] A1
[51] **Int.Cl. A61F 2/02 (2006.01) A61L 27/06 (2006.01)**
[25] EN
[54] **SELF-EXPANDING MESH ENDOPROSTHESIS FOR ENDOSCOPIC HERNIOPLASTY**
[54] **ENDOPROTHESE AUTODEPLIABLE POUR HERNIOPLASTIE ENDOSCOPIQUE**
[72] KAZANTSEV, ANTON ANATOLEVICH, RU
[72] YUSUPOV, AJRAT AUHATOVICH, RU
[72] ALEHIN, ALEXANDR IVANOVICH, RU
[72] ZAVARUEV, VLADIMIR ANDREEVICH, RU
[71] LIMITED LIABILITY COMPANY "ELASTIC TITANIUM IMPLANTS", RU
[85] 2020-08-18
[86] 2018-01-31 (PCT/RU2018/000048)
[87] (WO2019/151885)

[21] **3,091,615**
[13] A1
[51] **Int.Cl. A01M 17/00 (2006.01) A01C 21/00 (2006.01) A01G 7/06 (2006.01) A01G 13/00 (2006.01) A01N 59/02 (2006.01) A01P 3/00 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01)**
[25] EN
[54] **AGRICULTURAL MAT**
[54] **TAPIS AGRICOLE**
[72] ITOI, SHINICHIRO, JP
[71] ITOI, SHINICHIRO, JP
[85] 2020-08-18
[86] 2018-03-06 (PCT/JP2018/008595)
[87] (WO2019/171472)

[21] **3,091,617**
[13] A1
[51] **Int.Cl. A61F 2/02 (2006.01) A61L 27/06 (2006.01)**
[25] EN
[54] **SELF-FIXING MESH IMPLANT BASED ON TITANIUM THREAD AND BIORESORBABLE POLYMERS**
[54] **ENDOPROTHESE MAILLEE A FIXATION AUTONOME A BASE D'UN FIL DE TITANE ET DE POLYMERES BIORESORBABLES**
[72] KAZANTSEV, ANTON ANATOLEVICH, RU
[72] YUSUPOV, AJRAT AUHATOVICH, RU
[72] ALEHIN, ALEXANDR IVANOVICH, RU
[72] ZAVARUEV, VLADIMIR ANDREEVICH, RU
[71] LIMITED LIABILITY COMPANY "ELASTIC TITANIUM IMPLANTS", RU
[85] 2020-08-18
[86] 2018-01-31 (PCT/RU2018/000049)
[87] (WO2019/151886)

[21] **3,091,619**
[13] A1
[51] **Int.Cl. A61L 17/06 (2006.01) A61L 17/00 (2006.01) A61L 17/04 (2006.01)**
[25] EN
[54] **SELF-FIXING MESH IMPLANT BASED ON TITANIUM THREAD AND BIORESORBABLE POLYMERS**
[54] **MATERIAU CHIRURGICAL COMPOSITE POUR SUTURES A BASE D'UN FIL DE TITANE A FILAMENTS MULTIPLES ET DE POLYMERES BIORESORBABLES**
[72] KAZANTSEV, ANTON ANATOLEVICH, RU
[72] YUSUPOV, AJRAT AUHATOVICH, RU
[71] LIMITED LIABILITY COMPANY "ELASTIC TITANIUM IMPLANTS", RU
[85] 2020-08-18
[86] 2018-01-31 (PCT/RU2018/000050)
[87] (WO2019/151887)

[21] **3,091,621**
[13] A1
[51] **Int.Cl. B60L 50/53 (2019.01) E21B 7/02 (2006.01)**
[25] EN
[54] **A HYBRID VEHICULAR WORK MACHINE**
[54] **MACHINE DE TRAVAIL VEHICULAIRE HYBRIDE**
[72] OLSSON, TOMMY, SE
[71] HUSQVARNA AB, SE
[85] 2020-08-18
[86] 2019-02-21 (PCT/SE2019/050158)
[87] (WO2019/164440)
[30] SE (1850218-7) 2018-02-26

[21] **3,091,623**
[13] A1
[51] **Int.Cl. A61N 5/00 (2006.01) A61N 1/32 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **TISSUE-STIMULATING METHOD USING FREQUENCY SCANNING OF ELECTRIC AND MAGNETIC FIELDS**
[54] **PROCEDE DE STIMULATION DE TISSUS AU MOYEN D'UN BALAYAGE DE FREQUENCE DE CHAMPS ELECTRIQUES ET MAGNETIQUES**
[72] VELASCO VALCKE, FRANCISCO JAVIER, CO
[71] PANACEA QUANTUM LEAP TECHNOLOGY LLC, US
[85] 2020-08-05
[86] 2019-02-07 (PCT/IB2019/051007)
[87] (WO2019/155407)
[30] CO (NC2018/0001283) 2018-02-07

[21] **3,091,624**
[13] A1
[51] **Int.Cl. B32B 27/06 (2006.01)**
[25] EN
[54] **PROTECTIVE FILM, AND METHOD AND APPARATUS FOR CUTTING PROTECTIVE FILM**
[54] **FILM PROTECTEUR ET PROCEDE ET DISPOSITIF DE COUPE DE FILM PROTECTEUR**
[72] LIN, JIAO, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-08-26
[86] 2019-02-13 (PCT/CN2019/074920)
[87] (WO2019/158065)
[30] CN (201810150575.X) 2018-02-13
[30] CN (201810170848.7) 2018-03-01

[21] **3,091,625**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/82 (2006.01)**
[25] EN
[54] **SHORT/SMALL HAIRPIN RNA MOLECULES**
[54] **COURTES/PETITES MOLECULES D'ARN EN EPINGLE A CHEVEUX**
[72] FISHILEVICH, ELANE, US
[72] NARVA, KENNETH, US
[72] YANG, XIAOZENG, US
[72] FREY, MEGHAN L., US
[72] RANGASAMY, MURUGESAN, US
[72] LO, WENDY, US
[72] GANDRA, PREMCHAND, US
[72] WATERHOUSE, PETER MICHAEL, AU
[71] DOW AGROSCIENCES LLC, US
[71] QUEENSLAND UNIVERSITY OF TECHNOLOGY, AU
[85] 2020-08-18
[86] 2019-02-22 (PCT/AU2019/050146)
[87] (WO2019/161449)
[30] US (62/633,720) 2018-02-22
[30] US (62/773,355) 2018-11-30

[21] **3,091,626**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A01N 1/02 (2006.01) A61P 1/00 (2006.01) A61P 1/12 (2006.01) C12Q 1/04 (2006.01)**
[25] FR
[54] **STOOL COLLECTION METHOD AND SAMPLE PREPARATION METHOD FOR TRANSPLANTING FECAL MICROBIOTA**
[54] **PROCEDURE DE COLLECTE DE SELLES ET PROCEDE DE PREPARATION D'UN ECHANTILLON POUR TRANSPLANTATION DE MICROBIOTE FECAL**
[72] SCHWINTNER, CAROLE, FR
[72] LEROUX, ALICE, FR
[72] MADER, CLEMENCE, FR
[72] AFFAGARD, HERVE, FR
[71] MAAT PHARMA, FR
[85] 2020-08-12
[86] 2019-03-08 (PCT/FR2019/050522)
[87] (WO2019/171012)
[30] FR (1852084) 2018-03-09

[21] **3,091,627**
[13] A1
[51] **Int.Cl. B21J 5/00 (2006.01) C21D 1/00 (2006.01) F16C 33/00 (2006.01)**
[25] EN
[54] **A PROCESS OF MANUFACTURING OF SEGMENTS FOR CARBON THRUST BEARING**
[54] **PROCEDE DE FABRICATION DE SEGMENTS POUR PALIER DE BUTEE EN CARBONE**
[72] SARADVA, ATULKUMAR RAGHAVJIBHAI, IN
[71] SARADVA, ATULKUMAR RAGHAVJIBHAI, IN
[85] 2020-07-07
[86] 2018-05-31 (PCT/IN2018/050349)
[87] (WO2018/220648)
[30] IN (201721019553) 2017-06-03

[21] **3,091,629**
[13] A1
[51] **Int.Cl. E01B 9/18 (2006.01) E01B 9/38 (2006.01) F16B 13/00 (2006.01) F16B 13/14 (2006.01)**
[25] EN
[54] **RAIL FASTENING SYSTEM**
[54] **SYSTEME DE FIXATION DE RAIL**
[72] LIENHARD, STEFAN, DE
[72] MEYER, FRANK, DE
[71] SCHWIHAG AG, CH
[85] 2020-07-07
[86] 2019-01-08 (PCT/EP2019/050327)
[87] (WO2019/137905)
[30] DE (10 2018 100 554.7) 2018-01-11

[21] **3,091,632**
[13] A1
[51] **Int.Cl. A61K 31/737 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **TREATMENT OF POST-OPERATIVE JOINT PAIN WITH POLYSULFATED POLYSACCHARIDES**
[54] **TRAITEMENT DE LA DOULEUR ARTICULAIRE POST-OPERATOIRE AVEC DES POLYSACCHARIDES POLYSULFATES**
[72] RENNIE, PAUL, AU
[72] KRISHNAN, RAVI, AU
[71] PARADIGM BIOPHARMACEUTICALS LTD, AU
[85] 2020-08-18
[86] 2019-02-27 (PCT/AU2019/050163)
[87] (WO2019/165498)
[30] AU (2018900650) 2018-02-28

[21] **3,091,635**
[13] A1
[51] **Int.Cl. G09B 19/00 (2006.01)**
[25] EN
[54] **METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR MEASURING AND INTERPRETING METRICS OF AN ATHLETIC ACTION AND AN OBJECT ASSOCIATED THEREWITH**
[54] **PROCEDE, APPAREIL ET PRODUIT PROGRAMME D'ORDINATEUR POUR MESURER ET INTERPRETER DES METRIQUES D'UNE ACTION SPORTIVE ET D'UN OBJET QUI LUI EST ASSOCIE**
[72] RANKIN, DAVID BENJAMIN, US
[72] CUKIERNIK, STEVEN ALEXIS, US
[71] F5 SPORTS, INC., US
[85] 2020-08-18
[86] 2019-02-15 (PCT/US2019/018218)
[87] (WO2019/161201)
[30] US (62/632,333) 2018-02-19
[30] US (16/100,584) 2018-08-10

[21] **3,091,637**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61B 34/00 (2016.01) G16H 30/40 (2018.01)**
[25] EN
[54] **ENGAGEMENT AND EDUCATION OF PATIENTS FOR ENDOSCOPIC SURGERY**
[54] **ENGAGEMENT ET EDUCATION DE PATIENTS SERVANT A UNE CHIRURGIE ENDOSCOPIQUE**
[72] WARKENTINE, BLAINE, US
[71] PRISTINE SURGICAL LLC, US
[85] 2020-08-18
[86] 2019-02-18 (PCT/US2019/018383)
[87] (WO2019/164775)
[30] US (62/632,829) 2018-02-20
[30] US (16/278,112) 2019-02-17

[21] **3,091,639**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTI-TIGIT ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-TIGIT ET LEURS UTILISATIONS**
[72] LEE, KWANG-HOON, KR
[72] LEE, JUNE HYUNG, KR
[72] LEE, NA RAE, KR
[72] JEONG, EUNJEONG, KR
[72] PARK, YOUNG BONG, KR
[72] CHANG, NAKHO, KR
[72] LEE, EUN-JUNG, KR
[72] KIM, KI HONG, KR
[72] CHOI, SUNGHYUN, KR
[72] CHOI, BYUNG HYUN, KR
[72] PARK, JU YOUNG, KR
[72] SONG, MOO YOUNG, KR
[72] LEE, JONG-SEO, KR
[72] KIM, KYU-TAE, KR
[72] KO, BONG-KOOK, KR
[71] YUHAN CORPORATION, KR
[85] 2020-08-18
[86] 2019-02-28 (PCT/KR2019/002440)
[87] (WO2019/168382)
[30] KR (10-2018-0024822) 2018-02-28

[21] **3,091,641**
[13] A1
[51] **Int.Cl. C09D 5/00 (2006.01) C09D 1/00 (2006.01)**
[25] EN
[54] **NON-STICK CERAMIC COATING COMPRISING DIAMONDS AND COLOURED MICA**
[54] **REVETEMENT CERAMIQUE ANTIADHESIF COMPRENANT DES DIAMANTS ET DU MICA COLORE**
[72] HELSKENS, JAN, BE
[72] PARK, CHUNG KWON, KR
[71] THERMOLON KOREA CO. LTD., KR
[71] HELSKENS, JAN, BE
[85] 2020-08-05
[86] 2019-02-05 (PCT/EP2019/052795)
[87] (WO2019/154816)
[30] EP (18155281.1) 2018-02-06

[21] **3,091,642**
[13] A1
[51] **Int.Cl. C07D 307/93 (2006.01) C07D 413/04 (2006.01) C07D 491/048 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **AGENTS AND METHODS FOR TREATING DYSPROLIFERATIVE DISEASES**
[54] **AGENTS ET METHODES POUR TRAITER DES MALADIES DYSPROLIFERATIVES**
[72] FUKASE, YOSHIYUKI, US
[72] DUGGAN, MARK, US
[72] WENDEL, HANS-GUIDO, US
[72] SINGH, KAMINI, US
[71] MEMORIAL SLOAN-KETTERING CANCER CENTER, US
[85] 2020-08-18
[86] 2019-02-18 (PCT/US2019/018441)
[87] (WO2019/161345)
[30] US (62/632,372) 2018-02-19

[21] **3,091,644**
[13] A1
[51] **Int.Cl. A61B 50/20 (2016.01) A61B 50/22 (2016.01) A61B 50/33 (2016.01) A61B 90/57 (2016.01) A61L 2/26 (2006.01)**
[25] EN
[54] **MODULAR TRAY AND BRACKET ASSEMBLY FOR EQUIPMENT STERILIZATION**
[54] **ENSEMBLE DE SUPPORT ET PLATEAU MODULAIRE POUR LA STERILISATION D'EQUIPEMENTS**
[72] OKO, WALTER J., US
[72] COHEN, SCOTT E., US
[71] K1 MEDICAL TECHNOLOGIES, LLC, US
[85] 2020-08-18
[86] 2019-02-20 (PCT/US2019/018809)
[87] (WO2019/164976)
[30] US (62/633,429) 2018-02-21
[30] US (16/116,302) 2018-08-29

[21] **3,091,646**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-HUMAN PD-L2 ANTIBODIES**
[54] **ANTICORPS ANTI-PD-L2 HUMAINS**
[72] KOHLER, RETO SIMON, CH
[72] XUE, GONGDA, CH
[72] CRON, LENA, CH
[71] ABBA THERAPEUTICS AG, CH
[85] 2020-08-10
[86] 2019-02-14 (PCT/EP2019/053675)
[87] (WO2019/158645)
[30] EP (18156650.6) 2018-02-14
[30] EP (18201668.3) 2018-10-22

[21] **3,091,647**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **METHODS FOR PROSTATE CANCER DETECTION AND TREATMENT**
[54] **METHODES POUR LA DETECTION ET LE TRAITEMENT DU CANCER DE LA PROSTATE**
[72] MODLIN, IRVIN MARK, US
[72] KIDD, MARK, US
[72] DROZDOV, IGNAT, GB
[71] LIQUID BIOPSY RESEARCH LLC, KN
[85] 2020-08-18
[86] 2019-02-21 (PCT/US2019/018878)
[87] (WO2019/165021)
[30] US (62/633,675) 2018-02-22

[21] **3,091,648**
[13] A1
[51] **Int.Cl. C10L 1/12 (2006.01)**
[25] EN
[54] **FUEL INCLUDING POLY-OXYGENATED METAL HYDROXIDE**
[54] **CARBURANT COMPRENANT UN HYDROXYDE METALLIQUE POLY-OXYGENE**
[72] WOODMANSEE, JOHN W. JR., US
[71] HEMOTEK, LLC, US
[85] 2020-08-18
[86] 2019-02-18 (PCT/US2019/018397)
[87] (WO2020/013888)
[30] US (62/632,126) 2018-02-19
[30] US (16/259,426) 2019-01-28

[21] **3,091,651**
[13] A1
[51] **Int.Cl. A63B 22/02 (2006.01)**
[25] EN
[54] **DIFFERENTIAL AIR PRESSURE EXERCISE AND THERAPEUTIC DEVICE**
[54] **EXERCICE DE PRESSION D'AIR DIFFERENTIELLE ET DISPOSITIF THERAPEUTIQUE**
[72] BAYERLEIN, DOUGLAS G., US
[72] OBLAMSKI, NICHOLAS A., US
[72] EMONS, VANCE E., US
[72] PETERSON, BEN, US
[72] JORDAN, DEREK T., US
[71] WOODWAY USA, INC., US
[85] 2020-08-18
[86] 2019-02-18 (PCT/US2019/018429)
[87] (WO2019/161338)
[30] US (62/632,310) 2018-02-19

[21] **3,091,668**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **GARMENT FOR MONITORING A USER AND METHOD FOR MAKING THE SAME**
[54] **VETEMENT POUR SURVEILLANCE D'UN UTILISATEUR ET SON PROCEDE DE FABRICATION**
[72] FU, JIE, US
[72] MA, RAN, US
[72] SCHOLTEN, HENK JAN, US
[71] SIREN CARE, INC., US
[85] 2020-08-18
[86] 2019-02-20 (PCT/US2019/018714)
[87] (WO2019/164901)
[30] US (62/632,614) 2018-02-20

[21] **3,091,669**
[13] A1
[51] **Int.Cl. G01N 33/02 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ALLERGEN DETECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION D'ALLERGENES**
[72] GILBOA-GEFFEN, ADI, US
[72] WEEKS, ALAN LLOYD, US
[72] VILLAREAL, VALERIE, US
[72] MURPHY, PATRICK, US
[72] ROBERTSON, ERIC ANTHONY, US
[72] CARPENTER, DAVID, US
[72] DAY, DEIRDRE ELLEN, US
[72] DEAN, MATTHEW BERNARD, US
[72] CAMPBELL, TODD GLENDON, US
[72] KINTZ, GREGORY J., US
[72] KOH, PAUL, US
[72] DOSTAL, DAVID JENNINGS, US
[72] DOHERTY, KEVIN, US
[72] JENSEN, JOEL F., US
[72] LAW, WILLIAM, US
[72] MEAD, JR., RUSSELL C., US
[72] ALCORTA, J. EFRAIN, US
[71] DOTS TECHNOLOGY CORP., US
[85] 2020-08-18
[86] 2019-02-21 (PCT/US2019/018860)
[87] (WO2019/165014)
[30] US (62/633,126) 2018-02-21
[30] US (62/687,126) 2018-06-19

[21] **3,091,670**
[13] A1
[51] **Int.Cl. A61K 31/497 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **AGONISTS OF STIMULATOR OF INTERFERON GENES STING**
[54] **AGONISTES DE LA PROTEINE STING**
[72] LAIRSON, LUKE L., US
[72] CHIN, EMILY N., US
[72] CHATTERJEE, ARNAB, US
[72] KUMAR, MANOJ, US
[72] ALBERO, ANA MARIA GAMO, US
[72] PETRASSI, MIKE, US
[72] SCHULTZ, PETER, US
[72] YU, CHENGUANG, US
[72] TAMIYA, JUNKO, US
[72] VERNIER, WILLIAM, US
[72] GUPTA, ANIL, US
[72] MODUKURI, RAMKUMAR, US
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2020-08-18
[86] 2019-02-21 (PCT/US2019/018899)
[87] (WO2019/165032)
[30] US (62/633,409) 2018-02-21

[21] **3,091,671**
[13] A1
[51] **Int.Cl. A61K 35/12 (2015.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 38/20 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **UNIVERSAL ANTIGEN PRESENTING CELLS AND USES THEREOF**
[54] **CELLULES DE PRESENTATION D'ANTIGENE UNIVERSELLES ET LEURS UTILISATIONS**
[72] ANG, SONNY O. T., US
[72] LIU, ENLI, US
[72] REZVANI, KATY, US
[72] SHPALL, ELIZABETH J., US
[71] BOARD OF REGENTS,THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2020-08-18
[86] 2019-02-21 (PCT/US2019/018989)
[87] (WO2019/165097)
[30] US (62/633,587) 2018-02-21

[21] **3,091,672**
[13] A1
[51] **Int.Cl. B60D 1/26 (2006.01) B60D 1/24 (2006.01) B60D 1/32 (2006.01) B60S 9/14 (2006.01) B60S 9/21 (2006.01) B60W 30/14 (2006.01) B60W 40/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED OPERATION AND HANDLING OF AUTONOMOUS TRUCKS AND TRAILERS HAULED THEREBY**
[54] **SYSTEMES ET PROCEDES POUR FONCTIONNEMENT ET MANIPULATION AUTOMATIQUES DE CAMIONNETTES AUTONOMES ET DE REMORQUES REMORQUEES PAR CELLES-CI**
[72] SMITH, ANDREW F., US
[72] KLEIN, LAWRENCE S., US
[72] LANGENDERFER, STEPHEN A., US
[72] SOTOLA, MARTIN E., US
[72] BAHL, VIKAS, US
[72] ROSENBLUM, MARK H., US
[72] JAMES, PETER, US
[72] ROWLEY, DALE, US
[72] JOHANNES, MATTHEW S., US
[72] SEMINARA, GARY, US
[72] NETT, JEREMY M., US
[71] OUTRIDER TECHNOLOGIES, INC., US
[85] 2020-08-18
[86] 2019-02-21 (PCT/US2019/019049)
[87] (WO2019/165147)
[30] US (62/633,185) 2018-02-21
[30] US (62/681,044) 2018-06-05
[30] US (62/715,757) 2018-08-07

[21] **3,091,673**
[13] A1
[51] **Int.Cl. G01D 4/00 (2006.01)**
[25] EN
[54] **METER READING SENSOR USING TMR AND HALL EFFECT SENSORS**
[54] **CAPTEUR DE LECTURE DE COMPTEUR UTILISANT DES CAPTEURS A EFFET HALL ET TMR**
[72] LEE, TOU, US
[72] PRAKASH, VIDYA, US
[71] LANDIS+GYR INNOVATIONS, INC., US
[85] 2020-08-18
[86] 2019-02-22 (PCT/US2019/019089)
[87] (WO2019/165170)
[30] US (15/903,127) 2018-02-23

[21] **3,091,674**
[13] A1
[51] **Int.Cl. A61K 47/50 (2017.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/44 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **SEQUENCING METHOD FOR CAR T CELL THERAPY**
[54] **PROCEDE DE SEQUENCAGE POUR THERAPIE PAR LYMPHOCYTES T A CAR**
[72] MESSMANN, RICHARD, US
[72] LEAMON, CHRISTOPHER PAUL, US
[72] CHU, HAIYAN, US
[72] LU, YINGJUAN JUNE, US
[72] LOW, PHILIP STEWART, US
[72] JENSEN, MICHAEL C., US
[72] MATTHAEI, JAMES, US
[72] PINTO, NAVIN ROBERT CHARLES, US
[72] PARK, JULIE RUGGIERI, US
[71] ENDOCYTE, INC., US
[71] PURDUE RESEARCH FOUNDATION, US
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US
[85] 2020-08-18
[86] 2019-02-22 (PCT/US2019/019191)
[87] (WO2019/165237)
[30] US (62/634,573) 2018-02-23
[30] US (62/656,265) 2018-04-11
[30] US (62/724,345) 2018-08-29
[30] US (62/736,730) 2018-09-26

[21] **3,091,675**
[13] A1
[51] **Int.Cl. E21B 23/06 (2006.01) E21B 23/04 (2006.01) E21B 29/02 (2006.01) E21B 33/134 (2006.01) E21B 43/11 (2006.01) E21B 43/116 (2006.01)**
[25] EN
[54] **IMPACT RESISTANT MATERIAL IN SETTING TOOL**
[54] **MATERIAU RESISTANT AUX CHOCS DANS UN OUTIL DE MONTAGE**
[72] COVALT, JOHNNY, US
[72] HENKE, JOSEPH ALBERT, US
[71] HUNTING TITAN, INC., US
[85] 2020-08-18
[86] 2019-02-22 (PCT/US2019/019261)
[87] (WO2019/165286)
[30] US (62/634,734) 2018-02-23

[21] **3,091,676**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) A61K 9/00 (2006.01) A61K 38/17 (2006.01) A61K 48/00 (2006.01) A61P 25/00 (2006.01) A61P 27/16 (2006.01) C07K 14/435 (2006.01) C12N 15/65 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING NON-AGE-ASSOCIATED HEARING IMPAIRMENT IN A HUMAN SUBJECT**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D'UNE HYPOACOUSIE NON ASSOCIEE A L'AGE CHEZ UN SUJET HUMAIN**
[72] SIMONS, EMMANUEL JOHN, US
[72] NG, ROBERT, US
[72] REISINGER, ELLEN, DE
[72] AL-MOYED, HANAN, DE
[72] KUGLER, SEBASTIAN, DE
[71] AKOUOS, INC., US
[85] 2020-08-18
[86] 2019-02-22 (PCT/US2019/019268)
[87] (WO2019/165292)
[30] US (62/634,088) 2018-02-22

[21] **3,091,677**
[13] A1
[51] **Int.Cl. A61B 5/15 (2006.01) B01L 3/00 (2006.01) B01L 3/02 (2006.01) G01N 33/49 (2006.01)**
[25] EN
[54] **BIOLOGICAL FLUID COLLECTION DEVICE AND COLLECTION MODULE**
[54] **DISPOSITIF DE COLLECTE DE LIQUIDE BIOLOGIQUE ET MODULE DE COLLECTE**
[72] IVOSEVIC, MILAN, US
[72] EDELHAUSER, ADAM, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2020-08-18
[86] 2019-02-26 (PCT/US2019/019509)
[87] (WO2019/165407)
[30] US (62/634,960) 2018-02-26

[21] **3,091,678**
[13] A1
[51] **Int.Cl. A61K 31/80 (2006.01) A61K 9/48 (2006.01) A61K 31/4515 (2006.01) A61P 1/12 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL DOSAGE FORM FOR AN EMULSION OF SIMETHICONE AND LOPERAMIDE**
[54] **FORME POSOLOGIQUE PHARMACEUTIQUE POUR UNE EMULSION DE SIMETHICONE ET DE LOPERAMIDE**
[72] LIN, JING, AU
[72] AHMAD, HUMERA, AU
[72] PATEL, ASHISH, AU
[71] R.P. SCHERER TECHNOLOGIES, LLC, US
[85] 2020-08-18
[86] 2019-02-26 (PCT/US2019/019564)
[87] (WO2019/165420)
[30] US (62/635,138) 2018-02-26

