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CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

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

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

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Notices

1. Dates and Code Numerals Appearing in Patent Headings

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

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

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

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

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

Avis

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

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

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

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

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

2. Country Code

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

2. Code des pays

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

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

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

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Licensing of Patents

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

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

6. Octroi de licences en vertu des brevets

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

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

7. Patents Available for Licence or Sale

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

7. Brevets disponibles pour licence ou vente

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

8. List of Patents Available for Licence or Sale

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

None

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

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

Aucun

9. Applications Open to Public Inspection

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

9. Demandes mises à la disponibilité du public

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

10. Language of Published Documents

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

10. Langue du document publié

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

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

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

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

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

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

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

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

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

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

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

Preliminary Examination

5. Handling fee (Rule 57.2(*a*)) **$295**

6. Preliminary examination fee (Rule 58) **$800**

* International fees will be reduced by:

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

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

4. Taxe pour paiement tardif
50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

5. Taxe de traitement (Règle 57.2*a*)) **295 $**

6. Taxe d'examen préliminaire (Règle 58) **800 $**

* Les frais seront réduits de:

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

12. PCT Notices

Patent Cooperation Treaty (PCT)

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

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

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

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

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

Offices.

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

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

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

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

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

14. Correspondence Procedures

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

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

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

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

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

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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

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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 May 9, 2023 contains applications open to public inspection from April 23, 2023 to April 29, 2023.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 9 mai 2023 contient les demandes disponibles au public pour consultation pour la période du 23 avril 2023 au 29 avril 2023.

Canadian Patents Issued

May 9, 2023

Brevets canadiens délivrés

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[54] **PROCEDE ET SYSTEME SERVANT A PRODUIRE UN DOCUMENT AVEC DES RESULTATS DE RECHERCHE TENANT COMPTE DE REQUETES DU PRODUCTEUR ET/OU DU FOURNISSEUR DE CONTENU**
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[54] **MIGRATION-BASED ILLUMINATION DETERMINATION FOR AVA RISK ASSESSMENT**
[54] **DETERMINATION D'ECLAIRAGE BASEE SUR UNE MIGRATION POUR EVALUATION DE RISQUE A ANALYSE DE VALEUR MOYENNE**
[72] ALBERTIN, UWE, US
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[72] BANSAL, KRIS M., US
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[72] HOHLBAUM, ANDREAS, DE
[72] BAEHRE, ALEXANDRA, NL
[72] MATSCHINER, GABRIELE, DE
[72] CHRISTIAN, HANS-JUERGEN, DE
[72] KIRCHFLED, KLAUS, DE
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[54] **BRIDGE SPAN REPLACEMENT SYSTEM**
[54] **SYSTEME DE REMPLACEMENT DE TRAVEE DE PONT**
[72] CARNEY, MARK, CA
[72] DOUCET, ROB, CA
[72] EISSES, LARRY, CA
[73] WESTERN MECHANICAL ELECTRICAL MILLWRIGHT SERVICES LIMITED, CA
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[25] EN
[54] **A METHOD FOR IDENTIFICATION OF MICROBIAL ANTAGONISTS AGAINST PLANT PATHOGENS**
[54] **UNE METHODE D'IDENTIFICATION D'ANTAGONISTES MICROBIENS CONTRE DES AGENTS PATHOGENES DES PLANTES**
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[54] **METHOD AND APPARATUS FOR USING A PORTABLE TERMINAL**
[54] **METHODE ET APPAREIL POUR UTILISER UN TERMINAL PORTABLE**
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[54] **SYSTEME ET METHODE POUR GESTION HEMODYNAMIQUE EN BOUCLE FERMEE ADAPTABLE AU PATIENT**
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[25] EN
[54] **METHODS, SYSTEMS, AND DEVICES FOR MONITORING AND DISPLAYING MEDICAL PARAMETERS FOR A PATIENT**
[54] **PROCEDES, SYSTEMES ET DISPOSITIFS POUR CONTROLER ET AFFICHER LES PARAMETRES MEDICAUX D'UN PATIENT**
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[54] **PROCEDES ET COMPOSITIONS POUR L'ESTIMATION DE PATIENTS ATTEINTS D'INFERTILITE A L'AIDE D'UN MICRO-ARN ISSU D'UNE CELLULE IMMUNITAIRE**
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[72] REED, JANE L., US
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[54] **ANTIGENES CONSENSUS DE FILOVIRUS, CONSTRUCTIONS D'ACIDES NUCLEIQUES ET VACCINS A BASE DE CEUX-CI, ET LEURS METHODES D'UTILISATION**
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[54] **PLAQUETTE POUR ARCADE NASALE DE LUNETTES ET SYSTEME DE RACCORD ENTRE TIGE ET PLAQUETTE DANS UNE ARCADE NASALE DE LUNETTES**
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[72] WANG, AIKUN, CA
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[54] **FORMES CRISTALLINES D'UN INHIBITEUR DE PROLYLE HYDROXYLASE DE L'ACIDE [(4-HYDROXY-1-METHYL-7-PHENOXY-ISOQUINOLEINE-3-CARBONYLE)-AMINO]-ACETIQUE**
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[72] THOMPSON, MICHAEL D., US
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[72] YEOWELL, DAVID A., US
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[73] FIBROGEN, INC., US
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[72] BAROS, DAVOR, CA
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[72] CHEUNG, KIN, CA
[72] POULIN, MATHIEU, CA
[72] HADDOCK, MICHAEL, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2893336)
[87] (2893336)
[22] 2015-06-02
[30] US (14/499,883) 2014-09-29

[11] **2,893,549**
[13] C
[51] **Int.Cl. C12N 5/09 (2010.01) A01K 67/027 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01) C12N 15/06 (2006.01) C12N 15/07 (2006.01) C12Q 1/02 (2006.01) C12Q 1/06 (2006.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01)**
[25] EN
[54] **ACCELERATED PREDICTION OF CANCER PROGRESSION AND RESPONSE TO TREATMENT**
[54] **PREDICTION ACCELEREE DE LA PROGRESSION DU CANCER ET DE LA REPONSE A UN TRAITEMENT**
[72] SINHA, INDRAJIT, CA
[73] BIOMEDCORE INC., CA
[85] 2015-06-02
[86] 2013-12-02 (PCT/IB2013/060580)
[87] (WO2014/083555)
[30] US (61/732,375) 2012-12-02

[11] **2,893,775**
[13] C
[51] **Int.Cl. H04L 41/06 (2022.01) H04L 67/12 (2022.01) H04L 67/563 (2022.01)**
[25] EN
[54] **COMMUNICATION METHOD IN A COMMUNICATION SEGMENT OF A NETWORK**
[54] **PROCEDE DE COMMUNICATION DANS UN SEGMENT DE COMMUNICATION D'UN RESEAU**
[72] BARON, JULIEN, FR
[72] LAINE, JEROME, FR
[72] GREGOIRE, CHRISTIAN, FR
[72] SAGOT, PIERRE, FR
[72] HOUDUSSE, JEAN-PIERRE, FR
[73] SERCEL, FR
[86] (2893775)
[87] (2893775)
[22] 2015-06-03
[30] EP (14305926.9) 2014-06-17

[11] **2,894,239**
[13] C
[51] **Int.Cl. A61K 38/40 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **METHOD OF TREATMENT OF HYPOXIA INDUCIBLE FACTOR (HIF)-RELATED CONDITIONS**
[54] **METHODE DE TRAITEMENT DE MALADIES ASSOCIEES AU FACTEUR INDUCTIBLE PAR HYPOXIE (HIF)**
[72] ROSS, DAVID A., US
[72] CRUMRINE, RALPH CHRISTIAN, US
[73] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[86] (2894239)
[87] (2894239)
[22] 2015-06-11
[30] US (62/023.446) 2014-07-11

[11] **2,894,906**
[13] C
[51] **Int.Cl. H01M 50/548 (2021.01) H01M 10/44 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **ELECTRICITY CHARGING/DISCHARGING DEVICE WITH MULTIPLE-SIDED ELECTRIC CONDUCTIVE TERMINALS**
[54] **DISPOSITIF DE CHARGE/DECHARGE D'ELECTRICITE COMPORTANT DES BORNES CONDUCTRICES A PLUSIEURS COTES**
[72] YANG, TAI-HER, TW
[73] YANG, TAI-HER, CN
[86] (2894906)
[87] (2894906)
[22] 2015-06-19
[30] US (14/310,498) 2014-06-20
[30] US (14/310,517) 2014-06-20
[30] US (14/310,542) 2014-06-20

[11] **2,894,951**
[13] C
[51] **Int.Cl. A61K 39/08 (2006.01)**
[25] EN
[54] **IMMUNOGENIC COMPOSITION COMPRISING ELEMENTS OF C. DIFFICILE CDTB AND/OR CDTA PROTEINS**
[54] **COMPOSITION IMMUNOGENE COMPRENANT DES ELEMENTS DES PROTEINES CDTB ET/OU CDTA DE C. DIFFICILE**
[72] CASTADO, CINDY, BE
[73] GLAXOSMITHKLINE BIOLOGICALS S.A., BE
[85] 2015-06-12
[86] 2013-12-20 (PCT/EP2013/077762)
[87] (WO2014/096393)
[30] GB (1223342.5) 2012-12-23

[11] **2,895,101**
[13] C
[51] **Int.Cl. F21K 9/00 (2016.01) F21S 2/00 (2016.01) F21V 23/00 (2015.01)**
[25] EN
[54] **LUMINAIRE WITH LONG CHAINS OF LOW POWER LEDS AND MULTIPLE ON-BOARD LED DRIVERS**
[54] **LUMINAIRE A CHAINES LONGUES DE DIODES ELECTROLUMINESCENTES DE FAIBLE PUISSANCE ET PLUSIEURS PILOTES DE DIODE ELECTROLUMINESCENTE EMBARQUES**
[72] SCHUBERT, TRAVIS MEYERS, US
[72] HUTCHENS, DANIEL, US
[72] WRIGHT, TRAVIS MONTGOMERY, US
[72] BOYER, JOHN D., US
[73] LSI INDUSTRIES, INC., US
[86] (2895101)
[87] (2895101)
[22] 2015-06-22
[30] US (14/480,434) 2014-09-08

[11] **2,895,731**
[13] C
[51] **Int.Cl. G01D 1/18 (2006.01) G01D 1/14 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING THRESHOLD BASELINES BASED UPON RECEIVED MEASUREMENTS**
[54] **METHODE ET APPAREIL SERVANT A DETERMINER LES REFERENCES D'UN SEUIL EN FONCTION DES MESURES RECUES**
[72] ZATYLNY, KARLO MARTIN, US
[72] BELZA LUKAS, CZ
[72] SUSIL, MARTIN, CZ
[72] DERHALLY, ZEID ADLY, US
[72] CHOPRA, SUSAN ALLISON, US
[73] SOLARWINDS WORLDWIDE, LLC, US
[86] (2895731)
[87] (2895731)
[22] 2015-06-26
[30] US (14/331,969) 2014-07-15

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[13] C
[51] **Int.Cl. G06F 16/11 (2019.01) G06F 12/16 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CREATING A FILTERED REPRESENTATION OF SECONDARY DATA**
[54] **PROCEDE ET SYSTEME DE CREATION D'UNE REPRESENTATION FILTREE DE DONNEES SECONDAIRES**
[72] VARADHARAJAN, PRAKASH, US
[72] MUTHA, MANAS BHIKCHAND, US
[72] DHATRAK, VINIT DILIP, US
[72] BEDADALA, PAVAN KUMAR REDDY, US
[72] KAPADIA, HETAL, US
[73] COMMVAULT SYSTEMS, INC., US
[85] 2015-06-19
[86] 2013-12-13 (PCT/US2013/075154)
[87] (WO2014/099679)
[30] US (61/745,208) 2012-12-21
[30] US (13/791,018) 2013-03-08
[30] US (13/791,043) 2013-03-08

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[13] C
[51] **Int.Cl. B60R 9/10 (2006.01)**
[25] EN
[54] **VEHICULAR RACK HAVING MODULAR DESIGN WITH OUTSIDE HANDLE AND QUICK RELEASE**
[54] **SUPPORT MODULAIRE DE VEHICULE DOTE D'UNE POIGNEE EXTERIEURE ET D'UN MECANISME DE LIBERATION RAPIDE**
[72] PRESCOTT, KEITH L., US
[72] EDGERLY, JEFFREY R., US
[73] THULE SWEDEN AB, SE
[86] (2897549)
[87] (2897549)
[22] 2015-07-17
[30] US (62/048,257) 2014-09-09

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[11] **2,897,604**
[13] C
[51] **Int.Cl. A23C 19/076 (2006.01) A23C 19/02 (2006.01) A23C 19/06 (2006.01)**
[25] EN
[54] **SMOOTH COTTAGE CHEESE AND COTTAGE CHEESE PRODUCT, PROCESS AND METHOD**
[54] **FROMAGE COTTAGE LISSE ET PRODUIT DE FROMAGE COTTAGE, PROCEDE ET METHODE**
[72] LUO, GANJUAN, CA
[73] GAY LEA FOODS CO-OPERATIVE LTD., CA
[86] (2897604)
[87] (2897604)
[22] 2015-07-17

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[11] **2,902,530**
[13] C
[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **SITE-SPECIFIC ANTIBODY-DRUG CONJUGATION THROUGH GLYCOENGINEERING**
[54] **CONJUGAISON ANTICORPS-MEDICAMENT SPECIFIQUE D'UN SITE PAR GLYCO-INGENIERIE**
[72] PAN, CLARK, US
[72] ZHOU, QUN, US
[72] STEFANO, JAMES, US
[72] DHAL, PRADEEP, US
[72] CHEN, BO, US
[72] GIANOLIO, DIEGO, US
[72] MILLER, ROBERT, US
[72] QIU, HUAWEI, US
[73] GENZYME CORPORATION, US
[85] 2015-08-25
[86] 2014-03-10 (PCT/US2014/022728)
[87] (WO2014/164534)
[30] US (61/776,710) 2013-03-11
[30] US (61/776,724) 2013-03-11
[30] US (61/776,715) 2013-03-11

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[11] **2,904,695**
[13] C
[51] **Int.Cl. F01D 9/02 (2006.01) F02C 9/16 (2006.01)**
[25] EN
[54] **GAS TURBINE ENGINE WITH PARTIAL INLET VANE**
[54] **TURBINE A GAZ AYANT UNE AUBE D'ENTREE PARTIELLE**
[72] YU, HONG, CA
[72] TOWNSEND, PETER, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2904695)
[87] (2904695)
[22] 2015-09-16
[30] US (14/493,785) 2014-09-23

[11] **2,905,545**
[13] C
[51] **Int.Cl. A61K 8/37 (2006.01) A61Q 17/00 (2006.01) A61Q 17/04 (2006.01) A61Q 19/00 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **COMPOUND COMPRISING (R)-3-HYDROXYBUTYRATE MOIETIES FOR USE IN PROTECTING SKIN**
[54] **COMPOSE COMPRENANT DES PARTIES DE (R)-3-HYDROXYBUTYRATE A UTILISER DANS LA PROTECTION DE LA PEAU**
[72] CLARKE, KIERAN, GB
[72] VEECH, RICHARD LEWIS, US
[73] TDELTAS LIMITED, GB
[73] GOVERNMENT OF THE USA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2015-09-11
[86] 2013-09-16 (PCT/EP2013/069189)
[87] (WO2014/139599)
[30] GB (1304467.2) 2013-03-12

[11] **2,907,873**
[13] C
[51] **Int.Cl. G08G 5/06 (2006.01) H04W 4/38 (2018.01) G08G 5/00 (2006.01) H04B 3/54 (2006.01)**
[25] EN
[54] **TAXIING AIRCRAFT VICINITY VISUALIZATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE VISUALISATION DE VOISINAGE D'AERONEF ROULANT**
[72] PURPURA, WILLIAM JOSEPH, US
[73] THE BOEING COMPANY, US
[85] 2015-09-23
[86] 2014-03-18 (PCT/US2014/031077)
[87] (WO2014/178955)
[30] US (13/887,062) 2013-05-03

[11] **2,908,405**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 35/12 (2015.01) A61P 31/12 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **EXPRESSION OF HIV INHIBITORS BY MESENCHYMAL STEM CELLS**
[54] **EXPRESSION D'INHIBITEURS DU VIH PAR DES CELLULES SOUCHES MESENCHYMATEUSES**
[72] BRAUN, STEPHEN E., US
[72] MONDAL, DEBASIS, US
[72] BUNNELL, BRUCE A., US
[72] LEE, NARAE, US
[73] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US
[85] 2015-09-30
[86] 2014-04-03 (PCT/US2014/032832)
[87] (WO2014/165677)
[30] US (61/808,097) 2013-04-03

[11] **2,908,734**
[13] C
[51] **Int.Cl. G07C 9/27 (2020.01) E05B 47/00 (2006.01)**
[25] EN
[54] **SELF-PROVISIONING ACCESS CONTROL**
[54] **CONTROLE D'ACCES D'AUTOAPPROVISIONNEMENT**
[72] NEELY, E. TERRY (DECEASED), US
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2015-10-02
[86] 2014-03-13 (PCT/US2014/026177)
[87] (WO2014/165305)
[30] US (13/855,543) 2013-04-02

[11] **2,910,151**
[13] C
[51] **Int.Cl. E04H 13/00 (2006.01) A61G 17/08 (2006.01)**
[25] EN
[54] **MEMORIAL OBJECT AND METHOD OF MAKING THE SAME**
[54] **OBJET DE MONUMENT COMMEMORATIF ET PROCEDE DE FABRICATION ASSOCIE**
[72] BISSON, DIANE, CA
[73] LES ESPACES MEMORIA INC., CA
[73] 12516420 CANADA INC., CA
[86] (2910151)
[87] (2910151)
[22] 2015-10-22
[30] CA (2,868,552) 2014-10-22

[11] **2,913,343**
[13] C
[51] **Int.Cl. G06K 19/07 (2006.01) A63B 71/06 (2006.01) G06K 7/10 (2006.01) G06K 19/077 (2006.01) H04B 1/38 (2015.01) H04B 5/00 (2006.01)**
[25] EN
[54] **OBJECT TRACKING SYSTEM OPTIMIZATION AND TOOLS**
[54] **OPTIMISATION D'UN SYSTEME DE POURSUITE D'OBJETS, ET OUTILS**
[72] DEANGELIS, DOUGLAS J., US
[72] EVANSEN, EDWARD G., US
[72] REILLY, GERARD M., US
[72] RHODES, BRIAN D., US
[72] GAUDREAU, JOSEPH M., US
[72] SIGEL, KIRK M., US
[72] FARKAS, ALEXANDER T., US
[73] ISOLYNX, LLC, US
[85] 2015-11-23
[86] 2014-06-04 (PCT/US2014/040914)
[87] (WO2014/197600)
[30] US (61/830,961) 2013-06-04
[30] US (61/900,786) 2013-11-06
[30] US (61/930,378) 2014-01-22
[30] US (61/945,559) 2014-02-27
[30] US (61/971,940) 2014-03-28

[11] **2,914,696**
[13] C
[51] **Int.Cl. G02C 13/00 (2006.01) A61B 3/11 (2006.01)**
[25] FR
[54] **METHOD FOR DETERMINING AT LEAST ONE VALUE OF A PARAMETER FOR CUSTOMISING A VISUAL COMPENSATION DEVICE**
[54] **PROCEDE DE DETERMINATION D'AU MOINS UNE VALEUR D'UN PARAMETRE DE PERSONNALISATION D'UN EQUIPEMENT DE COMPENSATION VISUELLE**
[72] HADDADI, AHMED, FR
[72] BERTHEZENE, MARIE-ANNE, FR
[72] POULAIN, ISABELLE, FR
[72] PETIGNAUD, CECILE, FR
[72] LEVRAUD, LOIC, FR
[72] GAYAT, SEBASTIEN, FR
[72] DIVO, FABIEN, FR
[72] ROUSSEAU, BENJAMIN, FR
[73] ESSILOR INTERNATIONAL, FR
[85] 2015-12-07
[86] 2014-06-03 (PCT/FR2014/051309)
[87] (WO2014/195623)
[30] FR (1301309) 2013-06-07

[11] **2,915,408**
[13] C
[51] **Int.Cl. F16J 15/12 (2006.01) F16K 3/24 (2006.01)**
[25] EN
[54] **SEAL ASSEMBLIES FOR USE WITH FLUID VALVES**
[54] **ENSEMBLES JOINTS A UTILISER AVEC DES SOUPAPES DE FLUIDE**
[72] MANN, J. ADIN, US
[72] ANDERSON, SHAWN W., US
[73] FISHER CONTROLS INTERNATIONAL LLC, US
[85] 2015-12-11
[86] 2014-06-18 (PCT/US2014/042868)
[87] (WO2014/205033)
[30] US (13/920,730) 2013-06-18

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[11] **2,916,862**
[13] C
[51] **Int.Cl. G02F 1/163 (2006.01) G09G 3/34 (2006.01)**
[25] EN
[54] **CONTROLLING TRANSITIONS IN OPTICALLY SWITCHABLE DEVICES**
[54] **COMMANDE DE TRANSITIONS DANS DES DISPOSITIFS OPTIQUEMENT COMMUTABLES**
[72] JACK, GORDON, US
[72] KAILASAM, SRIDHAR K., US
[72] BROWN, STEPHEN C., US
[72] PRADHAN, ANSHU A., US
[73] VIEW, INC., US
[85] 2015-12-23
[86] 2014-06-20 (PCT/US2014/043514)
[87] (WO2014/209812)
[30] US (13/931,459) 2013-06-28

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[13] C
[51] **Int.Cl. B62B 3/04 (2006.01) B62B 3/00 (2006.01) B62B 5/06 (2006.01)**
[25] EN
[54] **STAGING CART FOR TRANSPORTING MATTRESSES**
[54] **CHARIOT SERVANT AU TRANSPORT DE MATELAS**
[72] JAN, FRANCIS G., US
[73] DREAMWELL, LTD., US
[86] (2917406)
[87] (2917406)
[22] 2016-01-12
[30] US (62/106,953) 2015-01-23

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[13] C
[51] **Int.Cl. E04B 1/61 (2006.01) E04B 1/38 (2006.01)**
[25] EN
[54] **PANEL FASTENERS**
[54] **DISPOSITIFS DE FIXATION DE PANNEAU**
[72] FINKELSTEIN, BURL M., US
[72] MITCHELL, BRETT A., US
[73] KASON INDUSTRIES, INC., US
[86] (2917753)
[87] (2917753)
[22] 2016-01-15
[30] US (14/599,196) 2015-01-16

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[11] **2,918,955**
[13] C
[51] **Int.Cl. C07H 19/048 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING NICOTINAMIDE RIBOSIDE AND DERIVATIVES THEREOF**
[54] **PROCEDES DE PREPARATION DE NICOTINAMIDE RIBOSIDE ET DE SES DERIVES**
[72] MIGAUD, MARIE, GB
[72] REDPATH, PHILIP, GB
[72] CROSSEY, KERRI, GB
[72] DOHERTY, MARK, GB
[73] THE QUEEN'S UNIVERSITY OF BELFAST, GB
[85] 2016-01-21
[86] 2014-07-24 (PCT/EP2014/065971)
[87] (WO2015/014722)
[30] GB (1313465.5) 2013-07-29

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[13] C
[51] **Int.Cl. A61B 6/00 (2006.01) A61B 5/00 (2006.01) A61B 18/12 (2006.01)**
[25] EN
[54] **COMPENSATION FOR HEART MOVEMENT USING CORONARY SINUS CATHETER IMAGES**
[54] **COMPENSATION DU MOUVEMENT CARDIAQUE AU MOYEN D'IMAGES PRISES PAR CATHETER DE SINUS CORONAIRE**
[72] BAR-TAL, MEIR, IL
[72] PEREZ, OMRI, IL
[72] HARUVI, AIA, IL
[72] KOHEN, GAY, IL
[73] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[86] (2919799)
[87] (2919799)
[22] 2016-02-03
[30] US (14/621,570) 2015-02-13

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[13] C
[51] **Int.Cl. A47K 5/12 (2006.01) B67D 7/02 (2010.01) B65D 47/34 (2006.01) F04B 9/14 (2006.01)**
[25] EN
[54] **LIQUID DISPENSER WITH REMOVABLE MOBILE DISPENSER**
[54] **DISTRIBUTEUR DE LIQUIDE DOTE D'UN DISTRIBUTEUR MOBILE AMOVIBLE**
[72] OPHARDT, HEINER, CH
[72] DUNCAN, DAVID R., CA
[73] OP-HYGIENE IP GMBH, CH
[86] (2919940)
[87] (2919940)
[22] 2016-02-04
[30] CA (2,882,828) 2015-02-24

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[13] C
[51] **Int.Cl. G06Q 20/36 (2012.01) G06Q 20/12 (2012.01)**
[25] EN
[54] **OPEN PAYMENT NETWORK**
[54] **RESEAU DE PAIEMENT OUVERT**
[72] VAISH, TUSHAR, US
[72] CAMPOS, TOMAS, US
[72] GIONFRIDDO, MIKE, US
[73] BLACKHAWK NETWORK, INC., US
[85] 2016-02-11
[86] 2014-08-13 (PCT/US2014/050967)
[87] (WO2015/023800)
[30] US (61/865,533) 2013-08-13

[11] **2,922,179**
[13] C
[51] **Int.Cl. B65D 43/02 (2006.01) B65D 50/00 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT CLOSURE WITH TAMPER BAND**
[54] **FERMETURE LEGERE DOTEE D'UNE BANDE INVIOLABLE**
[72] KIM, SUNGSUK STEVE, US
[73] SILGAN WHITE CAP LLC, US
[86] (2922179)
[87] (2922179)
[22] 2016-03-01
[30] US (14/709,198) 2015-05-11

[11] **2,922,702**
[13] C
[51] **Int.Cl. F16L 53/38 (2018.01) E03B 7/12 (2006.01)**
[25] EN
[54] **APPARATUS AND ASSEMBLY FOR HEATING PIPES**
[54] **APPAREIL ET PROCEDE DE CHAUFFAGE DE TUYAUX**
[72] HEISE, LORNE R., CA
[73] HEAT-LINE CORPORATION, CA
[86] (2922702)
[87] (2922702)
[22] 2016-03-04
[30] US (62/128,847) 2015-03-05

[11] **2,922,792**
[13] C
[51] **Int.Cl. H01B 13/008 (2006.01) H01B 7/38 (2006.01) H02G 1/12 (2006.01) G06Q 50/04 (2012.01)**
[25] EN
[54] **CABLE PROCESSING MACHINE MONITORING WITH IMPROVED PRECISION MECHANISM FOR CABLE PROCESSING**
[54] **SURVEILLANCE DE MACHINE DE TRAITEMENT DE CABLE OFFRANT UN MECANISME DE PRECISION AMELIORE POUR LE TRAITEMENT DE CABLE**
[72] AYABAKAN, MUSTAFA, DE
[72] STIER, MARTIN, DE
[73] SCHLEUNIGER AG, CH
[86] (2922792)
[87] (2922792)
[22] 2016-03-04
[30] EP (15158893.6) 2015-03-12

[11] **2,924,134**
[13] C
[51] **Int.Cl. H01Q 3/46 (2006.01) H01Q 21/00 (2006.01)**
[25] EN
[54] **A WAVE SHAPING DEVICE, AN ELECTRONIC DEVICE, AND A SYSTEM**
[54] **DISPOSITIF DE MISE EN FORME D'ONDE, DISPOSITIF ELECTRONIQUE ET SYSTEME**
[72] FINK, MATHIAS, FR
[72] LEROSEY, GEOFFROY, FR
[72] DUPRE, MATTHIEU, FR
[72] KAINA, NADEGE, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS, FR
[73] UNIVERSITE PARIS CITE, FR
[85] 2016-03-11
[86] 2014-04-02 (PCT/EP2014/056568)
[87] (WO2015/039769)
[30] FR (13 58955) 2013-09-18

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[13] C
[51] **Int.Cl. C21D 9/08 (2006.01)**
[25] EN
[54] **HEAT TREATED COILED TUBING**
[54] **TUBAGE EN SERPENTIN TRAITE A CHAUD**
[72] VALDEZ, MARTIN, AR
[72] MITRE, JORGE, US
[73] TENARIS COILED TUBES, LLC, US
[86] (2924927)
[87] (2924927)
[22] 2016-03-24
[30] US (62/139,536) 2015-03-27

[11] **2,926,190**
[13] C
[51] **Int.Cl. A61K 39/102 (2006.01)**
[25] EN
[54] **HAEMOPHILUS PARASUIS VACCINE SEROVAR TYPE FOUR**
[54] **VACCIN CONTRE HAEMOPHILUS PARASUIS, SEROTYPE 4**
[72] LAWRENCE, PAULRAJ KIRUBAKARAN, US
[72] BEY, RUSSELL F., US
[73] NEWPORT LABORATORIES, INC., US
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[54] **LOOSEFILL INSULATION BLOWING MACHINE HAVING A CHUTE SHAPE**
[54] **MACHINE DE SOUFFLAGE D'ISOLANT EN VRAC AYANT UNE FORME DE GOULOTTE**
[72] COOK, DAVID M., US
[72] JENKINS, TODD, US
[72] CRISP, RYAN S., US
[72] STAATS, SHANNON D., US
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
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[30] US (14/993,376) 2016-01-12