[21] **3,091,679**
[13] A1
[51] **Int.Cl. A01K 67/027 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **MATERIALS AND METHODS FOR PREVENTING TRANSMISSION OF A PARTICULAR CHROMOSOME**
[54] **MATERIAUX ET PROCEDES DE PREVENTION DE LA TRANSMISSION D'UN CHROMOSOME EN PARTICULIER**
[72] WEST, JAMES, US
[71] AGGENETICS, INC., US
[85] 2020-08-18
[86] 2019-02-26 (PCT/US2019/019655)
[87] (WO2019/165465)
[30] US (62/635,270) 2018-02-26

[21] **3,091,680**
[13] A1
[51] **Int.Cl. E21B 47/10 (2012.01) E21B 21/08 (2006.01) E21B 49/00 (2006.01)**
[25] EN
[54] **DETERMINING A MUDWEIGHT OF DRILLING FLUIDS FOR DRILLING THROUGH NATURALLY FRACTURED FORMATIONS**
[54] **DETERMINATION DU POIDS DE LA BOUE DE FORAGE EN VUE DU FORAGE A TRAVERS DES FORMATIONS NATURELLEMENT FRACTUREES**
[72] HAN, YANHUI, US
[72] ABOUSLEIMAN, YOUNANE N., US
[72] LIU, CHAO, US
[72] RIMASSA, SHAWN, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2020-08-18
[86] 2019-02-27 (PCT/US2019/019736)
[87] (WO2019/168906)
[30] US (62/636,004) 2018-02-27

[21] **3,091,681**
[13] A1
[51] **Int.Cl. C07K 14/715 (2006.01) C12N 5/078 (2010.01) A61K 38/17 (2006.01) C07K 14/72 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **INDUCIBLE CHIMERIC CYTOKINE RECEPTORS**
[54] **RECEPTEURS DE CYTOKINES CHIMERIQUES INDUCTIBLES**
[72] NAGER, ANDREW ROSS, US
[72] PARK, SPENCER, US
[72] CHAPARRO RIGGERS, JAVIER FERNANDO, US
[72] LIN, REGINA JUNHUI, US
[72] VAN BLARCOM, THOMAS JOHN, US
[71] ALLOGENE THERAPEUTICS, INC., US
[85] 2020-08-18
[86] 2019-03-01 (PCT/US2019/020340)
[87] (WO2019/169290)
[30] US (62/637,600) 2018-03-02

[21] **3,091,682**
[13] A1
[51] **Int.Cl. A61F 2/80 (2006.01) A61F 2/76 (2006.01) A61L 27/14 (2006.01) A61L 27/50 (2006.01)**
[25] EN
[54] **PROSTHETIC LIMB SOCKETS AND METHODS OF MAKING AND USING**
[54] **EMBOITURES POUR MEMBRES PROTHETIQUES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] JOSEPH, MARK, US
[71] MEDICAL CREATIONS, INC., US
[85] 2020-08-18
[86] 2019-03-04 (PCT/US2019/020484)
[87] (WO2019/173175)
[30] US (15/914,480) 2018-03-07

[21] **3,091,683**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-FOLATE RECEPTOR 1 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-RECEPTEUR 1 AUX FOLATES ET LEURS UTILISATIONS**
[72] WANG, MINGHAN, US
[72] ZOU, HUI, US
[72] JIA, HAIQUN, US
[71] PHANES THERAPEUTICS, INC., US
[85] 2020-08-18
[86] 2019-03-07 (PCT/US2019/021084)
[87] (WO2019/177854)
[30] US (62/642,213) 2018-03-13

[21] **3,091,684**
[13] A1
[51] **Int.Cl. E21B 44/00 (2006.01) E21B 47/00 (2012.01) G06N 5/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING DOWNHOLE EVENTS**
[54] **SYSTEME ET PROCEDE DE DETECTION D'EVENEMENTS DE FOND DE TROU**
[72] ZHA, YANG, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2020-08-18
[86] 2019-03-07 (PCT/US2019/021144)
[87] (WO2019/173586)
[30] US (62/640,951) 2018-03-09

[21] **3,091,685**
[13] A1
[51] **Int.Cl. H01Q 3/36 (2006.01)**
[25] EN
[54] **ANTENNA PHASE SHIFTER WITH INTEGRATED DC-BLOCK**
[54] **DEPHASEUR D'ANTENNE A BLOCAGE C.C. INTEGRE**
[72] JANG, TAEHEE, US
[71] JOHN MEZZALINGUA ASSOCIATES, LLC D/B/A JMA WIRELESS, US
[85] 2020-08-18
[86] 2019-03-13 (PCT/US2019/022047)
[87] (WO2019/178224)
[30] US (62/642,066) 2018-03-13

[21] **3,091,686**
[13] A1
[51] **Int.Cl. A61K 9/48 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A23P 10/30 (2016.01)**
[25] EN
[54] **ENTERIC SOFTGEL CAPSULES**
[54] **CAPSULES A ENVELOPPE MOLLE ENTERIQUES**
[72] OKAYAMA, TOSHIKAZU, JP
[72] TAKAHASHI, MIYAKO, JP
[72] FUJII, TAKUMA, JP
[71] R.P. SCHERER TECHNOLOGIES, LLC, US
[85] 2020-08-18
[86] 2019-03-15 (PCT/US2019/022411)
[87] (WO2019/178444)
[30] US (62/643,521) 2018-03-15

[21] **3,091,687**
[13] A1
[51] **Int.Cl. A01H 1/00 (2006.01) A01H 6/20 (2018.01) C12N 15/29 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **BRASSICA PLANT RESISTANT TO PLASMODIOPHORA BRASSICAE (CLUBROOT)**
[54] **PLANTE DE BRASSICA RESISTANTE A LA PLASMODIOPHORA BRASSICAE (HERNIE)**
[72] ENGELEN, STEVEN, BE
[72] RAE, STEVEN, BE
[72] CHONGO, GODFREY, CA
[72] DEVLAMYNCK, JASPER, BE
[72] CROMMAR, KIM, BE
[72] VAN AUDENHOVE, KATRIEN, BE
[71] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[85] 2020-08-18
[86] 2019-03-15 (PCT/US2019/022601)
[87] (WO2019/178554)
[30] EP (18162162.4) 2018-03-16

[21] **3,091,688**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) C12N 5/00 (2006.01) C12N 9/22 (2006.01)**
[25] EN
[54] **EXPRESSION OF FOXP3 IN EDITED CD34+ CELLS**
[54] **EXPRESSION DE FOXP3 DANS DES CELLULES CD34+ EDITEES**
[72] RAWLINGS, DAVID J., US
[72] KHAN, IRAM F., US
[72] HONAKER, YUCHI CHIANG, US
[72] SINGH, SWATI, US
[72] SOMMER, KAREN, US
[72] SCHARENBERG, ANDREW M., US
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US
[85] 2020-08-18
[86] 2019-04-25 (PCT/US2019/029082)
[87] (WO2019/210042)
[30] US (62/663,545) 2018-04-27

[21] **3,091,689**
[13] A1
[51] **Int.Cl. C09K 5/04 (2006.01) C10M 171/00 (2006.01)**
[25] EN
[54] **STABILIZED FLUOROOLEFIN COMPOSITIONS AND METHODS FOR THEIR PRODUCTION, STORAGE AND USAGE**
[54] **COMPOSITIONS DE FLUOROOLEFINES STABILISEES ET LEURS PROCEDES DE PRODUCTION, DE STOCKAGE ET D'UTILISATION**
[72] PENG, SHENG, US
[72] SUN-BLANKS, JIAN, US
[72] MINOR, BARBARA HAVILAND, US
[72] KIPP, BRIAN E., US
[72] KOBAN, MARY E., US
[71] THE CHEMOURS COMPANY FC, LLC, US
[85] 2020-08-18
[86] 2019-04-30 (PCT/US2019/029777)
[87] (WO2019/213004)
[30] US (62/664,751) 2018-04-30

[21] **3,091,690**
[13] A1
[51] **Int.Cl. E21B 17/03 (2006.01) E21B 17/042 (2006.01) E21B 17/10 (2006.01)**
[25] EN
[54] **DRILLING COMPONENT COUPLER FOR REINFORCEMENT**
[54] **COUPLEUR DE COMPOSANT DE FORAGE POUR RENFORCEMENT**
[72] HOOPER, MICHAEL EDWARD, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-08-18
[86] 2019-05-14 (PCT/US2019/032234)
[87] (WO2019/245673)
[30] US (16/014,460) 2018-06-21

[21] **3,091,691**
[13] A1
[51] **Int.Cl. H05K 7/14 (2006.01) H02J 50/10 (2016.01) G16H 50/30 (2018.01) A43B 5/06 (2006.01) A43B 17/00 (2006.01) A61B 5/11 (2006.01) A63B 71/06 (2006.01) G01P 13/00 (2006.01) G06F 17/40 (2006.01) H01H 36/00 (2006.01) H02J 7/02 (2016.01) H04B 5/00 (2006.01) H04B 7/24 (2006.01) H05K 1/14 (2006.01)**
[25] EN
[54] **INSOLE AND INSOLE DOCKING SYSTEM FOR COLLECTING, DOWNLOADING AND ANALYZING GAIT DATA**
[54] **SEMELLE INTERIEURE ET SYSTEME D'ACCUEIL DE SEMELLE INTERIEURE POUR COLLECTER, TELECHARGER ET ANALYSER DES DONNEES DE MARCHE**
[72] SANDLER, QUIN SAMUEL MCKAY, CA
[72] FITZGERALD, COLIN EDWARD, CA
[72] RIZUN, PETER R., CA
[72] JAMES, DARYL, CA
[71] PLANTIGA TECHNOLOGIES INC., CA
[85] 2020-08-19
[86] 2019-02-15 (PCT/CA2019/000023)
[87] (WO2019/161480)
[30] US (62/634,315) 2018-02-23

[21] **3,091,692**
[13] A1
[51] **Int.Cl. G02F 1/167 (2019.01) G02F 1/1675 (2019.01) G02F 1/1333 (2006.01)**
[25] EN
[54] **PIEZO ELECTROPHORETIC DISPLAY**
[54] **AFFICHAGE ELECTROPHORETIQUE PIEZOELECTRIQUE**
[72] GU, HAIYAN, US
[72] ZANG, HONGMEI, US
[72] LIN, CRAIG, US
[72] BERHANE, ABRAHAM, US
[71] E INK CALIFORNIA, LLC, US
[85] 2020-08-18
[86] 2019-05-17 (PCT/US2019/032805)
[87] (WO2019/222587)
[30] US (62/673,092) 2018-05-17
[30] US (62/727,033) 2018-09-05

[21] **3,091,693**
[13] A1
[51] **Int.Cl. A41D 13/12 (2006.01) A41D 1/00 (2018.01) A41D 27/00 (2006.01) A44B 19/00 (2006.01)**
[25] EN
[54] **ZIPPERED GARMENT PROVIDING SELECTIVE ACCESS**
[54] **VETEMENT A FERMETURES A GLISSIERE OFFRANT UN ACCES SELECTIF**
[72] NAISMITH, RUTH, CA
[72] NAISMITH, DAVID, CA
[71] NAISMITH SYSTEMS INC., CA
[85] 2020-08-19
[86] 2019-02-19 (PCT/CA2019/000024)
[87] (WO2019/161481)
[30] US (62/632,481) 2018-02-20

[21] **3,091,694**
[13] A1
[51] **Int.Cl. C01B 3/50 (2006.01) C08H 8/00 (2010.01) C10J 3/00 (2006.01)**
[25] EN
[54] **A LOW ENERGY PRODUCTION PROCESS FOR PRODUCING PAPER PULP FROM LIGNOCELLULOSIC BIOMASS**
[54] **PROCEDE DE PRODUCTION A FAIBLE ENERGIE POUR LA PRODUCTION DE PATE A PAPIER A PARTIR DE BIOMASSE LIGNOCELLULOSIQUE**
[72] BIOEB, FR
[71] BIOEB, FR
[85] 2020-08-12
[86] 2018-12-13 (PCT/EP2018/084685)
[87] (WO2019/158247)
[30] EP (18157075.5) 2018-02-16

[21] **3,091,695**
[13] A1
[51] **Int.Cl. G01N 33/553 (2006.01) A61L 27/28 (2006.01) A61L 31/08 (2006.01) C07K 1/04 (2006.01) C07K 16/00 (2006.01) C07K 17/14 (2006.01) C12N 11/14 (2006.01)**
[25] EN
[54] **ALUMINUM OXIDE SURFACES AND INTERFACE MOLECULES**
[54] **SURFACES D'OXYDE D'ALUMINIUM ET MOLECULES D'INTERFACE**
[72] BURRELL, ROBERT EDWARD, CA
[71] PROMINENT MEDICAL INC., CA
[85] 2020-08-19
[86] 2019-02-20 (PCT/CA2019/050204)
[87] (WO2019/161491)
[30] US (62/633,009) 2018-02-20

[21] **3,091,696**
[13] A1
[51] **Int.Cl. F16L 3/02 (2006.01) B64C 1/00 (2006.01) F16L 3/13 (2006.01)**
[25] FR
[54] **SPACER FOR A CYLINDRICAL CONDUIT**
[54] **ECARTEUR POUR UNE CONDUITE CYLINDRIQUE**
[72] BEAUBEAU, ROMAIN, CA
[72] BERTRAND, ALEX, CA
[72] LANTHIER, ERIC, CA
[72] LEVESQUE, MARTIN, CA
[72] RANNOU, CORENTIN, CA
[71] HUTCHINSON AERONAUTIQUE ET INDUSTRIES LTD, CA
[85] 2020-08-19
[86] 2018-03-09 (PCT/CA2018/050280)
[87] (WO2019/169469)

[21] **3,091,697**
[13] A1
[51] **Int.Cl. B32B 3/26 (2006.01) B32B 7/035 (2019.01) B32B 7/09 (2019.01) B32B 5/02 (2006.01) B32B 5/06 (2006.01) B32B 7/08 (2019.01) B32B 7/12 (2006.01) B32B 27/32 (2006.01) F41H 5/04 (2006.01) G01N 3/307 (2006.01)**
[25] EN
[54] **CONFORMABLE POLYETHYLENE FABRIC AND ARTICLES MADE THEREFROM**
[54] **TISSU EN POLYETHYLENE DEFORMABLE ET ARTICLES REALISES A PARTIR DUDIT TISSU**
[72] SINGLETARY, JAMES NEAL, US
[71] DUPONT SAFETY & CONSTRUCTION, INC., US
[85] 2020-08-18
[86] 2019-05-31 (PCT/US2019/034895)
[87] (WO2019/236410)
[30] US (16/000,937) 2018-06-06
[30] US (16/353,381) 2019-03-14

[21] **3,091,698**
[13] A1
[51] **Int.Cl. G01N 31/22 (2006.01) G01N 21/25 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR THE DETERMINATION OF FILM FORMING AMINES IN A LIQUID**
[54] **PROCEDE ET DISPOSITIF POUR LA DETERMINATION D'AMINES FILMOGENES DANS UN LIQUIDE**
[72] RAMMINGER, UTE, DE
[72] NICKEL, ULRICH, DE
[72] FANDRICH, JORG, DE
[71] FRAMATOME GMBH, DE
[85] 2020-08-19
[86] 2018-04-03 (PCT/EP2018/058438)
[87] (WO2019/192673)

[21] **3,091,699**
[13] A1
[51] **Int.Cl. C03C 17/36 (2006.01) E06B 3/66 (2006.01)**
[25] FR
[54] **MATERIAL PROVIDED WITH A STACK HAVING THERMAL PROPERTIES**
[54] **MATERIAU MUNI D'UN EMPILEMENT A PROPRIETES THERMIQUES**
[72] ONGARELLO, TOMMASO, FR
[72] BEUTIER, JULIEN, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2020-08-19
[86] 2019-03-06 (PCT/FR2019/050499)
[87] (WO2019/171002)
[30] FR (1852033) 2018-03-08

[21] **3,091,700**
[13] A1
[51] **Int.Cl. A61K 31/7072 (2006.01) A61K 9/08 (2006.01) A61K 9/10 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01) A61K 47/36 (2006.01) A61K 47/42 (2017.01) A61P 27/02 (2006.01)**
[25] EN
[54] **OPHTHALMIC COMPOSITION COMPRISING DIQUAFOSOL AND CATIONIC POLYMER**
[54] **COMPOSITION OPHTALMIQUE COMPRENANT DU DIQUAFOSOL ET UN POLYMERE CATIONIQUE**
[72] TAKAHASHI, KYOHEI, JP
[72] ASADA, HIROYUKI, JP
[72] KAMIMURA, ASUKA, JP
[72] MORISHIMA, KENJI, JP
[72] MOMOKAWA, YUSUKE, JP
[72] ENDO, KENICHI, JP
[71] SANTEN PHARMACEUTICAL CO., LTD., JP
[85] 2020-08-17
[86] 2019-02-27 (PCT/JP2019/007542)
[87] (WO2019/168023)
[30] JP (2018-035578) 2018-02-28

[21] **3,091,702**
[13] A1
[51] **Int.Cl. F23N 5/00 (2006.01) H01H 35/34 (2006.01)**
[25] EN
[54] **DEVICE FOR INDICATING THE STATUS OF A GAS BURNER**
[54] **DISPOSITIF D'AFFICHAGE D'ETAT D'UN BRULEUR A GAZ**
[72] HAPPE, BARBARA, DE
[71] MERTIK MAXITROL GMBH & CO. KG, DE
[85] 2020-08-19
[86] 2019-02-13 (PCT/EP2019/000039)
[87] (WO2019/166124)
[30] DE (10 2018 001 539.5) 2018-02-27

[21] **3,091,703**
[13] A1
[51] **Int.Cl. B05D 1/12 (2006.01) B05C 19/04 (2006.01)**
[25] EN
[54] **APPLICATORS FOR APPLYING FIBERS TO SURFACES**
[54] **APPLICATEURS PERMETTANT D'APPLIQUER DES FIBRES SUR DES SURFACES**
[72] DIMAKOS, NICK, CA
[72] FYKE, STEVEN HENRY, CA
[72] MACKAY, TIM, CA
[72] OPREA, ALINA, CA
[71] DIMAKOS, NICK, CA
[71] FYKE, STEVEN HENRY, CA
[71] MACKAY, TIM, CA
[71] OPREA, ALINA, CA
[85] 2020-08-19
[86] 2019-02-15 (PCT/CA2019/050183)
[87] (WO2019/161485)
[30] US (62/632,787) 2018-02-20

[21] **3,091,705**
[13] A1
[51] **Int.Cl. C22C 23/00 (2006.01) C22C 1/04 (2006.01) C22C 23/02 (2006.01) C22C 23/04 (2006.01) C22C 23/06 (2006.01) C22C 24/00 (2006.01) C22F 1/06 (2006.01)**
[25] EN
[54] **METHOD FOR THE ECONOMIC MANUFACTURE OF LIGHT COMPONENTS**
[54] **PROCEDE DE FABRICATION ECONOMIQUE DE COMPOSANTS LEGERS**
[72] VALLS ANGLES, ISAAC, ES
[71] INNOMAQ 21, S.L., ES
[85] 2020-08-19
[86] 2018-02-26 (PCT/EP2018/054713)
[87] (WO2018/154124)
[30] ES (P 201730250) 2017-02-24
[30] ES (P 201700651) 2017-06-29
[30] EP (17382477.2) 2017-07-19
[30] EP (17382478.0) 2017-07-19
[30] EP (17382476.4) 2017-07-19

[21] **3,091,706**
[13] A1
[51] **Int.Cl. A61B 18/02 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **SOFT BALLOON DEVICE AND SYSTEM**
[54] **DISPOSITIF ET SYSTEME DE BALLONNET SOUPLE**
[72] LALONDE, JEAN-PIERRE, CA
[72] HARELAND, SCOTT A., US
[72] KELLEY, JAY L., US
[72] MAHROUCHE, RACHID, CA
[72] SADZYNSKI, WLODZIMIERZ, CA
[72] SCHMIDT, MEGAN M., US
[72] SIMEON, BERTIN, CA
[72] TZONEV, VLADIMIR, CA
[71] MEDTRONIC CRYOCATH LP, CA
[85] 2020-08-19
[86] 2019-03-27 (PCT/CA2019/050373)
[87] (WO2019/210393)
[30] US (15/969,280) 2018-05-02

[21] **3,091,707**
[13] A1
[51] **Int.Cl. A61K 31/553 (2006.01) A61P 11/06 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING (2S)-N-{(1S)-1-CYANO-2-[4-(3-METHYL-2-OXO-2,3-DIHYDRO-1,3-BENZOXAZOL-5-YL)PHENYL]ETHYL}-1,4-OXAZEPANE-2-CARBOXAMIDE**
[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT DU (2S)-N-{(1S)-1-CYANO-2-[4-(3-METHYL-2-OXO-2,3-DIHYDRO-1,3-BENZOXAZOL-5-YL)PHENYL]ETHYL}-1,4-OXAZEPANE-2-CARBOXAMIDE**
[72] WIKSTROM, HAKAN, SE
[72] LUDVIGSSON, JUFANG WU, SE
[72] ANDERSSON, THOMAS, SE
[71] ASTRAZENECA AB, SE
[85] 2020-08-19
[86] 2019-03-01 (PCT/EP2019/055138)
[87] (WO2019/166626)
[30] US (62/636,944) 2018-03-01

[21] **3,091,708**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/64 (2017.01) A61P 31/12 (2006.01) A61P 31/20 (2006.01) C07K 14/415 (2006.01)**
[25] EN
[54] **ANTI-VIRAL FUSION PROTEIN OF RICIN A CHAIN PROTEIN (RTA) AND POKEWEED ANTIVIRAL PROTEIN (PAP)**
[54] **PROTEINE DE FUSION ANTIVIRALE D'UNE PROTEINE DE CHAINE A DE RICIN (RTA) ET PROTEINE ANTIVIRALE DE PHYTOLAQUE (PAP)**
[72] HASSAN, YASSER SALIM, FR
[72] OGG, SHERRY, US
[71] OPHIUCHUS MEDICINE INC., CA
[85] 2020-08-19
[86] 2019-03-29 (PCT/CA2019/050388)
[87] (WO2019/204902)
[30] US (62/661,836) 2018-04-24

[21] **3,091,709**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01) B65B 1/02 (2006.01)**
[25] EN
[54] **CAPSULES AND OTHER CONTAINERS WITH OPTIMIZED RECYCLING ATTRIBUTES AND METHODS FOR MAKING SAME**
[54] **CAPSULES ET AUTRES CONTENANTS PRESENTANT DES ATTRIBUTS DE RECYCLAGE OPTIMISES ET LEURS PROCEDES DE FABRICATION**
[72] TROMBETTA, LIBERATORE, CA
[72] FU, YUCHENG, CA
[71] 2266170 ONTARIO INC., CA
[85] 2020-08-19
[86] 2019-04-23 (PCT/CA2019/050504)
[87] (WO2019/204916)
[30] US (62/661,464) 2018-04-23
[30] US (62/661,471) 2018-04-23

[21] **3,091,710**
[13] A1
[51] **Int.Cl. F42B 12/06 (2006.01) F42B 12/36 (2006.01) F42B 12/44 (2006.01) F42B 12/46 (2006.01)**
[25] EN
[54] **PROJECTILE HAVING A PYROTECHNIC CHARGE**
[54] **PROJECTILE A CHARGE ACTIVE PYROTECHNIQUE**
[72] PFAFF, ANDREAS, CH
[71] RWM SCHWEIZ AG, CH
[85] 2020-08-19
[86] 2019-02-22 (PCT/EP2019/054464)
[87] (WO2019/162451)
[30] DE (10 2018 104 333.3) 2018-02-26

[21] **3,091,713**
[13] A1
[51] **Int.Cl. H04M 3/38 (2006.01) G06F 9/54 (2006.01) H04L 29/06 (2006.01)**
[25] EN
[54] **TELEPHONY SOFTWARE CONTROL VIA WEB APPLICATION**
[54] **COMMANDE DE LOGICIEL DE TELEPHONIE PAR L'INTERMEDIAIRE D'UNE APPLICATION WEB**
[72] CUSTANCE, GRANT, AU
[71] NIMBUS CLOUD IPCO PTY LTD, AU
[85] 2020-08-19
[86] 2019-02-20 (PCT/IB2019/051348)
[87] (WO2019/162840)
[30] US (62/632,779) 2018-02-20
[30] US (15/924,097) 2018-03-16

[21] **3,091,714**
[13] A1
[51] **Int.Cl. H04L 12/58 (2006.01) H04L 1/24 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR REDUCED V2X RECEIVER PROCESSING LOAD USING NETWORK BASED APPLICATION LAYER MESSAGE PROCESSING**
[54] **PROCEDE ET SYSTEME POUR UNE CHARGE DE TRAITEMENT DE RECEPTEUR V2X REDUITE A L'AIDE D'UN TRAITEMENT DE MESSAGE DE COUCHE D'APPLICATION BASE SUR UN RESEAU**
[72] BARRETT, STEPHEN JOHN, CA
[72] GOYO, JOHN OCTAVIUS, CA
[71] BLACKBERRY LIMITED, CA
[85] 2020-08-19
[86] 2019-04-05 (PCT/CA2019/050417)
[87] (WO2019/195924)
[30] US (15/948,210) 2018-04-09

[21] **3,091,716**
[13] A1
[51] **Int.Cl. G05B 19/409 (2006.01) B29C 45/76 (2006.01) G06F 3/048 (2013.01)**
[25] EN
[54] **INJECTION MOULDING MACHINE**
[54] **MACHINE DE MOULAGE PAR INJECTION**
[72] DENZLER, BJORN, CH
[72] MULLER, DANIEL, CH
[72] HAUSMANN, MANFRED, CH
[71] KRAUSSMAFFEI HIGHPERFORMANCE AG, CH
[85] 2020-08-19
[86] 2019-03-04 (PCT/EP2019/055334)
[87] (WO2019/170611)
[30] DE (10 2018 104 937.4) 2018-03-05

[21] **3,091,717**
[13] A1
[51] **Int.Cl. G06T 11/60 (2006.01) G06K 9/00 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR THE VIRTUAL TRY-ON OF GARMENTS BASED ON AUGMENTED REALITY WITH MULTI-DETECTION**
[54] **PROCEDE ET DISPOSITIF D'ESSAYAGE VIRTUEL DE VETEMENTS SUR LA BASE D'UNE REALITE AUGMENTEE AVEC DETECTION MULTIPLE**
[72] ALAYA JLAYLIYA, MOHAMED, TN
[72] KOVACEVITCH, MICHEL, AE
[71] PAGE INTERNATIONAL FZ LLC, AE
[85] 2020-08-19
[86] 2019-03-28 (PCT/IB2019/052547)
[87] (WO2019/193467)
[30] US (15/946,073) 2018-04-05