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[54] **TRACHEAL TUBE AND SUCTION DEVICE**
[54] **TUBE TRACHEAL ET DISPOSITIF D'ASPIRATION**
[72] WANG, BENJAMIN R., US
[72] CARRISON, HAROLD F., US
[73] NEVAP, INC., US
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[54] **CLOSURE SEAL FOR ELECTRICAL ADAPTOR**
[54] **JOINT DE FERMETURE POUR ADAPTATEUR ELECTRIQUE**
[72] BERENGUT, JON, AU
[72] KRATZER, OLIVER CLEMENS ROBERT, AU
[72] MORTON, JAMES, AU
[73] AMPFIBIAN HOLDINGS PTY LTD, AU
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[25] EN
[54] **REMOVAL OF INFLUENZA NUCLEAR PROTEIN (NP) FROM INFLUENZA VIRUS PREPARATIONS**
[54] **ELIMINATION DE LA NUCLEOPROTEINE DE LA GRIPPE DANS LES PREPARATIONS DE VIRUS DE LA GRIPPE**
[72] NORMAN, CARNLEY, US
[72] SUDA, ERIC, US
[72] DOWLESS, KAYLA, US
[72] ASTIGARRAGA, RUIZ, US
[72] BASTEK, PATRICK, US
[72] YANNONE, VAISHALI, US
[73] NOVARTIS AG, CH
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[25] EN
[54] **METHOD AND APPARATUS FOR VERIFYING BATTERY AUTHENTICITY**
[54] **DISPOSITIF ET PROCEDE POUR VERIFIER L'AUTENTICITE D'UNE BATTERIE**
[72] MOORE, WILLIAM PETER, US
[72] FLOYD, STEVEN ROGER, US
[73] RADIO SYSTEMS CORPORATION, US
[85] 2016-05-26
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[54] **CHECK VALVE**
[54] **CLAPET ANTIRETOUR**
[72] NELSON, DAVID, US
[73] ICU MEDICAL, INC., US
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[54] **APPARATUS FOR RESPIRATING OF PATIENTS.**
[54] **APPAREIL POUR LA RESPIRATION DE PATIENTS.**
[72] WESTERKAMP, BART, NL
[73] LOWENSTEIN MEDICAL TECHNOLOGY S.A., LU
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[25] EN
[54] **BETA-HAIRPIN PEPTIDOMIMETICS AS SELECTIVE ELASTASE INHIBITORS**
[54] **BETA-PEPTIDOMIMETIQUES EN EPINGLE A CHEVEUX COMME INHIBITEURS SELECTIFS DE L'ELASTASE**
[72] GOMBERT, FRANK OTTO, CH
[72] OBRECHT, DANIEL, CH
[72] SELLIER-KESSLER, ODILE, FR
[72] LEDERER, ALEXANDER, CH
[72] LUDIN, CHRISTIAN, CH
[72] SCHMITT-BILLET, MANUELLA, FR
[72] WEINBRENNER, STEFFEN, DE
[73] POLYPHOR AG, CH
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[25] EN
[54] **METHODS AND SYSTEMS OF SECURE CONNECTIONS FOR JOINING HYBRID CELLULAR AND NON-CELLULAR NETWORKS**
[54] **PROCEDES ET SYSTEMES DE CONNEXION SECURISEE POUR RELIER DES RESEAUX CELLULAIRE HYBRIDE ET NON CELLULAIRE**
[72] BHARGAVA, VIDUR, US
[72] HENDERSON, ERIC KORD, US
[72] FELDMAN, PETER MATTHEW, US
[73] M87, INC., US
[85] 2016-06-13
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[25] EN
[54] **METHODS, SYSTEMS AND COMPOSITIONS RELATING TO CELL CONVERSION VIA PROTEIN-INDUCED IN-VIVO CELL REPROGRAMMING**
[54] **PROCEDES, SYSTEMES ET COMPOSITIONS ASSOCIES A UNE CONVERSION DE CELLULES PAR L'INTERMEDIAIRE D'UNE REPROGRAMMATION CELLULAIRE IN-VIVO INDUITE PAR PROTEINES**
[72] WANG, JIANJUN, US
[72] LI, QIANQIAN, US
[72] CHOPP, MICHAEL, US
[72] JIANG, FENG, US
[72] WU, GUOJUN, US
[73] QURGEN, INC., US
[73] WAYNE STATE UNIVERSITY, US
[85] 2016-04-22
[86] 2014-10-27 (PCT/US2014/062400)
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[25] EN
[54] **METHODS AND ORGANISMS WITH INCREASED CARBON FLUX EFFICIENCIES**
[54] **METHODES ET ORGANISMES A RENDEMENTS DE FLUX DE CARBONE ACCRUS**
[72] BURGARD, ANTHONY P., US
[72] OSTERHOUT, ROBIN E., US
[72] VAN DIEN, STEPHEN J., US
[72] PHARKYA, PRITI, US
[72] YANG, TAE HOON, US
[72] CHOI, JUNGIK, US
[73] GENOMATICA, INC., US
[85] 2016-06-23
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[54] **PULP LIFTER ASSEMBLY WITH INTERNAL WALL**
[54] **DISPOSITIF DE SOULEVEMENT DE PATE DOTE D'UNE PAROI INTERNE**
[72] BHATTACHARJEE, TAPASH K., ZA
[72] KUMAR, PRAMOD, CA
[72] MCPHEE, ROBERT MICHAEL, CA
[73] POLYCORP LTD., CA
[86] (2935241)
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[54] **PHARMACEUTICAL COMPOSITIONS FOR POORLY WATER-SOLUBLE COMPOUNDS**
[54] **COMPOSITIONS PHARMACEUTIQUES POUR COMPOSES FAIBLEMENT HYDROSOLUBLES**
[72] HUANG, JINGJUN, US
[72] TOMINAGA, KAORU, US
[72] YU, HUI, US
[73] ASCENDIA PHARMACEUTICALS, LLC, US
[85] 2016-06-28
[86] 2014-12-30 (PCT/US2014/072704)
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[25] EN
[54] **ALGAL BASED EDIBLE VACCINES**
[54] **VACCINS COMESTIBLES A BASE D'ALGUES**
[72] CHEN, OFRA, IL
[73] TRANSALGAE ISRAEL LTD., IL
[85] 2016-06-30
[86] 2015-02-12 (PCT/IL2015/050166)
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[51] **Int.Cl. H04W 72/40 (2023.01)**
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[54] **COMMUNICATIONS DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE COMMUNICATION**
[72] MARTIN, BRIAN ALEXANDER, GB
[73] SONY CORPORATION, JP
[85] 2016-07-07
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[54] **COMPOSITE IRON PELLETS**
[54] **BOULETTES DE FER COMPOSITES**
[72] SADDIK, MOHAMED BAHGAT, SA
[73] SAUDI BASIC INDUSTRIES CORPORATION, SA
[85] 2016-07-21
[86] 2015-01-28 (PCT/IB2015/050662)
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[25] EN
[54] **SOLID PHARMACEUTICAL COMPOSITIONS COMPRISING BIOPTERIN DERIVATIVES AND USES OF SUCH COMPOSITIONS**
[54] **COMPOSITIONS PHARMACEUTIQUES SOLIDES CONTENANT DES DERIVES DE LA BIOPTERINE, ET UTILISATIONS DE CES COMPOSITIONS**
[72] SCHEURER, PETER, DE
[72] TEGTMEIER, FRANK, DE
[72] SCHINZEL, REINHARD, DE
[73] VASOPHARM GMBH, DE
[85] 2016-07-28
[86] 2015-03-30 (PCT/EP2015/056824)
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[30] EP (14162727.3) 2014-03-31

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[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 31/405 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **USE OF FLAP INHIBITORS TO REDUCE NEUROINFLAMMATION MEDIATED INJURY IN THE CENTRAL NERVOUS SYSTEM**
[54] **UTILISATION D'INHIBITEURS DE FLAP POUR REDUIRE UNE LESION MEDIEE PAR UNE NEURO-INFLAMMATION DANS LE SYSTEME NERVEUX CENTRAL**
[72] HEIDENREICH, KIM A., US
[72] MURPHY, ROBERT C., US
[73] BIOSCIENCE PHARMA PARTNERS, LLC, US
[85] 2016-08-04
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[30] US (61/935,763) 2014-02-04
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[54] **ALTERNATIVE ADDITIVES TO ENHANCE SLURRY DEWATERING**
[54] **ADDITIFS DE REMPLACEMENT POUR AMELIORER LA DESHYDRATATION DE SUSPENSIONS**
[72] URBANI, CARL NICHOLAS, AU
[73] ECOLAB USA INC., US
[85] 2016-08-25
[86] 2015-02-17 (PCT/US2015/016146)
[87] (WO2015/130511)
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[51] **Int.Cl. B32B 25/10 (2006.01) B32B 37/02 (2006.01)**
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[54] **FIBER-REINFORCED COATED MATS AND MAT-FACED PANELS AND METHODS**
[54] **TAPIS REVETUS D'UN REVETEMENT RENFORCE DE FIBRES ET PANNEAUX DE FACE DE TAPIS ET PROCEDES**
[72] TENG, YI-HSIEN HARRY, US
[72] GRAN, MARTIN L., US
[72] DILLER, CHARLES E., US
[72] SANDERS, CHRISTOPHER J., US
[72] FIELDS, JEFFERY T., US
[72] WU, MIANXUE, US
[73] GEORGIA-PACIFIC GYPSUM LLC, US
[85] 2016-08-26
[86] 2015-02-24 (PCT/US2015/017261)
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[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT AND PREVENTION OF ANTIPSYCHOTIC MEDICATION-INDUCED WEIGHT GAIN**
[54] **COMPOSITIONS ET PROCEDES PERMETTANT LE TRAITEMENT ET LA PREVENTION DE PRISE DE POIDS INDUITE PAR UN MEDICAMENT ANTIPSYCHOTIQUE**
[72] BRANDL, EVA J., CA
[72] CHOWDHURY, NABILAH I., CA
[72] GONCALVES, VANESSA F., CA
[72] KENNEDY, JAMES L., CA
[72] MUELLER, DANIEL J., CA
[72] POUGET, JENNIE G., CA
[72] TIWARI, ARUN K., CA
[72] ZAI, CLEMENT C., CA
[73] CENTRE FOR ADDICTION AND MENTAL HEALTH, CA
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[86] 2015-02-27 (PCT/CA2015/050145)
[87] (WO2015/127557)
[30] US (61/946,003) 2014-02-28
[30] US (62/056,250) 2014-09-26
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[51] **Int.Cl. H04W 72/40 (2023.01) H04W 76/18 (2018.01) H04W 76/45 (2018.01)**
[25] EN
[54] **COMMUNICATIONS DEVICE AND METHODS OF COMMUNICATING VIA A WIRELESS ACCESS INTERFACE TO PERFORM DEVICE-TO-DEVICE COMMUNICATIONS**
[54] **DISPOSITIF DE COMMUNICATION ET PROCEDES DE COMMUNICATION PAR L'INTERMEDIAIRE D'UNE INTERFACE D'ACCES SANS FIL POUR REALISER DES COMMUNICATIONS DE DISPOSITIF A DISPOSITIF**
[72] MARTIN, BRIAN ALEXANDER, GB
[73] SONY CORPORATION, JP
[85] 2016-08-31
[86] 2015-02-09 (PCT/EP2015/052654)
[87] (WO2015/139884)
[30] EP (14161202.8) 2014-03-21

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[51] **Int.Cl. G01R 31/00 (2006.01)**
[25] EN
[54] **DYNAMIC REAL TIME TRANSMISSION LINE MONITOR AND METHOD OF MONITORING A TRANSMISSION LINE USING THE SAME**
[54] **MONITEUR DE LIGNE DE TRANSMISSION DYNAMIQUE EN TEMPS REEL ET PROCEDE DE SURVEILLANCE D'UNE LIGNE DE TRANSMISSION LE METTANT EN OEUVRE**
[72] LINDSEY, KEITH E., US
[72] SPILLANE, PHILIP E., US
[72] WANG, AN-CHYUN, US
[73] LINDSEY MANUFACTURING COMPANY, US
[85] 2016-08-31
[86] 2014-03-12 (PCT/US2014/024825)
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[51] **Int.Cl. A61B 17/221 (2006.01) A61B 17/22 (2006.01) A61F 2/01 (2006.01)**
[25] EN
[54] **CLOSED TIP DYNAMIC MICROVALVE PROTECTION DEVICE**
[54] **DISPOSITIF DE PROTECTION DYNAMIQUE DE MICROVALVE A EMBOUT FERME**
[72] PINCHUK, BRYAN, US
[72] CHOMAS, JAMES E., US
[72] JAROCH, DAVID BENJAMIN, US
[72] AREPALLY, ARAVIND, US
[73] TRISALUS LIFE SCIENCES, INC., US
[85] 2016-09-02
[86] 2015-03-20 (PCT/US2015/021633)
[87] (WO2015/148284)
[30] US (61/970,202) 2014-03-25
[30] US (14/259,293) 2014-04-23
[30] US (14/330,456) 2014-07-14

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[13] C
[51] **Int.Cl. H02S 20/23 (2014.01)**
[25] FR
[54] **IMPROVED PLATE FOR INSTALLING PHOTOVOLTAIC PANELS**
[54] **PLAQUE PERFECTIONNEE POUR L'INSTALLATION DE PANNEAUX PHOTOVOLTAIQUES**
[72] SABBAN, YLAN GILLES, FR
[73] GSE INTEGRATION, FR
[85] 2016-09-08
[86] 2015-03-10 (PCT/FR2015/050595)
[87] (WO2015/136215)
[30] FR (14/51949) 2014-03-10

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[25] EN
[54] **HPPD VARIANTS AND METHODS OF USE**
[54] **VARIANTS HPPD ET LEURS PROCEDES D'UTILISATION**
[72] DUBALD, MANUEL, US
[72] ARMSTRONG, ROXANNE, US
[72] POREE, FABIEN, DE
[72] PETERS, CHERYL, US
[73] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[85] 2016-09-06
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[30] US (61/951,455) 2014-03-11

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[51] **Int.Cl. G06T 15/00 (2011.01)**
[25] EN
[54] **PROCESSING AND/OR TRANSMITTING 3D DATA**
[54] **TRAITEMENT ET/OU TRANSMISSION DE DONNEES 3D**
[72] BELL, MATTHEW TSCHUDY, US
[72] GAUSEBECK, DAVID ALAN, US
[72] COOMBE, GREGORY WILLIAM, US
[72] FORD, DANIEL, US
[73] MATTERPORT, INC., US
[85] 2016-09-13
[86] 2015-03-13 (PCT/US2015/020439)
[87] (WO2015/138891)
[30] US (14/213,531) 2014-03-14

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[13] C
[51] **Int.Cl. A61F 2/12 (2006.01)**
[25] EN
[54] **ENDOTINE BREAST RECONSTRUCTION DEVICES AND METHODS**
[54] **DISPOSITIFS ET METHODES DE RECONSTRUCTION MAMMAIRE PAR ENDOTINE**
[72] GRIFFIN, ROBERT, US
[72] BRZEZIENSKI, MARK A., US
[72] GRINER, DEVIN, US
[73] MICROAIRE SURGICAL INSTRUMENTS, LLC, US
[85] 2016-09-16
[86] 2015-03-27 (PCT/US2015/023011)
[87] (WO2015/148932)
[30] US (61/972,076) 2014-03-28

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[51] **Int.Cl. B01D 69/00 (2006.01) B22F 3/12 (2006.01) C22C 5/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR FABRICATION OF HYDROGEN-PERMEABLE MEMBRANES**
[54] **METHODE ET SYSTEME DE FABRICATION DE MEMBRANES PERMEABLES A L'HYDROGENE**
[72] GAUDET, JULIE, CA
[72] GUAY, DANIEL, CA
[72] HONRADO GUERREIRO, BRUNO MANUEL, CA
[72] ROUE, LIONEL, CA
[72] TOSQUES, JACQUES, FR
[73] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[86] (2945286)
[87] (2945286)
[22] 2016-10-12
[30] US (62/240,618) 2015-10-13

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[51] **Int.Cl. G01N 33/566 (2006.01)**
[25] EN
[54] **METHOD OF ISOLATING A TARGET CELL**
[54] **PROCEDE D'ISOLATION D'UNE CELLULE CIBLE**
[72] CARL, UWE D., DE
[73] IBA GMBH, DE
[85] 2016-10-11
[86] 2015-04-30 (PCT/EP2015/059510)
[87] (WO2015/166049)
[30] EP (14166718.8) 2014-04-30

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[13] C
[51] **Int.Cl. H04N 21/236 (2011.01)**
[25] EN
[54] **RECEPTION APPARATUS, RECEPTION METHOD, TRANSMISSION APPARATUS, AND TRANSMISSION METHOD**
[54] **APPAREIL DE RECEPTION, PROCEDE DE RECEPTION, APPAREIL D'EMISSION ET PROCEDE D'EMISSION**
[72] TAKAHASHI, KAZUYUKI, JP
[72] MICHAEL, LACHLAN BRUCE, JP
[73] SONY CORPORATION, JP
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[54] **SYSTEME ET PROCEDE POUR UN SERVICE DE LOGICIEL DE DIAGNOSTIC**
[72] GREEN, JOHN, US
[72] BINIAK, KIMBER, US
[72] KATZENMEYER, BRIAN, US
[72] JONES, JASON, US
[73] MATCO TOOLS CORPORATION, US
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[54] **PLANT FOR THE TREATMENT OF WASTE WATER ON BOARD OF VESSELS**
[54] **INSTALLATION POUR LE TRAITEMENT DES EAUX USEES A BORD DE NAVIRES**
[72] PANSERA, MARIO, IT
[72] ROSSI, MAURIZIO, IT
[73] DE NORA WATER TECHNOLOGIES ITALY S.R.L., IT
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[54] **ZONE TAMPON POUR DES ELEMENTS INTERIEURS D'AERONEF**
[72] MALEK, BRUCE, CA
[72] HOLOWKA, STEFAN, CA
[72] BEAUDIN, NIKOLAS, CA
[73] BOMBARDIER INC., CA
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[25] EN
[54] **PROVIDING EXCESS COMPUTE RESOURCES WITH VIRTUALIZATION**
[54] **FOURNITURE DE RESSOURCES INFORMATIQUES EN EXCES AU MOYEN D'UNE VIRTUALISATION**
[72] HILTGEN, DANIEL, US
[72] DEVINE, PATRICK, US
[72] PAPP, ERIK P., US
[72] JAMIL, MUSTAFA, US
[73] NETKINE, INC., US
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[54] **BLOW MOULDED CONTAINER AND MANUFACTURE THEREOF**
[54] **RECIPIENT MOULE PAR SOUFFLAGE ET SON PROCEDE DE FABRICATION**
[72] CLARKE, PETER REGINALD, GB
[73] GR8 ENGINEERING LIMITED, GB
[85] 2016-10-31
[86] 2015-04-30 (PCT/EP2015/059579)
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[54] **ANTI-HER2 ANTIBODY-MAYTANSINE CONJUGATES AND METHODS OF USE THEREOF**
[54] **CONJUGUES ANTICORPS ANTI-HER2-MAYTANSINE ET METHODES D'UTILISATION DE CEUX-CI**
[72] RABUKA, DAVID, US
[72] ALBERS, AARON EDWARD, US
[72] BARFIELD, ROBYN M., US
[72] DEHART, GREGORY W., US
[72] DRAKE, PENELOPE M., US
[72] KUDIRKA, ROMAS ALVYDAS, US
[72] GAROFALO, ALBERT W., US
[72] MCFARLAND, JESSE M., US
[73] REDWOOD BIOSCIENCE, INC., US
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[54] **SYSTEMS AND METHODS FOR A BOW LABEL FOR A BEVERAGE CONTAINER**
[54] **SYSTEMES ET PROCEDES POUR ETIQUETTE EN FORME DE NOEUD PAPILLON POUR UN RECIPIENT DE BOISSON**
[72] BOWERS, CHRISTOPHER JAMES, GB
[72] BENTLEY, GREGORY STEVEN, BE
[73] THE COCA-COLA COMPANY, US
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[54] **POWER MANAGEMENT CONTRACTS FOR ACCESSORY DEVICES**
[54] **CONTRATS DE GESTION DE PUISSANCE POUR DISPOSITIFS ACCESSOIRES**
[72] OBIE, GENE ROBERT, US
[72] HUANG, HENG, US
[72] HE, YI, US
[72] EVANS, DUANE MARTIN, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2016-11-08
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[54] **METHOD AND SYSTEM FOR CONDUCTING ECOMMERCE TRANSACTIONS IN MESSAGING VIA SEARCH, DISCUSSION AND AGENT PREDICTION**
[54] **PROCEDE ET SYSTEME POUR EFFECTUER DES TRANSACTIONS DE COMMERCE ELECTRONIQUE DANS UNE MESSAGERIE PAR RECHERCHE, DISCUSSION ET PREDICTION D'AGENT**
[72] BOOTHROYD, CHRISTOPHER CRAIG, CA
[72] AUGER, COREY, CA
[73] CONVERSANT TEAMWARE INC., CA
[85] 2016-11-14
[86] 2015-05-15 (PCT/CA2015/050444)
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[72] VAN VESSEM, HENRICUS GERARDUS ANDREAS, NL
[73] IQIP HOLDING B.V., NL
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[54] **FUEL COMPOSITIONS**
[54] **COMPOSITIONS DE CARBURANT**
[72] DROUBI, DANNY F., US
[72] BRANCH, MICHAEL ALLEN, US
[72] DELANEY-KINSELLA, CYNTHIA, US
[72] LIPINSKY, DANA TATUM, US
[72] KRAUS, LAWRENCE STEPHEN, US
[72] BRUMFIELD, TOMMY LOUIS, US
[72] BRU, ARIEL, NL
[72] STEERNBERG, KOEN, NL
[72] TARDIF, PIERRE, US
[72] BOUDREAUX, SHANNON, US
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
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[54] **OPHTHALMIC SURGICAL SYSTEM WITH BLUE LIGHT FILTERING**
[54] **SYSTEME CHIRURGICAL OPHTALMIQUE AYANT UNE FILTRATION DE LUMIERE BLEUE**
[72] AMMARI, EYAD, US
[72] CHARLES, STEVEN T., US
[73] ALCON INC., US
[85] 2016-11-15
[86] 2015-05-13 (PCT/US2015/030584)
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[54] **CONTROLE D'UN ACCES A UNE RESSOURCE PAR L'INTERMEDIAIRE D'UN DISPOSITIF INFORMATIQUE**
[72] VAN SOMEREN, NICHOLAS B., US
[73] BLACKBERRY LIMITED, CA
[85] 2016-11-29
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[54] **LASER ABLATION AND PROCESSING METHODS AND SYSTEMS**
[54] **ABLATION PAR LASER ET PROCEDES ET SYSTEMES DE TRAITEMENT**
[72] DAJNOWSKI, BARTOSZ ANDRZEJ, US
[73] G.C. LASER SYSTEMS, INC., US
[85] 2016-12-08
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[25] FR
[54] **RESPIRATORY ASSISTANCE DEVICE, NASAL APPARATUS AND RESPIRATORY ASSISTANCE MASK**
[54] **DISPOSITIF D'ASSISTANCE RESPIRATOIRE, APPAREIL NASAL ET MASQUE D'ASSISTANCE RESPIRATOIRE**
[72] CARREZ, JEAN-LUC, FR
[72] BERTHEUIL, ELODIE, FR
[72] LESIMPLE BOBERT, LAURENT, FR
[72] RIGA, CYRIL, FR
[72] BOUSSIGNAC, GEORGES, FR
[73] VYGON, FR
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[54] **FIRE EXTINGUISHER WITH INTERNAL MIXING AND GAS CARTRIDGE**
[54] **EXTINCTEUR D'INCENDIE A MELANGE INTERNE ET CARTOUCHE DE GAZ**
[72] ROUSSEAU, HECTOR, US
[72] BARROWS, RYAN H., US
[72] SEYMOUR, JUSTUN C., US
[72] ROUSSEAU, RANDY, US
[73] RUSOH, INC., US
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[54] **PIPERIDINONE HERBICIDES**
[54] **HERBICIDES DE PIPERIDINONE**
[72] SATTERFIELD, ANDREW DUNCAN, US
[72] BEREZNAK, JAMES FRANCIS, US
[72] CAMPBELL, MATTHEW JAMES, US
[73] FMC CORPORATION, US
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[54] **SYSTEME DE TRAITEMENT MEDICAL PORTABLE ET SA METHODE D'UTILISATION**
[72] PELKUS, ADRIAN, US
[73] VAPOROX, INC., US
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[54] **SALT TOLERANT FRICTION REDUCER**
[54] **REDUCTEUR DE FROTTEMENT TOLERANT AUX SELS**
[72] FREDERICK, KEVIN W., US
[72] CHEN, SHIH-RUEY T., US
[72] LOEFFLER, RANDY J., US
[72] SAWANT, KAILAS, US
[73] ENERGY SOLUTIONS (US) LLC, US
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[54] **EXTERNAL GEAR PUMP INTEGRATED WITH TWO INDEPENDENTLY DRIVEN PRIME MOVERS**
[54] **POMPE A ENGRENAGES EXTERIEURS INTEGREE A DEUX APPAREILS MOTEURS ENTRAINES INDEPENDAMMENT**
[72] AFSHARI, THOMAS, US
[73] PROJECT PHOENIX, LLC, US
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[54] **BISAMIDINIUM-BASED INHIBITORS FOR THE TREATMENT OF MYOTONIC DYSTROPHY**
[54] **INHIBITEURS A BASE DE BISAMIDINIUM POUR LE TRAITEMENT DE LA DYSTROPHIE MYOTONIQUE**
[72] ZIMMERMAN, STEVEN C., US
[72] LUU, LONG M., US
[72] NGUYEN, LEIN T.T., US
[73] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
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[72] MULLER, JOHANNES, DE
[73] BERLIN HEALS GMBH, DE
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[54] **NOUVEL ANTICORPS ANTIHUMAINS CIBLANT LA BETA-IG**
[72] YAMAJUKU, DAISUKE, JP
[72] SEKI, MUTSUMI, JP
[72] HONDA, TAKASHI, JP
[72] KUBO, SATOSHI, JP
[72] SOGA, SHINJI, JP
[72] MORINAKA, AKIFUMI, JP
[73] ASTELLAS PHARMA INC., JP
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[54] **AVIAN DETECTION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DETECTION D'OISEAUX**
[72] JORQUERA, CARLOS, US
[72] COPPAGE, AARON, US
[72] DESALVO, JASON, US
[72] LUTTRELL, RYAN, US
[72] LUTTRELL, JASON, US
[73] IDENTIFLIGHT INTERNATIONAL, LLC, US
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[25] EN
[54] **METHOD FOR PRODUCING ADULT LIVER PROGENITOR CELLS**
[54] **PROCEDE DE PRODUCTION DE CELLULES PROGENITRICES DE FOIE ADULTE**
[72] SOKAL, ETIENNE, BE
[72] SNYKERS, SARAH, BE
[72] BARAN, TUBA, BE
[72] GELLYNCK, KRIS, BE
[72] FALCIOLA, LUCA, BE
[73] CELLAION SA, BE
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[86] 2015-08-28 (PCT/EP2015/069786)
[87] (WO2016/030525)
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[54] **IDENTIFICATION OF A PANTOGRAPH REPRESENTED IN AN IMAGE**
[54] **IDENTIFICATION D'UN PANTOGRAPHE REPRESENTE DANS UNE IMAGE**
[72] PENG, EN, AU
[72] LAU, WILLIAM HOCK OON, AU
[72] ADAMS, BRETT, AU
[73] DTI GROUP LIMITED, AU
[85] 2017-02-22
[86] 2015-09-15 (PCT/AU2015/050545)
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[54] **BOTULINUM TOXIN AND COLLOIDAL SILVER PARTICLES**
[54] **TOXINE BOTULIQUE ET PARTICULES COLLOIDALES D'ARGENT**
[72] WILLOUGHBY, ANDREW J.M., CA
[72] MOELLER, KEITH WILLIAM, US
[73] AMERICAN SILVER, LLC, US
[73] DR. ANDREW WILLOUGHBY INC., CA
[85] 2017-03-01
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[51] **Int.Cl. H04W 28/10 (2009.01) H04W 40/12 (2009.01) H04L 47/125 (2022.01) H04L 45/24 (2022.01)**
[25] EN
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[54] **EVALUATION DE RESEAU MAILLE ET TRANSMISSION**
[72] KALKUNTE, VENKAT, US
[73] VIVINT, INC., US
[85] 2017-03-01
[86] 2015-09-02 (PCT/US2015/048027)
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[25] EN
[54] **PYRAZOLO[3,4-C]PYRIDINE COMPOUNDS AND THEIR ANTI-THROMBOSIS EFFECT**
[54] **COMPOSES DE PYRAZOLO[3,4-C]PYRIDINE ET LEURS EFFETS CONTRE LA THROMBOSE**
[72] SHI, YING, CN
[72] GAO, QINGZHI, CN
[72] MI, YI, CN
[72] WANG, XULIANG, CN
[73] CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD., CN
[85] 2017-03-02
[86] 2015-09-02 (PCT/CN2015/088898)
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[30] CN (201410442948.2) 2014-09-02
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[13] C
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[25] EN
[54] **SEAFOOD CONTAINER**
[54] **RECIPIENT DE POISSONS ET FRUITS DE MER**
[72] BOUDREAU, JOSEPH EDWARD, CA
[73] 3283688 NOVA SCOTIA LIMITED, CA
[85] 2017-03-16
[86] 2015-09-16 (PCT/CA2015/000497)
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[25] EN
[54] **AN UNDERGROUND MINING SYSTEM FOR REDUCED COSTS, IMPROVED EFFICIENCIES, HIGHER PRODUCTIVITY AND A SAFER WORKING ENVIRONMENT THROUGH PENETRATED BLOCK EXTRACTION**
[54] **SYSTEME DE MINE SOUTERRAINE POUR DES COUTS REDUITS, DES RENDEMENTS AMELIORES, UNE PRODUCTIVITE PLUS ELEVEE ET UN ENVIRONNEMENT DE TRAVAIL PLUS SUR A L'AIDE D'UNE EXTRACTION PAR PE NETRATION DE BLOCS**
[72] MACDONALD, BRIAN, AU
[72] MAPP, MICHAEL, AU
[73] UNDERGROUND EXTRACTION TECHNOLOGIES PTY LTD, AU
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[30] AU (2015900100) 2015-01-15