[21] **3,091,719**
[13] A1
[51] **Int.Cl. A61K 36/185 (2006.01) A23L 33/105 (2016.01) A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 31/352 (2006.01) B01D 11/02 (2006.01) C07C 39/23 (2006.01) C07C 65/19 (2006.01) C07D 311/74 (2006.01) C07D 311/80 (2006.01) C11B 1/10 (2006.01) C11B 9/00 (2006.01)**
[25] EN
[54] **COLD EXTRACTION METHOD FOR CANNABINOIDS AND TERPENES FROM CANNABIS BY ORGANIC SOLVENTS**
[54] **PROCEDE D'EXTRACTION A FROID DE CANNABINOIDES ET DE TERPENES PRESENTS DANS LE CANNABIS PAR DES SOLVANTS ORGANIQUES**
[72] FAROKHI, FERESHTEH, CA
[72] ST-JEAN, PIERRE, CA
[72] VILLENEUVE, ETIENNE, CA
[71] NEPTUNE WELLNESS SOLUTIONS INC., CA
[85] 2020-08-19
[86] 2019-08-08 (PCT/CA2019/051090)
[87] (WO2020/028992)
[30] US (62/716,195) 2018-08-08

[21] **3,091,720**
[13] A1
[51] **Int.Cl. D01F 2/00 (2006.01)**
[25] EN
[54] **SOLVENT-SPUN CELLULOSIC FIBRE**
[54] **FIBRE CELLULOSIQUE FILEE AVEC SOLVANT**
[72] SILBERMANN, VERENA, AT
[72] OPIETNIK, MARTINA, AT
[71] LENZING AKTIENGESELLSCHAFT, AT
[85] 2020-08-19
[86] 2019-03-05 (PCT/EP2019/055441)
[87] (WO2019/170670)
[30] EP (18160308.5) 2018-03-06

[21] **3,091,721**
[13] A1
[51] **Int.Cl. A47K 17/00 (2006.01) E03D 9/00 (2006.01) E03D 11/00 (2006.01)**
[25] EN
[54] **TOILET MANAGEMENT SYSTEM AND MANAGEMENT DEVICE**
[54] **SYSTEME DE GESTION DE TOILETTES ET DISPOSITIF DE GESTION**
[72] SARUTA, MAKOTO, JP
[72] OGAWA, SHOJI, JP
[72] SHIGETOMO, HIROKI, JP
[72] IDA, HIDEYUKI, JP
[72] NAGAI, RINA, JP
[72] MATSUDATE, KEITA, JP
[72] NAGATA, MISAKI, JP
[72] SHICHINO, SADAAKI, JP
[72] HASHIDA, TOSHIKI, JP
[71] LIXIL CORPORATION, JP
[85] 2020-08-19
[86] 2018-10-29 (PCT/JP2018/040060)
[87] (WO2019/163202)
[30] JP (2018-028231) 2018-02-20
[30] JP (2018-028232) 2018-02-20
[30] JP (2018-028233) 2018-02-20
[30] JP (2018-028234) 2018-02-20
[30] JP (2018-169333) 2018-09-11

[21] **3,091,722**
[13] A1
[51] **Int.Cl. C08F 8/42 (2006.01) A61K 47/60 (2017.01) A61K 47/64 (2017.01) A61K 31/69 (2006.01) A61K 49/00 (2006.01) A61P 35/00 (2006.01) C08G 69/48 (2006.01) C08L 101/08 (2006.01)**
[25] EN
[54] **P-BORONOPHENYLALANINE DERIVATIVE AND COMPOSITION CONTAINING SAME, AND KIT FOR PRODUCING SAID DERIVATIVE AND COMPOSITION**
[54] **DERIVE DE P-BORONOPHENYLALANINE AINSI QUE COMPOSITION CONTENANT CELUI-CI, ET KIT DESTINE A LA FABRICATION DE CEUX-CI**
[72] NISHIYAMA, NOBUHIRO, JP
[72] NOMOTO, TAKAHIRO, JP
[72] INOUE, YUKIYA, JP
[72] YAO, YING, JP
[72] KANAMORI, KAITO, JP
[72] TAKEMOTO, HIROYASU, JP
[72] MATSUI, MAKOTO, JP
[72] TOMODA, KEISHIRO, JP
[71] TOKYO INSTITUTE OF TECHNOLOGY, JP
[71] STELLA PHARMA CORPORATION, JP
[85] 2020-08-19
[86] 2019-02-19 (PCT/JP2019/006158)
[87] (WO2019/163790)
[30] JP (2018-028007) 2018-02-20

[21] **3,091,724**
[13] A1
[51] **Int.Cl. E04F 13/14 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **DECORATIVE STONE PANEL**
[54] **PLAQUE DECORATIVE EN PIERRE**
[72] YANG, JIANQIAO, CA
[71] YANG, JIANQIAO, CA
[85] 2020-08-19
[86] 2018-12-12 (PCT/CN2018/120424)
[87] (WO2019/161698)
[30] CN (201820262451.6) 2018-02-23
[30] CN (201821749080.0) 2018-10-26
[30] CN (201821858850.5) 2018-11-12

[21] **3,091,725**
[13] A1
[51] **Int.Cl. B65D 75/32 (2006.01)**
[25] EN
[54] **BLISTER PACK CONTAINING A SHAPED ADHESIVE, COATING MATERIAL OR SEALANT ARTICLE**
[54] **EMBALLAGE-COQUE POURVU DE CORPS MOULES DE MATERIAU ADHESIF, DE MATERIAU DE REVETEMENT OU DE MATERIAU ETANCHE**
[72] FAHRLANDER, MICHAEL, DE
[72] FICHT, TOBIAS, DE
[72] HEUSER, UWE, DE
[72] HOHN, WALTER, DE
[71] KLEBCHEMIE M. G. BECKER GMBH & CO. KG, DE
[85] 2020-08-19
[86] 2019-03-07 (PCT/EP2019/055681)
[87] (WO2019/179780)
[30] DE (20 2018 001 436.2) 2018-03-19

[21] **3,091,726**
[13] A1
[51] **Int.Cl. H01L 37/00 (2006.01) B82Y 30/00 (2011.01) H01L 35/26 (2006.01) H02N 11/00 (2006.01)**
[25] EN
[54] **THERMOELECTRIC ELEMENT, THERMOELECTRIC DEVICE AND METHOD FOR FORMING THERMOELECTRIC ELEMENT**
[54] **ELEMENT THERMOELECTRIQUE, DISPOSITIF THERMOELECTRIQUE ET PROCEDE DE FORMATION D'ELEMENT THERMOELECTRIQUE**
[72] GOTO, HIROSHI, JP
[72] SAKATA, MINORU, JP
[72] MAEDA, RYUTARO, JP
[72] LU, JIAN, JP
[71] GCE INSTITUTE INC., JP
[71] NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, JP
[85] 2020-08-19
[86] 2019-02-18 (PCT/JP2019/005794)
[87] (WO2019/167691)
[30] JP (2018-034143) 2018-02-28

[21] **3,091,729**
[13] A1
[51] **Int.Cl. A61K 38/26 (2006.01) A61P 3/04 (2006.01)**
[25] EN
[54] **GLP-1 COMPOSITION FOR TREATING OBESITY AND WEIGHT MANAGEMENT**
[54] **COMPOSITION DE GLP-1 POUR LE TRAITEMENT DE L'OBESITE ET LA GESTION DU POIDS**
[72] YU, ZHIWEN, CN
[72] ZUO, YAJUN, CN
[72] XIA, JING, CN
[72] WANG, SHICHUANG, CN
[72] QIAN, LIFEN, CN
[71] SHANGHAI BENEMAE PHARMACEUTICAL CORPORATION, CN
[85] 2020-08-19
[86] 2019-03-08 (PCT/CN2019/077541)
[87] (WO2019/170153)
[30] CN (201810198521.0) 2018-03-09

[21] **3,091,730**
[13] A1
[51] **Int.Cl. A47J 31/06 (2006.01) A47J 31/36 (2006.01)**
[25] EN
[54] **BEVERAGE MACHINE WITH A CONTROLLED OUTFLOW APERTURE**
[54] **MACHINE A BOISSONS DOTEE D'UNE OUVERTURE D'ECOULEMENT REGULEE**
[72] OBLIGER, NICOLAS, FR
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2020-08-19
[86] 2019-03-13 (PCT/EP2019/056264)
[87] (WO2019/175228)
[30] EP (18161841.4) 2018-03-14
[30] EP (18214459.2) 2018-12-20

[21] **3,091,731**
[13] A1
[51] **Int.Cl. A01H 17/00 (2006.01) C12Q 1/689 (2018.01) C12Q 1/6895 (2018.01) A01G 7/06 (2006.01) A01N 63/00 (2020.01)**
[25] EN
[54] **ENDOPHYTE COMPOSITIONS AND METHODS FOR IMPROVEMENT OF PLANT TRAITS**
[54] **COMPOSITIONS D'ENDOPHYTE ET PROCEDES D'AMELIORATION DE CARACTERISTIQUES DE PLANTE**
[72] RILEY, RAYMOND, US
[71] INDIGO AG, INC., US
[85] 2020-08-19
[86] 2017-12-01 (PCT/US2017/064351)
[87] (WO2018/160244)
[30] US (62/465,818) 2017-03-01
[30] US (62/465,833) 2017-03-02
[30] US (62/466,250) 2017-03-02
[30] US (62/465,820) 2017-03-02
[30] US (62/467,734) 2017-03-06
[30] US (62/467,737) 2017-03-06
[30] US (62/551,724) 2017-08-29

[21] **3,091,732**
[13] A1
[51] **Int.Cl. A63B 21/055 (2006.01)**
[25] EN
[54] **TRAINING BELT AND RUBBER BALL MEMBER**
[54] **CEINTURE D'ENTRAINEMENT ET ELEMENT DE TYPE BILLE EN CAOUTCHOUC**
[72] MAEKAWA, HIDEMITSU, JP
[71] EIDEN CO., LTD., JP
[85] 2020-08-19
[86] 2019-05-17 (PCT/JP2019/019704)
[87] (WO2020/039667)
[30] JP (2018-155886) 2018-08-22
[30] JP (2019-089263) 2019-05-09

[21] **3,091,733**
[13] A1
[51] **Int.Cl. G01N 33/574 (2006.01)**
[25] EN
[54] **MEANS AND METHODS FOR GLYCOPROFILING OF A PROTEIN**
[54] **MOYENS ET PROCEDES DE GLYCOPROFILAGE D'UNE PROTEINE**
[72] BERTOK, TOMAS, SK
[72] TKAC, JAN, SK
[71] GLYCANOSTICS S.R.O., SK
[85] 2020-08-19
[86] 2019-03-25 (PCT/EP2019/057386)
[87] (WO2019/185515)
[30] EP (18163899.0) 2018-03-26

[21] **3,091,736**
[13] A1
[51] **Int.Cl. C07K 7/08 (2006.01) A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **VACCINE COMPRISING EPITOPE OF HEAT SHOCK PROTEIN, AND USE THEREOF**
[54] **VACCIN COMPRENANT UN EPITOPE DE PROTEINE DE CHOC THERMIQUE ET UTILISATION ASSOCIEE**
[72] PARK, KYONG HWA, KR
[72] KANG, JIN HO, KR
[71] KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION, KR
[85] 2020-08-19
[86] 2019-02-18 (PCT/KR2019/001898)
[87] (WO2019/160383)
[30] KR (10-2018-0019123) 2018-02-19
[30] KR (10-2019-0018119) 2019-02-15

[21] **3,091,737**
[13] A1
[51] **Int.Cl. A01K 61/60 (2017.01)**
[25] EN
[54] **AQUACULTURE CAGE COMPRISING A MAIN CHAMBER AND A PERIPHERAL RING CHAMBER**
[54] **CAGE D'AQUACULTURE COMPRENANT UNE CHAMBRE PRINCIPALE ET UNE CHAMBRE ANNULAIRE PERIPHERIQUE**
[72] AGA, MORTEN, NO
[72] LIEN, ELDAR, NO
[71] SEARAS AS, NO
[85] 2020-08-19
[86] 2019-03-06 (PCT/NO2019/050050)
[87] (WO2019/172776)
[30] NO (20180333) 2018-03-06

[21] **3,091,738**
[13] A1
[51] **Int.Cl. C05C 9/00 (2006.01) B01D 47/00 (2006.01) B01J 2/00 (2006.01)**
[25] EN
[54] **UREA PRODUCTION PLANT AND SCRUBBING SYSTEM**
[54] **INSTALLATION DE PRODUCTION D'UREE ET SYSTEME DE LAVAGE**
[72] FRANZRAHE, HARALD, DE
[72] ERBEN, AXEL, DE
[72] KOCH, SIMON, DE
[71] THYSSENKRUPP FERTILIZER TECHNOLOGY GMBH, DE
[71] THYSSENKRUPP AG, DE
[85] 2020-08-19
[86] 2019-04-12 (PCT/EP2019/059485)
[87] (WO2019/206684)
[30] EP (18168762.5) 2018-04-23

[21] **3,091,739**
[13] A1
[51] **Int.Cl. E04B 1/98 (2006.01) E04H 9/02 (2006.01)**
[25] EN
[54] **ACTIVE ROTARY INERTIA DRIVER SYSTEM**
[54] **SYSTEME DE COMMANDE D'ENTRAINEMENT ACTIF A INERTIE DE ROTATION**
[72] ZHANG, CHUNWEI, CN
[72] WANG, HAO, CN
[71] QINGDAO UNIVERSITY OF TECHNOLOGY, CN
[85] 2020-08-19
[86] 2019-09-12 (PCT/CN2019/105646)
[87] (WO2020/155636)
[30] CN (201910103396.5) 2019-02-01

[21] **3,091,740**
[13] A1
[51] **Int.Cl. E21B 33/129 (2006.01) E21B 23/00 (2006.01) E21B 23/01 (2006.01) E21B 33/128 (2006.01)**
[25] EN
[54] **ANCHOR DEVICE**
[54] **DISPOSITIF D'ANCRAGE**
[72] AL HUSSIN, HUSAM, NO
[71] C6 TECHNOLOGIES AS, NO
[85] 2020-08-19
[86] 2019-03-29 (PCT/NO2019/050066)
[87] (WO2019/194680)
[30] NO (20180443) 2018-04-03
[30] GB (1805433.8) 2018-04-03

[21] **3,091,741**
[13] A1
[51] **Int.Cl. C12N 9/04 (2006.01) C12N 15/52 (2006.01) C12N 15/77 (2006.01) C12P 13/06 (2006.01) C12P 13/08 (2006.01) C12P 13/12 (2006.01)**
[25] EN
[54] **MODIFIED HOMOSERINE DEHYDROGENASE AND METHOD FOR PRODUCING HOMOSERINE OR L-AMINO ACID DERIVED FROM HOMOSERINE USING THE SAME**
[54] **HOMOSERINE DESHYDROGENASE MODIFIEE ET PROCEDE DE PRODUCTION D'HOMOSERINE OU D'ACIDE L-AMINE DERIVE D'HOMOSERINE L'UTILISANT**
[72] KIM, HYO JIN, KR
[72] HUH, LAN, KR
[72] LIM, SANG JO, KR
[72] KIM, HYUN AH, KR
[72] KIM, HYUNG JOON, KR
[72] SEO, CHANG IL, KR
[72] LEE, SEUNG BIN, KR
[72] LEE, JI SUN, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2020-08-19
[86] 2019-05-21 (PCT/KR2019/006083)
[87] (WO2019/231159)
[30] KR (10-2018-0060445) 2018-05-28

[21] **3,091,743**
[13] A1
[51] **Int.Cl. B44C 5/04 (2006.01) B29C 41/00 (2006.01) B29C 70/60 (2006.01) B32B 5/00 (2006.01) B32B 27/00 (2006.01) C08K 3/36 (2006.01)**
[25] EN
[54] **SUBSTRATE BASED ON A PLASTIC COMPOSITION AND SOLID COMPOSITION ON MINERAL BASIS FOR DECORATED WALL OR FLOOR PANELS**
[54] **SUBSTRAT A BASE D'UNE COMPOSITION PLASTIQUE ET D'UNE COMPOSITION SOLIDE SUR BASE MINERALE POUR PANNEAUX MURAUX OU DE SOL DECORES**
[72] HANNIG, HANS-JURGEN, DE
[72] HOFF, EGON, DE
[71] AKZENTA PANEELE + PROFILE GMBH, DE
[85] 2020-08-19
[86] 2019-05-23 (PCT/EP2019/063335)
[87] (WO2019/233778)
[30] EP (18175889.7) 2018-06-05

[21] **3,091,744**
[13] A1
[51] **Int.Cl. A01N 63/30 (2020.01) A01H 17/00 (2006.01) A01P 21/00 (2006.01) C05F 11/08 (2006.01) C12N 1/14 (2006.01) A01H 6/46 (2018.01) A01H 6/54 (2018.01)**
[25] EN
[54] **ENDOPHYTE COMPOSITIONS AND METHODS FOR IMPROVEMENT OF PLANT TRAITS**
[54] **COMPOSITIONS D'ENDOPHYTE ET PROCEDES D'AMELIORATION DE CARACTERISTIQUES DE PLANTE**
[72] RILEY, RAYMOND, US
[71] INDIGO AG, INC., US
[85] 2020-08-19
[86] 2017-12-01 (PCT/US2017/064361)
[87] (WO2018/160245)
[30] US (62/465,819) 2017-03-01
[30] US (62/465,797) 2017-03-01
[30] US (62/465,798) 2017-03-01
[30] US (62/466,253) 2017-03-02
[30] US (62/465,834) 2017-03-02
[30] US (62/466,256) 2017-03-02
[30] US (62/467,742) 2017-03-06
[30] US (62/467,740) 2017-03-06
[30] US (62/467,755) 2017-03-06
[30] US (62/556,288) 2017-09-08

[21] **3,091,746**
[13] A1
[51] **Int.Cl. A45D 44/18 (2006.01) A46B 17/00 (2006.01) A47K 5/18 (2006.01) B65D 81/36 (2006.01)**
[25] EN
[54] **DENTAL HYGIENE DEVICE**
[54] **DISPOSITIF D'HYGIENE DENTAIRE**
[72] BOOKER, WINIFRED J., US
[71] BRUSHTIME ENTERPRISES, LLC, US
[85] 2020-08-19
[86] 2018-02-21 (PCT/US2018/018993)
[87] (WO2018/156611)
[30] US (62/461,885) 2017-02-22

[21] **3,091,747**
[13] A1
[51] **Int.Cl. A61F 7/00 (2006.01) A61F 5/00 (2006.01) A61F 7/02 (2006.01) A61F 7/08 (2006.01) A61F 7/10 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COOLING OR HEATING A HUMAN BODY PART**
[54] **SYSTEME ET PROCEDE DE REFROIDISSEMENT OU DE CHAUFFAGE D'UNE PARTIE DU CORPS HUMAIN**
[72] MAKAROV, SERGEY, US
[72] ERTEL, JASON R., US
[72] BOLL, DAVID J., US
[71] TECTRAUM, INC., US
[85] 2020-08-19
[86] 2019-01-24 (PCT/US2019/014857)
[87] (WO2019/182682)
[30] US (15/934,201) 2018-03-23

[21] **3,091,748**
[13] A1
[51] **Int.Cl. H05K 7/20 (2006.01) H05K 5/02 (2006.01)**
[25] EN
[54] **ELECTRICAL APPLIANCE ARRANGEMENT HAVING AN ELECTRICAL APPLIANCE WHICH CAN BE FASTENED TO A SUPPORT ELEMENT, IN PARTICULAR A WALL**
[54] **AGENCEMENT D'APPAREIL ELECTRIQUE PRESENTANT UN APPAREIL ELECTRIQUE POUVANT ETRE FIXE A UN ELEMENT DE SUPPORT, EN PARTICULIER UNE PAROI**
[72] SCHORNER, MARTIN, DE
[72] NIKOLA, JOACHIM, DE
[72] KOLLAR, HANS JURGEN, DE
[71] SEW-EURODRIVE GMBH & CO. KG, DE
[85] 2020-08-19
[86] 2019-02-15 (PCT/EP2019/025044)
[87] (WO2019/170290)
[30] DE (10 2018 001 687.1) 2018-03-05

[21] **3,091,749**
[13] A1
[51] **Int.Cl. A61B 18/22 (2006.01)**
[25] EN
[54] **DEVICE FOR TREATMENT OF BODY TISSUE**
[54] **DISPOSITIF DE TRAITEMENT DE TISSU CORPOREL**
[72] DZERINS, OSKARS, LV
[72] PFAFRODS, DAUMANTS, LV
[71] SIA LIGHT GUIDE OPTICS INTERNATIONAL, LV
[85] 2020-08-19
[86] 2019-09-19 (PCT/EP2019/075244)
[87] (WO2020/058447)
[30] EP (18000750.2) 2018-09-20

[21] **3,091,751**
[13] A1
[51] **Int.Cl. E21B 7/06 (2006.01) E21B 10/00 (2006.01) E21B 10/62 (2006.01)**
[25] EN
[54] **ROTARY STEERABLE SYSTEM WITH CUTTERS**
[54] **SYSTEME ORIENTABLE ROTATIF COMPORTANT DES ELEMENTS DE COUPE**
[72] AZAR, MICHAEL GEORGE, US
[72] RICHARDS, EDWARD, GB
[72] BOUALLEG, RIADH, GB
[72] DOWNTON, GEOFFREY CHARLES, GB
[72] LI, DENIS, GB
[72] HILL, RICHARD D., GB
[71] SCHLUMBERGER TECHNOLOGY CORPORATION, US
[85] 2020-08-19
[86] 2019-01-31 (PCT/US2019/015943)
[87] (WO2019/164647)
[30] US (62/634,217) 2018-02-23

[21] **3,091,753**
[13] A1
[51] **Int.Cl. A01B 71/06 (2006.01)**
[25] EN
[54] **TRACTOR PTO QUICK-CONNECT DEVICE AND METHOD OF USE**
[54] **DISPOSITIF DE CONNEXION RAPIDE DE PRISE DE FORCE DE TRACTEUR ET SON PROCEDE D'UTILISATION**
[72] SPECTOR, KENNETH, US
[71] PTO SOLUTIONS, LLC, US
[85] 2020-08-19
[86] 2018-03-02 (PCT/US2018/020653)
[87] (WO2018/160958)
[30] US (62/466,359) 2017-03-02
[30] US (15/783,887) 2017-10-13
[30] US (PCT/US2018/018603) 2018-02-19

[21] **3,091,754**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **SURGICAL SUCTION SYSTEM**
[54] **SYSTEME CHIRURGICAL D'ASPIRATION**
[72] SNYDER, JESSICA, US
[71] CONMED CORPORATION, US
[85] 2020-08-19
[86] 2018-09-14 (PCT/US2018/051086)
[87] (WO2019/177661)
[30] US (62/642,693) 2018-03-14

[21] **3,091,756**
[13] A1
[51] **Int.Cl. B62D 7/02 (2006.01) B62D 7/15 (2006.01) B62D 5/12 (2006.01) B66F 9/22 (2006.01)**
[25] EN
[54] **HYDRAULIC STEERING SYSTEMS FOR VEHICLE WHEELS**
[54] **SYSTEMES DE DIRECTION HYDRAULIQUE POUR ROUES DE VEHICULE**
[72] MCVICAR, MARTIN, IE
[72] MOFFETT, ROBERT, IE
[72] WHYTE, MARK, IE
[71] COMBILIFT, IE
[85] 2020-08-19
[86] 2019-01-18 (PCT/EP2019/051235)
[87] (WO2019/170310)
[30] GB (1803601.2) 2018-03-06

[21] **3,091,757**
[13] A1
[51] **Int.Cl. G01S 19/23 (2010.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TESTING CODE DIVISION MULTIPLE ACCESS RECEIVERS**
[54] **PROCEDE ET APPAREIL D'ESSAI DE RECEPTEURS A ACCES MULTIPLE PAR REPARTITION EN CODE**
[72] WILLIAMS, STEPHEN, GB
[71] THE SECRETARY OF STATE FOR DEFENCE, GB
[85] 2020-08-19
[86] 2019-02-20 (PCT/GB2019/000030)
[87] (WO2019/166751)
[30] GB (1803150.0) 2018-02-27

[21] **3,091,758**
[13] A1
[51] **Int.Cl. G02C 7/06 (2006.01) A61F 2/16 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **DISTANCE DOMINANT INTRAOCULAR LENS**
[54] **LENTILLE INTRAOCULAIRE A DISTANCE DOMINANTE**
[72] TIWARI, NIVEDAN, US
[72] VENKATESWARAN, KRISHNAKUMAR, US
[72] JONES, ANDREW WILLIAM, US
[72] ZHAN, CHUN, US
[72] SALVATORI, LORENZO, US
[71] BAUSCH & LOMB INCORPORATED, US
[85] 2020-08-19
[86] 2018-12-27 (PCT/US2018/067686)
[87] (WO2019/164581)
[30] US (62/633,661) 2018-02-22

[21] **3,091,759**
[13] A1
[51] **Int.Cl. A61K 31/485 (2006.01) A61K 31/428 (2006.01) A61P 25/04 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR MAINTAINING OPIOID EFFICACY IN THE TREATMENT OF PAIN**
[54] **PROCEDES ET COMPOSITIONS POUR MAINTENIR L'EFFICACITE DES OPIOIDES DANS LE TRAITEMENT DE LA DOULEUR**
[72] BREWER, KORI, US
[72] CLEMENS, STEFAN, US
[71] EAST CAROLINA UNIVERSITY, US
[85] 2020-04-14
[86] 2018-10-25 (PCT/US2018/057449)
[87] (WO2019/084230)
[30] US (62/577,443) 2017-10-26

[21] **3,091,760**
[13] A1
[51] **Int.Cl. A61L 2/08 (2006.01) A23L 3/26 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS FOR PASTEURIZING AND/OR STERILIZING PARTICULATE MATERIAL**
[54] **DISPOSITIF ET PROCEDE DE PASTEURISATION ET/OU DE STERILISATION D'UN PRODUIT PARTICULAIRE**
[72] CURRIE, ALASDAIR, GB
[72] HERSCHE, MARTIN, CH
[71] BUHLER AG, CH
[85] 2020-08-19
[86] 2019-02-20 (PCT/EP2019/054242)
[87] (WO2019/162342)
[30] EP (18157711.5) 2018-02-20

[21] **3,091,761**
[13] A1
[51] **Int.Cl. F42D 3/00 (2006.01)**
[25] EN
[54] **FIRING STAND FOR SHAPED CHARGES**
[54] **STAND DE TIR POUR CHARGES CREUSES**
[72] NEWELL, DAVID TIMOTHY, GB
[71] THE SECRETARY OF STATE FOR DEFENCE, GB
[85] 2020-08-19
[86] 2019-02-22 (PCT/GB2019/000032)
[87] (WO2019/166753)
[30] GB (1803144.3) 2018-02-27

[21] **3,091,763**
[13] A1
[51] **Int.Cl. F01C 9/00 (2006.01) F01C 21/00 (2006.01)**
[25] EN
[54] **ROTICULATING THERMODYNAMIC APPARATUS**
[54] **APPAREIL THERMODYNAMIQUE DE ROTICULATION**
[72] FENTON, JONATHAN, GB
[71] FETU LIMITED, GB
[85] 2020-08-19
[86] 2019-02-15 (PCT/GB2019/050401)
[87] (WO2019/166768)
[30] GB (1803181.5) 2018-02-27

[21] **3,091,764**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **ANTIBODY VARIABLE DOMAINS TARGETING CD33, AND USE THEREOF**
[54] **DOMAINES VARIABLES D'ANTICORPS CIBLANT CD33, ET LEUR UTILISATION**
[72] CHANG, GREGORY P., US
[72] CHEUNG, ANN F., US
[72] GRINBERG, ASYA, US
[72] SETHI, DHRUV KAM, US
[72] HANEY, WILLIAM, US
[72] PRINZ, BIANKA, US
[71] DRAGONFLY THERAPEUTICS, INC., US
[85] 2020-08-19
[86] 2019-02-20 (PCT/US2019/018748)
[87] (WO2019/164929)
[30] US (62/632,756) 2018-02-20

[21] **3,091,765**
[13] A1
[51] **Int.Cl. F01C 9/00 (2006.01) F01C 11/00 (2006.01) F01C 21/00 (2006.01)**
[25] EN
[54] **ROTICULATING THERMODYNAMIC APPARATUS**
[54] **APPAREIL THERMODYNAMIQUE DE ROTICULATION**
[72] FENTON, JONATHAN, GB
[71] FETU LIMITED, GB
[85] 2020-08-19
[86] 2019-02-15 (PCT/GB2019/050402)
[87] (WO2019/166769)
[30] GB (1803181.5) 2018-02-27

[21] **3,091,766**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01)**
[25] EN
[54] **ENHANCED SURVEILLANCE OF SUBSURFACE OPERATION INTEGRITY USING MICROSEISMIC DATA**
[54] **SURVEILLANCE AMELIOREE DE L'INTEGRITE D'OPERATIONS SOUTERRAINES A L'AIDE DE DONNEES MICROSISMIQUES**
[72] LOLLA, SRI VENKATA TAPOVAN, US
[72] BAILEY, JEFFREY R., US
[72] COSTIN, SIMONA O., CA
[72] HONS, MICHAEL S., CA
[72] YAM, HELEN, CA
[72] AKHMETOV, ARSLAN, CA
[72] HAYWARD, TIM, CA
[72] SMITH, RICHARD J., CA
[72] KEITH, COLUM M., CA
[72] CHEN, MARC-ANDRE P., CA
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2020-08-19
[86] 2019-02-08 (PCT/US2019/017253)
[87] (WO2019/190643)
[30] US (62/649,924) 2018-03-29

[21] **3,091,767**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **KNOTLESS SUTURE ANCHOR CONSTRUCT**
[54] **CONSTRUCTION D'ANCRAGE DE SUTURE SANS N□UD**
[72] MILLER, PETER, US
[72] BOSWORTH, ADRIAN, US
[71] CONMED CORPORATION, US
[85] 2020-08-19
[86] 2019-02-27 (PCT/US2019/019715)
[87] (WO2019/168891)
[30] US (62/637,106) 2018-03-01
[30] US (62/636,906) 2018-03-01
[30] US (62/637,134) 2018-03-01

[21] **3,091,769**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61B 18/12 (2006.01) A61B 18/14 (2006.01) A61N 1/05 (2006.01) A61N 1/37 (2006.01) A61N 1/378 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR NERVE CONDUCTION BLOCK**
[54] **PROCEDES ET SYSTEMES POUR BLOC DE CONDUCTION NERVEUSE**
[72] WU, KENNETH, US
[72] ACKERMANN, DOUGLAS MICHAEL, US
[72] HARDINGER, AARON, US
[71] PRESIDIO MEDICAL, INC., US
[85] 2020-08-19
[86] 2019-02-20 (PCT/US2019/018777)
[87] (WO2019/164952)
[30] US (62/632,485) 2018-02-20
[30] US (62/640,579) 2018-03-09

[21] **3,091,770**
[13] A1
[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/686 (2018.01)**
[25] EN
[54] **METHOD FOR INTRODUCING MUTATIONS**
[54] **METHODE D'INTRODUCTION DE MUTATIONS**
[72] MONAHAN, LEIGH G, AU
[72] TO, JOYCE, AU
[72] BURKE, CATHERINE M, AU
[72] IMELFORT, MICHAEL, AU
[72] DARLING, AARON E, AU
[71] LONGAS TECHNOLOGIES PTY LTD, AU
[85] 2020-08-19
[86] 2019-02-19 (PCT/GB2019/050443)
[87] (WO2019/162657)
[30] GB (1802744.1) 2018-02-20

[21] **3,091,772**
[13] A1
[51] **Int.Cl. B01D 53/053 (2006.01) B32B 3/26 (2006.01) F04B 53/10 (2006.01)**
[25] EN
[54] **R2R MICROELECTROMECHANICAL GAS CONCENTRATOR**
[54] **CONCENTRATEUR DE GAZ MICRO-ELECTROMECANIQUE D'IMPRESSION ROULEAU A ROULEAU**
[72] MARSH, STEPHEN ALAN, US
[71] ENCITE, LLC, US
[85] 2020-08-19
[86] 2019-02-27 (PCT/US2019/019738)
[87] (WO2019/173090)
[30] US (62/639,522) 2018-03-07

[21] **3,091,774**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01) G01N 33/50 (2006.01)**
[25] EN
[54] **HUMAN MICROPHYSIOLOGICAL CELL SYSTEM FOR LIVER DISEASE CONVERSION WITH PROV 1-18585 AND PROV 2-19154**
[54] **SYSTEME CELLULAIRE MICROPHYSIOLOGIQUE HUMAIN POUR LA CONVERSION DE MALADIE DU FOIE AVEC PROV 1-18585 ET PROV 2-19154**
[72] KARALIS, CATHERINE, US
[72] PETROPOLIS, DEBORA BARRILLOS, US
[71] EMULATE, INC., US
[85] 2020-08-19
[86] 2019-02-20 (PCT/US2019/018787)
[87] (WO2019/164962)
[30] US (62/632,893) 2018-02-20
[30] US (62/758,158) 2018-11-09

[21] **3,091,775**
[13] A1
[51] **Int.Cl. C07K 17/02 (2006.01) A61K 47/64 (2017.01) C07K 14/54 (2006.01) C07K 14/705 (2006.01) C07K 17/14 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **MULTIMERIC BICYCLIC PEPTIDE LIGANDS**
[54] **LIGANDS PEPTIDIQUES BICYCLIQUES MULTIMERES**
[72] CHEN, LIUHONG, GB
[72] LANI, RACHID, GB
[72] MCDONNELL, KEVIN, GB
[72] MUDD, GEMMA, GB
[72] PARK, PETER, GB
[72] UPADHYAYA, PUNIT, GB
[71] BICYCLETX LIMITED, GB
[85] 2020-08-19
[86] 2019-02-22 (PCT/GB2019/050485)
[87] (WO2019/162682)
[30] GB (1802931.4) 2018-02-23
[30] GB (1805848.7) 2018-04-09
[30] GB (1818158.6) 2018-11-07

[21] **3,091,776**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) C07D 311/04 (2006.01) C07D 311/80 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **GENETICALLY MODIFIED CANNABIS SATIVA PLANTS AND MODIFIED CANNABINOID COMPOUNDS FOR TREATMENT OF SUBSTANCE ADDICTION AND OTHER DISORDERS**
[54] **PLANTES DE CANNABIS SATIVA GENETIQUEMENT MODIFIEES ET COMPOSES CANNABINOIDES MODIFIES POUR LE TRAITEMENT DE LA TOXICOMANIE ET D'AUTRES TROUBLES**
[72] WILLIAMS, JONNIE R., US
[71] SUPERA PHARMACEUTICALS, INC., US
[85] 2020-08-19
[86] 2019-02-11 (PCT/US2019/017433)
[87] (WO2019/164689)
[30] US (62/632,448) 2018-02-20

[21] **3,091,778**
[13] A1
[51] **Int.Cl. A61M 1/06 (2006.01) A61J 9/00 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **METHODS, SYSTEMS AND DEVICES FOR EXPRESSING BREASTMILK**
[54] **PROCEDES, SYSTEMES ET DISPOSITIFS D'EXTRACTION DE LAIT MATERNEL**
[72] JOYNER, ANDREA, US
[72] BARR, DAVID ANDREW, GB
[71] EMORY UNIVERSITY, US
[85] 2020-08-19
[86] 2019-02-20 (PCT/US2019/018789)
[87] (WO2019/164963)
[30] US (62/632,850) 2018-02-20

[21] **3,091,780**
[13] A1
[51] **Int.Cl. G06Q 10/10 (2012.01)**
[25] EN
[54] **PUMP CHEMICAL COMPATIBILITY MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE COMPATIBILITE CHIMIQUE DE POMPE**
[72] NAHIDINO, MASSOUD, DE
[72] SCHWEBLE, MARTIN, DE
[71] ECOLAB USA INC., US
[85] 2020-08-19
[86] 2019-02-15 (PCT/US2019/018152)
[87] (WO2019/164758)
[30] US (62/633,422) 2018-02-21

[21] **3,091,781**
[13] A1
[51] **Int.Cl. H01J 33/04 (2006.01) A23B 9/06 (2006.01) A23L 3/26 (2006.01) A61L 2/08 (2006.01) B65B 55/08 (2006.01) G21K 5/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR PASTEURIZING AND/OR STERILIZING PARTICULATE MATERIAL**
[54] **DISPOSITIF ET PROCEDE DE PASTEURISATION ET/OU DE STERILISATION DE PRODUIT PARTICULAIRE**
[72] CURRIE, ALASDAIR, GB
[71] BUHLER AG, CH
[85] 2020-08-19
[86] 2019-02-20 (PCT/EP2019/054243)
[87] (WO2019/162343)
[30] EP (18157701.6) 2018-02-20

[21] **3,091,782**
[13] A1
[51] **Int.Cl. C07C 251/86 (2006.01)**
[25] EN
[54] **2,2,2-TRIFLUOROACETIC ACID 1-(2,4-DIMETHYLPHENYL)-2-[(3-METHOXYPHENYL) METHYLENE] HYDRAZIDE POLYMORPHS AND METHOD OF MAKING THE SAME**
[54] **POLYMORPHES DU 1-(2,4-DIMETHYLPHENYL)-2-[(3-METHOXYPHENYL)METHYLENE]HYDRAZIDE DE L'ACIDE 2,2,2-TRIFLUOROACETIQUE ET LEUR PROCEDE DE PREPARATION**
[72] KIDON, BARBARA, US
[72] JANZ, BILL, US
[72] WU, HONGQIAO, US
[71] O'NEIL, MICHAEL, US
[71] KIDON, BARBARA, US
[71] JANZ, BILL, US
[71] WU, HONGQIAO, US
[85] 2020-08-19
[86] 2019-02-20 (PCT/US2019/018835)
[87] (WO2019/164997)
[30] US (62/633,441) 2018-02-21

[21] **3,091,783**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61K 31/553 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) C07D 401/10 (2006.01) C07D 403/10 (2006.01) C07D 413/10 (2006.01)**
[25] EN
[54] **COMPOUNDS THAT MODULATES AMPA RECEPTOR FUNCTION**
[54] **COMPOSES PERMETTANT DE MODULER LA FONCTION DU RECEPTEUR AMPA**
[72] WARD, SIMON, GB
[72] BESWICK, PAUL, GB
[72] PENNICOTT, LEWIS, GB
[72] REUILLON, TRISTAN, GB
[72] CHUCKOWREE, IRINA, GB
[72] VILLALONGA-BARBER, CAROLINA, GB
[72] PORTER, RODERICK ALAN, GB
[71] UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED, GB
[85] 2020-08-19
[86] 2019-03-01 (PCT/GB2019/050578)
[87] (WO2019/166822)
[30] GB (1803340.7) 2018-03-01

[21] **3,091,784**
[13] A1
[51] **Int.Cl. A61M 5/14 (2006.01) A61M 39/02 (2006.01)**
[25] EN
[54] **FLUID DELIVERY SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION DE FLUIDE**
[72] FREUND, JONATHAN, US
[72] ANAND, PJ, US
[72] SINGH, DEEP ARJUN, US
[72] EBERL, GREG, US
[71] ALCYONE LIFESCIENCES, INC., US
[85] 2020-08-19
[86] 2019-02-21 (PCT/US2019/018937)
[87] (WO2019/165058)
[30] US (62/633,103) 2018-02-21

[21] **3,091,785**
[13] A1
[51] **Int.Cl. F16L 11/08 (2006.01) B32B 1/08 (2006.01)**
[25] EN
[54] **PRESSURE HOSE**
[54] **TUYAU A PRESSION**
[72] MOSS, TOM, US
[72] GRANT, WILLIAM, US
[72] SPRING, KYLE, US
[72] GIOVANETTI, KEN, US
[72] HILL, RICK, US
[71] GATES CORPORATION, US
[85] 2020-08-19
[86] 2019-02-15 (PCT/US2019/018177)
[87] (WO2019/161170)
[30] US (62/632,350) 2018-02-19
[30] US (16/193,411) 2018-11-16

[21] **3,091,786**
[13] A1
[51] **Int.Cl. G16H 50/50 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO PSYCHOLOGICAL PROFILES**
[54] **AMELIORATIONS APPORTEES OU LIEES A DES PROFILS PSYCHOLOGIQUES**
[72] WINGFIELD, ANA MARIA FERREIRA PARADELA CATARINO, GB
[72] MARTIN, ALAN JAMES, GB
[72] BLACKWELL, ANDREW, GB
[72] FAWCETT, JONATHAN MATTHEW, CA
[71] IESO DIGITAL HEALTH LIMITED, GB
[85] 2020-08-19
[86] 2019-03-06 (PCT/GB2019/050616)
[87] (WO2019/171049)
[30] GB (1803604.6) 2018-03-06
[30] GB (1808020.0) 2018-05-17

[21] **3,091,788**
[13] A1
[51] **Int.Cl. B01J 13/14 (2006.01) C08F 8/12 (2006.01) C08F 265/00 (2006.01)**
[25] EN
[54] **WATER RESISTANT VOIDED POLYMER PARTICLES**
[54] **PARTICULES POLYMERES VIDES RESISTANTES A L'EAU**
[72] LIU, LILY, US
[72] ANDES, KEITH J., US
[72] DEVONPORT, WAYNE, US
[72] BOUDREAUX, MATTHEW F., US
[71] ARKEMA INC., US
[85] 2020-08-19
[86] 2019-02-19 (PCT/US2019/018456)
[87] (WO2019/164786)
[30] US (62/633,629) 2018-02-22

[21] **3,091,789**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) C07H 21/02 (2006.01)**
[25] EN
[54] **CAMK2D ANTISENSE OLIGONUCLEOTIDES AND USES THEREOF**
[54] **OLIGONUCLEOTIDES ANTISENS CAMK2D ET LEURS UTILISATIONS**
[72] OLSON, RICHARD E., US
[72] ANDERSON, BRIAN R., US
[72] HAGEDORN, PETER, DK
[72] JENSEN, MARIANNE LERBECH, DK
[72] MCDONALD, IVAR M., US
[72] MERCER, STEPHEN E., US
[71] BRISTOL-MYERS SQUIBB COMPANY, US
[71] ROCHE INNOVATION CENTER COPENHAGEN A/S, DK
[85] 2020-08-19
[86] 2019-02-21 (PCT/US2019/018947)
[87] (WO2019/165067)
[30] US (62/633,502) 2018-02-21
[30] US (62/635,954) 2018-02-27
[30] US (62/665,998) 2018-05-02
[30] US (62/778,679) 2018-12-12

[21] **3,091,790**
[13] A1
[51] **Int.Cl. C12P 19/00 (2006.01) C12P 19/04 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCTION**
[54] **PROCEDE DE PRODUCTION**
[72] SIMMONS, THOMAS, GB
[71] CAMBRIDGE GLYCOSCIENCE LTD., GB
[85] 2020-08-19
[86] 2019-02-21 (PCT/EP2019/054380)
[87] (WO2019/162416)
[30] EP (18157957.4) 2018-02-21

[21] **3,091,792**
[13] A1
[51] **Int.Cl. A61K 31/4192 (2006.01)**
[25] EN
[54] **METHODS OF USE FOR TRISUBSTITUTED BENZOTRIAZOLE DERIVATIVES**
[54] **PROCEDES D'UTILISATION DE DERIVES DE BENZOTRIAZOLE TRISUBSTITUES**
[72] ULANET, DANIELLE, US
[72] CHOE, SUNG EUN, US
[71] AGIOS PHARMACEUTICALS, INC., US
[85] 2020-08-19
[86] 2019-02-19 (PCT/US2019/018472)
[87] (WO2019/164794)
[30] US (PCT/US2018/018679) 2018-02-20

[21] **3,091,793**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CUSTOMER JOURNEY ANALYTICS IN E-COMMERCE AND DIGITAL MARKETING**
[54] **SYSTEME ET PROCEDE POUR UNE ANALYTIQUE DE PARCOURS CLIENT DANS LE COMMERCE ELECTRONIQUE ET LA COMMERCIALISATION NUMERIQUE**
[72] ECKMAN, JEFFREY M., US
[72] ECKMAN, DEBORAH A., US
[72] CORMIER, RYAN R., US
[72] DEL MURO, MICHAEL A., US
[72] GREENFIELD, JONATHAN D., US
[71] BLUE GREEN BRANDS, LLC, US
[85] 2020-08-19
[86] 2019-02-21 (PCT/US2019/018972)
[87] (WO2019/165083)
[30] US (62/634,319) 2018-02-23
[30] US (16/280,692) 2019-02-20

[21] **3,091,794**
[13] A1
[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/00 (2006.01)**
[25] EN
[54] **COUPLING FOR CONNECTING DOWNHOLE TUBULARS**
[54] **ACCOUPLEMENT DESTINE A RACCORDER DES ELEMENTS TUBULAIRES DE FOND DE TROU**
[72] RINDESKAR, ANDREAS, SE
[71] SANDVIK MINING AND CONSTRUCTION TOOLS AB, SE
[85] 2020-08-19
[86] 2019-02-22 (PCT/EP2019/054453)
[87] (WO2019/170436)
[30] EP (18160858.9) 2018-03-09

[21] **3,091,795**
[13] A1
[51] **Int.Cl. C07K 14/005 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **NOVEL ADENO-ASSOCIATED VIRUS (AAV) VECTORS, AAV VECTORS HAVING REDUCED CAPSID DEAMIDATION AND USES THEREFOR**
[54] **NOUVEAUX VECTEURS DE VIRUS ADENO-ASSOCIES (AAV), VECTEURS AAV AYANT UNE DEAMIDATION DE CAPSIDE REDUITE ET LEURS UTILISATIONS**
[72] WILSON, JAMES M., US
[72] TEPE, APRIL, US
[72] TURNER, KEVIN, US
[72] SIMS, JOSHUA JOYNER, US
[72] WANG, QIANG, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2020-08-19
[86] 2019-02-27 (PCT/US2019/019861)
[87] (WO2019/169004)
[30] US (62/635,964) 2018-02-27
[30] US (62/635,968) 2018-02-27
[30] US (62/663,788) 2018-04-27
[30] US (62/663,797) 2018-04-27
[30] US (62/667,587) 2018-05-06
[30] US (62/667,888) 2018-05-07
[30] US (62/667,881) 2018-05-07
[30] US (62/677,471) 2018-05-29
[30] US (62/677,474) 2018-05-29
[30] US (62/667,585) 2018-05-29
[30] US (62/703,670) 2018-07-26
[30] US (62/703,673) 2018-07-26
[30] US (62/722,382) 2018-08-24
[30] US (62/722,388) 2018-08-24

[21] **3,091,796**
[13] A1
[51] **Int.Cl. G01N 30/72 (2006.01) C12Q 1/00 (2006.01) G01N 21/00 (2006.01) G01N 21/01 (2006.01) G06K 9/00 (2006.01) H01J 49/40 (2006.01)**
[25] EN
[54] **RELIABLE AND AUTOMATIC MASS SPECTRAL ANALYSIS**
[54] **ANALYSE SPECTRALE DE MASSE FIABLE ET AUTOMATIQUE**
[72] KUEHL, DON, US
[72] SIMONOFF, STACEY, US
[72] WANG, YONGDONG, US
[71] CERNO BIOSCIENCE LLC, US
[85] 2020-08-19
[86] 2019-02-19 (PCT/US2019/018568)
[87] (WO2019/161382)
[30] US (62/632,414) 2018-02-19

[21] **3,091,797**
[13] A1
[51] **Int.Cl. B60D 1/26 (2006.01) B60D 1/24 (2006.01) B60D 1/32 (2006.01) B60W 30/14 (2006.01) B60W 40/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED OPERATION AND HANDLING OF AUTONOMOUS TRUCKS AND TRAILERS HAULED THEREBY**
[54] **SYSTEMES ET PROCEDES POUR LE FONCTIONNEMENT ET LA MANIPULATION AUTOMATISES DE CAMIONS AUTONOMES ET REMORQUES TIREES PAR CEUX-CI**
[72] SMITH, ANDREW F., US
[72] KLEIN, LAWRENCE S., US
[72] LANGENDERFER, STEPHEN A., US
[72] SOTOLA, MARTIN E., US
[72] BAHL, VIKAS, US
[72] ROSENBLUM, MARK H., US
[72] JAMES, PETER, US
[72] ROWLEY, DALE, US
[72] JOHANNES, MATTHEW S., US
[72] SEMINARA, GARY, US
[72] NETT, JEREMY M., US
[71] OUTRIDER TECHNOLOGIES, INC., US
[85] 2020-08-19
[86] 2019-02-21 (PCT/US2019/019052)
[87] (WO2019/165150)
[30] US (62/633,185) 2018-02-21
[30] US (62/681,044) 2018-06-05
[30] US (62/715,757) 2018-08-07

[21] **3,091,799**
[13] A1
[51] **Int.Cl. G01N 33/574 (2006.01) C12N 5/0781 (2010.01) C12N 5/0783 (2010.01) C12N 5/0786 (2010.01) C12Q 1/6897 (2018.01) C12N 5/10 (2006.01) C12Q 1/68 (2018.01) G01N 33/68 (2006.01)**
[25] EN
[54] **ENGINEERED IMMUNE CELLS AS DIAGNOSTIC PROBES OF DISEASE**
[54] **CELLULES IMMUNITAIRES MODIFIEES EN TANT QUE SONDES DE DIAGNOSTIC DE MALADIE**
[72] AALIPOUR, AMIN, US
[72] GAMBHIR, SANJIV S., US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2020-08-19
[86] 2019-02-27 (PCT/US2019/019787)
[87] (WO2019/168948)
[30] US (62/635,664) 2018-02-27
[30] US (62/794,011) 2019-01-18

[21] **3,091,800**
[13] A1
[51] **Int.Cl. A61B 17/56 (2006.01) A61B 17/04 (2006.01) A61F 2/08 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR REPAIRING SOFT TISSUE AND ATTACHING SOFT TISSUE TO BONE**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR REPARER UN TISSU MOU ET FIXER UN TISSU MOU A UN OS**
[72] KUBIAK, ERIK N., US
[72] YATES, BARRETT J., US
[72] TAYLOR, ROY M., US
[72] EVANS, ZACKERY K., US
[72] SMITH, DANIEL K., US
[72] TOPETE, ADRIANA M., US
[71] CONEXTIONS, INC., US
[85] 2020-08-19
[86] 2019-02-19 (PCT/US2019/018628)
[87] (WO2019/164853)
[30] US (62/633,000) 2018-02-20
[30] US (16/226,573) 2018-12-19

[21] **3,091,801**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **B7-H4 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS B7-H4 ET LEURS PROCEDES D'UTILISATION**
[72] KAPLAN, CHARLES, US
[72] PALUMBO, ALESSANDRO, US
[72] MILLER, KATHY, US
[72] PARK, HANGIL, US
[72] MENDOZA, NERISSA, US
[72] GHODDUSI, MAJID, US
[71] FIVE PRIME THERAPEUTICS, INC., US
[85] 2020-08-19
[86] 2019-03-01 (PCT/US2019/020189)
[87] (WO2019/169212)
[30] US (62/637,740) 2018-03-02

[21] **3,091,804**
[13] A1
[51] **Int.Cl. A61M 15/00 (2006.01)**
[25] EN
[54] **INHALER AND METHODS OF USE THEREOF**
[54] **INHALATEUR ET SES PROCEDES D'UTILISATION**
[72] LEONARD, ROBERT, US
[72] MAJEWSKI, JOHN P., US
[72] WEITZEL, DOUGLAS, US
[71] MICRODOSE THERAPEUTX, INC., US
[85] 2020-08-19
[86] 2019-02-22 (PCT/US2019/019138)
[87] (WO2019/165198)
[30] US (62/634,555) 2018-02-23

[21] **3,091,805**
[13] A1
[51] **Int.Cl. C07F 5/02 (2006.01) A61K 31/69 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ARGINASE INHIBITORS**
[54] **INHIBITEURS D'ARGINASE**
[72] FOLEY, CORINNE NICOLE, US
[72] GRANGE, REBECCA LOUISE, US
[72] GUNEY, TEZCAN, US
[72] KALISIAK, JAROSLAW, US
[72] NEWCOMB, ERIC THOMAS, US
[72] TRAN, ANH THU, US
[71] ARCUS BIOSCIENCES, INC., US
[85] 2020-08-19
[86] 2019-03-04 (PCT/US2019/020507)
[87] (WO2019/173188)
[30] US (62/638,412) 2018-03-05