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[25] EN
[54] **ADDITIVE CONCENTRATES**
[54] **CONCENTRES ADDITIFS**
[72] WOODWARD, PHILIP JAMES, GB
[72] MARSH, ADAM PAUL, GB
[73] INFINEUM INTERNATIONAL LIMITED, GB
[86] (2961814)
[87] (2961814)
[22] 2017-03-22
[30] EP (16161590.1) 2016-03-22

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[54] **ADDITIVE CONCENTRATES**
[54] **CONCENTRES ADDITIFS**
[72] WOODWARD, PHILIP JAMES, GB
[72] MARSH, ADAM PAUL, GB
[73] INFINEUM INTERNATIONAL LIMITED, GB
[86] (2961823)
[87] (2961823)
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[54] **COFFEE POD**
[54] **DOSETTE DE CAFE**
[72] NORTON, MARK RICHARD THOMAS, US
[72] DE CLEIR, PIARAS VALDIS, US
[73] KRAFT FOODS GROUP BRANDS LLC, US
[85] 2017-03-21
[86] 2015-09-30 (PCT/US2015/053227)
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[54] **RECYCLAGE DE POLYMERE BIODEGRADABLE**
[72] JOHNSON, ANTHONY FRANCIS, GB
[72] WONG, STEPHEN SIK FAN, GB
[73] AQUAPAK IP LTD, AF
[85] 2017-03-22
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[25] EN
[54] **WHIPPABLE FOOD PRODUCTS, WHIPPED FOOD PRODUCTS AND METHODS OF MAKING THE SAME**
[54] **PRODUITS ALIMENTAIRES POUVANT ETRE FOUETTES, PRODUITS ALIMENTAIRES FOUETTES, ET LEURS PROCEDES DE FABRICATION**
[72] DURBIN, JACOB MICHAEL, US
[72] HOYDA, DAVID LEONARD, US
[73] TATE & LYLE CUSTOM INGREDIENTS LLC, US
[85] 2017-03-27
[86] 2015-09-25 (PCT/US2015/052461)
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[30] US (62/056,080) 2014-09-26
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[54] **SYSTEM AND METHOD FOR OXIDATION OF AMMONIA**
[54] **SYSTEME ET PROCEDE D'OXYDATION D'AMMONIAC**
[72] BEJAN, DORIN, CA
[72] GAGNON, CRAIG, CA
[73] XOGEN TECHNOLOGIES INC., CA
[85] 2017-04-06
[86] 2015-10-09 (PCT/CA2015/051030)
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[54] **METHOD TO REDUCE ONCOGENIC POTENTIAL OF INDUCED PLURIPOTENT STEM CELLS FROM AGED DONORS**
[54] **METHODE POUR REDUIRE LE POTENTIEL ONCOGENE DES CELLULES SOUCHES PLURIPOTENTES INDUITES PROVENANT DE DONNEURS AGES**
[72] KIM, KITAI, US
[72] SKAMAGKI, MARIA, US
[72] DOGAN, YILDIRIM, US
[73] MEMORIAL SLOAN-KETTERING CANCER CENTER, US
[85] 2017-04-06
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[25] EN
[54] **UNDERCUT CLIP ANCHOR SYSTEM FOR CLADDING OF MATERIALS**
[54] **SYSTEME D'ANCRAGE PAR ATTACHE A CONTRE-DEPOUILLE POUR LE BARDAGE DE MATERIAUX**
[72] SCULLY, JOE, IE
[72] SCULLY, TOM, IE
[72] DALY, SEAN, IE
[73] ECLAD USA, INC., US
[85] 2017-04-06
[86] 2015-10-15 (PCT/US2015/055831)
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[54] **METHOD FOR SELECTING A CELLULAR NETWORK**
[54] **PROCEDE DE SELECTION D'UN RESEAU CELLULAIRE**
[72] ISLAM, MUHAMMAD KHALEDUL, CA
[72] WIRTANEN, JEFFREY WILLIAM, CA
[72] ZHANG, YI HAI, CA
[73] BLACKBERRY LIMITED, CA
[85] 2017-04-12
[86] 2015-11-20 (PCT/CA2015/051214)
[87] (WO2016/082028)
[30] US (14/555,645) 2014-11-27

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[54] **PLANT SUPPORT COLLAR**
[54] **COLLIER DE SUPPORT DE PLANTE**
[72] TORRES CARPIO, JOSEP, ES
[73] A. RAYMOND ET CIE, FR
[85] 2017-04-13
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[25] EN
[54] **TISSUE-MIMICKING HYDROGEL COMPOSITIONS FOR BIOFABRICATION**
[54] **COMPOSITIONS D'HYDROGEL IMITANT UN TISSU POUR BIOFABRICATION**
[72] SKARDAL, ALEKSANDER, US
[72] SOKER, SHAY, US
[73] WAKE FOREST UNIVERSITY HEALTH SCIENCES, US
[85] 2017-04-18
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[25] EN
[54] **VH4 ANTIBODIES AGAINST GRAY MATTER NEURON AND ASTROCYTE**
[54] **ANTICORPS VH4 DIRIGES CONTRE LES ASTROCYTES ET LES NEURONES DE LA MATIERE GRISE**
[72] MONSON, NANCY, US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
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[51] **Int.Cl. D01F 6/00 (2006.01) B01J 20/26 (2006.01) B01J 20/28 (2006.01)**
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[54] **POROUS FIBERS, ADSORBENT MATERIAL, AND PURIFICATION COLUMN**
[54] **FIBRES POREUSES, MATERIAU ABSORBANT, ET COLONNE DE PURIFICATION**
[72] FUJIEDA, HIROAKI, JP
[72] UENO, YOSHIYUKI, JP
[72] TANAKA, KAZUMI, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2017-04-25
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[30] JP (2014-219036) 2014-10-28

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[54] **A MODULAR UPHOLSTERED PIECE OF FURNITURE**
[54] **MEUBLE CAPITONNE MODULAIRE**
[72] LONGA NOSE, GUILHERME, BR
[73] BRASKEM S.A., BR
[85] 2017-04-27
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[25] EN
[54] **PREVENTING CORROSION IN A GREENHOUSE**
[54] **PREVENTION DE LA CORROSION DANS UNE SERRE**
[72] FRIESEN, KENNETH KYLE, CA
[72] FRIESEN, JOHN, CA
[72] SUDER, ADAM, CA
[73] FRIESEN, KENNETH KYLE, CA
[73] FRIESEN, JOHN, CA
[73] SUDER, ADAM, CA
[86] (2966265)
[87] (2966265)
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[25] EN
[54] **COMPOUND INTERCROPPING PROCESS**
[54] **PROCEDE DE CULTURE INTERCALAIRE COMPOSEE**
[72] FRIESEN, KENNETH KYLE, CA
[72] FRIESEN, JOHN, CA
[72] SUDER, ADAM, CA
[73] FRIESEN, KENNETH KYLE, CA
[73] FRIESEN, JOHN, CA
[73] SUDER, ADAM, CA
[86] (2966267)
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[25] EN
[54] **VERTICAL HYDROPONIC TOWER ARRAY FIXTURE SYSTEM**
[54] **SYSTEME DE MONTAGE DE RESEAU DE TOURS HYDROPONIQUES VERTICALES**
[72] STOREY, NATHANIEL R., US
[73] UNIVERSITY OF WYOMING, US
[85] 2017-04-28
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[51] **Int.Cl. B65G 67/22 (2006.01) G01G 11/08 (2006.01) G01G 13/08 (2006.01)**
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[54] **A TRAIN LOADING SYSTEM**
[54] **SYSTEME DE CHARGEMENT DE TRAIN**
[72] ZEELENBERG, JONATHON, AU
[72] SHOOK, ANDREW ARTHUR, AU
[72] MACKAY, SHANE, AU
[72] DUDFIELD, STUART, AU
[72] MACINTOSH, HAMISH, AU
[73] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU
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[25] EN
[54] **AUTOMATIC HYDROPNEUMATIC ACTUATION DEVICE**
[54] **DISPOSITIF D'ACTIONNEMENT HYDROPNEUMATIQUE AUTOMATIQUE**
[72] CHEATHAM, JESSE R., III, US
[72] CORBIN, ROBERT A., US
[72] HEJZLAR, PAVEL, US
[72] JOHNS, CHRISTOPHER J., US
[72] MCWHIRTER, JON D., US
[72] MENG, JASON BRIAN, US
[72] PARK, P. HARLEY, US
[72] PETROSKI, ROBERT C., US
[73] TERRAPOWER, LLC, US
[85] 2017-05-10
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[51] **Int.Cl. E21B 33/08 (2006.01) E21B 17/10 (2006.01) E21B 33/04 (2006.01)**
[25] EN
[54] **SEAL HOUSING AND RELATED APPARATUSES AND METHODS OF USE**
[54] **BOITIER D'ETANCHEITE, APPAREILS CONNEXES ET METHODES D'UTILISATION**
[72] NEUFELD, PETER, CA
[72] NEUFELD, RONNY, CA
[72] KARALIC, SEJAD, CA
[72] GOWENLOCK, ANDREW, CA
[73] PCM CANADA INC., CA
[86] (2967606)
[87] (2967606)
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[25] EN
[54] **SWIVEL JOINT FOR OILFIELD PUMPING STIMULATION**
[54] **JOINT ARTICULE POUR STIMULATION DE POMPAGE DANS UN CHAMP PETROLIFERE**
[72] UNGCHUSRI, TEP, US
[72] GARNER, WILLIAM H., US
[72] CHAMPION, MONTY W., US
[72] THAMMAVONGSA, TOMMY, US
[73] FMC TECHNOLOGIES, INC., US
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[54] **OBJECT PRODUCTION**
[54] **PRODUCTION D'OBJET**
[72] SANDERSON, STEVEN NEIL, GB
[72] BICKERSTAFF, VANESSA GERMAINE, GB
[73] BAE SYSTEMS PLC, GB
[85] 2017-05-16
[86] 2015-11-17 (PCT/GB2015/053477)
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[25] FR
[54] **PLAIN SELF-CENTRING BEARING**
[54] **PALIER LISSE AUTO-CENTRANT**
[72] MORREALE, SERGE RENE, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-05-18
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[25] EN
[54] **SOFT ROBOTIC ACTUATOR ENHANCEMENTS**
[54] **PERFECTIONNEMENTS POUR ACTIONNEURS ROBOTIQUES DOUX**
[72] LESSING, JOSHUA AARON, US
[72] KNOPF, RYAN, US
[72] VAUSE, CARL, US
[73] SOFT ROBOTICS, INC., US
[85] 2017-05-17
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[51] **Int.Cl. G06F 30/20 (2020.01) G06F 30/15 (2020.01) G06F 30/23 (2020.01) G06F 17/10 (2006.01)**
[25] EN
[54] **FINITE ELEMENT MODELING AND ANALYSIS OF CRACK PROPAGATION IN MULTIPLE PLANES OF A STRUCTURE**
[54] **MODELISATION D'ELEMENT FINI ET ANALYSE DE LA PROPAGATION DE FISSURE DANS PLUSIEURS PLANS D'UNE STRUCTURE**
[72] MABSON, GERALD E., US
[72] WILKINSON, MARIANNE E., US
[72] RAMNATH, MADHAVADAS, US
[73] THE BOEING COMPANY, US
[86] (2968750)
[87] (2968750)
[22] 2017-05-29
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[51] **Int.Cl. B07C 5/342 (2006.01) B07C 5/36 (2006.01)**
[25] EN
[54] **SENSOR SEPARATION APPARATUS AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE SEPARATION A CAPTEUR**
[72] REM, PETER CARLO, NL
[72] BAKKER, MARTINUS CORNELIS MARIA, NL
[72] BERKHOUT, SIMON PETRUS MARIA, NL
[73] URBAN MINING CORP B.V., NL
[85] 2017-05-24
[86] 2015-12-04 (PCT/NL2015/050841)
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[54] **IMPROVED PRESSURE CONTROL DEVICE**
[54] **DISPOSITIF AMELIORE DE REGULATION DE PRESSION**
[72] ATKINS, NICK, GB
[72] SPALDING, CRAIG, GB
[72] AVANASHIAPPAN, VIJAY, GB
[73] RUBBERATKINS LIMITED, GB
[85] 2017-05-26
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[51] **Int.Cl. C07C 51/47 (2006.01) C07C 51/43 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING SUCCINIC ACID FROM A FERMENTATION BROTH USING NANO FILTRATION TO PURIFY RECYCLED MOTHER LIQUOR**
[54] **PROCEDE DE FABRICATION D'ACIDE SUCCINIQUE A PARTIR D'UN BOUILLON DE FERMENTATION PAR NANOFILTRATION POUR PURIFIER UNE LIQUEUR MERE RECYCLEE**
[72] BOIT, BAPTISTE, FR
[72] FIEY, GUILLAUME, FR
[72] VAN DE GRAAF, MAARTEN JOB, NL
[73] ROQUETTE FRERES, FR
[73] TECHNIP ENERGIES FRANCE S.A.S., FR
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[25] EN
[54] **AMINOACID-BASED COMPOSITION FOR FIBROELASTIN RECOVERY IN DERMAL CONNECTIVE TISSUES**
[54] **COMPOSITION A BASE D'ACIDES AMINES PERMETTANT DE REDONNER A DES TISSUS CONJONCTIFS DERMIQUES LEUR CARACTERE FIBROELASTIQUE**
[72] GIORGETTI, PAOLO, IT
[73] PROFESSIONAL DIETETICS S.P.A., IT
[85] 2017-05-31
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[25] EN
[54] **METHOD AND APPARATUS FOR MULTIPLE TECHNOLOGY DEPTH MAP ACQUISITION AND FUSION**
[54] **PROCEDE ET APPAREIL POUR ACQUISITION ET FUSION DE CARTES DE PROFONDEUR A TECHNOLOGIES MULTIPLES**
[72] LINDNER, ALBRECHT JOHANNES, US
[72] ATANASSOV, KALIN MITKOV, US
[72] GOMA, SERGIU RADU, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-05-31
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[25] EN
[54] **TRANSGENIC RPE CELLS OVEREXPRESSING OTX2 FOR THE TREATMENT OF RETINAL DEGENERATION**
[54] **CELLULES TRANSGENIQUES DE L'EPITHELIUM PIGMENTAIRE RETINIEN (RPE) SUREXPRIMANT LE GENE OTX2 POUR LE TRAITEMENT DE LA DEGENERESCENCE RETINIENNE**
[72] LEVEILLARD, THIERRY, FR
[72] KOLE, CHRISTO, FR
[72] SAHEL, JOSE-ALAIN, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[73] SORBONNE UNIVERSITE, FR
[85] 2017-06-13
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[30] EP (14307069.6) 2014-12-18

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[25] EN
[54] **MACHINE FOR LASER WORKING OF TUBES AND PROFILED SECTIONS WITH A SCANNING SYSTEM FOR SCANNING THE TUBE OR PROFILED SECTION TO BE WORKED**
[54] **MACHINE POUR LE TRAVAIL AU LASER DE TUBES ET DE SECTIONS PROFILEES AVEC UN SYSTEME DE BALAYAGE POUR BALAYER LE TUBE OU LA SECTION PROFILEE A TRAVAILLER**
[72] GALVAGNINI, PAOLO, IT
[72] DALFOLLO, GIOVANNI, IT
[72] BENATTI, PAOLO, IT
[72] CEVASCO, LUCA, IT
[72] CENATI, CLAUDIO, IT
[72] MOLINARI TOSATTI, LORENZO, IT
[72] PARAZZOLI, DIEGO, IT
[73] ADIGE S.P.A., IT
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[54] **COMPOSITIONS AND METHODS FOR EFFICIENT GENE EDITING IN E. COLI USING GUIDE RNA/CAS ENDONUCLEASE SYSTEMS IN COMBINATION WITH CIRCULAR POLYNUCLEOTIDE MODIFICATION TEMPLATES.**
[54] **COMPOSITIONS ET METHODES POUR L'EDITION GENIQUE EFFICACE DANS E. COLI AU MOYEN DE SYSTEMES D'ARN GUIDE/ENDONUCLEASE CAS EN COMBINAISON AVEC DES MATRICES DE MODIFICATION DE POLYNUCLEOTIDE CIRCULAIRE.**
[72] FRISCH, RYAN L., US
[72] JACKSON, ETHEL NOLAND, US
[73] E. I. DU PONT DE NEMOURS AND COMPANY, US
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[54] **MANAGEMENT SYSTEM AND METHOD OF AN ACTIVE LENS**
[54] **SYSTEME ET PROCEDE DE GESTION D'UN VERRE ACTIF**
[72] ROUSSEAU, DENIS, FR
[72] BARRAU, CORALIE, FR
[72] COHEN TANNOUDJI, DENIS, FR
[72] PERROT, STEPHANE, FR
[72] BOUCHIER, AUDE, FR
[72] CANO, JEAN-PAUL, FR
[72] BIVER, CLAUDINE, FR
[72] ARCHAMBEAU, SAMUEL, FR
[72] BALLET, JEROME, FR
[72] ESCAICH, DAVID, FR
[73] ESSILOR INTERNATIONAL, FR
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[54] **MODIFIED CRY1CA TOXINS USEFUL FOR CONTROL OF INSECT PESTS**
[54] **TOXINES CRY1CA MODIFIEES POUR LUTTER CONTRE LES INSECTES NUISIBLES**
[72] SHEETS, JOEL J., US
[72] NARVA, KENNETH, US
[72] MEADE, THOMAS, US
[72] HEY, TIMOTHY D., US
[72] TAN, SEK YEE, US
[72] ETTER, AUDREY JANE, US
[72] GLANCY, TODD P., US
[72] ARMSTRONG, JANNA MAI, US
[72] CORAM, TRISTAN E., US
[72] MADDURI, KRISHNA M., US
[72] KING, JAMES E., US
[72] LEE, RYAN M., US
[72] LIN, GAOFENG, US
[72] LI, JIANQUAN, US
[73] CORTEVA AGRISCIENCE LLC, US
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[54] **APPARATUS TO TRANSMIT AXIAL FORCE TO A SNUBBING UNIT'S SLIP ASSEMBLY, INCLUDING DURING ROTATION**
[54] **APPAREIL SERVANT A TRANSMETTRE UNE FORCE AXIALE A UN ASSEMBLAGE DE MANCHON D'UN MODULE DE CURAGE SOUS PRESSION, Y COMPRIS PENDANT LA ROTATION**
[72] SMITH, NATHAN, CA
[73] SNUB EQUIPMENT LTD., CA
[86] (2972130)
[87] (2972130)
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[54] **PROCESS FOR THE PREPARATION OF OSPEMIFENE AND FISPEMIFENE**
[54] **PROCEDE DE PREPARATION D'OSPEMIFENE ET DE FISPEMIFENE**
[72] CRISTIANO, TANIA, IT
[72] ALPEGIANI, MARCO, IT
[73] OLON S.P.A., IT
[85] 2017-06-23
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[54] **POLYMORPHE DE LA GRANATICINE B**
[72] KUNNARI, TERO, DE
[73] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US
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[54] **MULTILAYER FILMS AND RELATED USES THEREOF**
[54] **FILMS MULTICOUCHE ET LEURS UTILISATIONS**
[72] ZANETTI, MAXIMILIANO, AR
[72] NIAMPIRA, MIGUEL MOLANO, CO
[72] GOMES, JORGE C., BR
[73] DOW QUIMICA DE COLOMBIA S.A., CO
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] PBBPOLISUR S.R.L, AR
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[54] **METHOD AND DEVICE FOR COSMETICALLY TREATING DARK SPOTS ON THE SKIN BY MEANS OF CRYO-CYTO-SELECTIVE CRYOGENICS**
[54] **PROCEDE ET DISPOSITIF POUR LE TRAITEMENT COSMETIQUE DES TACHES BRUNES CUTANEES PAR CRYOGENIE CRYO-CYTO-SELECTIVE**
[72] MARIN, DENIS, FR
[72] PACITO, DOMINIQUE, FR
[73] CRYOBEAUTY, FR
[85] 2017-07-05
[86] 2016-01-13 (PCT/EP2016/050565)
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[54] **PROCESS IN WATER FOR THE PREPARATION OF BUTYRIC ESTERS OF HYALURONIC ACID SODIUM SALT**
[54] **PROCEDE DE PREPARATION D'ESTERS BUTYRIQUES DE SEL DE SODIUM D'ACIDE HYALURONIQUE EN MILIEU AQUEUX**
[72] STUCCHI, LUCA, IT
[72] GIANNI, RITA, IT
[72] SECHI, ALESSANDRA, IT
[73] SIGEA S.R.L., IT
[85] 2017-07-10
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[54] **IMPROVED INLET-OUTLET SYSTEM AND METHOD FOR SUBSEA STORAGE**
[54] **PROCEDE ET SYSTEME D'ENTREE-SORTIE PERFECTIONNES POUR LE STOCKAGE SOUS-MARIN**
[72] ANDERSSON, LARS GOSTA, NO
[72] REIMERS, JAN-OTTO, NO
[72] TOTLAND, GUDMUND ROGER, NO
[72] TORJUSSEN, TORLEIF ENGELAND, NO
[73] GRANT PRIDECO, INC., US
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[54] **DETERMINATION DE LA RESISTANCE THERMIQUE D'UNE PAROI**
[72] ALZETTO, FLORENT, FR
[72] MEULEMANS, JOHANN, FR
[72] PANDRAUD, GUILLAUME, FR
[73] SAINT-GOBAIN ISOVER, FR
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[54] **METHOD AND APPARATUS FOR RADIO BASED AUTOMATIC LEVEL CONTROL FOR LINEAR RADIO CALIBRATION**
[54] **PROCEDE ET APPAREIL POUR UNE COMMANDE DE NIVEAU AUTOMATIQUE BASEE SUR UNE RADIO POUR UN ETALONNAGE DE RADIO LINEAIRE**
[72] JACKSON, THOMAS, US
[72] JOSHI, RAJESH, US
[72] DAUBERMAN, MICHAEL, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
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[54] **AIGUISEUR DE COUTEAUX EPAIS**
[72] WEINER, SAMUEL, US
[72] ELEK, BELA, US
[72] FRIEL, DANIEL D., US
[73] EDGECRAFT CORPORATION, US
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[54] **HAND DRYER HAVING MANAGED AIR FLOW**
[54] **SECHOIR A MAINS OFFRANT LA GESTION DU FLUX D'AIR**
[72] SATERMO, ERIC K., US
[73] THE BOEING COMPANY, US
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[25] EN
[54] **METHOD FOR PRODUCING NANOPARTICLE-IN-OIL DISPERSION**
[54] **PROCEDE DE PRODUCTION DE DISPERSION DE NANOPARTICULES DANS L'HUILE**
[72] SHIMIZU, MASATAKA, JP
[72] YAMAMOTO, KENJI, JP
[72] HAMAYAMA, SHINGO, JP
[73] MIYAZAKI PREFECTURE, JP
[85] 2017-07-24
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[54] **COMPOSITION FOR TOPICAL APPLICATION IN THE AUDITORY CANAL**
[54] **COMPOSITION POUR UNE APPLICATION TOPIQUE DANS LE CANAL AUDITIF**
[72] ZECCARDO, ERMELINDA, IT
[72] VICINI, CLAUDIO, IT
[72] PANIN, GIORGIO, IT
[73] HULKA S.R.L., IT
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[54] **TROCART SCELLE PNEUMATIQUEMENT A REGLAGE AUTOMATIQUE**
[72] MASTRI, DOMINICK, US
[73] SURGIQUEST, INC., US
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[54] **EMBOUT DRAINANT VENTILE DE REGLEUR DE TIMONERIE**
[72] WHALEN, SHAUN T., US
[72] GREGAR, PETER PAUL, US
[72] NATSCHKE, SCOTT LEE, US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
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[54] **VECTOR CO-EXPRESSING VACCINE AND COSTIMULATORY MOLECULES**
[54] **VECTEUR CO-EXPRIMANT UN VACCIN ET DES MOLECULES CO-STIMULANTES**
[72] SCHREIBER, TAYLOR, US
[72] FROMM, GEORGE, US
[73] HEAT BIOLOGICS, INC., US
[85] 2017-07-26
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[54] **GAS-INSULATED MEDIUM- OR HIGH-VOLTAGE ELECTRICAL APPARATUS INCLUDING HEPTAFLUOROISOBUTYRONITRILE AND TETRAFLUOROMETHANE**
[54] **APPAREIL ELECTRIQUE MOYENNE OU HAUTE TENSION A ISOLATION GAZEUSE COMPRENANT DE L'HEPTAFLUOROISOBUTYRONITRILE ET DU TETRAFLUOROMETHANE**
[72] KIEFFEL, YANNICK, FR
[72] WILLIEME, JEAN-MARC, FR
[73] GENERAL ELECTRIC TECHNOLOGY GMBH, CH
[85] 2017-08-07
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[54] **METHOD AND SYSTEM FOR REDUCING DRAG IN A VEHICLE**
[54] **PROCEDE ET SYSTEME PERMETTANT DE REDUIRE LA TRAINEE D'UN VEHICULE**
[72] ELOGAB, OSAMA, GB
[72] ELOGAB, HATEM, GB
[73] OGAB LIMITED, GB
[85] 2017-08-08
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[54] **PRODUITS DE NITRATE D'AMMONIUM ET LEUR PROCEDE DE PREPARATION**
[72] ELIZUNDIA ERIZ, UNAI, ES
[72] HASS, MATEUSZ MAREK, FR
[73] MAXAMCORP HOLDING, S.L., ES
[85] 2017-08-09
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[54] **BOP CONTROL SYSTEMS AND RELATED METHODS**
[54] **SYSTEMES DE COMMANDE BOP ET PROCEDES ASSOCIES**
[72] DALTON, JOHN MATTHEW, US
[72] PEREIRA, LUIS, US
[73] TRANSOCEAN INNOVATION LABS LTD, KY
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[54] **STRIPPING OF A DIP-MOULDED GLOVE FROM A FORMER**
[54] **EXTRACTION D'UN GANT MOULE PAR IMMERSION DEPUIS UNE FORME DE MOULAGE**
[72] STOLLERY, JONATHAN WILLIAM, GB
[72] STOLLERY, KIM MARIE, GB
[73] SAFEDON LIMITED, GB
[85] 2017-08-16
[86] 2016-03-04 (PCT/IB2016/051245)
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[25] EN
[54] **DRESSING COMPRISING A FOLDABLE SECTION OVER A PAD DESIGNED FOR RECEIVING A HUBER NEEDLE**
[54] **PANSEMENT COMPRENANT UNE SECTION PLIABLE SUR UN TAMPON CONCU POUR RECEVOIR UNE AIGUILLE DE HUBER**
[72] VAILLANCOURT, MICHAEL J., US
[72] KERR, MARSHALL, US
[73] VAILLANCOURT, MICHAEL J., US
[73] KERR, MARSHALL, US
[85] 2017-08-16
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[54] **DISPOSITIF DE TRANSPORT**
[72] BEER, ROMAN, AT
[73] HANS KUNZ GMBH, AT
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[25] EN
[54] **RECEPTION APPARATUS, RECEPTION METHOD, TRANSMISSION APPARATUS, AND TRANSMISSION METHOD FOR A LOCATION BASED FILTERING OF EMERGENCY INFORMATION**
[54] **APPAREIL DE RECEPTION, PROCEDE DE RECEPTION, APPAREIL DE TRANSMISSION, ET PROCEDE DE TRANSMISSION POUR UN FILTRAGE BASE SUR UN EMPLACEMENT D'INFORMATIONS D'URGENCE**
[72] KITAZATO, NAOHISA, JP
[72] KITAHARA, JUN, JP
[72] YAMAGISHI, YASUAKI, JP
[72] YAMANE, TAKETOSHI, JP
[73] SONY CORPORATION, JP
[85] 2017-08-30
[86] 2016-03-22 (PCT/JP2016/001636)
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[25] EN
[54] **NARROWBAND DEPENDENT SUBFRAME AVAILABILITY FOR MTC**
[54] **DISPONIBILITE DE SOUS-TRAME DEPENDANTE D'UNE BANDE ETROITE POUR UNE COMMUNICATION DE TYPE MACHINE (MTC)**
[72] CHEN, WANSHI, US
[72] XU, HAO, US
[72] VAJAPEYAM, MADHAVAN SRINIVASAN, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-09-06
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[54] **MULTI-LAYERED MEAS WITH HYDROPHOBICITY GRADIENT**
[54] **ASSEMBLAGES MEMBRANE-ELECTRODE (AME) MULTICOUCHES PRESENTANT UN GRADIENTD'HYDROPHOBICITE**
[72] SEROV, ALEXEY, US
[72] ATANASSOV, PLAMEN B, US
[73] STC.UNM, US
[85] 2017-09-12
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[51] **Int.Cl. C07D 271/113 (2006.01) A01N 43/26 (2006.01)**
[25] EN
[54] **SALTS OF N-(1,3,4-OXADIAZOL-2-YL) ARYL CARBOXYLIC ACID AMIDES AND THE USE OF SAME AS HERBICIDES**
[54] **SELS D'AMIDES D'ACIDE ARYLCARBOXYLIQUE N-(1,3,4-OXADIAZOL-2-YL) ET LEUR UTILISATION COMME HERBICIDES**
[72] KOHN, ARNIM, DE
[72] BRAUN, RALF, DE
[72] AHRENS, HARTMUT, DE
[72] WALDRAFF, CHRISTIAN, DE
[72] HEINEMANN, INES, DE
[72] DIETRICH, HANSJORG, DE
[72] GATZWEILER, ELMAR, DE
[72] ROSINGER, CHRISTOPHER HUGH, DE
[73] BAYER CROPSCIENCE AKTIENGESELLSCHAFT, DE
[85] 2017-09-14
[86] 2016-03-14 (PCT/EP2016/055396)
[87] (WO2016/146561)
[30] EP (15159483.5) 2015-03-17