[21] **3,091,806**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01) A61K 35/761 (2015.01) C12N 7/00 (2006.01) C12N 15/09 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01)**
[25] EN
[54] **NOVEL ADENO-ASSOCIATED VIRUS (AAV) VECTORS, AAV VECTORS HAVING REDUCED CAPSID DEAMIDATION AND USES THEREFOR**
[54] **NOUVEAUX VECTEURS DE VIRUS ADENO-ASSOCIES (VAA), VECTEURS DE VAA PRESENTANT UNE DESAMIDATION DE CAPSIDE REDUITE ET UTILISATIONS ASSOCIEES**
[72] WILSON, JAMES M., US
[72] TEPE, APRIL, US
[72] TURNER, KEVIN, US
[72] SIMS, JOSHUA JOYNER, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2020-08-19
[86] 2019-02-27 (PCT/US2019/019804)
[87] (WO2019/168961)
[30] US (62/635,964) 2018-02-27
[30] US (62/667,585) 2018-05-06
[30] US (62/677,471) 2018-05-29
[30] US (62/703,670) 2018-07-26
[30] US (62/722,382) 2018-08-24

[21] **3,091,807**
[13] A1
[51] **Int.Cl. C12Q 1/6851 (2018.01) C12Q 1/6804 (2018.01) G01N 33/53 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **QUANTIFICATION OF NUCLEOSOME MODIFICATIONS USING CHEMICALLY-DEFINED RECOMBINANT NUCLEOSOMES**
[54] **QUANTIFICATION DE MODIFICATIONS NUCLEOSOMIQUES A L'AIDE DE NUCLEOSOMES RECOMBINANTS DEFINIS CHIMIQUEMENT**
[72] COWLES, MARTIS WILLIAM, US
[72] WHELIHAN, MATTHEW F., US
[72] JOHNSTONE, ANDREA L., US
[72] KEOGH, MICHAEL-CHRISTOPHER, US
[72] SUN, ZU-WEN, US
[72] HALL, NATHAN W., US
[72] MARUNDE, MATTHEW R., US
[71] EPICYPHER, INC., US
[85] 2020-08-19
[86] 2019-03-01 (PCT/US2019/020283)
[87] (WO2019/169263)
[30] US (62/637,066) 2018-03-01

[21] **3,091,810**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) A61P 27/00 (2006.01)**
[25] EN
[54] **USE OF IL-34 TO TREAT RETINAL INFLAMMATION AND NEURODEGENERATION**
[54] **UTILISATION DE L'IL-34 POUR TRAITER L'INFLAMMATION RETINIENNE ET LA NEURODEGENERESCENCE**
[72] CASPI, RACHEL R., US
[72] MATTAPALLIL, MARY JOSEPH, US
[72] WU, ZHIJIAN, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2020-08-19
[86] 2019-03-01 (PCT/US2019/020341)
[87] (WO2019/169291)
[30] US (62/637,592) 2018-03-02

[21] **3,091,812**
[13] A1
[51] **Int.Cl. A61L 27/18 (2006.01) A61L 17/00 (2006.01) A61L 17/06 (2006.01) A61L 17/10 (2006.01) A61L 27/54 (2006.01) A61L 27/56 (2006.01) A61L 27/58 (2006.01)**
[25] EN
[54] **MEDICAL DEVICES CONTAINING POLY(BUTYLENE SUCCINATE) AND COPOLYMERS THEREOF**
[54] **DISPOSITIFS MEDICAUX CONTENANT DU POLY(BUTYLENE SUCCINATE) ET DES COPOLYMERES DE CE DERNIER**
[72] WILLIAMS, SIMON F., US
[72] RIZK, SAID, US
[72] MARTIN, DAVID P., US
[71] TEPHA, INC., US
[85] 2020-08-19
[86] 2019-03-01 (PCT/US2019/020348)
[87] (WO2019/169296)
[30] US (62/636,930) 2018-03-01
[30] US (62/733,384) 2018-09-19

[21] **3,091,814**
[13] A1
[51] **Int.Cl. A61K 31/4164 (2006.01) A61K 31/4166 (2006.01) A61K 31/4178 (2006.01) C07D 233/66 (2006.01) C07D 233/70 (2006.01)**
[25] EN
[54] **DYES FOR ANALYSIS OF SOLUBLE PROTEIN AGGREGATES OR MISFOLDED PROTEIN OLIGOMERS**
[54] **MARQUEURS COLORES POUR L'ANALYSE D'AGREGATS DE PROTEINES SOLUBLES OU D'OLIGOMERES DE PROTEINES MAL REPLIEES**
[72] ZHANG, XIN, US
[72] LIU, YU, US
[72] WOLSTENHOLME, CHARLES, US
[71] THE PENN STATE RESEARCH FOUNDATION, US
[85] 2020-08-19
[86] 2019-03-07 (PCT/US2019/021175)
[87] (WO2019/173607)
[30] US (62/639,952) 2018-03-07

[21] **3,091,817**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01)**
[25] EN
[54] **TRENCH CLOSING ASSEMBLY**
[54] **ENSEMBLE DE FERMETURE DE TRANCHEE**
[72] RADTKE, IAN, US
[72] STOLLER, JASON, US
[72] HERRMANN, TRISTAN, US
[72] SCHLIPF, BEN, US
[71] PRECISION PLANTING LLC, US
[85] 2020-08-19
[86] 2019-03-02 (PCT/US2019/020452)
[87] (WO2019/169369)
[30] US (62/644,201) 2018-03-16
[30] US (62/731,813) 2018-09-14
[30] US (62/791,203) 2019-01-11

[21] **3,091,819**
[13] A1
[51] **Int.Cl. G06N 3/04 (2006.01) G06N 10/00 (2019.01) G06N 3/08 (2006.01)**
[25] EN
[54] **HYBRID QUANTUM-CLASSICAL GENERATIVE MODELS FOR LEARNING DATA DISTRIBUTIONS**
[54] **MODES GENERATIFS HYBRIDES QUANTIQUE-CLASSIQUE DE DISTRIBUTIONS DE DONNEES D'APPRENTISSAGE**
[72] ASPURU-GUZIK, ALAN, US
[72] CAO, YUDONG, US
[72] JOHNSON, PETER D., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2020-08-19
[86] 2019-03-11 (PCT/US2019/021582)
[87] (WO2019/177951)
[30] US (62/641,371) 2018-03-11
[30] US (62/683,276) 2018-06-11

[21] **3,091,820**
[13] A1
[51] **Int.Cl. C02F 1/24 (2006.01) C02F 3/12 (2006.01)**
[25] EN
[54] **HIGH SOLIDS DISSOLVED AIR FLOTATION SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES DE FLOTTATION A L'AIR DISSOUS A HAUTE TENEUR EN SOLIDES**
[72] ERDOGAN, ARGUN O., US
[72] DOYLE, MICHAEL L., US
[71] EVOQUA WATER TECHNOLOGIES LLC, US
[85] 2020-08-19
[86] 2019-03-13 (PCT/US2019/021972)
[87] (WO2019/178179)
[30] US (62/642,632) 2018-03-14

[21] **3,091,821**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61K 38/07 (2006.01) A61P 35/00 (2006.01) C07K 16/36 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CANCER WITH A COMBINATION OF A PLATINUM-BASED AGENT AND AN ANTI-TISSUE FACTOR ANTIBODY-DRUG CONJUGATE**
[54] **METHODES DE TRAITEMENT DU CANCER AU MOYEN D'UNE COMBINAISON D'UN AGENT A BASE DE PLATINE ET D'UN CONJUGUE ANTICORPS ANTI-FACTEUR TISSULAIRE-MEDICAMENT**
[72] RANGWALA, RESHMA ABDULLA, US
[72] BREIJ, ESTHER C. W., NL
[72] VERPLOEGEN, SANDRA, NL
[72] ABIDOYE, OYEWALE O., US
[72] NICACIO, LEONARDO VIANA, US
[71] GENMAB A/S, DK
[85] 2020-08-19
[86] 2019-03-20 (PCT/US2019/023218)
[87] (WO2019/183253)
[30] US (62/646,256) 2018-03-21
[30] US (62/753,730) 2018-10-31

[21] **3,091,823**
[13] A1
[51] **Int.Cl. G06F 21/31 (2013.01) G06Q 50/26 (2012.01) G06K 7/10 (2006.01) G06K 9/36 (2006.01) G07C 13/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BALLOT STYLE VALIDATION**
[54] **SYSTEMES ET PROCEDES DE VALIDATION DE STYLE DE BULLETIN DE VOTE**
[72] LEIENDECKER, SCOTT, US
[71] TALLY LLC, US
[85] 2020-08-19
[86] 2019-02-22 (PCT/US2019/019304)
[87] (WO2019/165314)
[30] US (62/634,005) 2018-02-22

[21] **3,091,825**
[13] A1
[51] **Int.Cl. H03F 3/217 (2006.01) H03F 1/02 (2006.01) H03F 3/68 (2006.01)**
[25] EN
[54] **AUDIO AMPLIFIER ASSEMBLIES, PROCESSES, AND METHODS**
[54] **ENSEMBLES AMPLIFICATEURS AUDIO, PROCESSUS ET PROCEDES**
[72] LIND, ANDERS, US
[72] SKOGMO, MATTHEW, US
[71] QSC, LLC, US
[85] 2020-08-19
[86] 2019-02-22 (PCT/US2019/019307)
[87] (WO2019/165317)
[30] US (62/634,774) 2018-02-23

[21] **3,091,826**
[13] A1
[51] **Int.Cl. C07D 489/08 (2006.01) A61K 31/485 (2006.01) A61P 25/36 (2006.01)**
[25] EN
[54] **NOVEL OPIOID COMPOUNDS AND USES THEREOF**
[54] **NOUVEAUX COMPOSES OPIOIDES ET LEURS UTILISATIONS**
[72] CHANG, PING, US
[72] GLOWAKY, RAYMOND, US
[72] ROGERS, MICHAEL DAVID, US
[71] RHODES TECHNOLOGIES, US
[85] 2020-08-19
[86] 2019-02-22 (PCT/US2019/019280)
[87] (WO2019/165298)
[30] US (62/634,507) 2018-02-23

[21] **3,091,829**
[13] A1
[51] **Int.Cl. B26D 1/40 (2006.01) A61F 13/00 (2006.01) B26D 5/20 (2006.01) B26D 7/14 (2006.01) B65H 29/24 (2006.01) B65H 35/08 (2006.01) B65H 39/06 (2006.01) B65H 39/16 (2006.01)**
[25] EN
[54] **WEB MATERIAL APPLICATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'APPLICATION DE MATERIAU EN BANDE**
[72] NASH, JORGE A., US
[72] CAVINS, ORION A., US
[71] H.B. FULLER COMPANY, US
[85] 2020-08-19
[86] 2019-03-05 (PCT/US2019/020723)
[87] (WO2019/173320)
[30] US (62/638,576) 2018-03-05

[21] **3,091,830**
[13] A1
[51] **Int.Cl. E21B 43/04 (2006.01) E21B 17/10 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **ALTERNATE PATH MANIFOLD LIFE EXTENSION FOR EXTENDED REACH APPLICATIONS**
[54] **EXTENSION DE LA DUREE DE VIE D'UN COLLECTEUR DE TRAJET ALTERNE POUR APPLICATIONS A PORTEE ETENDUE**
[72] LANGLAIS, MICHAEL DEAN, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2020-08-19
[86] 2019-02-26 (PCT/US2019/019473)
[87] (WO2019/165392)
[30] US (62/635,188) 2018-02-26

[21] **3,091,832**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PAIN AMELIORATION IN PATIENT POPULATION THAT SCORES HIGH ON THE PAIN CATASTROPHIZING SCALE**
[54] **COMPOSITIONS ET PROCEDES POUR L'AMELIORATION DE LA DOULEUR DANS UNE POPULATION DE PATIENTS QUI PRESENTE DES SCORES ELEVES SUR L'ECHELLE DE CATASTROPHISATION DE LA DOULEUR**
[72] MANNING, DONALD C., US
[72] HARRIS, SCOTT, US
[72] HEBERT, KIMBERLY, US
[72] GONZALEZ, DINA, US
[72] MAMET, JULIEN, US
[72] MARTIN, WILLIAM, US
[72] ORR, RICK, US
[71] ADYNXX SUB, INC., US
[85] 2020-08-19
[86] 2019-02-25 (PCT/US2019/019401)
[87] (WO2019/165361)
[30] US (62/634,666) 2018-02-23

[21] **3,091,833**
[13] A1
[51] **Int.Cl. H04B 7/212 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BROADCASTING DIGITAL DATA TO A PLURALITY OF RECEIVERS**
[54] **SYSTEMES ET PROCEDES DE RADIODIFFUSION DE DONNEES NUMERIQUES VERS UNE PLURALITE DE RECEPTEURS**
[72] SMITH, COLIN YORK, US
[71] SMITH, COLIN YORK, US
[85] 2020-08-19
[86] 2019-02-26 (PCT/US2019/019596)
[87] (WO2019/165431)
[30] US (62/635,104) 2018-02-26
[30] US (62/792,003) 2019-01-14

[21] **3,091,836**
[13] A1
[51] **Int.Cl. C12N 9/64 (2006.01) A61K 39/00 (2006.01) A61P 1/00 (2006.01) A61P 11/06 (2006.01) A61P 17/00 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **ANTI-KLK5 ANTIBODIES AND METHODS OF USE**
[54] **ANTICORPS ANTI-KLK5 ET METHODES D'UTILISATION**
[72] CHIU, CECILIA P.C., US
[72] HERNANDEZ-BARRY, HILDA Y., US
[72] IAEA, DAVID B., US
[72] ISMAILI, MOULAY HICHAM ALAOUI, US
[72] KOERBER, JAMES T., US
[72] LIN, WEI YU, US
[72] LOYET, KELLY, US
[72] SUDHAMSU, JAWAHAR, US
[72] SUN, YONGLIAN, US
[72] WALTERS, BENJAMIN T., US
[71] GENENTECH, INC., US
[85] 2020-08-19
[86] 2019-03-14 (PCT/US2019/022192)
[87] (WO2019/178316)
[30] US (62/643,034) 2018-03-14

[21] **3,091,849**
[13] A1
[51] **Int.Cl. C08F 114/18 (2006.01) C08J 3/24 (2006.01) C08L 27/12 (2006.01)**
[25] EN
[54] **3D HYBRID COMPOSITE COATING**
[54] **REVETEMENT COMPOSITE HYBRIDE 3D**
[72] NIU, JUNJIE, US
[72] KIM, YONGSUK, KR
[71] UWM RESEARCH FOUNDATION, INC., US
[85] 2020-07-06
[86] 2019-01-25 (PCT/US2019/015184)
[87] (WO2019/147959)
[30] US (62/622,244) 2018-01-26

[21] **3,091,853**
[13] A1
[51] **Int.Cl. C07C 29/60 (2006.01) B01J 23/30 (2006.01) B01J 23/652 (2006.01) B01J 27/188 (2006.01) B01J 35/10 (2006.01) B01J 37/00 (2006.01) B01J 37/02 (2006.01) C07C 31/10 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR THE CATALYTIC CONVERSION OF A SUBSTANCE MIXTURE**
[54] **PROCEDE POUR LA TRANSFORMATION CATALYTIQUE DE GLYCERINE EN PROPANOL**
[72] SCHOFFL, PAUL, AT
[71] OMV REFINING & MARKETING GMBH, AT
[85] 2020-08-20
[86] 2019-02-28 (PCT/AT2019/060065)
[87] (WO2019/165486)
[30] AT (A 50173/2018) 2018-02-28

[21] **3,091,857**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/20 (2006.01) C07K 14/54 (2006.01) C12N 15/24 (2006.01)**
[25] EN
[54] **IL-15 CONJUGATES AND USES THEREOF**
[54] **CONJUGUES D'IL-15 ET LEURS UTILISATIONS**
[72] CAFFARO, CAROLINA E., US
[72] PTACIN, JEROD, US
[72] MILLA, MARCOS, US
[71] SYNTHORX, INC., US
[85] 2020-08-19
[86] 2019-02-26 (PCT/US2019/019637)
[87] (WO2019/165453)
[30] US (62/635,133) 2018-02-26

[21] **3,091,858**
[13] A1
[51] **Int.Cl. A63F 1/00 (2006.01) A63F 1/06 (2006.01) A63F 1/14 (2006.01) A63F 3/00 (2006.01) A63F 9/24 (2006.01) G07F 17/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VERIFYING PLAYER IDENTITY AT A TABLE GAME**
[54] **SYSTEMES ET PROCEDES DE VERIFICATION D'IDENTITE DE JOUEUR A UN JEU DE TABLE**
[72] MOORE, STEPHEN, US
[72] FINCHAM, MAGDALENA MIK, US
[71] WALKER DIGITAL TABLE SYSTEMS, LLC, US
[85] 2020-08-19
[86] 2019-03-05 (PCT/US2019/020841)
[87] (WO2019/173405)
[30] US (62/638,416) 2018-03-05

[21] **3,091,859**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/44 (2006.01)**
[25] EN
[54] **KIR3DL3 AS AN HHLA2 RECEPTOR, ANTI-HHLA2 ANTIBODIES, AND USES THEREOF**
[54] **KIR3DL3 UTILE EN TANT QUE RECEPTEUR HHLA2, ANTICORPS ANTI-HHLA2 ET LEURS UTILISATIONS**
[72] FREEMAN, GORDON J., US
[72] ARULANANDAM, ANTONIO R., US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2020-08-19
[86] 2019-04-05 (PCT/US2019/026034)
[87] (WO2019/204057)
[30] US (62,654,068) 2018-04-06

[21] **3,091,860**
[13] A1
[51] **Int.Cl. E04F 15/02 (2006.01) E04B 1/68 (2006.01) E04F 21/00 (2006.01)**
[25] EN
[54] **SPACER FOR INSTALLATION OF FLOORING SYSTEM**
[54] **ESPACEUR POUR L'INSTALLATION D'UN SYSTEME DE REVETEMENT DE SOL**
[72] MILLER, BRADLEY SCOTT, US
[71] Q.E.P. CO., INC., US
[85] 2020-08-19
[86] 2019-10-18 (PCT/US2019/056860)
[87] (WO2020/086389)
[30] US (62/749,365) 2018-10-23

[21] **3,091,861**
[13] A1
[51] **Int.Cl. C08L 67/02 (2006.01) C08F 8/00 (2006.01) C08F 8/14 (2006.01) C08F 212/08 (2006.01) C08F 222/06 (2006.01) C08G 69/44 (2006.01)**
[25] EN
[54] **NON-AQUEOUS DISPERSANTS**
[54] **AGENTS DISPERSANTS NON AQUEUX**
[72] BROWN, ROWAN, AU
[72] DUMANSKI, PAUL, AU
[71] INDORAMA VENTURES OXIDES AUSTRALIA PTY LIMITED, AU
[85] 2020-08-20
[86] 2019-02-19 (PCT/AU2019/000020)
[87] (WO2019/161431)
[30] AU (2018900608) 2018-02-26

[21] **3,091,862**
[13] A1
[51] **Int.Cl. G06K 9/20 (2006.01) B41M 3/14 (2006.01) G06K 19/06 (2006.01)**
[25] EN
[54] **METHOD FOR ARTICLE AUTHENTICATION**
[54] **PROCEDE D'AUTHENTIFICATION D'ARTICLES**
[72] FONTAINE, THOMAS JOSEPH CLAYBORNE, AU
[71] CHAMELEON INNOVATIONS AUSTRALIA (CIA) PTY LTD, AU
[85] 2020-08-20
[86] 2019-02-20 (PCT/AU2019/050140)
[87] (WO2019/161445)
[30] AU (2018900526) 2018-02-20

[21] **3,091,863**
[13] A1
[51] **Int.Cl. A61M 25/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RECTAL ANAESTHESIA**
[54] **PROCEDE ET APPAREIL POUR ANESTHESIE RECTALE**
[72] LUBOWSKI, DAVID ZACHARY, AU
[72] TILLER, ROBERT, AU
[71] NEW MEDTEK DEVICES PTY LTD, AU
[85] 2020-08-20
[86] 2019-02-27 (PCT/AU2019/050165)
[87] (WO2019/165500)
[30] AU (2018900653) 2018-02-28

[21] **3,091,864**
[13] A1
[51] **Int.Cl. A23L 29/25 (2016.01) A61K 47/36 (2006.01) A61K 49/04 (2006.01) C08B 37/00 (2006.01)**
[25] EN
[54] **AN INGREDIENT**
[54] **INGREDIENT**
[72] TRISTRAM, MICHAEL, AU
[72] MOSSEL, BRENDA, AU
[72] SKARSHEWSKI, PETER, AU
[71] TRISCO ICAP PTY LTD, AU
[85] 2020-08-20
[86] 2019-02-27 (PCT/AU2019/050171)
[87] (WO2019/165506)
[30] AU (2018900635) 2018-02-27

[21] **3,091,865**
[13] A1
[51] **Int.Cl. A61K 35/545 (2015.01) C12N 5/071 (2010.01) C12N 5/0783 (2010.01) C12N 5/0784 (2010.01) A61K 35/15 (2015.01) A61K 35/17 (2015.01) A61K 35/28 (2015.01) A61P 31/12 (2006.01) A61P 37/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **EXPANSION OF NK AND DC CELLS IN VIVO MEDIATING IMMUNE RESPONSE**
[54] **EXPANSION DE CELLULES NK ET DC IN VIVO MEDIANT UNE REPONSE IMMUNITAIRE**
[72] SAUVAGEAU, GUY, CA
[72] COHEN, SANDRA, CA
[72] ROY, JEAN, CA
[72] LACHANCE, SILVY, CA
[72] DELISLE, JEAN-SEBASTIEN, CA
[72] CHAGRAOUI, JALILA, CA
[71] UNIVERSITE DE MONTREAL, CA
[85] 2020-08-20
[86] 2019-02-20 (PCT/CA2019/050208)
[87] (WO2019/161494)
[30] US (62/632,733) 2018-02-20

[21] **3,091,866**
[13] A1
[51] **Int.Cl. A01H 5/02 (2018.01) A01H 6/82 (2018.01) C12Q 1/6895 (2018.01) A01H 1/04 (2006.01)**
[25] EN
[54] **TOBAMOVIRUS RESISTANT SOLANACEAE PLANT**
[54] **PLANTE SOLANACEAE RESISTANTE AU TOBAMOVIRUS**
[72] KOOT, JOHANNES THEODORUS, NL
[72] BERENOS, CAMILLO, NL
[72] VAN LEEUWEN-UITERDIJK, MANUELA ELIZABETH CHARLOTTE, NL
[72] MARIS, PAULUS CORNELIS, NL
[71] DUMMEN GROUP B.V., NL
[85] 2020-08-20
[86] 2018-03-13 (PCT/EP2018/056282)
[87] (WO2019/174721)

[21] **3,091,867**
[13] A1
[51] **Int.Cl. E04D 15/00 (2006.01) A62B 1/00 (2006.01) A62B 35/00 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **FALL PROTECTION SYSTEM**
[54] **SYSTEME DE PROTECTION CONTRE LES CHUTES**
[72] FABBI, CHRISTOPHER, CA
[71] UNIFIED SAFETY INC., CA
[85] 2020-08-20
[86] 2019-02-20 (PCT/CA2019/050210)
[87] (WO2019/161496)
[30] US (62/632,781) 2018-02-20

[21] **3,091,868**
[13] A1
[51] **Int.Cl. A61B 1/31 (2006.01) A61B 1/32 (2006.01)**
[25] EN
[54] **ENDOSCOPE END CAP**
[54] **EMBOUT D'EXTREMITE D'ENDOSCOPE**
[72] ZHANG, SHUTIAN, CN
[72] JI, MING, CN
[72] ZHAI, HUIHONG, CN
[72] SHUANG, JIANJUN, CN
[72] WEI, JIANYU, CN
[72] LENG, DERONG, CN
[72] LI, CHANGQING, CN
[72] SHEN, ZHENGHUA, CN
[72] LIU, CHUNJUN, CN
[71] MICRO-TECH (NANJING) CO., LTD., CN
[71] BEIJING FRIENDSHIP HOSPITAL, CAPITAL MEDICAL UNIVERSITY, CN
[85] 2020-08-20
[86] 2018-04-12 (PCT/CN2018/082737)
[87] (WO2019/174091)
[30] CN (201810207220.X) 2018-03-13

[21] **3,091,869**
[13] A1
[51] **Int.Cl. C30B 23/08 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR MOLECULAR BEAM EPITAXY**
[54] **APPAREIL ET PROCEDE POUR EPITAXIE PAR FAISCEAU MOLECULAIRE**
[72] NAJAFI-YAZKI, ALIREZA, CA
[72] GEORGES, WILLIAM, CA
[71] ANYON SYSTEMS INC., CA
[85] 2020-08-20
[86] 2019-02-21 (PCT/CA2019/050212)
[87] (WO2019/161498)
[30] US (62/633,549) 2018-02-21

[21] **3,091,870**
[13] A1
[51] **Int.Cl. C02F 1/50 (2006.01) C02F 1/00 (2006.01) C02F 1/72 (2006.01) E03B 7/00 (2006.01) E03C 1/044 (2006.01) F17D 3/12 (2006.01) F24H 9/00 (2006.01) F24H 9/20 (2006.01) G01N 33/18 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **WATER ENERGY MATRIX CONTROL**
[54] **CONTROLE DE LA MATRICE EAU-ENERGIE**
[72] SHUBAT, JAMES, CA
[72] OP DEN BUIJS, GERBEN, NL
[72] FEYEN, LUDO, BE
[71] SPI TECHNOLOGY LTD., CA
[85] 2020-08-20
[86] 2019-02-28 (PCT/CA2019/050240)
[87] (WO2019/165552)
[30] US (62/637,358) 2018-03-01

[21] **3,091,871**
[13] A1
[51] **Int.Cl. B64C 11/02 (2006.01) F02C 7/32 (2006.01) H02K 7/18 (2006.01)**
[25] FR
[54] **TURBOPROP COMPRISING AN INCORPORATED ELECTRICITY GENERATOR**
[54] **TURBOPROPULSEUR COMPRENANT UNE GENERATRICE D'ELECTRICITE INTEGREE**
[72] KLONOWSKI, THOMAS, FR
[72] CAZAUX, DAVID, FR
[72] LAFARGUE, OLIVIER, FR
[71] SAFRAN HELICOPTER ENGINES, FR
[85] 2020-08-20
[86] 2018-02-28 (PCT/FR2018/050468)
[87] (WO2019/166703)

[21] **3,091,872**
[13] A1
[51] **Int.Cl. E21B 47/00 (2012.01) E21B 47/04 (2012.01) G01P 3/68 (2006.01)**
[25] EN
[54] **ESTIMATING INSPECTION TOOL VELOCITY AND DEPTH**
[54] **ESTIMATION DE LA VITESSE ET DE LA PROFONDEUR D'UN OUTIL D'INSPECTION**
[72] HELMORE, STEVEN, GB
[72] SCOTT, CHRISTOPHER, GB
[72] THURSBY, JONATHAN, GB
[72] BROWN, PHILIP, GB
[72] LOUDEN, FRASER, GB
[72] TYMONS, TOBBEN, GB
[71] E.V. OFFSHORE LIMITED, GB
[85] 2020-08-20
[86] 2019-02-04 (PCT/GB2019/050289)
[87] (WO2019/162642)
[30] GB (1802808.4) 2018-02-21

[21] **3,091,873**
[13] A1
[51] **Int.Cl. A61K 38/16 (2006.01) A61K 9/107 (2006.01) A61K 31/195 (2006.01) A61P 31/04 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **PATHOGENIC BACTERIA**
[54] **BACTERIES PATHOGENES**
[72] CUTTING, SIMON, GB
[72] HUYNH, HONG, GB
[71] SPOREGEN LIMITED, GB
[85] 2020-08-20
[86] 2019-02-15 (PCT/GB2019/050409)
[87] (WO2019/162652)
[30] GB (1802720.1) 2018-02-20

[21] **3,091,874**
[13] A1
[51] **Int.Cl. G06F 21/10 (2013.01) G06F 21/14 (2013.01) B33Y 30/00 (2015.01) B33Y 50/02 (2015.01) G06F 3/12 (2006.01) H04L 9/08 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING REPRODUCTION OF AN ITEM**
[54] **PROCEDE DE COMMANDE DE LA REPRODUCTION D'UN ELEMENT**
[72] VELDSMAN, BARRETT, GB
[71] WIPPIT LTD., GB
[85] 2020-08-20
[86] 2019-02-15 (PCT/GB2019/050410)
[87] (WO2019/166773)
[30] GB (1803311.8) 2018-02-28

[21] **3,091,877**
[13] A1
[51] **Int.Cl. B65D 43/16 (2006.01) B65D 51/24 (2006.01)**
[25] EN
[54] **IMPROVED FLIP TOP PLASTIC LID**
[54] **COUVERCLE EN PLASTIQUE A FERMETURE A RABAT PERFECTIONNE**
[72] DEFOIS, SOPHIE CLAUDE MARIE, SG
[72] MERCADO, GRACE NAGUIT, SG
[72] VAN LANKVELD, CHRISTIANUS PETRUS JOHANNES, NL
[71] MJN U.S. HOLDINGS LLC, US
[85] 2020-08-20
[86] 2019-02-22 (PCT/GB2019/050491)
[87] (WO2019/162685)
[30] GB (1802943.9) 2018-02-23

[21] **3,091,879**
[13] A1
[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/04 (2006.01) A61K 8/06 (2006.01) A61K 8/36 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **REGENERATING COMPOSITION WITH SMOOTHING ACTION FOR TREATING SKIN IMPERFECTIONS AND PROCESS FOR PREPARATION THEREOF**
[54] **COMPOSITION DE REGENERATION A ACTION DE LISSAGE POUR LE TRAITEMENT D'IMPERFECTIONS CUTANEES ET SON PROCEDE DE PREPARATION**
[72] TRANFAGLIA, EGIDIO, IT
[72] MATANO', VALERIO, IT
[71] PROMOITALIA GROUP S.P.A., IT
[85] 2020-08-20
[86] 2018-09-12 (PCT/IB2018/056958)
[87] (WO2019/053606)
[30] IT (102017000102009) 2017-09-12

[21] **3,091,880**
[13] A1
[51] **Int.Cl. H04R 1/40 (2006.01) H04R 3/00 (2006.01) G10L 21/0216 (2013.01)**
[25] EN
[54] **POSITIONING SOUND SOURCES**
[54] **POSITIONNEMENT DE SOURCES SONORES**
[72] SOLVANG, AUDUN, NO
[71] NOMONO AS, NO
[85] 2020-08-20
[86] 2019-02-22 (PCT/GB2019/050497)
[87] (WO2019/162690)
[30] GB (1802850.6) 2018-02-22
[30] US (62/633,755) 2018-02-22

[21] **3,091,882**
[13] A1
[51] **Int.Cl. A01H 1/02 (2006.01)**
[25] FR
[54] **AIR-MOVING DEVICE EMPLOYING COANDA EFFECT FOR POLLINATING A RECIPIENT PLANT USING POLLEN COLLECTED FROM A DONOR PLANT**
[54] **DISPOSITIF AERAULIQUE A EFFET COANDA POUR LA POLLINISATION D'UNE PLANTE RECEVEUSE A PARTIR DU POLLEN CAPTE D'UNE PLANTE DONNEUSE**
[72] BALDET, PATRICK, FR
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[71] SYNGENTA FRANCE SAS, FR
[71] ASUR PLANT BREEDING, FR
[85] 2020-08-20
[86] 2019-03-14 (PCT/FR2019/050562)
[87] (WO2019/175507)
[30] FR (18 52209) 2018-03-14

[21] **3,091,885**
[13] A1
[51] **Int.Cl. F24B 9/00 (2006.01) F24H 1/00 (2006.01)**
[25] EN
[54] **BOILER HEATING SYSTEM**
[54] **SYSTEME DE CHAUFFAGE DE CHAUDIERE**
[72] YAICH, HERTZEL, IL
[71] YAICH, HERTZEL, IL
[85] 2020-08-20
[86] 2019-04-12 (PCT/IL2019/050416)
[87] (WO2019/215715)
[30] IL (259265) 2018-05-10

[21] **3,091,886**
[13] A1
[51] **Int.Cl. B60B 30/06 (2006.01)**
[25] EN
[54] **WHEEL HOLDING DEVICE**
[54] **DISPOSITIF DE RETENUE DE ROUE**
[72] FUNATO, JUNJI, JP
[71] CENTRAL MOTOR WHEEL CO., LTD., JP
[85] 2020-08-20
[86] 2018-02-22 (PCT/JP2018/006420)
[87] (WO2019/163049)

[21] **3,091,888**
[13] A1
[51] **Int.Cl. A61K 38/39 (2006.01) C07K 14/47 (2006.01) C08H 1/06 (2006.01)**
[25] EN
[54] **PROTEINS HAVING WOUND HEALING EFFICACY AND METHOD FOR ISOLATION FROM HUMAN HAIR**
[54] **PROTEINES DOTEES D'UNE EFFICACITE DE CICATRISATION DE PLAIE ET LEUR PROCEDE D'ISOLEMENT A PARTIR DE CHEVEUX HUMAINS**
[72] BARROWS, THOMAS, US
[72] BESKID, NICHOLAS, US
[72] INGRAHAM, CHRISTOPHER, US
[72] MACDOUGALL, ALEXANDER, US
[71] CELL CONSTRUCTS I, LLC, US
[85] 2020-08-20
[86] 2019-02-20 (PCT/US2019/018696)
[87] (WO2019/164890)
[30] US (62/632,753) 2018-02-20

[21] **3,091,890**
[13] A1
[51] **Int.Cl. A61J 3/00 (2006.01) B65B 35/08 (2006.01) B65G 65/48 (2006.01)**
[25] EN
[54] **TABLET CASSETTE**
[54] **CASSETTE DE COMPRIMES**
[72] OMURA, YOSHIHITO, JP
[71] TOSHO, INC., JP
[85] 2020-08-20
[86] 2019-02-20 (PCT/JP2019/006413)
[87] (WO2019/163854)
[30] JP (2018-028485) 2018-02-21
[30] JP (2018-207749) 2018-11-02
[30] JP (2018-207750) 2018-11-02

[21] **3,091,891**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **USER TERMINAL, RADIO BASE STATION AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL D'UTILISATEUR, STATION DE BASE SANS FIL, ET PROCEDE DE COMMUNICATIONS SANS FIL**
[72] MATSUMURA, YUKI, JP
[72] TAKEDA, KAZUKI, JP
[72] NAGATA, SATOSHI, JP
[71] NTT DOCOMO, INC., JP
[85] 2020-08-20
[86] 2018-02-23 (PCT/JP2018/006816)
[87] (WO2019/163111)

[21] **3,091,892**
[13] A1
[51] **Int.Cl. A61K 31/353 (2006.01) A61P 19/08 (2006.01) A61P 19/10 (2006.01) C07D 311/62 (2006.01) C07D 311/74 (2006.01)**
[25] EN
[54] **COMPOUNDS AND COMPOSITIONS FOR THE TREATMENT OF MUSCULAR DISORDERS**
[54] **COMPOSES ET COMPOSITIONS POUR LE TRAITEMENT DE TROUBLES MUSCULAIRES**
[72] SCHREINER, GEORGE F., US
[72] CEBALLOS, GUILLERMO, MX
[72] DUGAR, SUNDEEP, US
[71] EPIRIUM BIO INC., US
[85] 2020-08-20
[86] 2019-02-20 (PCT/US2019/018730)
[87] (WO2019/164914)
[30] US (15/900,533) 2018-02-20

[21] **3,091,893**
[13] A1
[51] **Int.Cl. C22C 1/08 (2006.01) C22C 18/00 (2006.01) C22C 19/03 (2006.01) C22F 1/00 (2006.01) C22F 1/10 (2006.01) C23F 1/02 (2006.01) C23F 1/44 (2006.01) C25D 1/08 (2006.01) C25D 7/00 (2006.01)**
[25] EN
[54] **METAL POROUS BODY**
[54] **CORPS METALLIQUE POREUX**
[72] OKUNO, KAZUKI, JP
[72] HIGASHINO, TAKAHIRO, JP
[72] TAWARAYAMA, HIROMASA, JP
[72] MAJIMA, MASATOSHI, JP
[72] MASUMURA, HARUKI, JP
[72] KURODA, YOSHIYUKI, JP
[72] MITSUSHIMA, SHIGENORI, JP
[71] SUMITOMO ELECTRIC INDUSTRIES, LTD., JP
[71] NATIONAL UNIVERSITY CORPORATION YOKOHAMA NATIONAL UNIVERSITY, JP
[85] 2020-08-20
[86] 2018-12-06 (PCT/JP2018/044858)
[87] (WO2019/163256)
[30] JP (2018-029710) 2018-02-22

[21] **3,091,894**
[13] A1
[51] **Int.Cl. G08B 13/16 (2006.01)**
[25] EN
[54] **GUNSHOT DETECTION SYSTEM WITH ENCRYPTED, WIRELESS TRANSMISSION**
[54] **SYSTEME DE DETECTION DE COUPS DE FEU AVEC TRANSMISSION SANS FIL CHIFFREE**
[72] CONNELL II, THOMAS WYSONG, US
[72] FICARRA, TIMOHTY L., US
[72] LEVIN III, ALAN, US
[71] JOHNSON CONTROLS FIRE PROTECTION LP, US
[85] 2020-08-14
[86] 2019-02-14 (PCT/IB2019/051204)
[87] (WO2019/159100)
[30] US (62/631,296) 2018-02-15
[30] US (62/637,161) 2018-03-01

[21] **3,091,895**
[13] A1
[51] **Int.Cl. E06B 3/964 (2006.01) E06B 3/968 (2006.01)**
[25] EN
[54] **CORNER KEY COMPOSITE MEMBER**
[54] **ELEMENT COMPOSITE DE CLAVETTE D'ANGLE**
[72] KOTIADIS, PETROS, US
[71] FIBER COMPOSITES, LLC (DBA FIBERON), US
[85] 2020-08-20
[86] 2019-02-20 (PCT/US2019/018836)
[87] (WO2019/164998)
[30] US (62/633,062) 2018-02-20

[21] **3,091,896**
[13] A1
[51] **Int.Cl. A43B 1/04 (2006.01) B29D 35/12 (2010.01) A43B 23/02 (2006.01) A43B 23/04 (2006.01)**
[25] EN
[54] **METHOD FOR THE THREE-DIMENSIONAL FORMING OF AN UPPER OF A FOOTWEAR**
[54] **PROCEDE DE FORMATION TRIDIMENSIONNELLE D'UNE TIGE D'UN ARTICLE CHAUSSANT**
[72] CARTABBIA, GIOVANNI, IT
[72] CARTABBIA, PAOLO, IT
[71] MACPI S.P.A. PRESSING DIVISION, IT
[85] 2020-08-20
[86] 2019-03-19 (PCT/IB2019/052206)
[87] (WO2019/180603)
[30] IT (102018000003730) 2018-03-19

[21] **3,091,897**
[13] A1
[51] **Int.Cl. G06T 7/593 (2017.01) B64C 39/02 (2006.01) B64D 47/08 (2006.01) F41H 11/02 (2006.01) G08B 25/00 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **IMAGE PROCESSING DEVICE, FLIGHT VEHICLE, AND PROGRAM**
[54] **DISPOSITIF DE TRAITEMENT D'IMAGES, OBJET VOLANT, ET PROGRAMME**
[72] TAJIKA, AKIHIKO, JP
[71] SOFTBANK CORP., JP
[85] 2020-08-20
[86] 2019-01-30 (PCT/JP2019/003219)
[87] (WO2019/163454)
[30] JP (2018-027905) 2018-02-20

[21] **3,091,898**
[13] A1
[51] **Int.Cl. G02B 7/10 (2006.01) G02B 15/14 (2006.01)**
[25] EN
[54] **INTERNALLY SLOTTED CAM FOR LENS SYSTEM**
[54] **CAME A FENTE INTERNE POUR SYSTEME DE LENTILLE**
[72] BERKOWITZ, SCOTT JASON, US
[71] PANAVISION INTERNATIONAL, L.P., US
[85] 2020-08-20
[86] 2019-02-20 (PCT/US2019/018843)
[87] (WO2019/165005)
[30] US (15/901,680) 2018-02-21

[21] **3,091,899**
[13] A1
[51] **Int.Cl. B60N 2/26 (2006.01) A47D 1/02 (2006.01) B60N 2/28 (2006.01)**
[25] EN
[54] **CHILD RESTRAINT SYSTEM FOR AN INFANT**
[54] **SYSTEME DE RETENUE D'ENFANT DESTINE A UN NOURRISSON**
[72] SUMROY, JON, IL
[71] CARFOLDIO LTD, IL
[85] 2020-08-20
[86] 2018-02-21 (PCT/IL2018/050201)
[87] (WO2019/162931)

[21] **3,091,900**
[13] A1
[51] **Int.Cl. C11B 3/14 (2006.01)**
[25] EN
[54] **EDIBLE OIL REFINING**
[54] **RAFFINAGE D'HUILES COMESTIBLES**
[72] MAIWORM, MICHAEL, DE
[72] TARNOW, ARMIN WILLEM-FRIEDRICH HERMANN, NL
[71] CARGILL, INCORPORATED, US
[85] 2020-08-20
[86] 2019-02-21 (PCT/US2019/018944)
[87] (WO2019/165065)
[30] EP (18157904.6) 2018-02-21
[30] EP (18184132.1) 2018-07-18

[21] **3,091,901**
[13] A1
[51] **Int.Cl. A23L 2/00 (2006.01) B65D 85/00 (2006.01)**
[25] EN
[54] **BEVERAGE FORMING APPARATUS, METHOD, AND CARTRIDGE**
[54] **APPAREIL, PROCEDE ET CARTOUCHE DE FORMATION DE BOISSON**
[72] SAHOO, SAMIR PRAKASH, CA
[72] BHATIA, BHAVISH SATYAPAL, US
[71] SAHOO, SAMIR PRAKASH, CA
[71] BHATIA, BHAVISH SATYAPAL, US
[85] 2020-08-20
[86] 2019-02-27 (PCT/US2019/019778)
[87] (WO2019/168939)
[30] US (62/638,056) 2018-03-02

[21] **3,091,902**
[13] A1
[51] **Int.Cl. C11B 3/14 (2006.01)**
[25] EN
[54] **EDIBLE OIL REFINING**
[54] **RAFFINAGE D'HUILE COMESTIBLE**
[72] TARNOW, ARMIN WILLEM-FRIEDRICH HERMANN, NL
[72] VILAS EGUILETA, IGNACIO, NL
[71] CARGILL, INCORPORATED, US
[85] 2020-08-20
[86] 2019-02-21 (PCT/US2019/018955)
[87] (WO2019/165071)
[30] EP (18157904.6) 2018-02-21
[30] EP (18184132.1) 2018-07-18
[30] EP (18187287.0) 2018-08-03

[21] **3,091,903**
[13] A1
[51] **Int.Cl. A61F 5/445 (2006.01) A61M 27/00 (2006.01) A61M 39/02 (2006.01)**
[25] EN
[54] **DEVICES FOR USE WITH SURGICALLY CREATED ORIFICES**
[54] **DISPOSITIFS DESTINES A ETRE UTILISES AVEC DES ORIFICES CREES CHIRURGICALEMENT**
[72] O'GRADY, GREGORY BRIAN, NZ
[72] DAVIDSON, JOHN BILKEY, NZ
[72] DAVIDSON, ROBERT BRUCE, NZ
[71] THE INSIDES COMPANY LIMITED, NZ
[85] 2020-08-20
[86] 2019-03-08 (PCT/IB2019/051873)
[87] (WO2019/171335)
[30] NZ (740603) 2018-03-08
[30] NZ (744989) 2018-08-07
[30] NZ (745086) 2018-08-08

[21] **3,091,904**
[13] A1
[51] **Int.Cl. B81B 3/00 (2006.01) B01J 19/00 (2006.01) G01N 37/00 (2006.01) C12M 1/34 (2006.01)**
[25] EN
[54] **MICROCHANNEL DEVICE**
[54] **DISPOSITIF A CANAUX MICROFLUIDIQUES**
[72] MIYOSHI, HAYATO, JP
[72] ITO, KOJU, JP
[72] OBA, TAKAHIRO, JP
[72] WAKABAYASHI, AKIRA, JP
[71] FUJIFILM CORPORATION, JP
[85] 2020-08-20
[86] 2019-02-28 (PCT/JP2019/007907)
[87] (WO2019/168118)
[30] JP (2018-037511) 2018-03-02

[21] **3,091,905**
[13] A1
[51] **Int.Cl. B01D 15/16 (2006.01) G01N 30/86 (2006.01)**
[25] EN
[54] **DETERMINING CONDITIONS FOR PURIFICATION OF PROTEINS**
[54] **DETERMINATION DE CONDITIONS DE PURIFICATION DE PROTEINES**
[72] SHAVER, JEREMY MARTIN, US
[72] AMIMEUR, TILELI, US
[72] GILLESPIE, RON, US
[72] KETCHEM, RANDAL R., US
[72] GARCIA, FERNANDO, US
[71] JUST BIOTHERAPEUTICS, INC., US
[85] 2020-08-20
[86] 2019-02-21 (PCT/US2019/019050)
[87] (WO2019/165148)
[30] US (62/633,584) 2018-02-21

[21] **3,091,908**
[13] A1
[51] **Int.Cl. C02F 1/461 (2006.01) C02F 1/467 (2006.01) C02F 1/72 (2006.01) C25B 1/26 (2006.01) C25B 15/02 (2006.01) C25B 15/08 (2006.01)**
[25] EN
[54] **ELECTROCHLORINATION SYSTEM CONFIGURATIONS FOR THE GENERATION OF HIGH PRODUCT STRENGTH SOLUTIONS**
[54] **CONFIGURATIONS DE SYSTEME D'ELECTROCHLORATION POUR LA GENERATION DE SOLUTIONS A HAUTE RESISTANCE DU PRODUIT**
[72] GRIFFIS, JOSHUA, US
[72] DUKES, SIMON P., US
[72] BEDDOES, PAUL, GB
[72] ROGERS, PETER G., GB
[72] AWAN, MUHAMMAD, GB
[71] EVOQUA WATER TECHNOLOGIES LLC, US
[71] EVOQUA WATER TECHNOLOGIES LIMITED, GB
[85] 2020-08-20
[86] 2019-02-22 (PCT/US2019/019072)
[87] (WO2019/165161)
[30] US (62/633,790) 2018-02-22

[21] **3,091,909**
[13] A1
[51] **Int.Cl. C12N 15/70 (2006.01) C12N 9/10 (2006.01) C12N 9/12 (2006.01) C12N 15/77 (2006.01) C12N 15/81 (2006.01) C12P 13/04 (2006.01)**
[25] EN
[54] **A MICROORGANISM PRODUCING A MYCOSPORINE-LIKE AMINO ACID AND A METHOD FOR PRODUCING A MYCOSPORINE-LIKE AMINO ACID USING THE SAME**
[54] **MICRO-ORGANISME PRODUCTEUR D'ACIDES AMINES DE TYPE MYCOSPORINE ET PROCEDE DE PRODUCTION D'ACIDES AMINES DE TYPE MYCOSPORINE A L'AIDE DE CELUI-CI**
[72] KIM, SOL, KR
[72] SEOK, JONG-CHEOL, KR
[72] LEE, KYUSUNG, KR
[72] JANG, JAE WOO, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2020-08-20
[86] 2019-02-22 (PCT/KR2019/002242)
[87] (WO2019/164351)
[30] KR (10-2018-0022185) 2018-02-23

[21] **3,091,910**
[13] A1
[51] **Int.Cl. B05B 1/16 (2006.01) B05B 1/18 (2006.01) B05B 1/30 (2006.01) B05B 1/32 (2006.01) B05B 11/00 (2006.01)**
[25] EN
[54] **SHOWER HEAD**
[54] **POMME DE DOUCHE**
[72] BRUCE, ROBERT W., US
[71] BRUCE, ROBERT W., US
[85] 2020-08-20
[86] 2019-02-22 (PCT/US2019/019116)
[87] (WO2019/165182)
[30] US (15/903,449) 2018-02-23

[21] **3,091,911**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 8/60 (2006.01) A61K 8/64 (2006.01) A61K 31/7088 (2006.01) A61K 38/00 (2006.01) A61P 17/00 (2006.01) A61Q 19/08 (2006.01) C07K 14/00 (2006.01)**
[25] EN
[54] **MATRIX METALLOPROTEINASE-1 ANTISENSE OLIGONUCLEOTIDES**
[54] **OLIGONUCLEOTIDES ANTISENS DE METALLOPROTEINASE-1 MATRICIELLE**
[72] HAN, SEON-YOUNG, KR
[72] SUNG, KIHO, KR
[72] HONG, MYUNGHYO, KR
[72] OH, YOUREE, KR
[72] HEO, JEONG-SEOK, KR
[72] JANG, KANG WON, KR
[71] OLIPASS CORPORATION, KR
[85] 2020-08-20
[86] 2019-05-03 (PCT/KR2019/005994)
[87] (WO2019/221570)
[30] KR (10-2018-0057352) 2018-05-18

[21] **3,091,912**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61P 25/00 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING ANGELMAN SYNDROME**
[54] **METHODES ET COMPOSITIONS DE TRAITEMENT DU SYNDROME D'ANGELMAN**
[72] ZYLKA, MARK JOHN, US
[72] WOLTER, JUSTIN MATTHEW, US
[72] FRAGOLA, GIULIA, US
[72] SIMON, JEREMY MARK, US
[72] MAO, HANGQIAN, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2020-08-20
[86] 2019-02-27 (PCT/US2019/019789)
[87] (WO2019/168950)
[30] US (62/635,815) 2018-02-27

[21] **3,091,913**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/416 (2006.01) A61P 17/06 (2006.01) A61P 19/04 (2006.01) A61P 35/00 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF**
[54] **INDAZOLE-3-CARBOXAMIDES SUBSTITUES PAR HETEROARYLE EN POSITION 5, PREPARATION ET UTILISATION ASSOCIEES**
[72] KC, SUNIL KUMAR, US
[72] MAK, CHI CHING, US
[72] MITTAPALLI, GOPI KUMAR, US
[72] HOFILENA, BRIAN JOSEPH, US
[72] EASTMAN, BRIAN WALTER, US
[72] CAO, JIANGUO, US
[72] CHIRUTA, CHANDRAMOULI, US
[72] BOLLU, VENKATAIAH, US
[71] SAMUMED, LLC, US
[85] 2020-08-20
[86] 2019-02-22 (PCT/US2019/019129)
[87] (WO2019/165192)
[30] US (62/634,656) 2018-02-23

[21] **3,091,914**
[13] A1
[51] **Int.Cl. E21B 23/01 (2006.01) E21B 31/20 (2006.01)**
[25] EN
[54] **DOWNHOLE CASING PULLING TOOL**
[54] **OUTIL DE TRACTION DE TUBAGE DE FOND DE TROU**
[72] SCHMIDT, RONALD G., US
[72] SMALLEY, MICHAEL, US
[71] WEATHERFORD TEHCNOLOGY HOLDINGS, LLC, US
[85] 2020-08-20
[86] 2019-03-07 (PCT/US2019/021140)
[87] (WO2019/177862)
[30] US (15/924,009) 2018-03-16

[21] **3,091,915**
[13] A1
[51] **Int.Cl. C09D 195/00 (2006.01) E01C 7/18 (2006.01)**
[25] EN
[54] **ENGINEERED CRUMB RUBBER COMPOSITION FOR USE IN ASPHALT BINDER AND PAVING MIX APPLICATIONS**
[54] **COMPOSITION TECHNIQUE DE GRANULES DE CAOUTCHOUC POUR UNE UTILISATION DANS LES APPLICATIONS DE LIANT ASPHALTIQUE ET DE MELANGE DE PAVAGE**
[72] STEPP, JAMES, US
[72] CLARK, REDMOND, US
[71] ASPHALT PLUS, LLC, US
[85] 2020-08-20
[86] 2019-02-22 (PCT/US2019/019192)
[87] (WO2019/165238)
[30] US (62/633,988) 2018-02-22

[21] **3,091,916**
[13] A1
[51] **Int.Cl. A61K 35/38 (2015.01) A61P 37/00 (2006.01)**
[25] EN
[54] **FECAL MATTER FOR PREVENTION OR TREATMENT OF AUTOIMMUNE DISEASES**
[54] **MATIERE FECALE POUR LA PREVENTION OU LE TRAITEMENT DE MALADIES AUTO-IMMUNES**
[72] NIEUWDORP, MAX, NL
[72] DE VOS, WILLEM MEINDERT, NL
[71] ACADEMISCH MEDISCH CENTRUM, NL
[71] WAGENINGEN UNIVERSITEIT, NL
[85] 2020-08-20
[86] 2019-03-01 (PCT/NL2019/050130)
[87] (WO2019/168401)
[30] NL (2020525) 2018-03-02
[30] NL (2021365) 2018-07-20
[30] NL (2021366) 2018-07-20
[30] NL (2021367) 2018-07-20
[30] NL (2021369) 2018-07-20
[30] NL (2021370) 2018-07-20

[21] **3,091,917**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) C12Q 1/70 (2006.01) C40B 20/06 (2006.01) C40B 30/10 (2006.01) G01N 27/49 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **NEOANTIGEN IDENTIFICATION WITH PAN-ALLELE MODELS**
[54] **IDENTIFICATION DE NEO-ANTIGENE A L'AIDE DE MODELES PAN-ALLELES**
[72] BOUCHER, THOMAS FRANCIS, US
[72] BULIK-SULLIVAN, BRENDAN, US
[72] BUSBY, JENNIFER, US
[72] SKOBERNE, MOJCA, US
[72] YELENSKY, ROMAN, US
[71] GRITSTONE ONCOLOGY, INC., US
[85] 2020-08-20
[86] 2019-02-27 (PCT/US2019/019836)
[87] (WO2019/168984)
[30] US (62/636,061) 2018-02-27