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[25] EN
[54] **DAIRY COMPOSITIONS**
[54] **COMPOSITIONS LAITIERES**
[72] LU, SABRINA, CA
[72] LAYE, ISABELLA, US
[72] KIMMEL, JENNIFER LOUISE, US
[72] LEVINE, ILSE D., US
[73] KRAFT FOODS GROUP BRANDS LLC, US
[85] 2017-09-21
[86] 2016-03-22 (PCT/CA2016/050330)
[87] (WO2016/149818)
[30] US (62/137,054) 2015-03-23

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[51] **Int.Cl. G05B 19/404 (2006.01) B23Q 15/22 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A GEAR-PROCESSING MACHINE**
[54] **PROCEDE SERVANT A FAIRE FONCTIONNER UN MACHINE A USINAGE DE DENTURE**
[72] WEBER, JURGEN, DE
[72] RIBBECK, KARL-MARTIN, DE
[72] BLASBERG, HERBERT, DE
[73] KLINGELNBERG AG, CH
[85] 2017-09-21
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[30] DE (102015104289.4) 2015-03-23

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[51] **Int.Cl. H02K 1/06 (2006.01) H02K 1/14 (2006.01) H02K 1/24 (2006.01)**
[25] EN
[54] **SWITCHED RELUCTANCE MACHINE WITH TOROIDAL WINDING**
[54] **MACHINE A RELUCTANCE COMMUTEE AVEC ENROULEMENT TOROIDAL**
[72] SUNTHARALINGAM, PIRANAVAN, CA
[72] EMADI, ALI, CA
[73] ENEDYM INC., CA
[85] 2017-09-25
[86] 2016-04-06 (PCT/CA2016/050396)
[87] (WO2016/161509)
[30] US (62/143,282) 2015-04-06

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[51] **Int.Cl. G06F 3/04883 (2022.01) G06F 3/0481 (2022.01) G06F 3/0484 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD TO PERFORM AN UNDO OPERATION USING A CONTINUOUS GESTURE**
[54] **SYSTEME ET METHODE SERVANT A REALISER UNE OPERATION D'ANNULATION AU MOYEN D'UN GESTE CONTINU**
[72] IERULLO, MARK, CA
[72] DHROLIA, SOPHIA, CA
[72] OSTOS, ANDREW, CA
[72] JAGGA, ARUN VICTOR, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2980789)
[87] (2980789)
[22] 2017-09-28

[11] **2,980,863**
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[51] **Int.Cl. B60J 10/84 (2016.01)**
[25] EN
[54] **OVERHEAD DOOR ROTATING SEAL**
[54] **JOINT PIVOTANT DE PORTE BASCULANTE**
[72] EHRLICH, RODNEY P., US
[73] WABASH NATIONAL, L.P., US
[86] (2980863)
[87] (2980863)
[22] 2017-09-29
[30] US (62/402,228) 2016-09-30
[30] US (15/715,867) 2017-09-26

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[13] C
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[25] EN
[54] **COSMETIC COMPOSITION CARRIER COMPRISING INTEGRATED SPONGE HAVING LAYERED STRUCTURE**
[54] **VEHICULE DE COMPOSITION COSMETIQUE COMPRENANT UNE EPONGE INTEGREE AYANT UNE STRUCTURE EN COUCHES**
[72] CHOI, JUNG SUN, KR
[73] AMOREPACIFIC CORPORATION, KR
[85] 2017-09-25
[86] 2016-04-06 (PCT/KR2016/003564)
[87] (WO2016/163730)
[30] KR (10-2015-0049839) 2015-04-08

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[25] EN
[54] **ANIMAL FEED COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS D'ALIMENT POUR ANIMAUX ET PROCEDES D'UTILISATION**
[72] WITHERSPOON, DAVID, US
[72] IRAGAVARAPU, TAMMIRAJ KUMAR, US
[73] SYNGENTA PARTICIPATIONS AG, CH
[85] 2017-09-28
[86] 2016-04-08 (PCT/US2016/026656)
[87] (WO2016/164732)
[30] US (62/145,587) 2015-04-10

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[25] EN
[54] **ANAEROBIC DIGESTER ENHANCEMENT**
[54] **AMELIORATION DE DIGESTEUR ANAEROBIE**
[72] MADOLORA, MATTHEW P., US
[73] PREMIER MAGNESIA, LLC, US
[86] (2981421)
[87] (2981421)
[22] 2017-10-04
[30] US (62/403,926) 2016-10-04

[11] **2,981,461**
[13] C
[51] **Int.Cl. A61B 8/12 (2006.01) A61B 5/20 (2006.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING SUB-TISSUE ANOMALIES**
[54] **PROCEDES ET SYSTEMES POUR LA DETECTION D'ANOMALIES SOUS-TISSULAIRES**
[72] LIU, HANLI, US
[72] KAVURI, VENKAIAH C., US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2017-09-29
[86] 2015-04-29 (PCT/US2015/028342)
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[30] US (61/985,905) 2014-04-29

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[51] **Int.Cl. E21B 19/06 (2006.01) E21B 19/081 (2006.01) F04B 47/02 (2006.01)**
[25] EN
[54] **POLISHED ROD ROTATOR WITH HEIGHT ADJUSTER**
[54] **ROTATEUR DE TIGE POLIE AVEC SYSTEME DE REGLAGE DE HAUTEUR**
[72] SCEKIC, VLADIMIR, CA
[72] MCCORRISTON, TODD, CA
[72] SIMMERS, CRAIG, CA
[73] 1914415 ALBERTA LTD., CA
[85] 2017-10-03
[86] 2016-03-18 (PCT/CA2016/050311)
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[30] US (62/144,618) 2015-04-08

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[13] C
[51] **Int.Cl. B01J 29/40 (2006.01) B01J 35/08 (2006.01) B01J 37/08 (2006.01)**
[25] EN
[54] **ZSM-5 CATALYST**
[54] **CATALYSEUR ZSM-5**
[72] GAO, XINGTAO, US
[72] CASTELLANO, CHRISTOPHER R., US
[72] DOWD, BRENDAN PATRICK, US
[73] BASF CORPORATION, US
[85] 2017-10-03
[86] 2016-04-08 (PCT/US2016/026608)
[87] (WO2016/164698)
[30] US (62/145,170) 2015-04-09

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[13] C
[51] **Int.Cl. G06F 11/30 (2006.01) G06F 9/44 (2018.01)**
[25] EN
[54] **AUTOMATIC TASK TRACKING**
[54] **SUIVI DE TACHES AUTOMATIQUES**
[72] SRINIVASAIAH, VINAY, US
[72] NAGARAJ, SANJAY, US
[73] APPDYNAMICS LLC, US
[85] 2017-10-10
[86] 2015-04-30 (PCT/US2015/028609)
[87] (WO2016/175851)
[30] US (14/699,776) 2015-04-29

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[51] **Int.Cl. B21H 8/00 (2006.01) B21D 13/04 (2006.01) B21D 22/08 (2006.01) B21D 28/36 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR MANUFACTURING PLATE PARTS FOR A HEAT EXCHANGER**
[54] **PROCEDE ET DISPOSITIF PERMETTANT LA FABRICATION DE PLAQUES POUR UN ECHANGEUR DE CHALEUR**
[72] KONTU, MAURI, FI
[72] PITKANEN, PAAVO, FI
[73] VAHTERUS OY, FI
[85] 2017-10-13
[86] 2016-04-11 (PCT/FI2016/050232)
[87] (WO2016/166411)
[30] FI (20155287) 2015-04-17

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[51] **Int.Cl. C09D 165/00 (2006.01) C08L 65/00 (2006.01) C08L 101/02 (2006.01) C09D 201/02 (2006.01)**
[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF A CROSSLINKABLE COMPOSITION**
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION RETICULABLE**
[72] DE WOLF, ELWIN ALOYSIUS CORNELIUS ADRIANUS, NL
[72] THYS, FERRY LUDOVICUS, BE
[72] BRINKHUIS, RICHARD HENDRIKUS GERRIT, NL
[72] MANGNUS-VERHAGEN, NICOLE, NL
[72] BUSER, ANTONIUS JOHANNES WILHELMUS, NL
[73] ALLNEX NETHERLANDS B.V., NL
[85] 2017-10-16
[86] 2016-04-15 (PCT/EP2016/058427)
[87] (WO2016/166334)
[30] NL (2014666) 2015-04-17

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[51] **Int.Cl. G01N 21/95 (2006.01) B65B 9/087 (2012.01) B65B 57/10 (2006.01) B65B 57/16 (2006.01) B65B 61/02 (2006.01) B65B 57/02 (2006.01) B65B 57/08 (2006.01) G01N 21/956 (2006.01)**
[25] EN
[54] **APPARATUS FOR PACKAGING INDIVIDUAL MEDICATION DOSES AND METHOD FOR ITS OPERATION**
[54] **APPAREIL D'EMBALLAGE DE DOSES INDIVIDUELLES DE MEDICAMENT ET SA METHODE D'UTILISATION**
[72] HELLENBRAND, CHRISTOPH, DE
[72] JORRITSMA, MINNE, NL
[73] BECTON DICKINSON ROWA GERMANY GMBH, DE
[85] 2017-10-17
[86] 2016-04-14 (PCT/EP2016/058163)
[87] (WO2016/166187)
[30] EP (15163950.7) 2015-04-17

[11] **2,983,722**
[13] C
[51] **Int.Cl. G01N 23/046 (2018.01)**
[25] EN
[54] **IMAGE ACQUISITION DEVICE, IMAGE ACQUISITION METHOD, AND IMAGE CORRECTION PROGRAM**
[54] **DISPOSITIF D'ACQUISITION D'IMAGE, PROCEDE D'ACQUISITION D'IMAGE ET PROGRAMME DE CORRECTION D'IMAGE**
[72] MONKAWA, AKIRA, JP
[72] NAKANISHI, SHOICHI, JP
[72] ABE, SHINYA, JP
[73] TOKYO METROPOLITAN INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, JP
[85] 2017-10-23
[86] 2016-06-03 (PCT/JP2016/066539)
[87] (WO2016/195058)
[30] JP (2015-115101) 2015-06-05

[11] **2,984,058**
[13] C
[51] **Int.Cl. G01R 31/00 (2006.01) B61L 23/04 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ALERTING A USER TO THE PRESENCE OF A FAULT IN AN ELECTROMECHANICAL SYSTEM IN A RAILWAY INFRASTRUCTURE**
[54] **PROCEDES ET SYSTEMES POUR ALERTER UN UTILISATEUR DE LA PRESENCE D'UNE PANNE DANS UN SYSTEME ELECTROMECANIQUE DANS UNE INFRASTRUCTURE FERROVIAIRE**
[72] SAUNDERS, WILLIAM, GB
[72] SAMUELS, STEVE, GB
[73] THALES HOLDINGS UK PLC, GB
[85] 2017-10-26
[86] 2016-02-09 (PCT/GB2016/050295)
[87] (WO2016/174382)
[30] GB (1507233.3) 2015-04-28

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[51] **Int.Cl. C22C 38/12 (2006.01) C21D 8/00 (2006.01) C22C 30/00 (2006.01) C22C 38/08 (2006.01) C22C 38/10 (2006.01)**
[25] FR
[54] **STEEL, PRODUCT MADE OF SAID STEEL, AND MANUFACTURING METHOD THEREOF**
[54] **ACIER, PRODUIT REALISE EN CET ACIER, ET SON PROCEDE DE FABRICATION**
[72] PERRIN GUERIN, VALERIE, FR
[72] PINTON, GILLES, FR
[72] BORDAS, ANGELINE, FR
[72] VALLADE, CHRISTIAN, FR
[73] APERAM, LU
[85] 2017-10-26
[86] 2016-04-25 (PCT/IB2016/052331)
[87] (WO2016/170519)
[30] IB (PCT/IB2015/052975) 2015-04-23

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[13] C
[51] **Int.Cl. C22F 1/04 (2006.01) C22C 21/00 (2006.01)**
[25] EN
[54] **NEW 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME**
[54] **NOUVEAUX ALLIAGES D'ALUMINIUM 6XXX ET LEURS PROCEDES DE FABRICATION**
[72] BRYANT, JAMES DANIEL, US
[72] WELLER, COLLEEN E., US
[72] MOOY, DIRK C., US
[72] MEISSEN, ZACHARIAH D., US
[73] ARCONIC TECHNOLOGIES LLC, US
[85] 2017-11-01
[86] 2016-05-26 (PCT/US2016/034260)
[87] (WO2016/196166)
[30] US (62/168,194) 2015-05-29

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[13] C
[51] **Int.Cl. B25C 1/00 (2006.01) B25C 1/06 (2006.01) B25C 1/08 (2006.01) B25C 5/00 (2006.01)**
[25] EN
[54] **JAM RELEASE AND LIFTER MECHANISM FOR GAS SPRING FASTENER DRIVER**
[54] **MECANISME DE SOULEVEMENT ET DE LIBERATION DE BOURRAGE DESTINE A UN MECANISME D'ENTRAINEMENT DE SOURCE DE GAZ**
[72] POMEROY, EDWARD, US
[72] SCOTT, ZACHARY, US
[72] SCHNELL, JOHN, US
[72] NAMOUZ, ESSAM, US
[73] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN
[86] (2985110)
[87] (2985110)
[22] 2017-11-09
[30] US (62/416,605) 2016-11-09
[30] US (62/419,863) 2016-11-09

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[13] C
[51] **Int.Cl. B05B 17/00 (2006.01) B06B 1/06 (2006.01)**
[25] EN
[54] **ACOUSTIC WAVE MICROFLUIDIC DEVICES WITH INCREASED ACOUSTIC WAVE ENERGY UTILISATION**
[54] **DISPOSITIFS MICROFLUIDIQUES A ONDES SONORES A UTILISATION D'ENERGIE ACCRUE D'ONDES SONORES**
[72] TAN, JAMES, AU
[72] REZK, AMGAD, AU
[72] AHMED, HEBA, AU
[72] YEO, LESLIE, AU
[73] ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY, AU
[85] 2017-11-07
[86] 2016-05-13 (PCT/AU2016/050363)
[87] (WO2016/179664)
[30] AU (2015901737) 2015-05-13

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[13] C
[51] **Int.Cl. G06F 3/0488 (2022.01) G06F 3/04847 (2022.01)**
[25] EN
[54] **TOUCH PANEL FOR MANUALLY OPERATING MACHINERY**
[54] **PANNEAU TACTILE PERMETTANT DE FAIRE FONCTIONNER MANUELLEMENT DES MACHINES**
[72] HAMAGUCHI, JUN, JP
[73] DAIFUKU CO., LTD., JP
[85] 2017-11-07
[86] 2016-03-08 (PCT/JP2016/057115)
[87] (WO2016/194429)
[30] JP (2015-114446) 2015-06-05

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[13] C
[51] **Int.Cl. A23L 33/125 (2016.01) C12N 11/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GROWING A BIOFILM OF PROBIOTIC BACTERIA ON SOLID PARTICLES FOR COLONIZATION OF BACTERIA IN THE GUT**
[54] **SYSTEMES ET PROCEDES POUR FAIRE CROITRE UN BIOFILM DE BACTERIES PROBIOTIQUES SUR DES PARTICULES SOLIDES POUR LA COLONISATION DE L'INTESTIN PAR LES BACTERIES**
[72] BARAM, DAVID, IL
[72] DIAMANT, RACHEL, IL
[72] DABOUSH, DAVID, IL
[73] MYBIOTICS PHARMA LTD, IL
[85] 2017-11-10
[86] 2016-05-09 (PCT/IB2016/000933)
[87] (WO2016/181228)
[30] US (62/159,849) 2015-05-11
[30] US (62/159,846) 2015-05-11

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[13] C
[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON DIFFERENT FUNDS SERVERS, AND PAYMENT METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR DIFFERENTS SERVEURS DE FONDS, ET PROCEDE DE PAIEMENT, DISPOSITIF ET SERVEUR ASSOCIE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-22
[86] 2015-04-30 (PCT/CN2015/078032)
[87] (WO2016/172939)

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[51] **Int.Cl. G06Q 40/03 (2023.01)**
[25] EN
[54] **REPAYMENT PROCESSING METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT DE REMBOURSEMENT**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-28
[86] 2015-05-29 (PCT/CN2015/080309)
[87] (WO2016/191948)

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[51] **Int.Cl. G02C 5/02 (2006.01) G02C 3/00 (2006.01) G02C 5/20 (2006.01) G02C 11/00 (2006.01)**
[25] EN
[54] **FLOATABLE EYEWEAR**
[54] **LUNETTES FLOTTANTES**
[72] LANDO, RON, US
[73] CLIC GOGGLES, INC., US
[85] 2017-11-29
[86] 2015-08-12 (PCT/US2015/044913)
[87] (WO2016/195730)
[30] US (14/726,575) 2015-05-31

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[13] C
[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/4192 (2006.01) A61P 33/06 (2006.01) C07D 207/08 (2006.01) C07D 207/20 (2006.01) C07D 207/333 (2006.01) C07D 249/06 (2006.01) C07D 261/08 (2006.01) C07D 401/10 (2006.01) C07D 401/12 (2006.01) C07D 413/10 (2006.01)**
[25] EN
[54] **SUBSTITUTED AMINOALKYLAZOLES AS MALARIAL ASPARTIC PROTEASE INHIBITORS**
[54] **AMINOALKYLAZOLES SUBSTITUES UTILISES COMME INHIBITEURS DE LA PROTEASE ASPARTIQUE DU PALUDISME**
[72] KINENA, LINDA, LV
[72] OZOLA, VITA, LV
[72] SUNA, EDGARS, LV
[72] LEITIS, GUNDARS, LV
[72] JIRGENSONS, AIGARS, LV
[72] JAUDZEMS, KRISTAPS, LV
[72] KANEPE-LAPSA, IVETA, LV
[72] DOMRACHEVA, ILONA, LV
[73] LATVIAN INSTITUTE OF ORGANIC SYNTHESIS, LV
[85] 2017-12-05
[86] 2015-10-19 (PCT/LV2015/000007)
[87] (WO2017/069601)

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[13] C
[51] **Int.Cl. A61K 31/343 (2006.01) A61K 31/33 (2006.01) A61K 31/381 (2006.01) A61K 31/404 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMBINATION AND USES THEREOF**
[54] **ASSOCIATION PHARMACEUTIQUE ET UTILISATIONS DE CETTE ASSOCIATION**
[72] KREMMIDIOTIS, GABRIEL, AU
[72] LAVRANOS, TINA, AU
[72] INGLIS, DANIEL, AU
[73] BIONOMICS LIMITED, AU
[85] 2017-12-07
[86] 2016-06-10 (PCT/AU2016/050478)
[87] (WO2016/197204)
[30] AU (2015902260) 2015-06-11

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[13] C
[51] **Int.Cl. G10L 19/02 (2013.01) G10L 19/022 (2013.01)**
[25] EN
[54] **DOWNSCALED DECODING**
[54] **DECODAGE A ECHELLE REDUITE**
[72] SCHNELL, MARKUS, DE
[72] LUTZKY, MANFRED, DE
[72] FOTOPOULOU, ELENI, DE
[72] SCHMIDT, KONSTANTIN, DE
[72] BENNDORF, CONRAD, DE
[72] TOMASEK, ADRIAN, DE
[72] ALBERT, TOBIAS, DE
[72] SEIDL, TIMON, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
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[86] 2016-06-10 (PCT/EP2016/063371)
[87] (WO2016/202701)
[30] EP (15172282.4) 2015-06-16
[30] EP (15189398.9) 2015-10-12

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[13] C
[51] **Int.Cl. E06B 7/32 (2006.01) E06B 7/28 (2006.01)**
[25] EN
[54] **PET DOOR HAVING INSULATING FLAP**
[54] **PORTE DESTINEE A UN ANIMAL DE COMPAGNIE COMPORTANT UN VOLET ISOLANT**
[72] MAININI, CHRISTOPHER E., US
[72] GROH, WILLIAM S., US
[73] RADIO SYSTEMS CORPORATION, US
[86] (2989351)
[87] (2989351)
[22] 2017-12-15
[30] US (15/834,963) 2017-12-07
[30] US (62/436,907) 2016-12-20

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[13] C
[51] **Int.Cl. H02J 4/00 (2006.01) H02B 1/28 (2006.01) H02G 3/14 (2006.01)**
[25] EN
[54] **ROOFTOP POWER PEDESTAL WITH PROTECTIVE APPARATUS FOR ELECTRICAL OUTLETS**
[54] **SUPPORT D'ALIMENTATION DE DESSUS DE TOIT DOTE D'UN APPAREILLAGE PROTECTEUR DE PRISES ELECTRIQUES**
[72] BROERE, HANS, CA
[73] A.C. DANDY PRODUCTS LTD., CA
[86] (2989788)
[87] (2989788)
[22] 2017-12-21

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[25] EN
[54] **ELECTRICALLY DRIVEN SHELVING SYSTEM WITH A SCANNING ARRANGEMENT**
[54] **SYSTEME DE RAYONNAGE A ENTRAINEMENT ELECTRIQUE COMPORTANT UN DISPOSITIF DE BALAYAGE**
[72] PARKER, BRIAN MAURICE, AU
[72] CAMPBELL, GEORGE GILES, AU
[73] GLIDESTORE FREETRACK PTY LTD, AU
[85] 2017-12-19
[86] 2015-05-28 (PCT/AU2015/000318)
[87] (WO2016/187642)

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[51] **Int.Cl. G06Q 30/00 (2023.01)**
[25] EN
[54] **METHOD FOR ESTABLISHING INTERACTION RELATIONSHIP, AND INTERACTION TERMINAL**
[54] **PROCEDE D'ETABLISSEMENT D'UNE RELATION D'INTERACTION, ET TERMINAL D'INTERACTION**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-12-20
[86] 2015-06-30 (PCT/CN2015/082763)
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[54] **ISOLATOR**
[54] **ISOLATEUR**
[72] BROWN, MICHAEL R., US
[72] CARABALLO, SAMUEL, US
[72] KEITHLY, ADAM, US
[72] CUNE, GREGG, US
[72] OWENS, JONATHAN, US
[73] LORD CORPORATION, US
[85] 2017-12-20
[86] 2016-06-30 (PCT/US2016/040453)
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[25] EN
[54] **TREATED NONWOVEN HAVING AN AFFINITY FOR AN ACTIVE INGREDIENT**
[54] **NON-TISSE TRAITE AYANT UNE AFFINITE POUR UN PRINCIPE ACTIF**
[72] ERLANDSSON, SVEN KRISTER, US
[72] GRONDIN, PIERRE, US
[72] MOODY, RALPH A., III, US
[73] AVINTIV SPECIALTY MATERIALS INC., US
[85] 2017-12-21
[86] 2016-07-13 (PCT/US2016/041994)
[87] (WO2017/011500)
[30] US (62/191,847) 2015-07-13

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[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING MICROSCOPIC LEAKS**
[54] **SYSTEME ET PROCEDE DE DETECTION DE FUITES MICROSCOPIQUES**
[72] PARKER, ZACHARY, US
[72] HAWKINS, MARK C., US
[73] REDLINE DETECTION, LLC, US
[85] 2018-01-05
[86] 2016-07-22 (PCT/US2016/043516)
[87] (WO2017/015547)
[30] US (62/195,613) 2015-07-22
[30] US (15/215,706) 2016-07-21

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[51] **Int.Cl. H04B 1/3888 (2015.01) A45C 11/00 (2006.01)**
[25] EN
[54] **PROTECTIVE ENCLOSURE FOR AN ELECTRONIC DEVICE**
[54] **BOITIER DE PROTECTION POUR DISPOSITIF ELECTRONIQUE**
[72] JOHNSON, JAMIE L., US
[72] GUERDRUM, JONATHAN H., US
[72] GAYLORD, AARON M., US
[72] LI, SHANSHAN, US
[72] BULKEY, ROSS V., US
[73] OTTER PRODUCTS, LLC, US
[85] 2018-01-15
[86] 2016-07-15 (PCT/US2016/042412)
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[25] EN
[54] **BELT SPLICER**
[54] **DISPOSITIF DE RACCORDEMENT DE BANDES**
[72] GUTTENBERG, ROBERT G., US
[72] NAZAR, GABRIEL, US
[73] LAITRAM, L.L.C., US
[85] 2018-01-18
[86] 2016-07-13 (PCT/US2016/042119)
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[25] EN
[54] **DECHLORINATION COMPOSITIONS, COMPRESSED SOLIDS FORMED THEREFROM, AND METHODS OF PREPARING THE SAME**
[54] **COMPOSITIONS DE DECHLORATION, SOLIDES COMPRIMES FORMES A PARTIR DE CELLES-CI, ET LEURS PROCEDES DE PREPARATION**
[72] KAREIS, CHRISTOPHER M., US
[73] EAGLE US 2 LLC, US
[85] 2018-01-24
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[25] EN
[54] **TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD**
[54] **DISPOSITIF TERMINAL, DISPOSITIF STATION DE BASE ET PROCEDE DE COMMUNICATION**
[72] SHIMEZAWA, KAZUYUKI, JP
[72] KUSASHIMA, NAOKI, JP
[72] OUCHI, WATARU, JP
[72] HAYASHI, TAKASHI, JP
[73] SHARP KABUSHIKI KAISHA, JP
[85] 2018-01-29
[86] 2016-08-02 (PCT/JP2016/072702)
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[25] EN
[54] **ANTI-TNF ANTIBODIES, COMPOSITIONS, AND METHODS FOR THE TREATMENT OF ACTIVE ANKYLOSING SPONDYLITIS**
[54] **ANTICORPS ANTI-TNF, COMPOSITIONS ET METHODES DE TRAITEMENT DE SPONDYLARTHRITE ANKYLOSANTE ACTIVE**
[72] HARRISON, DIANE D., US
[72] HSIA, ELIZABETH C., US
[72] KIM, LEE-LIAN, US
[72] LO, KIM HUNG, US
[73] JANSSEN BIOTECH, INC., US
[86] (2994253)
[87] (2994253)
[22] 2018-02-06
[30] US (62/455,651) 2017-02-07

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[25] FR
[54] **DEVICE AND METHOD FOR NON-INVASIVE MEASUREMENT OF SUBDIAPHRAGMATIC AORTIC FLOW IN A SMALL LABORATORY MAMMAL**
[54] **DISPOSITIF ET PROCEDE DE MESURE NON-INVASIVE DU DEBIT AORTIQUE SOUS-DIAPHRAGMATIQUE CHEZ UN PETIT MAMMIFERE DE LABORATOIRE**
[72] BACONNIER, PIERRE, FR
[72] BOUCHER, FRANCOIS, FR
[72] GUMERY, PIERRE-YVES, FR
[73] UNIVERSITE GRENOBLE ALPES, FR
[85] 2018-02-09
[86] 2016-08-26 (PCT/FR2016/052130)
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[25] EN
[54] **DISTRIBUTING REMOTE DEVICE MANAGEMENT ATTRIBUTES TO SERVICE NODES FOR SERVICE RULE PROCESSING**
[54] **DISTRIBUTION D'ATTRIBUTS DE GESTION DES PERIPHERIQUES DISTANTS A DES NOEUDS DE SERVICE POUR LE TRAITEMENT DE REGLES DE SERVICE**
[72] JAIN, JAYANT, US
[72] SENGUPTA, ANIRBAN, US
[72] NIMMAGADDA, SRINIVAS, US
[72] TIAGI, ALOK S., US
[72] KUMAR, KAUSUM, US
[73] NICIRA, INC., US
[85] 2018-02-22
[86] 2016-08-26 (PCT/US2016/049109)
[87] (WO2017/040334)
[30] US (62/211,677) 2015-08-28
[30] US (14/929,399) 2015-11-01
[30] US (14/929,400) 2015-11-01
[30] US (14/929,403) 2015-11-01
[30] US (14/929,405) 2015-11-01
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[30] US (14/929,402) 2015-11-01
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[51] **Int.Cl. A61L 2/04 (2006.01) A61L 2/24 (2006.01) C02F 1/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FLUID STERILIZATION**
[54] **SYSTEME ET PROCEDE DE STERILISATION DE FLUIDE**
[72] PAPADOPOULOS, MICHAEL, US
[72] PAPADOPOULOS, CHRISTIAN, US
[72] PAPADOPOULOS, MARK, US
[72] LEWIS, JAMES RAY, US
[73] PAPADOPOULOS, MICHAEL, US
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[54] **PRESS FITTING FOR PIPES HAVING A CHECK RING**
[54] **AJUSTEMENT PAR PRESSION POUR TUYAUX COMPORTANT UNE BAGUE DE CONTROLE**
[72] RUISSEN, JOHANNES, NL
[72] HULLEGIEN, ANDREAS HUBERTUS, NL
[73] VSH FITTINGS B.V., NL
[85] 2018-02-27
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[25] EN
[54] **PREDICTING SOLVENT POWER OF LIGHT OILS**
[54] **PREDICTION DU POUVOIR SOLVANT DE PETROLES BRUTS LEGERS**
[72] BALASHANMUGAM, SOBAN, US
[72] FISHER, RONALD, US
[72] RUEDA-VELASQUEZ, ROSA, US
[72] HALLIDAY, DEVIN, US
[73] BP CORPORATION NORTH AMERICA INC., US
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[86] 2016-08-17 (PCT/US2016/047301)
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[51] **Int.Cl. C07C 273/04 (2006.01) C07C 275/00 (2006.01)**
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[54] **UREA MANUFACTURING METHOD AND UREA MANUFACTURING APPARATUS**
[54] **PROCEDE ET DISPOSITIF DE PRODUCTION D'UREE**
[72] SATO, KEISHI, JP
[72] YOSHIMOTO, KENJI, JP
[72] MORIKAWA, HARUYUKI, JP
[73] TOYO ENGINEERING CORPORATION, JP
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[86] 2016-08-31 (PCT/JP2016/075505)
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[51] **Int.Cl. D01F 1/10 (2006.01)**
[25] EN
[54] **POLYMER COMPOSITIONS, FIBERS AND THREADS WITH PETROLATUM AND/OR OLEIC ACID-CONTAINING OILS**
[54] **COMPOSITIONS POLYMERES, FIBRES ET FILS CONTENANT DE LA VASELINE ET/OU DES HUILES RENFERMANT DES ACIDES OLEIQUES**
[72] BAUERFEIND, HANS B., DE
[73] BAUERFEIND AG, DE
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[87] (WO2017/042362)
[30] DE (10 2015 217 382.8) 2015-09-11

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[25] EN
[54] **A METHOD OF PREPARING NATURAL GAS TO PRODUCE LIQUID NATURAL GAS (LNG)**
[54] **PROCEDE DE PREPARATION DE GAZ NATUREL POUR PRODUIRE DU GAZ NATUREL LIQUIDE (GNL)**
[72] MILLAR, MACKENZIE, CA
[72] LOURENCO, JOSE, CA
[73] 1304342 ALBERTA LTD., CA
[73] 1304338 ALBERTA LTD., CA
[85] 2018-03-13
[86] 2016-05-19 (PCT/CA2016/050559)
[87] (WO2017/045066)
[30] CA (PCT/CA2015/050896) 2015-09-16

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[51] **Int.Cl. G05B 19/418 (2006.01) G06K 7/10 (2006.01)**
[25] EN
[54] **ROBOTIC SYSTEMS AND METHODS FOR IDENTIFYING AND PROCESSING A VARIETY OF OBJECTS**
[54] **SYSTEMES ROBOTIQUES ET PROCEDES D'IDENTIFICATION ET DE TRAITEMENT DE DIVERS OBJETS**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] COHEN, BENJAMIN, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] PRICE, GENE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
[85] 2018-03-12
[86] 2016-09-09 (PCT/US2016/050949)
[87] (WO2017/044747)
[30] US (62/217,200) 2015-09-11
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[54] **MARINE ENGINE LUBRICATION**
[54] **LUBRIFICATION DE MOTEUR MARIN**
[72] MARSH, ADAM PAUL, GB
[72] HUGHES, JONATHAN MARK, GB
[73] INFINEUM INTERNATIONAL LIMITED, GB
[86] (2999165)
[87] (2999165)
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[51] **Int.Cl. B65D 25/40 (2006.01) B01D 27/08 (2006.01) B01D 35/02 (2006.01) B65D 51/24 (2006.01)**
[25] EN
[54] **FILTER CARTRIDGE PLACEMENT IN FILTER AS YOU POUR SYSTEM**
[54] **SYSTEME DE POSITIONNEMENT DE CARTOUCHE FILTRANTE DANS UN FILTRE AU MOMENT DU VERSEMENT**
[72] DANI, NIKHIL P., US
[72] RINKER, EDWARD B., US
[72] BELL, RUSSELL, US
[73] BRITA LP, CA
[85] 2018-03-28
[86] 2016-09-27 (PCT/IB2016/001474)
[87] (WO2017/055915)
[30] US (62/235,321) 2015-09-30

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[51] **Int.Cl. B28B 19/00 (2006.01) B28C 5/00 (2006.01) C04B 28/04 (2006.01) C04B 40/00 (2006.01)**
[25] EN
[54] **DECORATIVE CONCRETE TOPPING PROCESS**
[54] **PROCEDE DE CHAPE DE BETON DECORATIVE**
[72] SHVARZMAN, ASIA, CA
[73] SKARB HOLDINGS INC., CA
[86] (3000469)
[87] (3000469)
[22] 2018-04-06
[30] US (62/621,303) 2018-01-24
[30] US (62/483,660) 2017-04-10

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[25] EN
[54] **OXYGENATE REDUCTION CATALYST AND PROCESS**
[54] **CATALYSEUR ET PROCEDE DE REDUCTION DE COMPOSES OXYGENES**
[72] HEYDENRYCH, MICHAEL, ZA
[72] DEL FABBRO, OLINTO, ZA
[72] FOCKE, WALTER, ZA
[72] LABUSCHAGNE, FREDERICK, ZA
[72] MERCKEL, RYAN, ZA
[73] UNIVERSITY OF PRETORIA, ZA
[85] 2018-04-03
[86] 2016-10-04 (PCT/ZA2016/050039)
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[30] ZA (2015/07340) 2015-10-05

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[51] **Int.Cl. G06V 40/16 (2022.01) G06V 10/764 (2022.01) G06V 20/30 (2022.01)**
[25] EN
[54] **IMAGE PRODUCT CREATION BASED ON FACE IMAGES GROUPED USING IMAGE PRODUCT STATISTICS**
[54] **CREATION DE PRODUITS D'IMAGE FONDES SUR DES IMAGES DE VISAGE REGROUPEES A L'AIDE DE STATISTIQUES DE PRODUITS D'IMAGE**
[72] SANDLER, ROMAN, US
[72] KENIS, ALEXANDER M., US
[73] SHUTTERFLY, INC., US
[85] 2018-04-04
[86] 2015-12-01 (PCT/US2015/063134)
[87] (WO2016/175895)
[30] US (14/699,604) 2015-04-29

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[13] C
[51] **Int.Cl. F15B 11/16 (2006.01) F15B 20/00 (2006.01)**
[25] EN
[54] **PNEUMATIC ACTUATION SYSTEMS HAVING IMPROVED FEEDBACK CONTROL**
[54] **SYSTEMES D'ACTIONNEMENT PNEUMATIQUE AYANT UN CONTROLE DE RETROACTION AMELIORE**
[72] HUTCHISON, MATTHEW G., US
[72] BOSWORTH, WILLIAM, US
[72] KEHLENBECK, ANDREW, US
[72] JENSEN, DEVIN, US
[73] AURORA FLIGHT SCIENCES CORPORATION, US
[86] (3001379)
[87] (3001379)
[22] 2018-04-11
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[13] C
[51] **Int.Cl. G06Q 10/1093 (2023.01) G06Q 10/0631 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR VEHICLE SERVICE SCHEDULER**
[54] **SYSTEME ET PROCEDE DE PROGRAMMATEUR D'ENTRETIEN DE VEHICULE**
[72] JOHNSON, LESTER B., US
[72] DWULET, JOHN H., US
[73] MITCHELL REPAIR INFORMATION COMPANY, LLC, US
[85] 2018-04-09
[86] 2016-11-01 (PCT/US2016/059830)
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[30] US (62/249,712) 2015-11-02
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[51] **Int.Cl. B62D 55/24 (2006.01) A01B 69/00 (2006.01)**
[25] EN
[54] **TRACK SYSTEM FOR TRACTION OF AN AGRICULTURAL VEHICLE TRAVELLING ON FIELDS AND ROADS**
[54] **SYSTEME DE CHENILLE DESTINE A LA TRACTION D'UN VEHICULE CIRCULANT DANS LES CHAMPS ET SUR LES ROUTES**
[72] LUNKENBEIN, MARTIN, CA
[73] CAMSO INC., CA
[86] (3002278)
[87] (3002278)
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[62] 2,899,527

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[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/00 (2016.01) A23L 27/30 (2016.01)**
[25] EN
[54] **SWEETNESS ENHANCEMENT**
[54] **AMELIORATION DE LA SUCROSITE**
[72] KULKA, HEDY, US
[72] UNGUREANU, IOANA MARIA, US
[73] GIVAUDAN SA, CH
[85] 2018-04-19
[86] 2016-10-20 (PCT/EP2016/075210)
[87] (WO2017/068034)
[30] US (62/244,808) 2015-10-22

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[25] EN
[54] **METHOD OF MASKING OFF-TASTES WITH CELLOBIOSE AND/OR PSICOSE**
[54] **PROCEDE DE MASQUAGE DES MAUVAIS GOUTS A L'AIDE DE CELLOBIOSE ET/OU DE PSICOSE**
[72] UNGUREANU, IOANA MARIA, US
[72] VAN OMMEREN, ESTHER, NL
[73] GIVAUDAN SA, CH
[85] 2018-04-19
[86] 2016-10-20 (PCT/EP2016/075209)
[87] (WO2017/068033)
[30] US (62/244,819) 2015-10-22

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[25] EN
[54] **SYSTEMS AND METHODS OF UNMIXING IMAGES WITH VARYING ACQUISITION PROPERTIES**
[54] **SYSTEMES ET PROCEDES DE NON-MELANGE D'IMAGES PRESENTANT DES PROPRIETES D'ACQUISITION VARIABLES**
[72] BREDNO, JOERG, US
[72] MARTIN, JIM F., US
[73] VENTANA MEDICAL SYSTEMS, INC., US
[85] 2018-04-23
[86] 2016-12-16 (PCT/EP2016/081329)
[87] (WO2017/103035)
[30] US (62/269,767) 2015-12-18

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[51] **Int.Cl. G06Q 30/08 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SEALED BID AUCTIONS**
[54] **PROCEDE ET SYSTEME D'ENCHERES A OFFRES SCELLEES**
[72] WANG, KEVIN SUNLIN, US
[73] WANG, KEVIN SUNLIN, US
[85] 2018-04-27
[86] 2016-02-19 (PCT/IB2016/050890)
[87] (WO2017/141074)

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[13] C
[51] **Int.Cl. C08L 29/04 (2006.01) C08K 3/01 (2018.01) C08K 3/013 (2018.01) C08K 3/34 (2006.01) C08K 3/38 (2006.01) C08K 5/17 (2006.01) C08L 3/02 (2006.01)**
[25] EN
[54] **MOLDABLE COMPOSITIONS AND METHODS OF USING THEREOF**
[54] **COMPOSITIONS MOULABLES ET METHODES D'UTILISATION ASSOCIEES**
[72] MOSKAL, MICHAEL G., US
[72] DRAGO, ANTHONY C., US
[72] ROWAN, DAVID E., US
[72] SPERA, MICHAEL L., US
[73] CRAYOLA LLC, US
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[54] **EMULSIONS D'HUILE DANS L'EAU**
[72] CRAIGE, SIMON, DK
[72] MILES, JASON VICTOR, GB
[72] SELSE, DENNIS, SE
[72] KRIGSMAN, JOAKIM, SE
[73] QUADRISE INTERNATIONAL LTD, GB
[73] NOURYON CHEMICALS INTERNATIONAL B.V., NL
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[54] **WEAK GEL SYSTEM FOR CHEMICAL ENHANCED OIL RECOVERY**
[54] **SYSTEME A GEL REVERSIBLE POUR RECUPERATION D'HYDROCARBURES ASSISTEE PAR VOIE CHIMIQUE**
[72] SZALAI, MICHAEL L., US
[72] LIU, MEI, US
[72] CHANG, KIN-TAI, US
[73] CHAMPIONX USA INC., US
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[54] **POLYPEPTIDE DU FGF2 THERMOSTABLE ET SON UTILISATION**
[72] DVORAK, PETR, CZ
[72] KREJCI, PAVEL, CZ
[72] BALEK, LUKAS, CZ
[72] EISELLEOVA, LIVIA, SK
[72] KONECNA, ZANETA, CZ
[72] DVORAK, PAVEL, CZ
[72] BEDNAR, DAVID, CZ
[72] BREZOVSKY, JAN, CZ
[72] SEBESTOVA, EVA, CZ
[72] CHALOUPKOVA, RADKA, CZ
[72] STEPANKOVA, VERONIKA, CZ
[72] VANACEK, PAVEL, CZ
[72] PROKOP, ZBYNEK, CZ
[72] DAMBORSKY, JIRI, CZ
[72] BOSAKOVA, MICHAELA, CZ
[73] MASARYKOVA UNIVERZITA, CZ
[73] ENANTIS S.R.O., CZ
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[54] **PROCEDE METHANOL**
[72] YIU, KAR CHI, GB
[73] JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED, GB
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[54] **CABLE ASSEMBLY TOOL**
[54] **OUTIL D'ASSEMBLAGE DE CABLE**
[72] PLAMONDON, JEAN-SEBASTIEN, CA
[72] BECQUART, ARTHUR, CA
[72] MILETTE, LUC, CA
[72] CHEVARIE, BENOIT, CA
[72] PILON, VINCENT, CA
[73] BELDEN CANADA ULC, CA
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[54] **LAITIER METALLURGIQUE RICHE EN LITHIUM**
[72] QUIX, MAARTEN, BE
[72] VAN HOREBEEK, DAVID, BE
[72] SUETENS, THOMAS, BE
[73] UMICORE, BE
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[54] **DRIP CHAMBER ASSEMBLY THAT FUNCTIONS IRRESPECTIVE OF ORIENTATION**
[54] **ENSEMBLE CHAMBRE COMPTE-GOUTTES FONCTIONNANT INDEPENDAMMENT DE L'ORIENTATION**
[72] CONSTUBLE, DALE L., US
[73] MOBILE I.V. SYSTEMS LLC, US
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[72] ROSCINI, CLAUDIO, US
[72] TORRES-PIERNA, HECTOR, US
[72] RUIZ-MOLINA, DANIEL, US
[73] INDIZEN OPTICAL TECHNOLOGIES OF AMERICA, LLC, US
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[72] PETRUS, PAUL, US
[72] MARTIN, STEVEN A., US
[73] RUCKUS WIRELESS, INC., US
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[54] **TAPIS DE COURSE**
[72] FRANK, JORDAN, US
[73] RUNWAY TREADMILL, LLC, US
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[54] **ELECTRONIC PAYMENT METHOD AND SYSTEM**
[54] **METHODE ET SYSTEME DE PAIEMENT ELECTRONIQUE**
[72] ROBITAILLE, CYRIL, CA
[73] ROBITAILLE, CYRIL, CA
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[54] **SYSTEMS AND METHODS FOR GROWTH OF INTESTINAL CELLS IN MICROFLUIDIC DEVICES**
[54] **SYSTEMES ET PROCEDES DE CROISSANCE DE CELLULES INTESTINALES DANS DES DISPOSITIFS MICROFLUIDIQUES**
[72] KERNS, JORDAN, US
[72] WEN, NORMAN, US
[72] LUCCHESI, CAROL, US
[72] HINOJOSA, CHRIS, US
[72] FRASER, JACOB, US
[72] PUERTA, JEFFERSON, US
[72] HAMILTON, GERALDINE, US
[72] BARRETT, ROBERT, US
[72] SVENDSEN, CLIVE, US
[72] LEVNER, DANIEL, US
[72] TARGAN, STEPHEN R., US
[72] WORKMAN, MICHAEL, US
[72] SAREEN, DHRUV, US
[72] RAJAMANI, UTHRA, US
[72] KASENDRA, MAGDELENA, US
[73] EMULATE, INC., US
[73] CEDARS-SINAI MEDICAL CENTER, US
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[54] **SYSTEME DE DIAGNOSTIC D'INSTALLATION DE FENESTRATION**
[72] KLEIN, ERIC JOHN, US
[72] HUSTON, KYLE, US
[73] MARVIN LUMBER AND CEDAR COMPANY, D/B/A MARVIN WINDOWS AND DOORS, US
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[87] (3013410)
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[54] **OPTICAL SENSING METHODS AND SYSTEMS FOR POWER APPLICATIONS, AND THE CONSTRUCTION THEREOF**
[54] **PROCEDES ET SYSTEMES DE DETECTION OPTIQUE POUR DES APPLICATIONS ELECTRIQUES, ET LEUR CONSTRUCTION**
[72] MANUELPILLAI, GERALD, CA
[72] TCHAPLIA, ILYA, CA
[72] VISWASAM, ANSELM, CA
[72] ZENG, GUANG, CA
[73] HYPERION SENSORS INC., CA
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[54] **TITANIUM-BASED ALLOY AND METHOD FOR MANUFACTURING A TITANIUM-BASED ALLOY COMPONENT BY AN ADDITIVE MANUFACTURING PROCESS**
[54] **ALLIAGE A BASE DE TITANE ET METHODE DE FABRICATION D'UNE COMPOSANTE D'ALLIAGE A BASE DE TITANE PAR PROCEDE DE FABRICATION ADDITIF**
[72] COTTON, JAMES DEAN, US
[72] CRILL, MATTHEW JON, US
[72] GHABCHI, ARASH, US
[72] MITROPOLSKAYA, NATALIA GEORGIEVNA, RU
[73] THE BOEING COMPANY, US
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[54] **ULTRASONIC PROBE AND ULTRASONIC DETECTING DEVICE PROVIDED WITH SAME**
[54] **SONDE ULTRASONORE ET DISPOSITIF DE DETECTION ULTRASONORE COMPORTANT LADITE SONDE**
[72] MAO, JUNWEI, CN
[73] WUXI HISKY MEDICAL TECHNOLOGIES CO., LTD., CN
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[86] 2016-08-02 (PCT/CN2016/092857)
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[54] **FIBRES FINES OBTENUES A PARTIR D'UNE RETICULATION A TEMPERATURE AMBIANTE**
[72] SHENOY, SURESH LAXMAN, US
[73] DONALDSON COMPANY, INC., US
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[54] **SYSTEME DE PORTE COULISSANTE**
[72] HAAB, GREGOR, CH
[72] ETTMULLER, PETER, CH
[72] YEZZA, NEJIB, CH
[73] HAWA SLIDING SOLUTIONS AG, CH
[85] 2018-10-01
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[25] EN
[54] **MODIFIED U6 PROMOTER SYSTEM FOR TISSUE SPECIFIC EXPRESSION**
[54] **SYSTEME PROMOTEUR U6 MODIFIE POUR L'EXPRESSION SPECIFIQUE D'UN TISSU**
[72] HARPER, SCOTT QUENTON, US
[73] RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US
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[54] **HIGH-THROUGHPUT MANUFACTURING PROCESSES FOR MAKING ELECTROCHEMICAL UNIT CELLS AND ELECTROCHEMICAL UNIT CELLS PRODUCED USING THE SAME**
[54] **PROCEDES DE FABRICATION A HAUT RENDEMENT POUR LA FABRICATION D'ELEMENTS D'UNITE ELECTROCHIMIQUE ET ELEMENTS D'UNITE ELECTROCHIMIQUE PRODUITS A L'AIDE DE CEUX-CI**
[72] WARRINGTON, CURTIS, US
[72] MADDEN, THOMAS H., US
[72] PURANAM, SRIVATSAVA, US
[73] LOCKHEED MARTIN ENERGY, LLC, US
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[54] **ACCESS PORT FOR A FLUID SYSTEM**
[54] **ORIFICE D'ACCES D'UN SYSTEME DE FLUIDE**
[72] MARCHAND, ROGER L., CA
[72] TSCHETTER, DOUGLA J., CA
[73] BAY6 SOLUTIONS INC., CA
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[54] **CIMENTS ET MELANGES DE CIMENTS QUI PRESENTENT DES PRESTATIONS MECANIQUES ELEVEES AUX JEUNES AGES**
[72] LIZARRAGA GALARZA, SERAFIN, ES
[73] CEMENT INTERNATIONAL TECHNOLOGIES, S.L., ES
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[54] **CONTAINER HAVING A RETAINED, EXTERNALLY DISPLACEABLE DRAIN INSERT**
[54] **CONTENANT DOTE D'UN INSERT DE VIDANGE RETENU, DEPLACABLE A L'EXTERIEUR**
[72] WALLACE, MILLARD F., US
[73] CONVERTER MANUFACTURING, LLC, US
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[25] EN
[54] **SYSTEMS AND METHODS FOR LNG PRODUCTION WITH PROPANE AND ETHANE RECOVERY**
[54] **SYSTEMES ET PROCEDES POUR LA PRODUCTION DE GNL AVEC RECUPERATION DU PROPANE ET DE L'ETHANE**
[72] MAK, JOHN, US
[72] THOMAS, JACOB, US
[72] GRAHAM, CURT, US
[73] FLUOR TECHNOLOGIES CORPORATION, US
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[25] EN
[54] **LOW MOLECULAR WEIGHT ORGANIC GELATORS OF VEGETABLE OIL**
[54] **GELIFIANTS ORGANIQUES D'HUILE VEGETALE DE FAIBLE POIDS MOLECULAIRE**
[72] SIJAKOVIC VUJICIC, NATASA, HR
[73] RUDJER BOSKOVIC INSTITUTE, HR
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[25] EN
[54] **PORTABLE VOICE UNIT COMMUNICATIONS VIA A COMMUNICATION DEVICE**
[54] **COMMUNICATIONS DE MODULE DE VOIX PORTATIF PAR UN DISPOSITIF DE COMMUNICATION**
[72] COUSE, PETER, CA
[72] MCINTOSH, JAY, CA
[73] MITEL NETWORKS CORPORATION, CA
[86] (3023419)
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[25] EN
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[54] **MATERIAU LUMINESCENT**
[72] LASTUSAARI, MIKA, FI
[72] PONKKA, ISABELLA, FI
[73] TURUN YLIOPISTO, FI
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[54] **SYSTEMES DE COMMANDE DE VEHICULE**
[72] CHINTAKINDI, SUNIL, US
[73] ALLSTATE INSURANCE COMPANY, US
[85] 2018-12-03
[86] 2017-05-17 (PCT/US2017/033089)
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[54] **BEARING BLOCK ASSEMBLY FOR A PLANT TRIMMING MACHINE**
[54] **ENSEMBLE BLOC PALIER POUR UNE MACHINE A TAILLER LES VEGETAUX**
[72] INGRAM, ERIK, CA
[73] KEIRTON INC., CA
[85] 2019-01-09
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[25] EN
[54] **METHOD AND DEVICE FOR ONLINE DETERMINATION OF THE VISCOSITY OF A POLYMER**
[54] **PROCEDE ET DISPOSITIF DE DETERMINATION EN DIRECT DE LA VISCOSITE D'UN POLYMERE**
[72] SOCHOR, SEBASTIAN, AT
[72] SCHIEDER, FLORIAN, AT
[73] EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M.B.H., AT
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[25] EN
[54] **THERMAL MANAGEMENT SYSTEMS INCORPORATING SHAPE MEMORY ALLOY ACTUATORS AND RELATED METHODS**
[54] **SYSTEMES DE GESTION THERMIQUE INCORPORANT DES ACTIONNEURS EN ALLIAGE A MEMOIRE DE FORME ET METHODES ASSOCIEES**
[72] FOUTCH, DAVID W., US
[72] CALKINS, FREDERICK THEODORE, US
[73] THE BOEING COMPANY, US
[86] (3031807)
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[25] EN
[54] **ANTI-CD40 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-CD40 ET UTILISATIONS DE CEUX-CI**
[72] BANCHEREAU, JACQUES F., US
[72] ZURAWSKI, GERARD, US
[72] ZURAWSKI, SANDRA, US
[72] OH, SANGKON, US
[73] BAYLOR RESEARCH INSTITUTE, US
[86] (3032548)
[87] (3032548)
[22] 2010-03-05
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[13] C
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[54] **ACTIVE/PASSIVE COOLING SYSTEM**
[54] **SYSTEME DE REFROIDISSEMENT ACTIF/PASSIF**
[72] DINNAGE, PAUL A., US
[72] FANG, WEI, US
[73] MUNTERS CORPORATION, US
[85] 2019-01-31
[86] 2017-07-12 (PCT/US2017/041682)
[87] (WO2018/026478)
[30] US (62/369,957) 2016-08-02
[30] US (15/646,731) 2017-07-11

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[25] EN
[54] **HIGH VELOCITY SPRAY TORCH FOR SPRAYING INTERNAL SURFACES**
[54] **TORCHE DE PULVERISATION A GRANDE VITESSE POUR LA PULVERISATION DE SURFACES INTERNES**
[72] BURGESS, ALAN W., CA
[73] BURGESS, ALAN W., CA
[85] 2019-02-25
[86] 2017-09-06 (PCT/CA2017/051044)
[87] (WO2018/045457)
[30] US (62/384,272) 2016-09-07

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[13] C
[51] **Int.Cl. C11D 3/04 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **SOLID DETERGENT COMPOSITIONS AND METHODS OF ADJUSTING THE DISPENSE RATE OF SOLID DETERGENTS USING SOLID ANIONIC SURFACTANTS**
[54] **COMPOSITIONS DETERGENTES SOLIDES ET PROCEDES DE REGLAGE DE LA VITESSE DE DISTRIBUTION DE DETERGENTS SOLIDES UTILISANT DES TENSIOACTIFS ANIONIQUES**
[72] OLSON, ERIK C., US
[72] PETTIT, CHELSEA, US
[72] MOLINARO, MATT, US
[73] ECOLAB USA INC., US
[85] 2019-02-27
[86] 2017-09-07 (PCT/US2017/050478)
[87] (WO2018/049029)
[30] US (62/384,489) 2016-09-07

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[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01)**
[25] EN
[54] **MULTI-Z HORIZON INTERPRETATION AND VISUALIZATION FROM SEISMIC DATA**
[54] **INTERPRETATION ET VISUALISATION D'HORIZON MULTI-Z A PARTIR DE DONNEES SISMIQUES**
[72] NGUYEN, NAM XUAN, US
[72] TAN, XUEWEI, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2019-03-13
[86] 2017-11-06 (PCT/US2017/060193)
[87] (WO2018/093597)
[30] US (62/423,672) 2016-11-17

[11] **3,038,828**
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[51] **Int.Cl. C05G 5/30 (2020.01) C05G 3/20 (2020.01) C05G 3/40 (2020.01) B05D 1/00 (2006.01) C05C 3/00 (2006.01) C05C 5/00 (2006.01) C05G 3/00 (2020.01) C09D 175/04 (2006.01) C09D 191/06 (2006.01)**
[25] EN
[54] **SYSTEM FOR COATINGS FOR GRANULAR MATERIALS**
[54] **SYSTEMES POUR REVETEMENTS POUR MATERIAUX GRANULAIRES**
[72] GOODWIN, ROBERT MICHAEL, US
[72] GREEN, JOSHUA TYLER, US
[72] REED, JAMES TREVOR, US
[72] JONES, CHRISTOPHER ERIC, US
[72] FORSYTHE, PHILLIP ALAN, US
[73] NOUS, LLC, US
[85] 2019-03-28
[86] 2017-10-05 (PCT/US2017/055301)
[87] (WO2018/067796)
[30] US (62/404,254) 2016-10-05

[11] **3,038,962**
[13] C
[51] **Int.Cl. H04M 3/26 (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
[73] NEC PLATFORMS, LTD., JP
[85] 2019-03-29
[86] 2018-06-28 (PCT/JP2018/024555)
[87] (WO2019/044147)
[30] JP (2017-169659) 2017-09-04

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[13] C
[51] **Int.Cl. B63B 59/00 (2006.01) B63H 5/15 (2006.01) C23F 13/00 (2006.01)**
[25] EN
[54] **NOZZLE OF A SHIP PROPELLER**
[54] **BUSE D'UNE HELICE DE NAVIRE**
[72] TWEDDELL, KLAUS, DE
[72] BENKE, DIETRICH, DE
[73] SCHOTTEL GMBH, DE
[85] 2019-04-18
[86] 2016-11-28 (PCT/EP2016/078956)
[87] (WO2018/095548)

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[51] **Int.Cl. B21B 1/46 (2006.01) B21B 3/00 (2006.01) B22D 11/00 (2006.01) B22D 11/06 (2006.01) B22D 11/12 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MAKING THICK GAUGE ALUMINUM ALLOY ARTICLES**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE FABRIQUER DES ARTICLES EN ALLIAGE D'ALUMINIUM A JAUGE EPAISSE**
[72] FELBERBAUM, MILAN, US
[72] BASSI, CORRADO, CH
[72] DAS, SAZOL KUMAR, US
[72] BARKER, SIMON, US
[72] PIROTEALA, TUDOR, US
[72] TALLA, RAJASEKHAR, US
[73] NOVELIS INC., US
[85] 2019-04-23
[86] 2017-09-27 (PCT/US2017/053720)
[87] (WO2018/080706)
[30] US (62/413,740) 2016-10-27
[30] US (62/413,764) 2016-10-27
[30] US (62/413,591) 2016-10-27
[30] US (62/505,944) 2017-05-14
[30] US (62/529,028) 2017-07-06

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[51] **Int.Cl. C22B 3/24 (2006.01) B01D 17/02 (2006.01) B03B 5/56 (2006.01) B03B 7/00 (2006.01) B03D 1/20 (2006.01) B05B 1/04 (2006.01) C22B 3/02 (2006.01)**
[25] EN
[54] **REACTOR SYSTEM FOR SEPARATION AND ENRICHMENT OF MINERALS FROM A SLURRY CONTAINING MINERALS AND OTHER MATERIALS**
[54] **SYSTEME DE REACTEUR POUR LA SEPARATION ET L'ENRICHISSEMENT DE MINERAUX A PARTIR D'UNE BOUE CONTENANT DES MINERAUX ET D'AUTRES MATERIAUX**
[72] FERNALD, MARK R., US
[72] ROTHMAN, PAUL J., US
[72] DOLAN, PAUL, US
[72] JOHNSON, KIRK, US
[72] TUXBURY, PATRICK, US
[72] BALASUBRAMANYAM, SANDEEP, US
[72] AMELUNXEN, PETER A., AN
[72] BAILEY, TIMOTHY J., US
[72] JORDENS, ADAM, US
[72] NORD, JOSEPH, US
[72] LASSILA, KEVIN RODNEY, US
[72] COPPOLA, MICHAEL D., US
[72] GREENE, ALLISON K., US
[73] CIDRA CORPORATE SERVICES LLC, US
[85] 2019-04-30
[86] 2017-11-01 (PCT/US2017/059491)
[87] (WO2018/085364)
[30] US (62/415,629) 2016-11-01
[30] US (PCT/US2016/068843) 2016-12-28
[30] US (PCT/US2017/012689) 2017-01-09
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[51] **Int.Cl. B29C 45/27 (2006.01) B29C 45/17 (2006.01) B29C 45/20 (2006.01)**
[25] EN
[54] **CHANNEL GEOMETRY FOR PROMOTING AT LEAST ONE OF A UNIFORM VELOCITY PROFILE AND A UNIFORM TEMPERATURE PROFILE FOR AN ANNULAR OR PART-ANNULAR MELT FLOW**
[54] **GEOMETRIE DE CANAL POUR FAVORISER UN PROFIL DE VITESSE UNIFORME ET/OU UN PROFIL DE TEMPERATURE UNIFORME POUR UN ECOULEMENT DE MATIERE FONDUE ANNULAIRE OU PARTIELLEMENT ANNULAIRE**
[72] ULEMEK, ADAM CHRISTOPHER, CA
[72] FERENC, STEPHEN DANIEL, CA
[72] BRELSKI, MACIEJ, CA
[72] GROVE, WESLEY, US
[73] HUSKY INJECTION MOLDING SYSTEMS LTD., CA
[85] 2019-05-03
[86] 2017-11-08 (PCT/CA2017/051327)
[87] (WO2018/098563)
[30] US (62/428,585) 2016-12-01

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[25] EN
[54] **AUTOMATED MODEL-BASED DRILLING**
[54] **FORAGE BASE SUR UN MODELE AUTOMATISE**
[72] SANTOS, HELIO, US
[73] SAFEKICK AMERICAS LLC, US
[85] 2019-05-24
[86] 2017-10-19 (PCT/US2017/057451)
[87] (WO2018/106346)
[30] US (62/431,059) 2016-12-07

[11] **3,046,360**
[13] C
[51] **Int.Cl. H04L 1/00 (2006.01) H03M 13/05 (2006.01)**
[25] EN
[54] **RESOURCE-BASED CODE BLOCK SEGMENTATION**
[54] **SEGMENTATION DU BLOC DE CODE AXE SUR LES RESSOURCES**
[72] WANG, RENQIU, US
[72] JIANG, JING, US
[72] SORIAGA, JOSEPH BINAMIRA, US
[72] RICHARDSON, THOMAS JOSEPH, US
[72] LONCKE, VINCENT, US
[73] QUALCOMM INCORPORATED, US
[85] 2019-06-06
[86] 2018-01-18 (PCT/US2018/014145)
[87] (WO2018/136588)
[30] US (62/448,377) 2017-01-19
[30] US (15/873,695) 2018-01-17

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[13] C
[51] **Int.Cl. G06Q 40/08 (2012.01) B60W 30/09 (2012.01) B60W 60/00 (2020.01)**
[25] EN
[54] **AUTONOMOUS VEHICLE CONTROL SYSTEMS WITH COLLISION DETECTION AND RESPONSE CAPABILITIES**
[54] **SYSTEMES DE COMMANDE DE VEHICULES AUTONOMES CAPABLES DE DETECTER ET DE REAGIR A DES COLLISIONS**
[72] SLUSAR, MARK V., US
[72] GIBSON, TIMOTHY W., US
[72] GORE, CALEB BRIAN SLAUGHTER, US
[72] REIF, COLTON J., US
[73] ALLSTATE INSURANCE COMPANY, US
[85] 2019-08-02
[86] 2017-03-08 (PCT/US2017/021381)
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[30] US (15/425,387) 2017-02-06

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[13] C
[51] **Int.Cl. H02K 9/08 (2006.01)**
[25] EN
[54] **COOLING SYSTEM AND COOLING METHOD**
[54] **SYSTEME ET PROCEDE DE REFROIDISSEMENT**
[72] YU, RONGRONG, CN
[72] SAERS, ROBERT, SE
[72] LANERYD, TOR, SE
[73] HITACHI ENERGY SWITZERLAND AG, CH
[85] 2019-08-12
[86] 2017-04-19 (PCT/CN2017/081042)
[87] (WO2018/191877)

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[51] **Int.Cl. H04W 12/102 (2021.01) H04W 4/02 (2018.01) G06Q 20/40 (2012.01) H04W 12/50 (2021.01)**
[25] EN
[54] **CONTROL SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE COMMANDE**
[72] NEAFSEY, JEFFREY SCOTT, US
[73] SCHLAGE LOCK COMPANY LLC, US
[86] (3053278)
[87] (3053278)
[22] 2014-02-10
[62] 2,900,762
[30] US (61/762,742) 2013-02-08

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[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **THE METHOD, DEVICE FOR PUSHING ELECTRONIC TRANSACTION CERTIFICATE**
[54] **LA METHODE, LE DISPOSITIF SERVANT A POUSSER UN CERTIFICAT DE TRANSACTIONELECTRONIQUE**
[72] ZHANG, YI, US
[73] 10353744 CANADA LTD., CA
[86] (3054516)
[87] (3054516)
[22] 2015-04-30
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[25] EN
[54] **METHOD FOR PRODUCING ACTIVATED CARBON**
[54] **PROCEDE DE PRODUCTION DE CHARBON ACTIF**
[72] LOU, FENGLIU, NO
[72] KVERNSTUEN, SVEIN, NO
[73] BEYONDER AS, NO
[85] 2019-09-03
[86] 2018-03-20 (PCT/NO2018/050081)
[87] (WO2018/186747)
[30] NO (20170575) 2017-04-06

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[13] C
[51] **Int.Cl. C08H 7/00 (2011.01) C02F 1/56 (2006.01) C02F 11/14 (2019.01)**
[25] EN
[54] **PROCESS FOR PRODUCING AN ANIONIC LIGNIN COPOLYMER UNDER AQUEOUS ACID CONDITIONS**
[54] **PROCEDE DE PRODUCTION D'UN COPOLYMERE DE LIGNINE ANIONIQUE SOUS DES CONDITIONS ACIDES AQUEUSES**
[72] FATEHI, PEDRAM, CA
[72] KONG, FANGONG, CN
[72] WANG, SHOUJUAN, CN
[72] PRICE, JACQUELYN, CA
[72] PALEOLOGOU, MICHAEL, CA
[73] FPINNOVATIONS, CA
[73] LAKEHEAD UNIVERSITY, CA
[85] 2019-09-06
[86] 2018-03-07 (PCT/CA2018/050270)
[87] (WO2018/161165)
[30] US (62/468,982) 2017-03-09

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[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/122 (2006.01) A61K 31/375 (2006.01)**
[25] EN
[54] **PET FOOD INCLUDING CANNABIDIOLIC ACID**
[54] **ALIMENT POUR ANIMAUX DE COMPAGNIE COMPRENANT DE L'ACIDE CANNABIDIOLIQUE**
[72] MCGARRAH, STEVEN M., US
[72] ASQUITH, THOMAS A., US
[73] MCGARRAH, STEVEN M., US
[73] ASQUITH, THOMAS A., US
[85] 2019-09-12
[86] 2018-03-16 (PCT/US2018/022985)
[87] (WO2018/175259)
[30] US (62/473,369) 2017-03-18

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[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/28 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTI-N3PGLU AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-PEPTIDES BETA-AMYLOIDES N3PGLU ET UTILISATIONS ASSOCIEES**
[72] DEMATTOS, RONALD BRADLEY, US
[72] LU, JIRONG, US
[72] TANG, YING, US
[73] ELI LILLY AND COMPANY, US
[85] 2019-09-27
[86] 2018-04-16 (PCT/US2018/027718)
[87] (WO2018/194951)
[30] US (62/487,550) 2017-04-20

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[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **MONOCLONAL ANTIBODIES AGAINST CLAUDIN-18 FOR TREATMENT OF CANCER**
[54] **ANTICORPS MONOCLONAUX CONTRE LA CLAUDINE-18 POUR LE TRAITEMENT DU CANCER**
[72] SAHIN, UGUR, DE
[72] TURECI, OZLEM, DE
[72] USENER, DIRK, DE
[72] FRITZ, STEFAN, DE
[72] UHEREK, CHRISTOPH, DE
[72] BRANDENBURG, GUNDA, DE
[72] GEPPERT, HARALD-GERHARD, DE
[72] SCHRODER, ANJA KRISTINA, DE
[72] THIEL, PHILIPPE, DE
[73] ASTELLAS PHARMA INC., JP
[73] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAT MAINZ GEMEINNUTZIGE GMBH, DE
[86] (3058722)
[87] (3058722)
[22] 2006-11-24
[62] 2,886,580
[30] EP (05 025 657.7) 2005-11-24

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[13] C
[51] **Int.Cl. B65D 83/08 (2006.01)**
[25] EN
[54] **ELASTIC BAND DISPENSER**
[54] **DISTRIBUTEUR DE BANDE ELASTIQUE**
[72] MILBRANDT, JAY A., US
[72] O'DONNELL, COLIN M., US
[73] BEDFORD INDUSTRIES, INC., US
[85] 2019-10-04
[86] 2018-05-09 (PCT/US2018/031741)
[87] (WO2018/217452)
[30] US (62/509,323) 2017-05-22

[11] **3,060,193**
[13] C
[51] **Int.Cl. A47K 10/16 (2006.01) B65D 85/67 (2006.01) B65H 18/28 (2006.01)**
[25] EN
[54] **PAPER TOWEL ROLLS**
[54] **ROULEAUX D`ESSUIE-TOUT**
[72] MITCHELL, KEVIN, US
[72] REINERMAN, ROBERT EDWARD, US
[72] BARKEY, DOUGLAS J., US
[72] GREEN, MARK ALAN, US
[72] TROKHAN, PAUL DENNIS, US
[72] BILLS, J. MICHAEL, US
[72] SHEEHAN, JEFFREY GLEN, US
[72] WEISMAN, PAUL THOMAS, US
[73] THE PROCTER & GAMBLE COMPANY, US
[86] (3060193)
[87] (3060193)
[22] 2019-10-25
[30] US (62/750,920) 2018-10-26

[11] **3,060,308**
[13] C
[51] **Int.Cl. A61K 8/46 (2006.01) A61K 8/04 (2006.01) A61K 8/49 (2006.01) A61K 8/73 (2006.01) A61K 8/81 (2006.01) A61Q 5/00 (2006.01) A61Q 5/02 (2006.01)**
[25] EN
[54] **HAIR CARE COMPOSITIONS COMPRISING ANIONIC POLYMERS AND CATIONIC POLYMERS**
[54] **COMPOSITIONS DE SOINS CAPILLAIRES COMPRENANT DES POLYMERES ANIONIQUES ETDES POLYMERES CATIONIQUES**
[72] CHANG, DEBORA W., US
[72] JOHNSON, ERIC SCOTT, US
[72] KROGER LYONS, KELLY ROSE, US
[72] FIGUEROA, REBEKAH RUTH, US
[72] FINLEY, REBECCA ANN, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-10-16
[86] 2018-04-25 (PCT/US2018/029313)
[87] (WO2018/200644)
[30] US (62/490,301) 2017-04-26

[11] **3,061,244**
[13] C
[51] **Int.Cl. B08B 1/04 (2006.01)**
[25] EN
[54] **METHOD OF TREATING A WORKPIECE SURFACE**
[54] **METHODE DE TRAITEMENT D`UNE SURFACE DE PIECE A USINER**
[72] DODDEMA, JAN FREDERIK, NL
[72] HOFSTEE, SANDER HENDRIKUS JOHANNES, BE
[73] MONTI-WERKZEUGE GMBH, DE
[86] (3061244)
[87] (3061244)
[22] 2019-11-08
[30] DE (10 2018 128 269.9) 2018-11-12

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[13] C
[51] **Int.Cl. A61L 27/56 (2006.01) A61F 2/00 (2006.01) A61L 27/14 (2006.01) A61L 27/54 (2006.01) A61L 27/58 (2006.01)**
[25] EN
[54] **BIOCOMPATIBLE STRUCTURE FOR TISSUE REGENERATION AND METHODS OF MAKING AND USING SAME**
[54] **STRUCTURE BIOCOMPATIBLE POUR REGENERATION DE TISSU ET SES PROCEDES DE FABRICATION ET D'UTILISATION**
[72] ALGHAZALI, KARRER M., US
[72] NIMA, ZEID A., US
[72] BIRIS, ALEXANDRU S., US
[73] BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, US
[85] 2019-10-25
[86] 2018-04-23 (PCT/US2018/028793)
[87] (WO2018/208488)
[30] US (15/591,728) 2017-05-10

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[13] C
[51] **Int.Cl. B62B 1/14 (2006.01) A01K 1/06 (2006.01) A01K 13/00 (2006.01) A01K 29/00 (2006.01) B62B 1/16 (2006.01)**
[25] EN
[54] **PORTABLE ANIMAL LOADING CHUTE**
[54] **RAMPE DE CHARGEMENT D`ANIMAL PORTATIF**
[72] COMTE, ALAIN, CA
[73] COMTE, ALAIN, CA
[86] (3063407)
[87] (3063407)
[22] 2019-12-02

[11] **3,063,634**
[13] C
[51] **Int.Cl. F03D 1/06 (2006.01)**
[25] EN
[54] **ROTOR BLADE FOR A WIND TURBINE AND WIND TURBINE**
[54] **PALE DE ROTOR POUR EOLIENNE ET EOLIENNE**
[72] ALTMIKUS, ANDREE, DE
[73] WOBBEN PROPERTIES GMBH, DE
[85] 2019-11-14
[86] 2018-05-07 (PCT/EP2018/061660)
[87] (WO2018/224225)
[30] DE (10 2017 112 742.9) 2017-06-09

[11] **3,063,892**
[13] C
[51] **Int.Cl. C07K 14/33 (2006.01) A61K 39/08 (2006.01) A61P 31/04 (2006.01) A61P 37/04 (2006.01) C12N 1/20 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS RELATING TO A MUTANT CLOSTRIDIUM DIFFICILE TOXIN**
[54] **COMPOSITIONS ET METHODES RELATIVES A UNE TOXINE MUTANTE DE CLOSTRIDIUM DIFFICILE**
[72] JANSEN, KATHRIN UTE, US
[72] ANDERSON, ANNALIESA SYBIL, US
[72] DONALD, ROBERT G. K., US
[72] FLINT, MICHAEL JAMES, US
[72] KALYAN, NARENDER KUMAR, US
[72] LOTVIN, JASON ARNOLD, US
[72] SIDHU, MANINDER K., US
[72] MORAN, JUSTIN KEITH, US
[72] RUPPEN, MARK EDWARD, US
[72] SUN, WEIQIANG, US
[73] PFIZER INC., US
[86] (3063892)
[87] (3063892)
[22] 2013-10-07
[62] 2,887,891
[30] US (61/716,605) 2012-10-21

[11] **3,065,119**
[13] C
[51] **Int.Cl. H04W 12/37 (2021.01) H04W 8/24 (2009.01) H04W 12/71 (2021.01)**
[25] EN
[54] **WIRELESS COMMUNICATION METHOD, NETWORK DEVICE AND TERMINAL DEVICE**
[54] **PROCEDE DE COMMUNICATION SANS FIL, DISPOSITIF DE RESEAU ET DISPOSITIF TERMINAL**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-11-27
[86] 2018-10-08 (PCT/CN2018/109369)
[87] (WO2019/153766)
[30] CN (PCT/CN2018/076013) 2018-02-09
[30] CN (PCT/CN2018/078330) 2018-03-07
[30] CN (PCT/CN2018/079203) 2018-03-15

[11] **3,065,200**
[13] C
[51] **Int.Cl. G08B 5/40 (2006.01) G01D 5/00 (2006.01) G01D 21/02 (2006.01) G01K 11/00 (2006.01) G01K 11/06 (2006.01) G01L 7/00 (2006.01) G04F 1/00 (2006.01) G08B 5/02 (2006.01) G09F 3/02 (2006.01)**
[25] EN
[54] **INDICATOR TAGS THAT EXHIBIT COLOR TRANSITION**
[54] **ETIQUETTES INDICATRICES PRESENTANT UNE TRANSITION DE COULEUR**
[72] PRAHARAJ, SEEMIT, US
[72] LEVY, MICHAEL J., US
[72] MCCONVILLE, PAUL J., US
[73] XEROX CORPORATION, US
[86] (3065200)
[87] (3065200)
[22] 2019-12-16
[30] US (16/228340) 2018-12-20

[11] **3,065,855**
[13] C
[51] **Int.Cl. A47C 3/026 (2006.01) A47C 1/032 (2006.01) A47C 3/20 (2006.01)**
[25] EN
[54] **ADJUSTABLE ERGONOMIC CHAIR**
[54] **CHAISE ERGONOMIQUE REGLABLE**
[72] BEYER, PETER J., US
[72] FLEET, KYLE R., US
[72] BELLINGAR, TERESA A., US
[73] HAWORTH, INC., US
[86] (3065855)
[87] (3065855)
[22] 2019-12-20
[30] US (16/240,073) 2019-01-04

[11] **3,065,981**
[13] C
[51] **Int.Cl. A61H 35/02 (2006.01)**
[25] EN
[54] **MOBILE EYE WASHING STATION**
[54] **POSTE MOBILE POUR LE LAVAGE DES YEUX**
[72] ZHOU, WEIMIN, US
[72] XU, KEVIN, US
[72] LI, LYNETTE, US
[72] QU, ROCKY, US
[72] LIAO, ROY, US
[72] CAO, GARY, US
[72] LIU, XUE, US
[72] JIN, ZHAO XIA, US
[72] HOU, DAVID, US
[73] HONEYWELL INTERNATIONAL INC., US
[86] (3065981)
[87] (3065981)
[22] 2019-12-23
[30] CN (201822250110.X) 2018-12-29

[11] **3,066,140**
[13] C
[51] **Int.Cl. E06B 9/68 (2006.01) A47H 5/02 (2006.01) E06B 9/322 (2006.01) H02K 7/14 (2006.01) H02P 7/00 (2016.01)**
[25] EN
[54] **DRIVE SYSTEM FOR WINDOW COVERING SYSTEM WITH CONTINUOUS CORD LOOP**
[54] **SYSTEME D'ENTRAINEMENT POUR SYSTEME DE COUVRE-FENETRE A BOUCLE DE CORDON CONTINU**
[72] PHAM, TRUNG DUC, CA
[72] CHENG, ALAN WING HOR, CA
[72] BISHARA, MARC RASHAD, CA
[73] RYSE INC., CA
[86] (3066140)
[87] (3066140)
[22] 2015-11-04
[62] 2,966,999
[30] CA (2870983) 2014-11-06
[30] US (62/166,484) 2015-05-26

[11] **3,066,175**
[13] C
[51] **Int.Cl. H04W 16/32 (2009.01)**
[25] EN
[54] **DATA TRANSMISSION METHOD AND RELATED PRODUCT**
[54] **PROCEDE DE TRANSMISSION DE DONNEES ET PRODUIT ASSOCIE**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-12-04
[86] 2017-07-28 (PCT/CN2017/094994)
[87] (WO2019/019182)

[11] **3,066,344**
[13] C
[51] **Int.Cl. H04M 1/00 (2006.01) G10L 15/00 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ASYNCHRONOUS MULTI-MODE MESSAGING**
[54] **SYSTEME ET PROCEDE DE MESSAGERIE MULTIMODE ASYNCHRONE**
[72] GRAYLIN, WILLIAM WANG, US
[72] SIMA, BOGDAN, US
[72] SUN, PICHRACHANA, US
[72] MOLLOY, ANDREW, US
[73] OV LOOP, INC., US
[85] 2019-12-05
[86] 2018-05-31 (PCT/US2018/035274)
[87] (WO2018/226491)
[30] US (62/517,384) 2017-06-09
[30] US (15/867,963) 2018-01-11

[11] **3,066,540**
[13] C
[51] **Int.Cl. F04B 15/02 (2006.01) E21B 43/26 (2006.01) F04B 15/04 (2006.01) F04B 37/12 (2006.01) F04B 43/00 (2006.01) F04B 43/113 (2006.01)**
[25] EN
[54] **PRESSURE TRANSFER DEVICE, SYSTEM AND USE FOR HIGH PRESSURE FLUIDS WITH PARTICLES**
[54] **DISPOSITIF DE TRANSFERT DE PRESSION, SYSTEME ET UTILISATION POUR DES FLUIDES HAUTE PRESSION AVEC PARTICULES**
[72] MOLLATT, TORBJORN, NO
[73] RSM IMAGINEERING AS, NO
[85] 2019-12-06
[86] 2018-06-27 (PCT/EP2018/067209)
[87] (WO2019/007768)
[30] NO (20171099) 2017-07-04

[11] **3,066,685**
[13] C
[51] **Int.Cl. H04W 72/20 (2023.01) H04W 72/21 (2023.01)**
[25] EN
[54] **SIGNAL TRANSMISSION METHOD, RELATED DEVICE, AND SYSTEM**
[54] **PROCEDE DE TRANSMISSION DE SIGNAL, DISPOSITIF ASSOCIE, ET SYSTEME**
[72] JIA, QIONG, CN
[72] ZHU, JUN, CN
[72] LIN, YINGPEI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-12-09
[86] 2018-06-08 (PCT/CN2018/090517)
[87] (WO2018/224042)
[30] CN (201710435815.6) 2017-06-09

[11] **3,066,731**
[13] C
[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/173 (2006.01)**
[25] EN
[54] **SYSTEMS, AND METHODS TO CONTROL WELDING ELECTRODE PREHEATING**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE PRECHAUFFAGE D'ELECTRODE DE SOUDAGE**
[72] UECKER, JAMES LEE, US
[72] ZWAYER, JAKE BRADLEY, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2019-12-09
[86] 2018-05-30 (PCT/US2018/035087)
[87] (WO2018/226476)
[30] US (15/618,926) 2017-06-09

[11] **3,067,145**
[13] C
[51] **Int.Cl. C21B 5/00 (2006.01) C21B 5/02 (2006.01)**
[25] EN
[54] **OPERATING METHOD OF AN IRON MAKING INSTALLATION AND ASSOCIATED OPERATING INSTALLATION**
[54] **PROCEDE DE FONCTIONNEMENT D'UNE INSTALLATION DE FABRICATION DE FER ET INSTALLATION OPERATIONNELLE ASSOCIEE**
[72] GEEROMS, JORIS, BE
[72] SPELIER, KURT, BE
[72] VAN DE CASTEELE, STEFAAN, BE
[73] ARCELORMITTAL, LU
[85] 2019-12-12
[86] 2018-06-15 (PCT/IB2018/054413)
[87] (WO2018/229720)
[30] IB (PCT/IB2017/000739) 2017-06-16

[11] **3,067,210**
[13] C
[51] **Int.Cl. C08L 101/00 (2006.01) B27N 1/02 (2006.01) C03C 27/10 (2006.01) C04B 41/83 (2006.01) C08J 5/12 (2006.01)**
[25] EN
[54] **BINDERS AND MATERIALS MADE THEREWITH**
[54] **LIANTS ET SUBSTANCES CONCUES AU MOYEN DE CEUX-CI**
[72] SWIFT, BRIAN LEE, US
[72] XU, RUIJIAN, US
[72] KISSELL, RONALD E., US
[73] KNAUF INSULATION GMBH, US
[86] (3067210)
[87] (3067210)
[22] 2006-07-26
[62] 2,615,780
[30] US (60/702,456) 2005-07-26
[30] US (60/743,071) 2005-12-22

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[13] C
[51] **Int.Cl. B01D 53/52 (2006.01) B01D 53/14 (2006.01) B01D 53/18 (2006.01)**
[25] EN
[54] **COMPACT CONTACTING SYSTEMS AND METHODS FOR SCAVENGING SULFUR-CONTAINING COMPOUNDS**
[54] **SYSTEMES COMPACTS DE MISE EN CONTACT ET PROCEDES DE PIEGEAGE DE COMPOSES SOUFRES**
[72] RAMKUMAR, SHWETHA, US
[72] SHATTO, DONALD P., US
[72] NORTHROP, P. SCOTT, US
[72] PHILBROOK, SEAN T., US
[73] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2019-12-16
[86] 2018-04-11 (PCT/US2018/027137)
[87] (WO2018/236456)
[30] US (62/522,432) 2017-06-20

[11] **3,067,904**
[13] C
[51] **Int.Cl. H01Q 1/38 (2006.01) H01Q 1/50 (2006.01) H01Q 9/04 (2006.01) H01Q 9/28 (2006.01)**
[25] EN
[54] **SINGLE-LAYER PATCH ANTENNA**
[54] **ANTENNE A PLAQUE MONOCOUCHE**
[72] YANG, NING, CA
[73] NOVATEL INC., CA
[85] 2019-12-19
[86] 2018-03-08 (PCT/CA2018/050274)
[87] (WO2019/000076)
[30] US (15/637,832) 2017-06-29

[11] **3,068,147**
[13] C
[51] **Int.Cl. F04B 43/00 (2006.01) E21B 43/26 (2006.01) F04B 43/113 (2006.01) F04B 49/02 (2006.01) F04B 49/06 (2006.01) F04B 49/10 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM AND USE, OF CONTROLLING WORKING RANGE OF A PUMP BELLOWS**
[54] **PROCEDE, SYSTEME ET UTILISATION PERMETTANT DE COMMANDER LA PLAGE DE TRAVAIL D'UN SOUFFLET DE POMPE**
[72] MOLLATT, TORBJORN, NO
[73] RSM IMAGINEERING AS, NO
[85] 2019-12-20
[86] 2018-06-27 (PCT/EP2018/067233)
[87] (WO2019/007775)
[30] NO (20171101) 2017-07-04

[11] **3,068,237**
[13] C
[51] **Int.Cl. G01L 9/00 (2006.01) G01L 19/00 (2006.01) G01L 19/06 (2006.01)**
[25] EN
[54] **PRESSURE SENSOR ASSEMBLY**
[54] **ENSEMBLE CAPTEUR DE PRESSION**
[72] ANDREW, DAVID ALEXANDER, US
[72] STREI, DAVID MATTHEW, US
[73] ROSEMOUNT INC., US
[85] 2019-12-20
[86] 2018-04-03 (PCT/US2018/025798)
[87] (WO2019/005253)
[30] US (15/636,886) 2017-06-29

[11] **3,068,675**
[13] C
[51] **Int.Cl. A61K 33/04 (2006.01) A23K 30/00 (2016.01) C09D 7/62 (2018.01) A01N 25/12 (2006.01) A01N 59/02 (2006.01) A01P 7/02 (2006.01) A23B 7/157 (2006.01) A61K 8/04 (2006.01) A61K 8/19 (2006.01) A61K 9/10 (2006.01) A61P 17/00 (2006.01) A61Q 19/00 (2006.01) B01J 2/30 (2006.01) C01B 17/00 (2006.01) C09D 5/14 (2006.01) A45D 44/00 (2006.01)**
[25] EN
[54] **A NANO-SULFUR CONTAINING COMPOSITION AND APPLICATION THEREOF**
[54] **COMPOSITION CONTENANT DU NANO-SOUFRE ET APPLICATION ASSOCIEE**
[72] XIA, KUI, CN
[73] SUZHOU CANASTAR NEW-MATERIALS TECHNOLOGY CORPORATION, CN
[85] 2019-12-30
[86] 2018-08-09 (PCT/CN2018/099661)
[87] (WO2019/029630)
[30] CN (201710679091.X) 2017-08-10

[11] **3,069,018**
[13] C
[51] **Int.Cl. H01S 3/08 (2023.01)**
[25] EN
[54] **ISOLATED RING CAVITY RESONATOR**
[54] **RESONATEUR A CAVITE ANNULAIRE ISOLEE**
[72] BOYD, MICAH, US
[73] ARETE ASSOCIATES, US
[85] 2020-01-03
[86] 2018-12-03 (PCT/US2018/063700)
[87] (WO2019/109107)
[30] US (62/593,835) 2017-12-01

[11] **3,069,403**
[13] C
[51] **Int.Cl. G10L 19/008 (2013.01) H04S 7/00 (2006.01) G10L 21/0272 (2013.01) G06F 3/01 (2006.01)**
[25] EN
[54] **CONCEPT FOR GENERATING AN ENHANCED SOUND-FIELD DESCRIPTION OR A MODIFIED SOUND FIELD DESCRIPTION USING A MULTI-LAYER DESCRIPTION**
[54] **CONCEPT DE GENERATION D'UNE DESCRIPTION DE CHAMP SONORE AMELIOREE OU D'UNE DESCRIPTION DE CHAMP SONORE MODIFIEE A L'AIDE D'UNE DESCRIPTION MULTICOUCHE**
[72] HERRE, JUERGEN, DE
[72] HABETS, EMANUEL, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2020-01-07
[86] 2018-07-13 (PCT/EP2018/069145)
[87] (WO2019/012133)
[30] EP (17181484.1) 2017-07-14

[11] **3,069,942**
[13] C
[51] **Int.Cl. B01D 53/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REMOVAL OF MERCURY AND/OR HYDROCHLORIC ACID FROM GAS STREAMS USING CALCIUM-CONTAINING PARTICLES**
[54] **SYSTEMES ET PROCEDES D'ELIMINATION DU MERCURE OU DE L'ACIDE CHLORHYDRIQUE A PARTIR DE FLUX GAZEUX A L'AIDE DE PARTICULES CONTENANT DU CALCIUM**
[72] LEE, HAROLD WAYNE, II, US
[72] KINNER, LAURA L., US
[72] MURDOCK, DOUGLAS C., US
[72] BLACKHAM, FRED DOUGLAS, US
[72] HEINTZELMAN, JOHN B., US
[73] GRAYMONT (PA) INC., US
[85] 2020-01-14
[86] 2018-07-06 (PCT/US2018/041135)
[87] (WO2019/027622)
[30] US (62/541,604) 2017-08-04

[11] **3,070,813**
[13] C
[51] **Int.Cl. B64C 5/02 (2006.01) B64C 27/00 (2006.01)**
[25] EN
[54] **A ROTORCRAFT WITH A STABILIZER WING**
[54] **GIRAVION MUNI D`UNE AILE STABILISATRICE**
[72] EMBACHER, MARTIN, DE
[72] RIES, TOBIAS, DE
[72] ECKERT, CHRISTIAN, DE
[72] KNEISCH, THOMAS, DE
[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE
[86] (3070813)
[87] (3070813)
[22] 2020-01-31
[30] EP (19400011.3) 2019-04-26

[11] **3,071,054**
[13] C
[51] **Int.Cl. B01D 46/42 (2006.01) B60H 3/06 (2006.01)**
[25] EN
[54] **CONNECTION ARRANGEMENT FOR FIXING A LID OF AN AIR FILTER DEVICE OF A MOTOR VEHICLE TO A FILTER HOUSING AND TO A FILTER ELEMENT AND AN ASSOCIATED FILTER ELEMENT**
[54] **DISPOSITIF DE RACCORDEMENT POUR LA FIXATION D'UN COUVERCLE D'UN DISPOSITIF DE FILTRE A AIR D'UN VEHICULE AUTOMOBILE SUR UN BOITIER DE FILTRE ET SUR UN ELEMENT FILTRANT AINSI QU'UN ELEMENT FILTRANT ASSOCIE**
[72] SCHUMACHER, ERIC, DE
[73] MERCEDES-BENZ GROUP AG, DE
[85] 2020-01-24
[86] 2018-08-06 (PCT/EP2018/071235)
[87] (WO2019/030157)
[30] DE (10 2017 007 497.6) 2017-08-08

[11] **3,071,214**
[13] C
[51] **Int.Cl. B65G 23/08 (2006.01)**
[25] EN
[54] **HYBRID LID**
[54] **COUVERCLE HYBRIDE**
[72] SCHUMACHER, JURGEN, CH
[73] INTERROLL HOLDING AG, CH
[85] 2020-01-27
[86] 2018-08-14 (PCT/EP2018/071969)
[87] (WO2019/034629)
[30] DE (10 2017 118 817.7) 2017-08-17

[11] **3,071,828**
[13] C
[51] **Int.Cl. G06Q 40/02 (2023.01) G06Q 40/06 (2012.01)**
[25] EN
[54] **FRACTIONAL FUNDS TRANSFER/ACCUMULATION DEVICE, PROGRAM, AND METHOD**
[54] **DISPOSITIF, PROGRAMME ET PROCEDE DE TRANSFERT/ACCUMULATION DE FONDS FRACTIONNAIRES**
[72] HIGUCHI, YOSHINOBU, JP
[72] TANAKA, TATSUO, JP
[73] 10353744 CANADA LTD., CA
[86] (3071828)
[87] (3071828)
[22] 2017-03-31
[62] 3,023,834
[30] JP (2016-106202) 2016-05-27

[11] **3,071,934**
[13] C
[51] **Int.Cl. H02K 7/18 (2006.01) H02K 3/28 (2006.01) H02K 15/00 (2006.01) H02K 19/22 (2006.01)**
[25] EN
[54] **GENERATOR ROTOR AND GENERATOR STATOR AND GENERATOR AND WIND POWER PLANT HAVING SAME AND METHOD FOR TRANSPORTING A GENERATOR**
[54] **ROTOR DE GENERATEUR ET STATOR DE GENERATEUR AINSI QUE GENERATEUR ET EOLIENNE LE COMPRENANT ET PROCEDE POUR LE TRANSPORT D'UN GENERATEUR**
[72] ZIEMS, JAN CARSTEN, DE
[72] GIENGIEL, WOJCIECH, DE
[72] VOLLES, MATS, DE
[72] FREESE, MICHAEL, DE
[72] GUDEWER, WILKO, DE
[72] KOHLER, JAN-PHILLIP, DE
[73] WOBBEN PROPERTIES GMBH, DE
[85] 2020-02-03
[86] 2018-08-24 (PCT/EP2018/072877)
[87] (WO2019/038421)
[30] DE (10 2017 119 530.0) 2017-08-25

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[13] C
[51] **Int.Cl. A61N 5/06 (2006.01) A61K 33/00 (2006.01) A61P 31/00 (2006.01)**
[25] EN
[54] **STERILIZATION DEVICE FOR INCISION AND WOUND SITES**
[54] **DISPOSITIF DE STERILISATION POUR SITES D'INCISION ET DE PLAIE**
[72] GIL, PATRICIA CAROL, US
[72] GIL, ASHER, US
[72] GIL, DANIEL, US
[73] HEPCO HOLDINGS, LLC, US
[85] 2020-01-31
[86] 2018-08-01 (PCT/US2018/044738)
[87] (WO2019/040245)
[30] US (15/683,921) 2017-08-23

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[13] C
[51] **Int.Cl. A63B 69/00 (2006.01) A63B 69/18 (2006.01) A63G 31/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **INFLATABLE SURFING APPARATUS AND METHOD**
[54] **APPAREIL DE SURF GONFLABLE ET PROCEDE CONNEXE**
[72] VICENTE, ORIOL A., US
[73] WHITEWATER WEST INDUSTRIES LTD., US
[86] (3072158)
[87] (3072158)
[22] 2014-10-30
[62] 2,989,461
[30] US (61/897,696) 2013-10-30

[11] **3,073,551**
[13] C
[51] **Int.Cl. H01F 30/06 (2006.01) H01F 19/00 (2006.01) H01F 27/08 (2006.01)**
[25] EN
[54] **LOSSES REDUCTION FOR ELECTRICAL POWER DISTRIBUTION**
[54] **REDUCTION DE PERTES POUR DISTRIBUTION D'ENERGIE ELECTRIQUE**
[72] LEMEZ, ALEKSANDAR, BA
[72] LEMEZ, DRAGAN, CA
[73] ENERGO GROUP CANADA INC., CA
[85] 2020-02-21
[86] 2017-09-13 (PCT/CA2017/051077)
[87] (WO2018/049520)
[30] US (62/395,539) 2016-09-16

[11] **3,074,295**
[13] C
[51] **Int.Cl. F16L 55/027 (2006.01) F16K 47/12 (2006.01)**
[25] EN
[54] **FLUID FLOW CONTROL DEVICES AND SYSTEMS, AND METHODS OF FLOWING FLUIDS THERETHROUGH**
[54] **DISPOSITIFS ET SYSTEMES DE REGULATION D'ECOULEMENT DE FLUIDE, ET PROCEDES POUR FAIRE CIRCULER DES FLUIDES A TRAVERS CEUX-CI**
[72] PARISH, JEFF, US
[72] HAINES, BRADFORD, US
[72] DECKER, GIFFORD, US
[73] FLOWSERVE MANAGEMENT COMPANY, US
[86] (3074295)
[87] (3074295)
[22] 2013-03-26
[62] 2,902,419
[30] US (13/840,906) 2013-03-15

[11] **3,074,570**
[13] C
[51] **Int.Cl. G08G 1/16 (2006.01) G08G 1/09 (2006.01)**
[25] EN
[54] **SAFE DRIVING ASSISTANCE DEVICE**
[54] **DISPOSITIF D'AIDE A LA CONDUITE PRUDENTE**
[72] KATOU, SEIYA, JP
[72] WATANABE, HIROSHI, JP
[72] ITO, TAKESHI, JP
[73] HITACHI CONSTRUCTION MACHINERY CO., LTD., JP
[85] 2020-02-26
[86] 2018-08-28 (PCT/JP2018/031790)
[87] (WO2019/049733)
[30] JP (2017-172461) 2017-09-07

[11] **3,074,758**
[13] C
[51] **Int.Cl. H04W 76/28 (2018.01) H04W 52/02 (2009.01)**
[25] EN
[54] **DISCONTINUOUS RECEPTION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**
[54] **PROCEDE DE RECEPTION DISCONTINUE, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-03-04
[86] 2017-09-07 (PCT/CN2017/100954)
[87] (WO2019/047128)

[11] **3,075,947**
[13] C
[51] **Int.Cl. D04H 1/587 (2012.01) C08K 5/00 (2006.01) C08K 5/092 (2006.01) D04H 1/00 (2006.01) D04H 1/58 (2012.01)**
[25] EN
[54] **AQUEOUS BINDER COMPOSITIONS**
[54] **COMPOSITIONS LIANTES AQUEUSES**
[72] ZHANG, XIUJUAN, US
[72] MUELLER, GERT, US
[72] SMITH, KENDEL, US
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2020-03-13
[86] 2018-10-09 (PCT/US2018/054907)
[87] (WO2019/074865)
[30] US (62/569,775) 2017-10-09

[11] **3,075,966**
[13] C
[51] **Int.Cl. D06F 39/08 (2006.01) A47L 15/42 (2006.01) G01M 3/26 (2006.01)**
[25] EN
[54] **HYDRAULIC CONTROL DEVICE FOR LIQUID-CONDUCTING HOUSEHOLD APPLIANCES OR SYSTEMS**
[54] **DISPOSITIF DE COMMANDE HYDRAULIQUE POUR APPAREILS ET SYSTEMES ELECTROMENAGERS A CIRCULATION DE LIQUIDE**
[72] SAVINI, PAOLO, IT
[72] CERRUTI, DANIELE, IT
[73] ELTEK S.P.A., IT
[85] 2020-03-16
[86] 2018-09-27 (PCT/IB2018/057483)
[87] (WO2019/069187)
[30] IT (102017000112704) 2017-10-06

[11] **3,077,320**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/12 (2012.01)**
[25] EN
[54] **NETWORK TRANSACTION PAYMENT METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE PAIEMENT DE TRANSACTION DE RESEAU**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3077320)
[87] (3077320)
[22] 2015-04-30
[62] 2,986,821

[11] **3,077,476**
[13] C
[51] **Int.Cl. G07D 11/00 (2019.01) G07D 9/00 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR AUTOMATICALLY FILLING A COIN CASSETTE**
[54] **SYSTEME, PROCEDE ET APPAREIL POUR REMPLIR AUTOMATIQUEMENT UNE CASSETTE E PIECES DE MONNAIE**
[72] BLAKE, JOHN R., US
[72] HALLOWELL, CURTIS W., US
[72] JONES, WILLIAM J., US
[72] KRBEC, MARIANNE, US
[73] CUMMINS-ALLISON CORP., US
[86] (3077476)
[87] (3077476)
[22] 2014-03-13
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[51] **Int.Cl. A61K 31/569 (2006.01) A61P 7/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **FORMULATION CONTAINING A-DECARBONIZED-5-ALPHA ANDROSTANE COMPOUND FOR INCREASING WHITE BLOOD CELL AND USE THEREOF**
[54] **FORMULATION CONTENANT UN COMPOSE 5A-ANDROSTANE A-DECARBONISE POUR AUGMENTER LE NOMBRE DES GLOBULES BLANCS, ET SON UTILISATION**
[72] CHEN, YAJUN, CN
[72] CHEN, ZHIHUA, CN
[72] WANG, WENYA, CN
[73] SHANGHAI AO QI MEDICAL TECHNOLOGY CO., LTD., CN
[85] 2020-04-14
[86] 2018-08-14 (PCT/CN2018/100430)
[87] (WO2019/072014)
[30] CN (201710953300.5) 2017-10-13

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[25] EN
[54] **NEEDLE DISPENSING AND STORING APPARATUS FOR MEDICAMENT DELIVERY DEVICE**
[54] **DISPOSITIF DE STOCKAGE ET DE DISTRIBUTION D'AIGUILLES POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENTS**
[72] SPOOL, IRA, US
[72] BRUEHWILER, MICHEL, US
[72] CONSTANTINEAU, COLE, US
[72] RAJ, ABHIJITSINH S., US
[72] SCHOONMAKER, RYAN, US
[72] SULLIVAN, SEAN P., US
[73] EMBECTA CORP., US
[86] (3080990)
[87] (3080990)
[22] 2011-08-09
[62] 3,006,591
[30] US (61/344,539) 2010-08-16
[30] US (61/344,536) 2010-08-16
[30] US (13/204,632) 2011-08-05

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[13] C
[51] **Int.Cl. F16L 37/088 (2006.01) F16L 55/00 (2006.01)**
[25] EN
[54] **TECHNOLOGIES FOR VERIFYING A FLUID CONNECTION**
[54] **TECHNOLOGIES POUR VERIFIER UN RACCORD FLUIDE**
[72] HALL II, THOMAS EDWIN, US
[72] BUTTS, LAWRENCE, US
[73] OETIKER NY, INC., US
[85] 2020-05-04
[86] 2018-10-22 (PCT/US2018/056885)
[87] (WO2019/103802)
[30] US (62/589,968) 2017-11-22

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[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
[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE
[86] (3081871)
[87] (3081871)
[22] 2020-06-03
[30] EP (19400020.4) 2019-09-27

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[51] **Int.Cl. A61F 2/14 (2006.01) A61F 9/00 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **SCLERAL BELT AND METHOD**
[54] **COURROIE SCLERALE ET METHODE**
[72] KHAN, MEHDI A., US
[73] KHAN, MEHDI A., US
[86] (3081966)
[87] (3081966)
[22] 2020-06-04

[11] **3,082,026**
[13] C
[51] **Int.Cl. G06F 3/048 (2013.01) H04L 51/00 (2022.01) H04L 51/02 (2022.01) H04L 51/046 (2022.01) H04L 51/216 (2022.01) H04L 67/52 (2022.01) G06F 15/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RE-AUTHENTICATION OF ASYNCHRONOUS MESSAGING**
[54] **SYSTEME ET PROCEDE DESTINES A LA REAUTHENTIFICATION DE MESSAGERIE ASYNCHRONE**
[72] STOOPS, DANIEL, US
[72] BELL, CLIFF, US
[73] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
[85] 2020-05-06
[86] 2018-11-05 (PCT/US2018/059151)
[87] (WO2019/094317)
[30] US (62/582,876) 2017-11-07

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[51] **Int.Cl. H04B 17/00 (2015.01)**
[25] EN
[54] **PROPAGATION PATH SEARCH METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE RECHERCHE DE TRAJET DE PROPAGATION**
[72] GAO, YUEFAN, CN
[72] LI, XIAOLONG, CN
[72] WANG, CAN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-05-29
[86] 2018-11-08 (PCT/CN2018/114582)
[87] (WO2019/105194)
[30] CN (201711245683.7) 2017-11-30

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[13] C
[51] **Int.Cl. G02C 7/16 (2006.01) A63B 69/00 (2006.01) G02C 11/08 (2006.01)**
[25] EN
[54] **WEARABLE TRAINING APPARATUS, A TRAINING SYSTEM AND A TRAINING METHOD THEREOF**
[54] **APPAREIL D'ENTRAINEMENT POUVANT ETRE PORTE, SYSTEME D'ENTRAINEMENT ET PROCEDE D'ENTRAINEMENT**
[72] MAST, LYLE, CA
[73] 1241620 ALBERTA LTD., CA
[85] 2020-05-29
[86] 2018-11-30 (PCT/CA2018/051535)
[87] (WO2019/104444)
[30] US (62/593,362) 2017-12-01

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[51] **Int.Cl. A61B 17/122 (2006.01) A61B 17/128 (2006.01) A61B 17/12 (2006.01)**
[25] EN
[54] **HEMOSTASIS CLIP**
[54] **PINCE HEMOSTATIQUE**
[72] SAENZ VILLALOBOS, GONZALO JOSE, CR
[72] MCEVILLY, KEVIN, IE
[72] BRENES ACOSTA, ALEJANDRO, CR
[72] BERENZON, RAFAEL, CR
[72] ARTAVIA SALAS, VIVIANA, CR
[73] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2020-06-01
[86] 2019-01-18 (PCT/US2019/014160)
[87] (WO2019/147485)
[30] US (62/623,282) 2018-01-29

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[13] C
[51] **Int.Cl. A61K 8/24 (2006.01) A61K 8/19 (2006.01) A61K 8/21 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS TO INCREASE THE HARDNESS AND RESISTANCE OF ENAMEL**
[54] **METHODES ET COMPOSITIONS POUR AUGMENTER LA DURETE ET LA RESISTANCE DE L'EMAIL**
[72] BAIG, ARIF ALI, US
[72] BIESBROCK, AARON REED, US
[72] KENNEDY, JENNIFER M., US
[72] ST. JOHN, SAMUEL JAMES, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2020-06-04
[86] 2019-01-17 (PCT/US2019/013898)
[87] (WO2019/143746)
[30] US (62/618,137) 2018-01-17

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[51] **Int.Cl. G06F 40/35 (2020.01) G06F 40/289 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CHATBOT GENERATION**
[54] **SYSTEMES ET PROCEDES DE GENERATION D'AGENT CONVERSATIONNEL**
[72] MAZZA, ARNON, IL
[72] FAIZAKOF, AVRAHAM, IL
[72] LEV-TOV, AMIR, IL
[72] TAPUHI, TAMIR, IL
[72] KONIG, YOCHAI, US
[73] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
[85] 2020-06-09
[86] 2018-12-11 (PCT/US2018/064810)
[87] (WO2019/118377)
[30] US (15/840,295) 2017-12-13

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[13] C
[51] **Int.Cl. A61K 31/155 (2006.01) A61P 35/00 (2006.01) C07C 257/18 (2006.01)**
[25] EN
[54] **MONO- AND DI-AMIDINE ENDO-EXONUCLEASE INHIBITORS AND METHODS FOR INHIBITING ENDO-EXONUCLEASE ACTIVITY**
[54] **INHIBITEURS D'ENDO-EXONUCLEASE MONO- ET DI-AMIDINE ET PROCEDES D'INHIBITION DE L'ACTIVITE ENDO-EXONUCLEASE**
[72] CHOW, TERRY, CA
[73] MONTDOREX INC., CA
[86] (3086099)
[87] (3086099)
[22] 2018-11-08
[62] 3,075,664
[30] US (62/587,118) 2017-11-16

[11] **3,086,119**
[13] C
[51] **Int.Cl. B65D 1/00 (2006.01) A47G 19/32 (2006.01) A47J 47/02 (2006.01) B65D 85/72 (2006.01)**
[25] EN
[54] **CONTAINER WITH A COVER SNAPPED TO A BASE**
[54] **CONTENANT DONT LE COUVERCLE EST CLIPSE A UNE BASE**
[72] WANG, JACKY, CN
[72] WU, SSU-WEI, CN
[73] RELOCKS CO,. LTD., CN
[86] (3086119)
[87] (3086119)
[22] 2020-07-08
[30] TW (108211274) 2019-08-23

[11] **3,086,510**
[13] C
[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RESOURCE PLACEMENT ACROSS CLOUDS FOR DATA INTENSIVE WORKLOADS**
[54] **SYSTEME ET PROCEDE DE PLACEMENT DE RESSOURCES ENTRE NUAGES POUR DES CHARGES DE TRAVAIL A GRAND VOLUME DE DONNEES**
[72] DUTTA, DEBOJYOTI, US
[72] HUANG, XINYUAN, US
[73] CISCO TECHNOLOGY, INC., US
[85] 2020-06-19
[86] 2018-12-19 (PCT/US2018/066469)
[87] (WO2019/126304)
[30] US (15/850,230) 2017-12-21

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[13] C
[51] **Int.Cl. C11D 17/04 (2006.01) B32B 3/12 (2006.01) C11D 17/06 (2006.01) D06M 16/00 (2006.01)**
[25] EN
[54] **PROCESS FOR MAKING WATER-SOLUBLE ARTICLES BY CUTTING A FIBROUS WEB IN A TESSELLATED PATTERN**
[54] **PROCEDE DE FABRICATION D'ARTICLES HYDROSOLUBLES EN COUPANT UNE TOILE FIBREUSE EN MOTIF CARRELE**
[72] HUANG, SUN-JAN ALAN, US
[72] SIVIK, MARK ROBERT, US
[72] DENOME, FRANK WILLIAM, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2020-06-22
[86] 2019-01-22 (PCT/US2019/014443)
[87] (WO2019/147523)
[30] US (62/622,159) 2018-01-26

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[11] **3,087,132**
[13] C
[51] **Int.Cl. A47F 5/00 (2006.01)**
[25] EN
[54] **DISPLAY TIER MERCHANDISE HOLDER**
[54] **SUPPORT DE MARCHANDISE POUR PRESENTOIR A PALIERS**
[72] SANTARELLI, ANTHONY, US
[73] AMERICAN GREETINGS CORPORATION, US
[86] (3087132)
[87] (3087132)
[22] 2020-07-17
[30] US (16/542,730) 2019-08-16

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[51] **Int.Cl. F16L 9/14 (2006.01) B32B 1/08 (2006.01) F16L 9/12 (2006.01) F16L 59/14 (2006.01) B32B 5/18 (2006.01)**
[25] EN
[54] **PIPE STRUCTURE HAVING A FOAM CORE**
[54] **STRUCTURE DE CONDUIT AVEC AME DE MOUSSE**
[72] GORSHENIN, ALEXANDER, US
[73] WESTLAKE PIPE & FITTINGS CORPORATION, US
[86] (3087170)
[87] (3087170)
[22] 2020-07-17
[30] US (62/876,364) 2019-07-19

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[51] **Int.Cl. E02F 3/88 (2006.01) B63B 35/00 (2020.01) E02F 7/02 (2006.01) E02F 7/04 (2006.01)**
[25] EN
[54] **CAROUSELING ARTICULATED DREDGE AND BARGE**
[54] **DRAGUE ET BARGE ARTICULEES EN CARROUSEL**
[72] CASHMAN, JAY, US
[72] WALLACE, BRADFORD, US
[72] BELESIMO, FRANK J., US
[73] CASHMAN DREDGING & MARINE CONTRACTING CO., LLC, US
[85] 2020-07-08
[86] 2018-12-14 (PCT/US2018/065652)
[87] (WO2019/139728)
[30] US (15/869,118) 2018-01-12

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[13] C
[51] **Int.Cl. A61B 17/22 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR BREAKING UP A BODY STONE**
[54] **DISPOSITIF ET PROCEDE POUR LA DESINTEGRATION D'UNE PIERRE CORPORELLE**
[72] BIONDA, PIERRE-ALAIN, CH
[72] GIROD, JEAN-YVES, CH
[72] EVANS, GARY, FR
[73] FERTON HOLDING S.A., CH
[85] 2020-07-14
[86] 2019-01-18 (PCT/EP2019/051283)
[87] (WO2019/141822)
[30] DE (10 2018 101 215.2) 2018-01-19

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[51] **Int.Cl. C08G 18/76 (2006.01) C08G 18/32 (2006.01) C08G 18/42 (2006.01)**
[25] EN
[54] **POLYESTER-POLYOL COMPOSITIONS FOR POLYURETHANE FOAM WITH IMPROVED HYDROLYTIC STABILITY**
[54] **COMPOSITIONS DE POLYESTER-POLYOL POUR UNE MOUSSE DE POLYURETHANE PRESENTANT UNE STABILITE HYDROLYTIQUE AMELIOREE**
[72] HEYMANS, DENIS, BE
[72] DECOQ, FRANCOISE, BE
[73] HEXION INC., US
[85] 2020-07-15
[86] 2019-01-18 (PCT/EP2019/000017)
[87] (WO2019/141507)
[30] EP (18075001) 2018-01-19
[30] EP (18075015) 2018-11-27

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[13] C
[51] **Int.Cl. B29C 65/34 (2006.01) B29C 65/00 (2006.01) B29C 65/36 (2006.01) B29C 65/50 (2006.01) B29C 65/48 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR BONDING STRUCTURAL COMPONENTS**
[54] **SYSTEME ET METHODE POUR LIER DES COMPOSANTS STRUCTURAUX**
[72] LIU, HAILING, US
[72] CHAI, REBECCA WAN, US
[72] WANG, LEI, US
[72] DUTTON, PETER, US
[73] TE CONNECTIVITY CORPORATION, US
[85] 2020-07-23
[86] 2019-01-29 (PCT/IB2019/050720)
[87] (WO2019/150261)
[30] US (15/884,364) 2018-01-30

[11] **3,089,893**
[13] C
[51] **Int.Cl. A23B 7/04 (2006.01)**
[25] EN
[54] **FROZEN PRODUCT AND METHOD OF PROVIDING SAME**
[54] **PRODUIT CONGELE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] EINHORN, MORDECHAI, CA
[73] EINHORN, MORDECHAI, CA
[85] 2020-07-29
[86] 2017-12-08 (PCT/CA2017/051488)
[87] (WO2018/102930)
[30] US (62/432,052) 2016-12-09

[11] **3,090,701**
[13] C
[51] **Int.Cl. B29C 33/30 (2006.01) B29C 45/27 (2006.01) B29C 45/40 (2006.01)**
[25] EN
[54] **LIGHT WEIGHT MOLD SUPPORT STRUCTURE IN A SINGLE DUAL INJECTION MOLDING MACHINE**
[54] **STRUCTURE DE SUPPORT DE MOULE LEGERE DANS UNE SEULE MACHINE DE MOULAGE PAR INJECTION DOUBLE**
[72] FAULKNER, JAMES D., US
[73] F&S TOOL, INC., US
[85] 2020-08-06
[86] 2019-02-12 (PCT/US2019/017710)
[87] (WO2019/160879)
[30] US (62/630,143) 2018-02-13

[11] **3,090,829**
[13] C
[51] **Int.Cl. C07D 491/056 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **UREA-SUBSTITUTED AROMATIC RING-LINKED DIOXINOQUINOLINE COMPOUNDS, PREPARATION METHOD AND USES THEREOF**
[54] **COMPOSES DE DIOXAZOLINE LIES AU CYCLE AROMATIQUE D'UREE SUBSTITUE, PROCEDE DE PREPARATION ET UTILISATIONS**
[72] ZHANG, QIANG, CN
[72] YU, SHANNAN, CN
[72] WANG, ZHONGXIANG, CN
[72] FENG, SHOUYE, CN
[72] LIU, YANSHENG, CN
[72] LI, XINGFU, CN
[72] ZHANG, HONGBO, CN
[72] YANG, LEIFU, CN
[72] YANG, HAILONG, CN
[72] ZHOU, LIKAI, CN
[72] ZHENG, NANQIAO, CN
[72] HU, CHENMING, CN
[72] XU, ZHANQIANG, CN
[73] BEIJING SCITECH-MQ PHARMACEUTICALS LIMITED, CN
[85] 2020-08-10
[86] 2019-01-25 (PCT/CN2019/073259)
[87] (WO2019/154132)
[30] CN (PCT/CN2018/076232) 2018-02-11
[30] CN (201810982631.6) 2018-08-27

[11] **3,091,653**
[13] C
[51] **Int.Cl. C08L 75/04 (2006.01) B33Y 70/10 (2020.01) C08J 3/12 (2006.01) C08J 7/06 (2006.01) C08K 7/16 (2006.01)**
[25] EN
[54] **NANOPARTICLE-COATED ELASTOMERIC PARTICULATES AND METHODS FOR PRODUCTION AND USE THEREOF**
[54] **MATIERES PARTICULAIRES ELASTOMERIQUES REVETUES DE NANOPARTICULES ET PROCEDES DE FABRICATION**
[72] RESETCO, CHRISTINA, CA
[72] ZWARTZ, EDWARD G., CA
[72] HAWKINS, MICHAEL S., CA
[72] FARRUGIA, VALERIE M., CA
[72] SRISKANDHA, SHIVANTHI EASWARI, CA
[73] XEROX CORPORATION, US
[86] (3091653)
[87] (3091653)
[22] 2020-08-31
[30] US (62/897511) 2019-09-09
[30] US (16/946626) 2020-06-30

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[13] C
[51] **Int.Cl. F16D 1/08 (2006.01) E21B 4/02 (2006.01) E21B 17/03 (2006.01) F16D 3/02 (2006.01)**
[25] EN
[54] **COUPLING MECHANISM FOR DRIVESHAFT TRANSMISSION ASSEMBLY**
[54] **MECANISME D'ACCOUPLEMENT POUR ENSEMBLE DE TRANSMISSION D'ARBRE D'ENTRAINEMENT**
[72] PARK, STEVEN W., CA
[72] SAMUEL, GEOFFREY A., CA
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (3092964)
[87] (3092964)
[22] 2015-04-17
[62] 2,979,533

[11] **3,093,411**
[13] C
[51] **Int.Cl. G06Q 40/03 (2023.01)**
[25] EN
[54] **ONLINE LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET EN LIGNE, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3093411)
[87] (3093411)
[22] 2015-05-29
[62] 2,987,674

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[13] C
[51] **Int.Cl. G06F 21/60 (2013.01) G06Q 40/03 (2023.01)**
[25] EN
[54] **ONLINE LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET EN LIGNE, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3093425)
[87] (3093425)
[22] 2015-05-29
[62] 2,987,674

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[13] C
[51] **Int.Cl. G06F 21/60 (2013.01) G06Q 40/03 (2023.01)**
[25] EN
[54] **ONLINE LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET EN LIGNE, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3093442)
[87] (3093442)
[22] 2015-05-29
[62] 2,987,674

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[13] C
[51] **Int.Cl. A47J 27/08 (2006.01)**
[25] EN
[54] **CONTROL DEVICE AND METHOD FOR PRESSURE COOKING APPLIANCE, AND PRESSURE COOKING APPLIANCE**
[54] **DISPOSITIF ET PROCEDE DE COMMANDE POUR APPAREIL DE CUISSON SOUS PRESSION, ET APPAREIL DE CUISSON SOUS PRESSION**
[72] GU, QINGSONG, CN
[73] FOSHAN SHUNDE MIDEA ELECTRICAL HEATING APPLIANCES MANUFACTURING CO., LTD., CN
[85] 2020-09-17
[86] 2018-08-09 (PCT/CN2018/099531)
[87] (WO2019/184188)
[30] CN (201810271992.X) 2018-03-29

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[13] C
[51] **Int.Cl. G03G 15/08 (2006.01) G03G 21/16 (2006.01) G03G 21/18 (2006.01)**
[25] EN
[54] **DEVELOPING CARTRIDGE**
[54] **CARTOUCHE DE DEVELOPPEMENT**
[72] WANG, YUWEN, JP
[72] HASHIMOTO, JUNICHI, JP
[72] KISHI, ISAO, JP
[72] OOKA, KAZUAKI, JP
[73] BROTHER KOGYO KABUSHIKI KAISHA, JP
[85] 2020-09-23
[86] 2019-02-28 (PCT/JP2019/007901)
[87] (WO2019/187963)
[30] JP (2018-067902) 2018-03-30

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[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTI-CD137 ANTIBODIES FOR COMBINATION WITH ANTI-PD-1 ANTIBODIES**
[54] **ANTICORPS ANTI-CD137 POUR UNE COMBINAISON AVEC DES ANTICORPS ANTI-PD-1**
[72] KALOS, MICHAEL DEWAIN, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-09-23
[86] 2019-03-15 (PCT/US2019/022397)
[87] (WO2019/182879)
[30] US (62/647,046) 2018-03-23

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[54] **COMPOSITIONS DE SOINS BUCCAUX COMPRENANT UNE SOURCE D'ION STANNEUX ET DE LA CITRULLINE POUR PROMOUVOIR LA SANTE DES GENCIVES**
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[72] SHI, YUNMING, CN
[72] SU, YANG, CN
[73] THE PROCTER & GAMBLE COMPANY, US
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[54] **SYSTEME DE COLORANT CATALYSE EPAISSI**
[72] HAWKINS, GEOFFREY, US
[72] NOWLAN (III), DANIEL THOMAS, US
[73] ELC MANAGEMENT LLC, US
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[54] **METHOD FOR MITIGATING THE EFFECTS OF COIL COLLAPSE ON HOT STRIP MILL COILS**
[54] **PROCEDE D'ATTENUATION DES EFFETS D'AFFAISSEMENT DE LA BOBINE SUR DES BOBINES DE LAMINOIR A BANDE CHAUDE**
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[73] ARCELORMITTAL, LU
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[54] **MELANGEUR ABAISSEUR, CODEUR AUDIO, PROCEDE ET PROGRAMME INFORMATIQUE APPLIQUANT UNE VALEUR DE PHASE A UNE VALEUR D'AMPLITUDE**
[72] KARAPETYAN, ALEKSANDR, DE
[72] WOLF, FELIX, DE
[72] PLOGSTIES, JAN, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
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[54] **MECANISME DE REGLAGE D'ANGLE DU CARTER ET DISPOSITIF ELECTRONIQUE**
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[73] NEC PLATFORMS, LTD., JP
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[54] **PROCEDE POUR COMPRESSER DES TISSUS STRUCTURES**
[72] WALLENIUS, HANS, SE
[72] LJUSEGREN, INGELA, SE
[73] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
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[54] **COMMANDE ET AFFICHAGE DE DISPOSITIF AERIEN A PLUSIEURS POSITIONS**
[72] LACKORE, JR., JAMES ROGER, US
[73] SPARTAN FIRE, LLC, US
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[54] **PARTICULATE LAUNDRY SOFTENING WASH ADDITIVE**
[54] **ADDITIF DE LAVAGE ADOUCISSANT PARTICULAIRE POUR LE LINGE**
[72] PANANDIKER, RAJAN KESHAV, US
[72] KLUESENER, BERNARD WILLIAM, US
[72] DORIA, HEATHER ANNE, US
[72] JOHNSON, LENAE VIRGINIA, US
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[54] **COMMANDE DU DEBIT DE FLUIDE AU MOYEN D'UNE VANNE ANTI-PINCEMENT**
[72] MANSOUR, GEORGE, US
[72] ZOLLINGER, CHRIS, US
[72] YEH, JONATHAN, US
[72] CLARKE, CHRISTOPHER J., US
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[54] **SYSTEMS, APPARATUSES AND METHODS TO ENCOURAGE INJECTION SITE ROTATION AND PREVENT LIPODYSTROPHY FROM REPEATED INJECTIONS TO A BODY AREA**
[54] **SYSTEMES, APPAREILS ET PROCEDES POUR ENCOURAGER LA ROTATION D'UN SITE D'INJECTION ET PREVENIR LA LIPODYSTROPHIE DUE A DES INJECTIONS REPETEES DANS UNE ZONE DU CORPS**
[72] FIEDLER, ALAN, US
[72] WEST, ROBERT, US
[72] SRINIVASAN, SUDARSAN, US
[72] SULLIVAN, SEAN, US
[72] DIBIASI, MICHAEL, US
[72] LIMAYE, AMIT, US
[72] HILL, BRENDON, US
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[54] **ELEMENTS D'EXPANSION POUR DISPOSITIFS IMPLANTABLES ET SYSTEMES ET PROCEDES ASSOCIES**
[72] IRWIN, CRAIG W., US
[72] SILVERMAN, JAMES D., US
[72] SKELTON, TYSON J., US
[73] W. L. GORE & ASSOCIATES, INC., US
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[54] **DISPLAY MODULE, DISPLAY SCREEN AND DISPLAY SYSTEM**
[54] **MODULE D'AFFICHAGE, ECRAN D'AFFICHAGE ET SYSTEME D'AFFICHAGE**
[72] LI, MANTIE, CN
[72] FANG, WEIQUAN, CN
[72] AN, XIAOJUN, CN
[72] LI, JUN, CN
[72] XUE, YUANTING, CN
[73] LEDMAN OPTOELECTRONIC CO., LTD., CN
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[54] **SYSTEME AUTOMATIQUE DE DEPLOIEMENT DE CABLE ET DE DISPOSITIF**
[72] JAASKELAINEN, MIKKO, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
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[72] BOROWSKI, JAMES DONALD, US
[72] ORVEDAHL, TRAVIS, US
[72] VOGEL, BERNARD T., US
[73] ILLINOIS TOOL WORKS INC., US
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[54] **METHOD FOR AUTOMATED DOCKING A PASSENGER BOARDING BRIDGE TO AN AIRCRAFT**
[54] **PROCEDE D'ARRIMAGE AUTOMATISE D'UNE PASSERELLE D'EMBARQUEMENT DE PASSAGERS A UN AERONEF**
[72] CASADO MERINO, JUAN MARIA, ES
[72] MURIAS BERMEJO, ANTONIO, ES
[72] FLOREZ CASTRO, ALBERTO, ES
[72] SABA, ISAAK MODASER, DE
[72] PEREZ PEREZ, MARCOS, ES
[72] ALVAREZ CUERVO, ADRIAN, ES
[72] MENDIOLAGOITIA JULIANA, JOSE, ES
[72] SESMA SANCHEZ, FRANCISCO JAVIER, ES
[72] GONZALEZ MIERES, ISABEL, ES
[73] THYSSENKRUPP AIRPORT SOLUTIONS, S.A., ES
[73] THYSSENKRUPP ELEVATOR INNOVATION CENTER S.A., ES
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[54] **STRUCTURE DE PANNEAU DE COMMANDE DE HOTTE DE CUISINE**
[72] YU, TING, CN
[72] XU, ZHINENG, CN
[73] NINGBO FOTILE KITCHEN WARE CO., LTD., CN
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[54] **APPAREIL D'ELIMINATION DE DIALYSAT**
[72] LAWINGER, MARK, US
[73] SLOAN VALVE COMPANY, US
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[73] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
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[54] **PROCEDE ET APPAREIL POUR CODER DES INFORMATIONS DE MOUVEMENT ET PROCEDE ET APPAREIL POUR LES DECODER**
[72] LEE, TAMMY, KR
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[73] SAMSUNG ELECTRONICS CO., LTD., KR
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[54] **FLUIDIC DEVICES AND METHODS OF MANUFACTURING THE SAME**
[54] **DISPOSITIFS FLUIDIQUES ET LEURS PROCEDES DE FABRICATION**
[72] EARNEY, JOHN GERHARDT, US
[72] FULLERTON, JUSTIN, US
[72] SMITH, KALEB, US
[72] VENKATESAN, BALA MURALI K., US
[73] ILLUMINA, INC., US
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[54] **CART FOR NON-DESTRUCTIVE TESTING AND INSPECTION OF A PART**
[54] **CHARIOT POUR REALISER DES ESSAIS NON DESTRUCTIFS ET L'INSPECTION D'UNE PIECE**
[72] LALIBERTE, FREDERIC, CA
[73] TEXTRON INNOVATIONS INC., US
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[54] **DESTRUCTION DES GRAINES DE MAUVAISES HERBES AU MOYEN D'UN ELEMENT DE TRANSFERT HORIZONTAL**
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[73] TRITANA INTELLECTUAL PROPERTY LTD., CA
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[54] **SYSTEMES DE DOUCHE A FONCTIONS MULTIPLES COMPRENANT DES COMMANDES DE COMMUTATION DE MODE CONSOLIDEES**
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[73] DELTA FAUCET COMPANY, US
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[54] **INTERFACE DE LIAISON D'UN SUPPORT MOBILE ET D'UN DISPOSITIF OPTIQUE, SYSTEME ASSOCIE**
[72] MENEY, DORIAN, FR
[72] JAMBILLOUX, CEDRIC, FR
[72] RENARD, MARC, FR
[72] WILHELM, JEAN-MARC, FR
[73] WILCO INTERNATIONAL, FR
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[54] **DISTRIBUTION DE SIGNAL POUR UN SYSTEME INFORMATIQUE QUANTIQUE**
[72] JEFFREY, EVAN, US
[72] MUTUS, JOSHUA YOUSOUF, US
[73] GOOGLE LLC, US
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[54] **PORTES A DEUX BITS QUANTIQUES MISES EN OEUVRE AVEC UN COUPLEUR ACCORDABLE**
[72] NEILL, CHARLES, US
[72] MEGRANT, ANTHONY EDWARD, US
[73] GOOGLE LLC, US
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[54] **DISPOSITIF DE FOURNITURE DE VAPEUR**
[72] POTTER, MARK, GB
[73] NICOVENTURES TRADING LIMITED, GB
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[54] **ASSEMBLAGE DE SKI A NEIGE COMPRENANT UN REGLAGE DE LA PRESSION DE QUILLE**
[72] STOXEN, JEFFREY LEE, US
[72] SCHULZE, GREGORY JAMES, US
[72] VIZANKO, JAMES CHRISTOPHER, US
[72] OKADA, HIROYUKI, US
[73] YAMAHA HATSUDOKI KABUSHIKI KAISHA, JP
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[54] **SYSTEMES ET PROCEDES DE SECURITE DE CODAGE ET DE DECODAGE DE CONTENU NUMERIQUE**
[72] SPRAGUE, STEVEN, US
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[72] CHO, AESOP, US
[72] GRAUPE, MICHAEL, US
[72] LAD, LATESHKUMAR THAKORLAL, US
[72] MACHICAO TELLO, PAULO A., US
[72] MEDLEY, JONATHAN WILLIAM, US
[72] METOBO, SAMUEL E., US
[72] NADUTHAMBI, DEVAN, US
[72] PHILLIPS, BARTON W. (DECEASED), US
[72] SIMONOVICH, SCOTT PRESTON, US
[72] WANG, PEIYUAN, US
[72] WATKINS, WILLIAM J., US
[72] XU, JIE, US
[72] YANG, KIN SHING, US
[72] ZIEBENHAUS, CHRISTOPHER ALLEN, US
[73] GILEAD SCIENCES, INC., US
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[25] EN
[54] **METHOD AND SYSTEM FOR DISPENSING FUEL USING SIDE-DIVERTING FUEL OUTLETS**
[54] **METHODE ET SYSTEME DE DISTRIBUTION DE CARBURANT AU MOYEN DE SORTIES DE CARBURANT DIVERGEANT SUR LE COTE**
[72] SHOCK, RICKY DEAN, US
[73] FUEL AUTOMATION STATION, LLC, US
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[54] **METHOD FOR PURIFYING RECLAIMED POLYMERS**
[54] **PROCEDE DE PURIFICATION DE POLYMERES RECYCLES**
[72] LAYMAN, JOHN MONCRIEF, US
[72] COLLIAS, DIMITRIS IOANNIS, US
[72] SCHONEMANN, HANS, US
[72] WILLIAMS, KARA, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2020-12-14
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[54] **BOWEL CARE USING IONTOPHORESIS**
[54] **SOIN DE L'INTESTIN PAR IONTOPHORESE**
[72] KORSTEN, MARK A., US
[72] BAUMAN, WILLIAM A., US
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[54] **METHOD FOR TRANSMITTING SIGNAL, NETWORK APPARATUS, AND TERMINAL APPARATUS**
[54] **PROCEDE D'EMISSION DE SIGNAL, APPAREIL DE RESEAU ET APPAREIL TERMINAL**
[72] XU, WEIJIE, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
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[54] **DEVICE AND METHOD FOR TREATING FIBRES**
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT DE FIBRES**
[72] JAROLIM, MICHAEL, AT
[73] JAROLIM, MICHAEL, AT
[85] 2020-12-21
[86] 2019-05-08 (PCT/EP2019/061775)
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[25] EN
[54] **EARTH GROUND TESTER WITH REMOTE CONTROL**
[54] **TESTEUR DE TERRE TELECOMMANDE**
[72] LAEPPLE, KLAUS, DE
[72] KIRK, GAVIN, US
[72] STEUER, RONALD, AT
[73] FLUKE CORPORATION, US
[86] (3104711)
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[25] EN
[54] **POLYAMIDE COMPOSITIONS AND PLATING APPLICATIONS THEREOF**
[54] **COMPOSITIONS DE POLYAMIDE ET LEURS APPLICATIONS DE PLACAGE**
[72] WHITE, KIMBERLY M., US
[72] POWERS, SCOTT E., US
[72] RAY, JACOB G., US
[72] SPARKS, BRADLEY JAMES, US
[73] ASCEND PERFORMANCE MATERIALS OPERATIONS LLC, US
[85] 2020-12-22
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[25] EN
[54] **HYBRID PHYSICS-BASED AND MACHINE LEARNING MODELS FOR RESERVOIR SIMULATIONS**
[54] **MODELES HYBRIDES D'APPRENTISSAGE AUTOMATIQUE BASES SUR LA PHYSIQUE POUR SIMULATIONS DE RESERVOIR**
[72] MADASU, SRINATH, US
[72] RANGARAJAN, KESHAVA PRASAD, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2021-01-05
[86] 2019-04-30 (PCT/US2019/030059)
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[25] EN
[54] **METHOD AND ARRANGEMENT IN CONNECTION WITH A BUILDING**
[54] **PROCEDE ET AGENCEMENT EN LIEN AVEC UN BATIMENT**
[72] NIEMI, RAMI, FI
[73] QUANTITATIVE HEAT OY, FI
[85] 2021-01-08
[86] 2019-08-20 (PCT/FI2019/050592)
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[51] **Int.Cl. B64D 25/00 (2006.01) B63C 9/02 (2006.01) B63C 9/22 (2006.01)**
[25] EN
[54] **A LIFE RAFT SYSTEM FOR AN AIRCRAFT**
[54] **SYSTEME DE RADEAU DE SAUVETAGE POUR UN AERONEF**
[72] HARMS, STEFAN, DE
[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE
[86] (3106725)
[87] (3106725)
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[54] **MULTI-DIMENSIONAL SHEAVE FOR USE IN TENSION MEASUREMENT SYSTEMS**
[54] **POULIE MULTIDIMENSIONNELLE DESTINEE A ETRE UTILISEE DANS DES SYSTEMES DE MESURE DE TENSION**
[72] SUKALSKI, ANDREW JAMES, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2021-01-20
[86] 2019-07-31 (PCT/US2019/044291)
[87] (WO2020/028467)
[30] US (62/712,613) 2018-07-31
[30] US (16/526,549) 2019-07-30

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[13] C
[51] **Int.Cl. A47G 29/14 (2006.01)**
[25] EN
[54] **PACKAGE RECEIVING DEVICE, KIT FOR ASSEMBLING THE SAME, AND CORRESPONDING METHODS OF MANUFACTURING, ASSEMBLING AND OPERATING ASSOCIATED THERETO**
[54] **DISPOSITIF DE RECEPTION DE COLIS, TROUSSE DE MONTAGE DU DISPOSITIF ET PROCEDES CORRESPONDANTS DE FABRICATION, DE MONTAGE ET DE FONCTIONNEMENT ASSOCIES**
[72] EVANGELIDIS, ANDREW, CA
[72] PASTO, ANGELO, CA
[73] ALEXIA HOLDINGS INC., CA
[85] 2021-01-21
[86] 2020-06-26 (PCT/CA2020/050889)
[87] (WO2020/257938)
[30] US (62/866,960) 2019-06-26

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[51] **Int.Cl. G04G 7/00 (2006.01) G06F 1/12 (2006.01)**
[25] EN
[54] **ESTIMATION OF CLOCK SYNCHRONIZATION ERRORS USING TIME DIFFERENCE OF ARRIVAL**
[54] **ESTIMATION DES ERREURS DE SYNCHRONISATION D'HORLOGE AU MOYEN DE LA DIFFERENCE DES HEURES D'ARRIVEE**
[72] SPIESBERGER, JOHN LOUIS, US
[73] SCIENTIFIC INNOVATIONS, INC., US
[86] (3107173)
[87] (3107173)
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[13] C
[51] **Int.Cl. B28B 23/00 (2006.01) B28B 7/18 (2006.01)**
[25] EN
[54] **A LIFT HOLE FORMING DEVICE FOR CONCRETE PRODUCTS**
[54] **DISPOSITIF DE FORMATION DE TROUS DE LEVAGE POUR DES PRODUITS DE BETON**
[72] SCHMIDGALL, AARON, US
[72] MOEHLE, BRYAN, US
[72] STRABALA, DAVE, US
[72] WRIGHT, JAMES, US
[72] MCDONALD, MIKE, US
[73] HAWKEYEPEDERSHAAB CONCRETE TECHNOLOGIES, INC., US
[86] (3107274)
[87] (3107274)
[22] 2021-01-27
[30] US (62/977,950) 2020-02-18
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[25] EN
[54] **SKIN CARE FORMULATION WITH LIPOPHILIC PEPTIDES**
[54] **FORMULATION DE SOINS DE LA PEAU CONTENANT DES PEPTIDES LIPOPHILES**
[72] LONDONO, ALEJANDRO SALDARRIAGA, CA
[72] TEO, ZEVENA PRATIWI, CA
[72] JAYME, RUTH NAOMI LIMCANGCO, CA
[72] KAKA, PRUDVI MOHAN, CA
[73] DECIEM BEAUTY GROUP INC., CA
[85] 2021-01-26
[86] 2020-10-15 (PCT/CA2020/051380)
[87] (WO2021/072538)
[30] US (62/916,900) 2019-10-18

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[13] C
[51] **Int.Cl. B01D 53/14 (2006.01)**
[25] EN
[54] **SCRUBBER FOR TREATING EXHAUST GAS FROM BIOMASS COMBUSTION**
[54] **EPURATEUR POUR TRAITER LE GAZ D'ECHAPPEMENT DE LA COMBUSTION DE BIOMASSE**
[72] DUECK, RAYMOND, CA
[73] DUECK, RAYMOND, CA
[86] (3108147)
[87] (3108147)
[22] 2021-02-05
[30] US (62976620) 2020-02-14

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[13] C
[51] **Int.Cl. A22B 5/00 (2006.01)**
[25] EN
[54] **MULTI-ANGLE CARCASS WASH SYSTEMS, WASH CABINETS INCLUDING SAME, AND RELATED METHODS**
[54] **SYSTEMES DE LAVAGE DE CARCASSE A ANGLES MULTIPLES, ARMOIRES DE LAVAGE LES COMPRENANT, ET PROCEDES CONNEXES**
[72] ESPY, TOM, US
[72] GANGEL, MIKE, US
[72] MOHNEN, DREW, US
[72] MCCUNE, CHAD, US
[73] BIRKO CORPORATION, US
[85] 2021-01-29
[86] 2019-08-01 (PCT/US2019/044706)
[87] (WO2020/028688)
[30] US (16/052,357) 2018-08-01

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[13] C
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/14 (2006.01) A61M 1/34 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR UREA PHOTO-OXIDATION**
[54] **APPAREIL ET PROCEDE DE PHOTO-OXYDATION DE L'UREE**
[72] HINDS, BRUCE, US
[72] SHAO, GUOZHENG, US
[73] UNIVERSITY OF WASHINGTON, US
[85] 2021-02-04
[86] 2019-07-31 (PCT/US2019/044285)
[87] (WO2020/036732)
[30] US (62/719,549) 2018-08-17

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[13] C
[51] **Int.Cl. C01F 5/02 (2006.01) C01F 5/12 (2006.01) C01F 11/02 (2006.01) C23F 14/02 (2006.01) C23F 15/00 (2006.01)**
[25] EN
[54] **RHEOLOGY MODIFYING AGENTS FOR SLURRIES**
[54] **AGENTS MODIFICATEURS DE RHEOLOGIE POUR SUSPENSIONS EPAISSES**
[72] GILL, JASBIR S., US
[72] CHEN, TZU Y., US
[72] FAITH, REAGAN, CA
[72] COULTERMAN, ADAM, CA
[73] CHAMPIONX USA INC., US
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[87] (3109315)
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[25] EN
[54] **USE OF MULTIPLE CHARGED IONIC COMPOUNDS DERIVED FROM POLYAMINES FOR WASTE WATER CLARIFICATION**
[54] **UTILISATION DE COMPOSES IONIQUES A CHARGES MULTIPLES DERIVES DE POLYAMINES POUR CLARIFICATION D'EAUX USEES**
[72] DHAWAN, ASHISH, US
[72] SILVERNAIL, CARTER M., US
[72] NARAYANAN, AARTHI, US
[72] BURNEY, JASON ROBERT, US
[73] ECOLAB USA INC., US
[85] 2021-02-22
[86] 2019-08-29 (PCT/US2019/048684)
[87] (WO2020/047181)
[30] US (62/724,360) 2018-08-29

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[51] **Int.Cl. F25D 3/02 (2006.01) A23B 4/06 (2006.01) A23B 4/09 (2006.01) A23L 3/36 (2006.01) A23L 3/375 (2006.01) F25C 1/00 (2006.01)**
[25] EN
[54] **ICE, REFRIGERANT, ICE PRODUCTION METHOD, METHOD FOR PRODUCING COOLED ARTICLE, METHOD FOR PRODUCING REFRIGERATED ARTICLE OF PLANT/ANIMAL OR PORTION THEREOF, REFRIGERATING MATERIAL FOR PLANT/ANIMAL OR PORTION THEREOF, METHOD FOR PRODUCING FROZEN FRESHPLANT/ANIMAL OR PORTION THEREOF, DEFROSTED ARTICLE OR PROCESSED ARTICLE THEREOF, AND FREEZING MATERIAL FOR FRES**
[54] **GLACE, FRIGORIGENE, METHODE DE PRODUCTION DE GLACE, METHODE DE PRODUCTION D'ARTICLE REFROIDI, METHODE DE PRODUCTION D'ARTICLE REFRIGERE A BASE DE PLANTE/D'ANIMAL OU D'UNE PARTIE DE CET ARTICLE, MATERIAU FRIGORIGENE POUR PLANTE/ANIMAL OU UNE PARTIE CONNEXE, METHODE DE PRODUCTION DE PLANTE/ANIMAL CONGELE OU D'UNE PARTIE CONNEXE, ARTICLE DEGELE OU ARTICLE...**
[72] HIROKANE, YOSHIO, JP
[72] AKIYAMA, TOMOAKI, JP
[72] IZUTSU, TADAO, JP
[73] BLANCTEC CO., LTD., JP
[86] (3110445)
[87] (3110445)
[22] 2016-11-18
[62] 3,004,245
[30] JP (2015-226589) 2015-11-19
[30] JP (2016-041189) 2016-03-03
[30] JP (2016-103640) 2016-05-24
[30] JP (2016-103639) 2016-05-24
[30] JP (2016-103638) 2016-05-24
[30] JP (2016-103637) 2016-05-24
[30] JP (2016-103014) 2016-05-24
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[51] **Int.Cl. B08B 3/12 (2006.01) C23G 3/02 (2006.01)**
[25] EN
[54] **DEGREASING METHOD AND EQUIPMENT FOR A STRIP**
[54] **METHODE DE DEGRAISSAGE ET EQUIPEMENT POUR UNE BANDE**
[72] RICHET, PIERRE, FR
[72] SPONEM, FLORENT, FR
[73] ARCELORMITTAL, LU
[85] 2021-02-25
[86] 2019-11-05 (PCT/IB2019/059493)
[87] (WO2020/095199)
[30] IB (PCT/IB2018/058711) 2018-11-06

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[25] EN
[54] **COMPOSITIONS AND METHODS COMPRISING SERINE PROTEASE VARIANTS**
[54] **PROCEDES ET COMPOSITIONS COMPRENANT DES VARIANTS DE LA SERINE PROTEASE**
[72] AMIN, NEELAM S., US
[72] AUGUSTYN, KATHERINE, US
[72] BASLER, JOSHUA R., US
[72] CASCAO-PEREIRA, LUIS G., US
[72] COLLIER, KATHERINE D., US
[72] CONCAR, EDWARD M., US
[72] ESTELL, DAVID A., US
[72] KELLIS, JAMES T., JR., US
[72] MAGENNIS, EUAN JOHN, US
[72] PISARCHIK, ALEXANDER, US
[72] POULOSE, AYROOKARAN J., US
[72] SOUTER, PHILIP FRANK, US
[72] WARD, GLENN STEVEN, US
[72] YAO, JIAN, US
[73] DANISCO US INC., US
[73] THE PROCTER & GAMBLE COMPANY, US
[86] (3111256)
[87] (3111256)
[22] 2012-05-04
[62] 2,834,865
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[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING SPEED OF SIMILARITY BASED SEARCHES**
[54] **SYSTEME ET PROCEDE POUR AMELIORER LA VITESSE DE RECHERCHES BASEES SUR UNE SIMILARITE**
[72] ALCOCK, NICHOLAS JOHN, CA
[72] KEDARISETTI, DHARANISH, CA
[72] VENETIANER, PETER L., CA
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2021-03-03
[86] 2019-09-11 (PCT/CA2019/051289)
[87] (WO2020/051704)
[30] US (62/730,215) 2018-09-12

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[13] C
[51] **Int.Cl. C25D 11/04 (2006.01) C25D 11/08 (2006.01) C25D 11/16 (2006.01)**
[25] EN
[54] **HIGHLY DEFORMABLE AND THERMALLY TREATABLE CONTINUOUS COILS AND METHOD OF PRODUCING THE SAME**
[54] **BOBINES CONTINUES HAUTEMENT DEFORMABLES ET TRAITABLES THERMIQUEMENT ET LEUR PROCEDE DE PRODUCTION**
[72] KULKARNI, RAHUL VILAS, US
[72] WU, CEDRIC, US
[72] SUMME, TODD, US
[72] BECK, EMANUEL, CH
[72] BERNER, MICHELE EDITH, CH
[72] SEKINGER, KURT, CH
[72] LEYVRAZ, DAVID, CH
[72] MACFARLANE, THERESA ELIZABETH, US
[73] NOVELIS INC., US
[85] 2021-03-04
[86] 2019-09-10 (PCT/US2019/050396)
[87] (WO2020/055855)
[30] US (62/729,702) 2018-09-11
[30] US (62/729,741) 2018-09-11

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[51] **Int.Cl. B65D 90/22 (2006.01) B65D 90/48 (2006.01) E21B 41/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **A CHEMICAL STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE DE PRODUITS CHIMIQUES**
[72] LAMBERT, BRYAN SCOTT, US
[72] PHILLIPS, BRIAN LEE, US
[73] SOLARIS OILFIELD SITE SERVICES OPERATING LLC, US
[86] (3111946)
[87] (3111946)
[22] 2020-01-21
[62] 3,068,886
[30] US (62/795,885) 2019-01-23

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[13] C
[51] **Int.Cl. B64C 19/00 (2006.01) B64C 27/22 (2006.01) B64C 27/54 (2006.01)**
[25] EN
[54] **PROCEDE ET SYSTEME DE REDUCTION DU BRUIT EN VOL D'UN HELICOPTERE HYBRIDE PAR GESTION DE L'INCIDENCE DE SON ROTOR PRINCIPAL ET DE LA POUSSEE DE CHAQUE HELICE**
[54] **PROCEDE ET SYSTEME DE REDUCTION DU BRUIT EN VOL D'UN HELICOPTERE HYBRIDE PAR GESTION DE L'INCIDENCE DE SON ROTOR PRINCIPAL ET DE LA POUSSEE DE CHAQUE HELICE**
[72] GUNTZER, FREDERIC, FR
[72] EGLIN, PAUL, FR
[73] AIRBUS HELICOPTERS, FR
[86] (3112077)
[87] (3112077)
[22] 2021-03-16
[30] FR (2002631) 2020-03-18

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[51] **Int.Cl. A23L 5/00 (2016.01) H04N 21/80 (2011.01) A23L 3/36 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **SENSOR DEVICE FOR PROVIDING CONTROL FOR A FOOD PROCESSING SYSTEM**
[54] **CAPTEUR POUR FOURNIR UN CONTROLE D`UN SYSTEME DE TRAITEMENT ALIMENTAIRE**
[72] HENDERSHOT, REED JACOB, US
[72] GUHA, AVISHEK, US
[72] HAUPT, SHAWN, US
[72] ARSLAN, ERDEM, US
[72] NAIK, ANKIT, US
[72] HIMES, MICHAEL ROBERT, US
[73] AIR PRODUCTS AND CHEMICALS, INC., US
[86] (3112120)
[87