[21] **3,091,918**
[13] A1
[51] **Int.Cl. B23Q 3/06 (2006.01) B23F 17/00 (2006.01) B23F 23/02 (2006.01) B24C 1/10 (2006.01) B24C 3/20 (2006.01)**
[25] EN
[54] **OVERSIZED PART HOLD DOWN APPARATUS**
[54] **APPAREIL DE SUPPORT DE PIECE SURDIMENSIONNEE**
[72] WERN, MICHAEL J., US
[71] ENGINEERED ABRASIVES, INC., US
[85] 2020-08-20
[86] 2019-02-22 (PCT/US2019/019240)
[87] (WO2019/165270)
[30] US (62/634,356) 2018-02-23

[21] **3,091,919**
[13] A1
[51] **Int.Cl. B23K 9/173 (2006.01) B23K 9/29 (2006.01) B23K 9/32 (2006.01)**
[25] EN
[54] **WELDING TORCH WITH STRAIN RELIEF CLASP COUPLING A STRAIN RELIEF TO A CONNECTOR AND CLAMPING A SLEEVE AGAIN THE CONNECTOR**
[54] **CHALUMEAU DE SOUDAGE AVEC FERMOIR A REDUCTEUR DE CONTRAINTES ACCOUPLANT UN REDUCTEUR DE CONTRAINTES A UN RACCORD ET SERRANT UN MANCHON CONTRE LE RACCORD**
[72] BONDY, CRAIG MATTHEW, US
[72] WELLS, JEFFREY GERALD, US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2020-08-20
[86] 2018-02-26 (PCT/US2018/019684)
[87] (WO2019/164528)

[21] **3,091,920**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C12N 5/0783 (2010.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTI CD6 ANTIBODIES FOR TREATING SEVERE ASTHMA**
[54] **ANTICORPS ANTI-CD6 POUR LE TRAITEMENT DE L'ASTHME SEVERE**
[72] CONNELLY, STEPHEN, US
[72] NG, CHERIE, US
[71] EQUILLIUM, INC., US
[85] 2020-08-20
[86] 2019-02-27 (PCT/US2019/019872)
[87] (WO2019/169015)
[30] US (62/636,092) 2018-02-27

[21] **3,091,921**
[13] A1
[51] **Int.Cl. A61K 6/30 (2020.01)**
[25] EN
[54] **DENTAL COMPOSITION**
[54] **COMPOSITION DENTAIRE**
[72] MAIER, MAXIMILIAN, DE
[72] LIU, HUAIBING, US
[72] POHLE, SVEN, DE
[72] SZILLAT, FLORIAN, DE
[71] DENTSPLY SIRONA INC., US
[85] 2020-08-20
[86] 2019-03-08 (PCT/US2019/021248)
[87] (WO2019/173656)
[30] US (62/640,052) 2018-03-08
[30] EP (18163137.5) 2018-03-21

[21] **3,091,922**
[13] A1
[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/31 (2006.01)**
[25] EN
[54] **MEDICAL DELIVERY DEVICES HAVING LOW LUBRICANT HYDROPHOBIC SYRINGE BARRELS**
[54] **DISPOSITIFS D'ADMINISTRATION MEDICAUX COMPRENANT DES CYLINDRES DE SERINGUE HYDROPHOBES A FAIBLE TENEUR EN LUBRIFIANT**
[72] VAN VOORHEES, ERIC J., US
[72] WRIGHT, BENJAMIN, US
[71] W.L. GORE & ASSOCIATES, INC., US
[85] 2020-08-20
[86] 2019-02-26 (PCT/US2019/019570)
[87] (WO2019/173083)
[30] US (62/639,317) 2018-03-06

[21] **3,091,923**
[13] A1
[51] **Int.Cl. B23K 9/32 (2006.01) B23K 9/173 (2006.01) B23K 9/28 (2006.01)**
[25] EN
[54] **THERMAL INSULATING PLATES FOR WELDING TORCHES**
[54] **PLAQUES D'ISOLATION THERMIQUE POUR CHALUMEAUX DE SOUDAGE**
[72] BONDY, CRAIG MATTHEW, US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2020-08-20
[86] 2018-02-27 (PCT/US2018/019890)
[87] (WO2019/168497)

[21] **3,091,924**
[13] A1
[51] **Int.Cl. A01N 43/653 (2006.01) C07D 249/08 (2006.01)**
[25] EN
[54] **AMIDE PRODRUGS OF SMALL MOLECULE NUCLEAR RECEPTOR MODULATORS**
[54] **PROMEDICAMENTS A BASE D'AMIDE DE MODULATEURS DE RECEPTEUR NUCLEAIRE DE PETITES MOLECULES**
[72] SCANLAN, THOMAS S., US
[72] FERRARA, SKYLAR J., US
[71] OREGON HEALTH & SCIENCE UNIVERSITY, US
[85] 2020-08-20
[86] 2019-02-26 (PCT/US2019/019576)
[87] (WO2019/168842)
[30] US (62/637,884) 2018-03-02

[21] **3,091,925**
[13] A1
[51] **Int.Cl. A61B 5/053 (2006.01) A61B 90/00 (2016.01) A61B 5/04 (2006.01) A61B 5/05 (2006.01) A61B 17/17 (2006.01) A61B 17/56 (2006.01) A61B 17/58 (2006.01) A61B 17/68 (2006.01) A61B 17/88 (2006.01) A61C 1/08 (2006.01) G01B 3/28 (2006.01)**
[25] EN
[54] **HANDHELD DEVICES FOR USE IN MEDICAL PROCEDURES**
[54] **DISPOSITIFS PORTATIFS DESTINES A ETRE UTILISES DANS DES INTERVENTIONS MEDICALES**
[72] MATUSAITIS, TOMAS, US
[72] HOOS, KENNETH, US
[72] WILSON, CHRISTOPHER, US
[72] RIOUX, ROBERT F., US
[72] KHANNA, NITIN, US
[72] PHILLIPS, FRANK, US
[72] YOUSSEF, JIM A., US
[72] RAINA, ANIRUDDHA, US
[72] BELTON, ANTONIO, US
[71] EDGE SURGICAL, INC., US
[85] 2020-08-20
[86] 2019-03-05 (PCT/US2019/020709)
[87] (WO2019/173307)
[30] US (62/638,605) 2018-03-05

[21] **3,091,926**
[13] A1
[51] **Int.Cl. B23K 9/173 (2006.01) B23K 9/12 (2006.01) B23K 9/133 (2006.01) B23K 9/29 (2006.01) B23K 9/32 (2006.01)**
[25] EN
[54] **WELDING TORCH HANDLE WITH A COVER CAP AND A CAP HOLDER**
[54] **POIGNEE DE CHALUMEAU DE SOUDAGE MUNIE D'UN CAPUCHON DE COUVERCLE ET D'UN SUPPORT DE CAPUCHON**
[72] BONDY, CRAIG MATTHEW, US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2020-08-20
[86] 2018-02-27 (PCT/US2018/019895)
[87] (WO2019/168499)

[21] **3,091,927**
[13] A1
[51] **Int.Cl. H01R 13/00 (2006.01) H01R 13/62 (2006.01) H05K 5/00 (2006.01) H05K 7/00 (2006.01) H05K 7/14 (2006.01)**
[25] EN
[54] **PLUG-IN MODULE INJECTOR LEVER ASSEMBLY, KIT, AND METHOD**
[54] **ENSEMBLE LEVIER D'INJECTEUR DE MODULE ENFICHABLE, KIT, ET PROCEDE**
[72] BAME, RODNEY, US
[72] MOSIER, DAVID, JR., US
[71] WAVETHERM CORPORATION, US
[85] 2020-08-20
[86] 2018-04-23 (PCT/US2018/028792)
[87] (WO2019/209238)

[21] **3,091,928**
[13] A1
[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/00 (2006.01) A61B 5/04 (2006.01)**
[25] EN
[54] **NERVE MONITORING AND/OR STIMULATION ELECTRODE ASSEMBLIES**
[54] **ENSEMBLES ELECTRODES DE SURVEILLANCE ET/OU DE STIMULATION DE NERF**
[72] CANTWELL, MATTHEW L., US
[72] HACKER, DAVID C., US
[72] PRISCO, JOHN R., US
[71] MEDTRONIC XOMED, INC., US
[85] 2020-08-20
[86] 2018-12-13 (PCT/US2018/065326)
[87] (WO2019/168584)
[30] US (15/907,980) 2018-02-28

[21] **3,091,929**
[13] A1
[51] **Int.Cl. G06T 17/05 (2011.01) G06T 13/20 (2011.01) G06T 19/20 (2011.01)**
[25] EN
[54] **DISPLAY OF THE PEDESTRIAN WIND ENVIRONMENT IN A THREE-DIMENSIONAL MODEL SPACE**
[54] **AFFICHAGE DE L'ENVIRONNEMENT DE VENT PIETON DANS UN ESPACE MODELE TRIDIMENSIONNEL**
[72] FEWLESS, YARROW JACOB, US
[72] OTT, KEVIN DEVAUGHN, US
[72] PARRISH, SCOTT MATTHEW, US
[71] CPP INCORPORATED, US
[85] 2020-08-20
[86] 2019-01-16 (PCT/US2019/013862)
[87] (WO2019/172992)
[30] US (15/916,593) 2018-03-09

[21] **3,091,930**
[13] A1
[51] **Int.Cl. F25J 1/00 (2006.01) F25J 1/02 (2006.01) F25J 3/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR LIQUEFACTION OF NATURAL GAS USING LIQUID NITROGEN**
[54] **PROCEDE ET SYSTEME DE LIQUEFACTION DE GAZ NATUREL PAR UTILISATION D'AZOTE LIQUIDE**
[72] PIERRE, FRITZ, JR., US
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2020-08-20
[86] 2019-01-30 (PCT/US2019/015819)
[87] (WO2019/177705)
[30] US (62/642,961) 2018-03-14

[21] **3,091,931**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 38/00 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/22 (2006.01) A61K 47/32 (2006.01)**
[25] EN
[54] **EXCIPIENT COMPOUNDS FOR PROTEIN FORMULATIONS**
[54] **COMPOSES EXCIPIENTS POUR FORMULATIONS A BASE DE PROTEINES**
[72] SOANE, DAVID S., US
[72] WUTHRICH, PHILIP, US
[72] MAHONEY, ROBERT P., US
[72] NAIK, SUBHASHCHANDRA, US
[72] TRAN, TIMOTHY, US
[72] PORTILLA, ROSA CARADO, US
[72] GREENE, DANIEL G., US
[71] REFORM BIOLOGICS, LLC, US
[85] 2020-08-20
[86] 2019-03-05 (PCT/US2019/020751)
[87] (WO2019/173338)
[30] US (62/639,950) 2018-03-07
[30] US (62/679,647) 2018-06-01

[21] **3,091,932**
[13] A1
[51] **Int.Cl. A01C 21/00 (2006.01) A01C 7/08 (2006.01) A01C 15/04 (2006.01)**
[25] EN
[54] **SECTIONAL CONTROL FUNNEL BOX**
[54] **BOITE EN ENTONNOIR A COMMANDE EN COUPE**
[72] DICK, WYATT, US
[71] INTELLIGENT AGRICULTURAL SOLUTIONS LLC, US
[85] 2020-08-20
[86] 2019-02-06 (PCT/US2019/016909)
[87] (WO2019/177715)
[30] US (62/644,012) 2018-03-16

[21] **3,091,934**
[13] A1
[51] **Int.Cl. F02B 29/04 (2006.01) F02B 33/00 (2006.01) F02M 35/10 (2006.01) F28D 7/16 (2006.01) F28D 15/00 (2006.01)**
[25] EN
[54] **MODULAR INTERCOOLER BLOCK**
[54] **BLOC REFROIDISSEUR INTERMEDIAIRE MODULAIRE**
[72] FIELLO, JONATHAN RICHARD, US
[72] STEVENS, MATTHEW, US
[72] WILLIAMS, STEVE, US
[71] K&N ENGINEERING, INC., US
[85] 2020-08-20
[86] 2019-02-14 (PCT/US2019/018091)
[87] (WO2019/164750)
[30] US (62/632,999) 2018-02-20
[30] US (16/275,075) 2019-02-13

[21] **3,091,935**
[13] A1
[51] **Int.Cl. G06T 17/20 (2006.01) G06T 7/11 (2017.01) G16B 45/00 (2019.01) G06T 3/40 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL CELL AND TISSUE IMAGE ANALYSIS FOR CELLULAR AND SUB-CELLULAR MORPHOLOGICAL MODELING AND CLASSIFICATION**
[54] **ANALYSE D'IMAGE TRIDIMENSIONNELLE DE CELLULES ET DE TISSUS PERMETTANT UNE MODELISATION ET UNE CLASSIFICATION MORPHOLOGIQUES CELLULAIRES ET SOUS-CELLULAIRES**
[72] DINOV, IVAYLO, US
[72] ATHEY, BRIAN D., US
[72] DILWORTH, DAVID S., US
[72] ALLYN-FEUER, ARI, US
[72] KALININ, ALEXANDR, US
[72] ADE, ALEX S., US
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[85] 2020-08-20
[86] 2019-02-19 (PCT/US2019/018617)
[87] (WO2019/164850)
[30] US (62/632,663) 2018-02-20
[30] US (16/277,128) 2019-02-15

[21] **3,091,936**
[13] A1
[51] **Int.Cl. A01N 63/00 (2020.01) A01N 65/08 (2009.01)**
[25] EN
[54] **MATERIALS AND METHODS FOR ATTRACTING AND CONTROLLING PLANT-PATHOGENIC NEMATODES**
[54] **MATERIAUX ET PROCEDES D'ATTRACTION ET DE REGULATION DE NEMATODES PATHOGENES DES PLANTES**
[72] FARMER, SEAN, US
[72] ALIBEK, KEN, US
[72] MILOVANOVIC, MAJA, US
[71] LOCUS AGRICULTURE IP COMPANY, LLC, US
[85] 2020-08-20
[86] 2019-02-20 (PCT/US2019/018683)
[87] (WO2019/164878)
[30] US (62/632,660) 2018-02-20

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] **3,060,153**
[13] A1
[51] **Int.Cl. B64D 47/00 (2006.01)**
[25] EN
[54] **AIRCRAFT MAINTENANCE SYSTEMS AND METHODS**
[54]
[72] BEST, TIMOTHY A., US
[72] PIERRE, RAVIN R., US
[72] NIKJOU, HAMID R., US
[71] THE BOEING COMPANY, US
[22] 2019-10-24
[41] 2020-07-18
[30] US (16/252,552) 2019-01-18

---

[21] **3,072,183**
[13] A1
[51] **Int.Cl. B01J 19/24 (2006.01) B01J 8/02 (2006.01)**
[25] EN
[54] **METHANOL PRODUCTION REACTOR APPARATUS AND METHOD OF OPERATION USING A HOMOGENOUS CATALYST**
[54]
[72] TRAHAN, DAVID O., US
[72] AMBATIPATI, SRINIVASAN, US
[71] TRAHAN, DAVID O., US
[71] AMBATIPATI, SRINIVASAN, US
[22] 2020-02-07
[41] 2020-08-08
[30] US (62/803,224) 2019-02-08

---

[21] **3,079,330**
[13] A1
[51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/24 (2012.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PROVIDING INTERACTION INFORMATION BY USING IMAGE ON DEVICE DISPLAY**
[54] **APPAREIL ET PROCEDE DE COMMUNICATION D'INFORMATIONS D'INTERACTION A L'AIDE D'UNE IMAGE SUR UN AFFICHAGE DE DISPOSITIF**
[72] MOON, BO-SEOK, KR
[72] JUNG, HEE-WON, KR
[71] SAMSUNG ELECTRONICS CO., LTD., KR
[22] 2013-08-14
[41] 2014-02-27
[62] 2,876,587
[30] KR (10-2012-0093291) 2012-08-24
[30] KR (10-2013-0096192) 2013-08-13

---

[21] **3,090,240**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-TREM2 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-TREM2 ET LEURS PROCEDES D'UTILISATION**
[72] MONROE, KATE, US
[72] SCHWABE, TINA, US
[72] AVOGADRI-CONNORS, FRANCESCA, US
[72] TASSI, ILARIA, US
[72] LAM, HELEN, US
[72] ROSENTHAL, ARNON, US
[71] ALECTOR LLC, US
[22] 2015-08-08
[41] 2016-02-11
[62] 2,955,086
[30] US (62/035,336) 2014-08-08
[30] US (62/135,122) 2015-03-18
[30] US (62/135,110) 2015-03-18

---

[21] **3,090,264**
[13] A1
[51] **Int.Cl. A47K 5/12 (2006.01) F04B 45/02 (2006.01)**
[25] EN
[54] **SHUT-OFF SYSTEM FOR A DISPENSER**
[54] **SYSTEME DE FERMETURE POUR UN DISTRIBUTEUR**
[72] SMITH, DAVID J., US
[72] MCNULTY, JOHN J., US
[72] QUINLAN, ROBERT, US
[72] MANN, CHRISTOPHER J., US
[72] YATES, JAMES M., US
[71] GOJO INDUSTRIES, INC., US
[22] 2012-06-13
[41] 2013-01-17
[62] 2,841,982
[30] US (13/181,083) 2011-07-12

---

[21] **3,090,268**
[13] A1
[51] **Int.Cl. A61K 31/122 (2006.01) A61K 9/10 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **TREATMENT OF SOLID TUMORS USING COENZYME Q10**
[54]
[72] NARAIN, NIVEN RAJIN, US
[72] MCCOOK, JOHN PATRICK, US
[72] SONG, PAUL Y., US
[71] BERG LLC, US
[22] 2013-05-31
[41] 2013-12-05
[62] 2,875,150
[30] US (61/654,245) 2012-06-01

[21] **3,090,294**
[13] A1
[51] **Int.Cl. C07D 209/70 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING TECOVIRIMAT**
[54] **PROCEDE DE PREPARATION DE TECOVIRIMAT**
[72] DAI, DONGCHENG, US
[71] SIGA TECHNOLOGIES, INC., US
[22] 2013-08-14
[41] 2014-02-20
[62] 2,882,506
[30] US (61/683,905) 2012-08-16

---

[21] **3,090,304**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7125 (2006.01) A61P 29/00 (2006.01) C12N 15/63 (2006.01) C12N 15/24 (2006.01)**
[25] EN
[54] **ANTISENSE MODULATION OF INTERLEUKINS 17 AND 23 SIGNALING**
[54]
[72] SCHNELL, FREDERICK J., US
[72] IVERSEN, PATRICK L., US
[72] MOURICH, DAN V., US
[71] SAREPTA THERAPEUTICS, INC., US
[22] 2011-05-13
[41] 2011-11-17
[62] 2,805,086
[30] US (61/334,516) 2010-05-13

---

[21] **3,090,309**
[13] A1
[25] EN
[54] **PUMP CASSETTE AND METHODS FOR USE IN MEDICAL TREATMENT SYSTEM USING A PLURALITY OF FLUID LINES**
[54]
[72] MCGILL, DAVID W., US
[72] DALE, JAMES D., US
[72] HELMORE, SIMON C., US
[72] LANIGAN, RICHARD J., US
[72] DEMERS, JASON A., US
[72] KAMEN, DEAN, US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[22] 2009-01-23
[41] 2009-07-30
[62] 2,965,013
[30] US (61/011,967) 2008-01-23
[30] US (61/058,469) 2008-06-03

---

[21] **3,090,312**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **A DEVICE AND METHOD FOR STERILIZATION OF INSTRUMENTS AND SURFACES**
[54] **DISPOSITIF ET PROCEDE DE STERILISATION D'INSTRUMENTS ET DE SURFACES**
[72] ROCK, GAIL, CA
[71] ROCK, GAIL, CA
[22] 2013-11-01
[41] 2014-05-05
[62] 2,832,380
[30] US (61/722,597) 2012-11-05
[30] US (13/839,011) 2013-03-15

---

[21] **3,090,333**
[13] A1
[51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR SEALING A VASCULAR PUNCTURE**
[54]
[72] HUNDERTMARK, RONALD, US
[72] UCHIDA, ANDY H., US
[72] ZILVERSMIT, MOSHE, US
[72] FISCELLA, DAVID L., US
[72] FELL, BRANDON, US
[72] KU, VINCENT, US
[72] GUYER, CURT, US
[72] REPP, RICHARD, US
[72] SPONSEL, MARK, US
[71] ACCESSCLOSURE, INC., US
[22] 2013-03-19
[41] 2013-09-26
[62] 2,867,601
[30] US (61/615,202) 2012-03-23
[30] US (61/707,797) 2012-09-28
[30] US (61/799,315) 2013-03-15

---

[21] **3,090,392**
[13] A1
[51] **Int.Cl. C40B 30/00 (2006.01) G16B 35/00 (2019.01) G16B 99/00 (2019.01) C12N 15/00 (2006.01) C12N 15/09 (2006.01) C12Q 1/68 (2018.01) C40B 10/00 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM**
[54] **AMELIORATION DE SOUCHES MICROBIENNES PAR UNE PLATEFORME D'INGENIERIE GENOMIQUE HTP**
[72] SERBER, ZACH, US
[72] DEAN, ERIK JEDEDIAH, US
[72] MANCHESTER, SHAWN, US
[72] GORA, KATHERINE, US
[72] FLASHMAN, MICHAEL, US
[72] SHELLMAN, ERIN, US
[72] KIMBALL, AARON, US
[72] SZYJKA, SHAWN, US
[72] FREWEN, BARBARA, US
[72] TREYNOR, THOMAS, US
[72] BRUNO, KENNETH S., US
[71] ZYMERGEN INC., US
[22] 2016-12-07
[41] 2017-06-15
[62] 3,007,840
[30] US (62/264,232) 2015-12-07
[30] US (15/140,296) 2016-04-27
[30] US (62/368,786) 2016-07-29

---

[21] **3,090,396**
[13] A1
[51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR SEALING A VASCULAR PUNCTURE**
[54]
[72] HUNDERTMARK, RONALD, US
[72] UCHIDA, ANDY H., US
[72] ZILVERSMIT, MOSHE, US
[72] FISCELLA, DAVID L., US
[72] FELL, BRANDON, US
[72] KU, VINCENT, US
[72] GUYER, CURT, US
[72] REPP, RICHARD, US
[72] SPONSEL, MARK, US
[71] ACCESSCLOSURE, INC., US
[22] 2013-03-19
[41] 2013-09-26
[62] 2,867,601
[30] US (61/615,202) 2012-03-23
[30] US (61/707,797) 2012-09-28
[30] US (61/799,315) 2013-03-15

[21] **3,090,413**
[13] A1
[51] **Int.Cl. G16H 15/00 (2018.01) G06F 3/0481 (2013.01)**
[25] EN
[54] **DIABETES CARE HOST-CLIENT ARCHITECTURE AND DATA MANAGEMENT SYSTEM**
[54]
[72] GOODNOW, TIMOTHY T., US
[72] ANDERSON, CAROLYN, US
[72] LOVE, TOM, US
[71] ABBOTT DIABETES CARE INC., US
[22] 2005-06-06
[41] 2005-12-15
[62] 2,858,901
[30] US (60/577,064) 2004-06-04

[21] **3,090,418**
[13] A1
[51] **Int.Cl. G01N 21/41 (2006.01)**
[25] EN
[54] **TOTAL PROTEIN MEASUREMENT USING WHOLE BLOOD REFRACTOMETRY**
[54] **MESURE DE PROTEINE TOTALE A L'AIDE DE LA REFRACTOMETRIE DE SANG ENTIER**
[72] SCHONBRUN, ETHAN, US
[72] ADIB, LARA, US
[72] BLANKENSTEIN, GERT, US
[71] INSTRUMENTATION LABORATORY COMPANY, US
[22] 2017-10-05
[41] 2018-04-19
[62] 3,039,651
[30] US (62/407,844) 2016-10-13

[21] **3,090,422**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE DEVICES, PROSTHETIC MITRAL VALVES AND ASSOCIATED SYSTEMS AND METHODS**
[54]
[72] MORRISS, JOHN, US
[72] GIFFORD, HANSON, III, US
[72] FANN, JAMES L., US
[72] DUERI, JEAN-PIERRE, US
[72] MCLEAN, MATT, US
[72] GITTINGS, DARRIN, US
[72] LUNA, MICHAEL, US
[72] DEEM, MARK, US
[72] SUTTON, DOUGLAS, US
[72] GRAINGER, JEFFREY J., US
[71] TWELVE, INC., US
[22] 2012-10-19
[41] 2013-04-25
[62] 2,849,030
[30] US (61/549,044) 2011-10-19
[30] US (61/605,699) 2012-03-01

[21] **3,090,432**
[13] A1
[51] **Int.Cl. F16L 3/18 (2006.01) F16L 11/00 (2006.01) F24F 13/02 (2006.01)**
[25] EN
[54] **EXTERNALLY TENSIONED PLIABLE AIR DUCTS**
[54] **CONDUITS D'AIR PLIABLES EXTERIEUREMENT TENDUS**
[72] PINKALLA, CARY, US
[72] LOGIC, JEFF, US
[72] GEBKE, KEVIN J., US
[72] KAUFMANN, NICHOLAS L., US
[71] RITE-HITE HOLDING CORPORATION, US
[22] 2015-05-18
[41] 2015-12-03
[62] 2,947,481
[30] US (14/290,543) 2014-05-29

[21] **3,090,437**
[13] A1
[51] **Int.Cl. B64D 11/02 (2006.01)**
[25] EN
[54] **AIRCRAFT INTERIOR LAVATORY**
[54]
[72] COOK, DONALD F., US
[72] HARRINGTON, LIBERTY D., US
[72] STEINER, PHILIPP, US
[72] BRAUER, ROBERT K., US
[72] SKELLY, TREVOR, US
[71] BE INTELLECTUAL PROPERTY, INC., US
[22] 2011-04-19
[41] 2011-10-27
[62] 2,796,589
[30] US (61/326,198) 2010-04-20
[30] US (61/346,835) 2010-05-20
[30] US (13/089,063) 2011-04-18

[21] **3,090,466**
[13] A1
[51] **Int.Cl. B65D 88/06 (2006.01) B65D 88/02 (2006.01) B65D 88/12 (2006.01)**
[25] EN
[54] **QUASI-CYLINDRICAL CARGO CONTAINER AND CONSTRUCTION**
[54]
[72] KLOEPFER, MICHAEL, CA
[71] TITAN TRAILERS INC., CA
[22] 2018-06-15
[41] 2019-03-28
[62] 3,069,573
[30] US (62/562,001) 2017-09-22
[30] CA (PCT/CA2017/051544) 2017-12-19

[21] **3,090,492**
[13] A1
[51] **Int.Cl. C07D 295/135 (2006.01) A61K 31/495 (2006.01) A61K 31/496 (2006.01) A61K 31/5375 (2006.01) A61P 29/00 (2006.01) C07D 211/46 (2006.01) C07D 295/185 (2006.01) C07D 405/12 (2006.01)**
[25] EN
[54] **CRMP2 SUMOYLATION INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE LA SUMOYLATION DE CRMP2 ET UTILISATIONS ASSOCIEES**
[72] KHANNA, MAY, US
[72] KHANNA, RAJESH, US
[72] GOKHALE, VIJAY, US
[72] CHAWLA, REENA, US
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, US
[22] 2016-10-07
[41] 2017-04-13
[62] 3,001,075
[30] US (62/238,182) 2015-10-07

[21] **3,090,530**
[13] A1
[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **FEMALE HARDENED OPTICAL CONNECTORS FOR USE WITH MALE PLUG CONNECTORS**
[54] **CONNECTEURS OPTIQUES DURCIS DE TYPE FEMELLE DESTINES A ETRE UTILISES AVEC DES CONNECTEURS MALES**
[72] BARNETTE, ROBERT ELVIN, JR., US
[72] TRAN, HIEU VINH, US
[71] CORNING OPTICAL COMMUNICATIONS LLC, US
[22] 2014-02-19
[41] 2014-09-04
[62] 2,902,570
[30] US (61/769,251) 2013-02-26
[30] US (13/833,176) 2013-03-15

[21] **3,090,537**
[13] A1
[51] **Int.Cl. G08B 21/02 (2006.01) G06T 7/194 (2017.01) G06T 7/73 (2017.01) A61B 5/11 (2006.01) G08B 21/04 (2006.01) G08B 25/00 (2006.01)**
[25] EN
[54] **FALL DETECTION AND REPORTING TECHNOLOGY**
[54] **DETECTION DES CHUTES ET TECHNOLOGIE DE SIGNALISATION**
[72] HANSON, MARK ANDREW, US
[72] MARTIN, JEAN-PAUL, US
[72] BARTH, ADAM T., US
[72] SILVERMAN, CHRISTOPHER, US
[71] ALARM.COM INCORPORATED, US
[22] 2012-04-04
[41] 2012-10-04
[62] 2,773,507
[30] US (61/471,495) 2011-04-04

[21] **3,090,548**
[13] A1
[51] **Int.Cl. C12N 5/0789 (2010.01) A61K 35/51 (2015.01) G16H 15/00 (2018.01) C40B 40/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PROVIDING HEMATOPOIETIC FUNCTION**
[54] **COMPOSITIONS ET PROCEDES POUR FOURNIR UNE FONCTION HEMATOPOIETIQUE**
[72] BERNSTEIN, IRWIN D., US
[72] DELANEY, COLLEEN, US
[71] FRED HUTCHINSON CANCER RESEARCH CENTER, US
[22] 2011-04-11
[41] 2011-10-13
[62] 2,795,938
[30] US (61/322,575) 2010-04-09

[21] **3,090,557**
[13] A1
[51] **Int.Cl. B23K 26/70 (2014.01) B23K 10/02 (2006.01) B23K 15/00 (2006.01) B23K 26/14 (2014.01) B23P 23/04 (2006.01)**
[25] EN
[54] **A MACHINE TOOL**
[54] **MACHINE-OUTIL**
[72] JONES, JASON B., GB
[72] COATES, PETER, GB
[71] EX SCINTILLA LIMITED, GB
[22] 2013-07-16
[41] 2014-01-23
[62] 2,877,982
[30] GB (1212629.8) 2012-07-16
[30] GB (1307796.1) 2013-04-30

[21] **3,090,574**
[13] A1
[51] **Int.Cl. B65D 88/06 (2006.01) B65D 88/02 (2006.01) B65D 88/12 (2006.01)**
[25] EN
[54] **QUASI-CYLINDRICAL CARGO CONTAINER AND CONSTRUCTION**
[54]
[72] KLOEPFER, MICHAEL, CA
[71] TITAN TRAILERS INC., CA
[22] 2018-06-15
[41] 2019-03-28
[62] 3,069,573
[30] US (62/562,001) 2017-09-22
[30] CA (PCT/CA2017/051544) 2017-12-19

[21] **3,090,583**
[13] A1
[51] **Int.Cl. B66B 9/08 (2006.01)**
[25] EN
[54] **LIFT SYSTEM**
[54]
[72] JAKES, JOHN STEWART, MC
[71] ACORN MOBILITY SERVICES LIMITED, GB
[22] 2012-10-17
[41] 2013-05-02
[62] 2,853,542
[30] GB (1118511.3) 2011-10-26

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,090,644**
[13] A1
[51] **Int.Cl. C12N 15/13 (2006.01) A61K 47/68 (2017.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **NUCLEIC ACIDS ENCODING HUMAN ANTIBODIES TO SIALYL-LEWISA**
[54] **ACIDES NUCLEIQUES CODANT DES ANTICORPS HUMAINS CONTRE SIALYL-LEWISA**
[72] SAWADA, RITSUKO, US
[72] SUN, SHU-MAN, US
[72] SCHOLZ, WOLFGANG, US
[71] BIONTECH RESEARCH AND DEVELOPMENT, INC., US
[22] 2014-08-26
[41] 2015-04-16
[62] 2,922,478
[30] US (61/870,137) 2013-08-26

---

[21] **3,090,650**
[13] A1
[51] **Int.Cl. A47L 15/44 (2006.01) B65D 47/06 (2006.01)**
[25] EN
[54] **PACKAGING CONCEPT FOR SOLID PRODUCTS**
[54] **CONCEPT DE CONDITIONNEMENT POUR PRODUITS SOLIDES**
[72] CONRAD, GREGORY SCOTT, US
[72] GILBERTSON, SARAH ELISE, US
[72] LIMBACK, SCOTT R., US
[72] OSTERBERG, DANIEL, US
[72] KING, GRETCHEN, US
[72] SCHULTZ, JEFFREY MICHAEL, US
[72] SWENSON, PETER, US
[72] MEIER, TIMOTHY, US
[71] ECOLAB USA INC., US
[22] 2016-04-15
[41] 2016-10-20
[62] 2,982,584
[30] US (62/148,463) 2015-04-16
[30] US (62/316,688) 2016-04-01

---

[21] **3,090,662**
[13] A1
[25] EN
[54] **CORRUGATED METAL PLATE AND OVERHEAD STRUCTURE INCORPORATING SAME**
[54] **PLAQUE METALLIQUE ONDULEE ET STRUCTURE AERIENNE COMPRENANT CELLE-CI**
[72] WILSON, MICHAEL W., CA
[71] ATLANTIC INDUSTRIES LIMITED, CA
[22] 2012-08-10
[41] 2013-02-21
[62] 2,844,820
[30] US (61/523,026) 2011-08-12
[30] US (61/594,367) 2012-02-02

---

[21] **3,090,677**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6837 (2018.01) C40B 40/06 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **PROLIFERATION SIGNATURE AND PROGNOSIS FOR GASTROINTESTINAL CANCER**
[54] **SIGNATURE DE PROLIFERATION ET PRONOSTIC DU CANCER GASTRO-INTESTINAL**
[72] ANJOMSHOAA, AHMAD, NZ
[72] REEVE, ANTHONY EDMUND, NZ
[72] LIN, YU-HSIN, NZ
[72] BLACK, MICHAEL A., NZ
[71] PACIFIC EDGE BIOTECHNOLOGY LTD, NZ
[22] 2008-10-06
[41] 2009-04-09
[62] 2,739,004
[30] NZ (562237) 2007-10-05

---

[21] **3,090,689**
[13] A1
[51] **Int.Cl. A63F 13/22 (2014.01) A63F 13/24 (2014.01)**
[25] EN
[54] **GAMES CONTROLLER**
[54] **UNITE DE COMMANDE DE JEUX**
[72] BURGESS, SIMON, GB
[72] IRONMONGER, DUNCAN, US
[71] IRONBURG INVENTIONS LIMITED, GB
[22] 2015-01-22
[41] 2015-07-30
[62] 2,968,456
[30] US (61/930,065) 2014-01-22

---

[21] **3,090,694**
[13] A1
[51] **Int.Cl. G01N 21/90 (2006.01) A61M 5/31 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING SYRINGE SEAL DEFECTS**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE DEFAUTS DE JOINT DE SERINGUE**
[72] RUSCH, GREG, US
[72] MURPHY, KEVIN N., US
[71] W.L. GORE & ASSOCIATES, INC., US
[22] 2017-01-13
[41] 2017-07-20
[62] 3,008,168
[30] US (62/279,009) 2016-01-15
[30] US (15/404,967) 2017-01-12

---

[21] **3,090,738**
[13] A1
[51] **Int.Cl. C07D 403/06 (2006.01) A61K 31/506 (2006.01) A61P 1/10 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **SYNTHESIS AND SALT FORMS OF (R)-5-((E)-2-(PYRROLIDIN-3-YLVINYL)PYRIMIDINE**
[54] **SYNTHESE ET LES FORMES SALINES DE (R)((E)(PYRROLIDIN-3-YLVINYL)PYRIMIDINE**
[72] AKIREDDY, SRINIVASA RAO, US
[72] BHATTI, BALWINDER SINGH, US
[72] CUTHBERTSON, TIMOTHY J., US
[72] DULL, GARY MAURICE, US
[72] MILLER, CRAIG HARRISON, US
[72] MITCHENER, JOSEPH PIKE, JR., US
[72] MUNOZ, JULIO A., US
[72] OTTEN, PIETER ALBERT, US
[71] OYSTER POINT PHARMA, INC., US
[22] 2009-11-30
[41] 2010-06-10
[62] 2,742,366
[30] US (61/118,796) 2008-12-01

[21] **3,090,757**
[13] A1
[51] **Int.Cl. B62D 55/104 (2006.01) B62D 55/04 (2006.01) B62D 55/07 (2006.01)**
[25] EN
[54] **SNOW VEHICLE**
[54] **VEHICULE DE NEIGE**
[72] MANGUM, ALLEN M., US
[72] TELFORD, CODY L., US
[72] YORK, JUSTIN R., US
[72] DRIGGARS, PHILLIP M., US
[71] POLARIS INDUSTRIES INC., US
[22] 2018-02-27
[41] 2018-09-03
[62] 2,996,760
[30] US (15/449467) 2017-03-03

[21] **3,090,761**
[13] A1
[51] **Int.Cl. A61K 31/405 (2006.01) A61K 47/52 (2017.01) A61K 47/64 (2017.01) A61K 9/48 (2006.01) A61P 25/28 (2006.01) G01N 30/86 (2006.01) G01N 33/483 (2006.01)**
[25] EN
[54] **IPA AS A THERAPEUTIC AGENT, AS A PROTECTIVE AGENT, AND AS A BIOMARKER OF DISEASE RISK**
[54] **IPA A TITRE D'AGENT THERAPEUTIQUE, D'AGENT DE PROTECTION, ET DE BIOMARQUEUR DE RISQUE DE MALADIE**
[72] MATSON, WAYNE, US
[71] IXCELA, INC., US
[22] 2013-03-26
[41] 2013-10-03
[62] 2,868,451
[30] US (61/616,984) 2012-03-28
[30] US (13/829,773) 2013-03-14

[21] **3,090,775**
[13] A1
[25] EN
[54] **METHOD OF REMOVING DEBLOCKING ARTIFACTS**
[54] **PROCEDE D'ELIMINATION D'ARTEFACTS DE DEBLOCAGE**
[72] JANG, MIN, KR
[71] INFOBRIDGE PTE. LTD., SG
[22] 2013-01-08
[41] 2013-07-18
[62] 2,978,151
[30] KR (10-2012-0002597) 2012-01-09

[21] **3,090,780**
[13] A1
[51] **Int.Cl. H04N 19/86 (2014.01) H04N 19/124 (2014.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01)**
[25] EN
[54] **METHOD OF APPLYING EDGE OFFSET**
[54] **PROCEDE D'APPLICATION D'UN DECALAGE DE BORD**
[72] JANG, MIN, KR
[71] INFOBRIDGE PTE. LTD., SG
[22] 2013-01-08
[41] 2013-07-25
[62] 2,996,158
[30] KR (10-2012-0005334) 2012-01-17

[21] **3,090,794**
[13] A1
[51] **Int.Cl. H04M 3/53 (2006.01) H04L 12/16 (2006.01) H04M 3/22 (2006.01) H04M 11/00 (2006.01)**
[25] EN
[54] **CALL RECORDING SYSTEM, CALL RECORDING METHOD, AND CALL RECORDING PROGRAM**
[54] **SYSTEME, PROCEDE ET PROGRAMME D'ENREGISTREMENT D'APPEL**
[72] NAGAI, KAZUKI, JP
[72] KATSUTA, YUKIE, JP
[71] NEC PLATFORMS, LTD., JP
[22] 2018-06-28
[41] 2019-03-07
[62] 3,038,962
[30] JP (2017-169659) 2017-09-04

[21] **3,090,801**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01) A61M 3/02 (2006.01)**
[25] EN
[54] **MEDICAL/SURGICAL LAVAGE UNIT WITH A TIP ASSEMBLY THAT INCLUDES AN IRRIGATION TUBE DISPOSED INSIDE A SUCTION TUBE AND THAT IS AXIALLY OFFSET FROM THE SUCTION TUBE**
[54] **UNITE DE LAVAGE MEDICALE/CHIRURGICALE AYANT UN ENSEMBLE POINTE COMPRENANT UN TUBE D'IRRIGATION DISPOSE A L'INTERIEUR D'UN TUBE D'ASPIRATION ET DECALE AXIALEMENT DU TUBE D'ASPIRATION**
[72] KIDMAN, BEAU, US
[72] PEREZ, IVAN MATOS, US
[72] HUNKE, CHRIS, US
[72] JOHNSTON, NEAL, US
[71] STRYKER CORPORATION, US
[22] 2013-12-05
[41] 2014-06-12
[62] 2,893,583
[30] US (61/733,989) 2012-12-06

[21] **3,090,809**
[13] A1
[51] **Int.Cl. G01D 5/12 (2006.01) C09D 11/52 (2014.01) B32B 7/025 (2019.01) B41M 5/50 (2006.01) H05K 3/12 (2006.01)**
[25] EN
[54] **TRANSPARENCY INCLUDING CONDUCTIVE MESH**
[54] **TRANSPARENT AVEC MAILLE CONDUCTRICE**
[72] UPRETY, KRISHNA K., US
[72] BIMANAND, ALEXANDER, US
[72] LAKDAWALA, KHUSHROO H., US
[71] PPG INDUSTRIES OHIO, INC., US
[22] 2016-11-03
[41] 2017-06-01
[62] 3,006,276
[30] US (62/260,151) 2015-11-25
[30] US (15/009,630) 2016-01-28

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,090,830**
[13] A1
[51] **Int.Cl. H04M 3/53 (2006.01) H04L 12/16 (2006.01) H04M 3/22 (2006.01) H04M 11/00 (2006.01)**
[25] EN
[54] **CALL RECORDING SYSTEM, CALL RECORDING METHOD, AND CALL RECORDING PROGRAM**
[54] **SYSTEME, PROCEDE ET PROGRAMME D'ENREGISTREMENT D'APPEL**
[72] NAGAI, KAZUKI, JP
[72] KATSUTA, YUKIE, JP
[71] NEC PLATFORMS, LTD., JP
[22] 2018-06-28
[41] 2019-03-07
[62] 3,038,962
[30] JP (2017-169659) 2017-09-04

[21] **3,090,848**
[13] A1
[51] **Int.Cl. G02C 7/10 (2006.01) B32B 7/023 (2019.01) G02B 5/22 (2006.01)**
[25] EN
[54] **EYEWEAR WITH CHROMA ENHANCEMENT**
[54] **OCULAIRE AYANT UNE AGGLOMERATION DE CHROMIE**
[72] MCCABE, BROCK SCOTT, US
[72] SAYLOR, RYAN, US
[72] REYES, CARLOS D., US
[71] OAKLEY, INC., US
[22] 2012-10-19
[41] 2013-05-16
[62] 2,852,520
[30] US (61/549,711) 2011-10-20
[30] US (61/645,543) 2012-05-10

[21] **3,090,849**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **MONOCLONAL ANTIBODIES AGAINST THE RGM A PROTEIN AND USES THEREOF**
[54] **ANTICORPS MONOCLONAUX DIRIGES CONTRE LA PROTEINE RGM A ET SES UTILISATIONS**
[72] MUELLER, BERNHARD K., DE
[72] SCHMIDT, MARTIN, DE
[72] BARLOW, EVE H., US
[72] LEDDY, MARY R., US
[72] HSIEH, CHUNG-MING, US
[72] BARDWELL, PHILLIP D., US
[71] ABBVIE INC., US
[71] ABBVIE DEUTSCHLAND GMBH & CO KG, DE
[22] 2009-02-27
[41] 2009-09-03
[62] 2,715,456
[30] US (61/032,707) 2008-02-29
[30] US (61/090,743) 2008-08-21

[21] **3,090,851**
[13] A1
[51] **Int.Cl. G01H 9/00 (2006.01) G03F 7/26 (2006.01) G03F 7/00 (2006.01)**
[25] EN
[54] **OPTICAL-FIBER-COMPATIBLE ACOUSTIC SENSOR**
[54] **CAPTEUR ACOUSTIQUE COMPATIBLE AVEC UNE FIBRE OPTIQUE**
[72] AKKAYA, ONUR CAN, US
[72] DIGONNET, MICHEL J. F., US
[72] KILIC, ONUR, US
[72] KINO, GORDON S., US
[72] SOLGAARD, OLAV, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[22] 2011-03-14
[41] 2011-09-22
[62] 3,013,169
[30] US (61/314090) 2010-03-15
[30] US (61/331303) 2010-05-04
[30] US (61/382385) 2010-09-13

[21] **3,090,853**
[13] A1
[51] **Int.Cl. C01G 17/04 (2006.01) C01B 9/00 (2006.01) C01G 23/04 (2006.01) H01L 31/0256 (2006.01) H01L 31/04 (2014.01) H01L 31/18 (2006.01) C09D 11/00 (2014.01)**
[25] EN
[54] **METHOD OF FORMULATING PEROVSKITE SOLAR CELL MATERIALS**
[54] **PROCEDE DE FORMULATION DE MATERIAUX DE CELLULE SOLAIRE A BASE DE PEROVSKITE**
[72] IRWIN, MICHAEL D., US
[72] CHUTE, JERRED A., US
[72] DHAS, VIVEK V., US
[71] HUNT PEROVSKITE TECHNOLOGIES, L.L.C., US
[22] 2015-07-30
[41] 2016-02-04
[62] 3,010,113
[30] US (62/032,137) 2014-08-01
[30] US (14/711,330) 2015-05-13

[21] **3,090,854**
[13] A1
[51] **Int.Cl. H04W 4/30 (2018.01) H04W 4/80 (2018.01)**
[25] EN
[54] **SYSTEMS, COMPUTER MEDIUM AND COMPUTER-IMPLEMENTED METHODS FOR MONITORING HEALTH OF EMPLOYEES USING MOBILE DEVICES**
[54] **SYSTEMES, SUPPORT INFORMATIQUE ET PROCEDES INFORMATIQUES POUR SURVEILLER LA SANTE D'EMPLOYES A L'AIDE DE DISPOSITIFS MOBILES**
[72] HORSEMAN, SAMANTHA J., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[22] 2012-07-03
[41] 2013-01-10
[62] 2,840,871
[30] US (61/504,638) 2011-07-05
[30] US (61/659,824) 2012-06-14
[30] US (61/659,790) 2012-06-14
[30] US (61/659,807) 2012-06-14
[30] US (61/659,818) 2012-06-14
[30] US (61/659,810) 2012-06-14
[30] US (61/659,831) 2012-06-14
[30] US (61/659,796) 2012-06-14
[30] US (61/659,800) 2012-06-14
[30] US (61/664,414) 2012-06-26
[30] US (61/664,387) 2012-06-26
[30] US (61/664,399) 2012-06-26
[30] US (13/540,300) 2012-07-02

[21] **3,090,856**
[13] A1
[51] **Int.Cl. B21B 19/14 (2006.01) B21D 19/00 (2006.01) B21D 41/00 (2006.01) F16L 9/02 (2006.01) F16L 19/028 (2006.01) F16L 23/024 (2006.01) F16L 23/08 (2006.01)**
[25] EN
[54] **PIPE ELEMENT HAVING SHOULDER, GROOVE AND BEAD AND METHODS AND APPARATUS FOR MANUFACTURE THEREOF**
[54] **ELEMENT DE TUYAU AYANT UN EPAULEMENT, UNE RAINURE ET UN BOURRELET ET PROCEDES ET APPAREIL PERMETTANT DE FABRIQUER CE DERNIER**
[72] NOVITSKY, MICHAEL R., US
[72] HAAS, EARL, US
[72] WILK, CHARLES E., JR., US
[72] MADARA, SCOTT D., US
[72] CUVO, ANTHONY J., US
[72] DOLE, DOUGLAS R., US
[71] VICTAULIC COMPANY, US
[22] 2011-11-30
[41] 2012-06-07
[62] 3,003,037
[30] US (61/418967) 2010-12-02
[30] US (61/530,771) 2011-09-02

[21] **3,090,908**
[13] A1
[51] **Int.Cl. C07K 1/16 (2006.01) A61K 47/54 (2017.01) C12N 9/64 (2006.01) C07K 1/107 (2006.01)**
[25] EN
[54] **RECOMBINANT VITAMIN K DEPENDENT PROTEINS WITH HIGH SIALIC ACID CONTENT AND METHODS OF PREPARING SAME**
[54] **PROTEINES DEPENDANTES DE LA VITAMINE K RECOMBINEES A TENEUR ELEVEE EN ACIDE SIALIQUE ET LEURS PROCEDES DE PREPARATION**
[72] DROHAN, WILLIAM N. (DECEASED), US
[72] GRIFFITH, MICHAEL J., US
[71] APTEVO BIOTHERAPEUTICS LLC, US
[22] 2008-04-28
[41] 2008-11-06
[62] 2,683,423
[30] US (60/914,281) 2007-04-26
[30] US (60/917,271) 2007-05-10

[21] **3,090,936**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) C07C 51/04 (2006.01) C07F 9/50 (2006.01)**
[25] EN
[54] **PROCESSES FOR THE PREPARATION OF AN APOPTOSIS-INDUCING AGENT**
[54] **TED PROCEDES DE PREPARATION D'UN AGENT INDUISANT L'APOPTOSE**
[72] BARKALOW, JUFANG, US
[72] CALIFANO, JEAN-CHRISTOPHE, US
[72] CHAN, VINCENT S., US
[72] CHRISTENSEN, ALAN C., US
[72] GRIEME, TIMOTHY A., US
[72] KU, YI-YIN, US
[72] MULHERN, MATHEW M., US
[72] PU, YU-MING M., US
[71] ABBVIE INC., US
[22] 2014-03-12
[41] 2014-10-09
[62] 2,903,797
[30] US (61/780,621) 2013-03-13
[30] US (61/947,850) 2014-03-04

[21] **3,090,957**
[13] A1
[25] EN
[54] **BREEDING, PRODUCTION, PROCESSING AND USE OF SPECIALTY CANNABIS**
[54]
[72] BACKES, MICHAEL DANE, US
[72] GIESE, MATTHEW, US
[72] LEWIS, MARK ANTHONY, US
[71] BIOTECH INSTITUTE, LLC, US
[22] 2014-07-15
[41] 2015-05-07
[62] 3,012,514
[30] US (61/897,074) 2013-10-29
[30] US (PCT/US2014/030267) 2014-03-17

[21] **3,090,977**
[13] A1
[25] EN
[54] **BLOWER ASSEMBLY AND METHOD**
[54]
[72] HALL, CRAIG R., US
[72] SHOEMAKER, NATHAN K., US
[72] ADAMSKI, STEPHEN A., US
[71] REVCOR, INC., US
[22] 2014-03-14
[41] 2015-09-11
[62] 2,846,613
[30] US (14/204,818) 2014-03-11

---

[21] **3,091,039**
[13] A1
[25] EN
[54] **AUTOCLAVE AND METHOD FOR REMOVING SALT FROM AUTOCLAVE**
[54] **AUTOCLAVE ET METHODE D'EXTRACTION DU SEL DE L'AUTOCLAVE**
[72] LEE, JE JOONG, KR
[71] KOREA ZINC CO., LTD., KR
[22] 2018-02-14
[41] 2019-06-12
[62] 3,036,026
[30] KR (10-2018-0017920) 2018-02-13

---

[21] **3,091,587**
[13] A1
[25] EN
[54] **A METHOD OF REGISTERING INERTIAL MEASUREMENT UNITS IN AN OPERATING ROOM**
[54] **UNE METHODE D'ENREGISTREMENT D'UNITES DE MESURE D'INERTIE DANS UNE SALLED'OPERATION**
[72] MAHFOUZ, MOHAMED R., US
[71] MAHFOUZ, MOHAMED R., US
[22] 2014-12-09
[41] 2015-06-18
[62] 2,933,235
[30] US (61/913,608) 2013-12-09
[30] US (61/951,221) 2014-03-11
[30] US (61/977,984) 2014-04-10
[30] US (62/022,899) 2014-07-10

Index of Canadian Patents Issued

September 15, 2020

Index des brevets canadiens délivrés

15 septembre 2020

Index des brevets canadiens délivrés
15 septembre 2020

Index of Canadian Patents Issued
September 15, 2020

Index des brevets canadiens délivrés
15 septembre 2020

Index of Canadian Patents Issued
September 15, 2020

Index des brevets canadiens délivrés
15 septembre 2020

Index of Canadian Patents Issued
September 15, 2020

Index des brevets canadiens délivrés
15 septembre 2020

Index of Canadian Patents Issued
September 15, 2020

Index des brevets canadiens délivrés
15 septembre 2020

Index of Canadian Patents Issued
September 15, 2020

Index des brevets canadiens délivrés
15 septembre 2020

Index of Canadian Applications Open to Public Inspection

August 30, 2020 to September 5, 2020

Index des demandes canadiennes mises à la disponibilité du public

30 août 2020 au 5 septembre 2020

Index des demandes canadiennes mises à la disponibilité du public
30 août 2020 au 5 septembre 2020

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 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 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 of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection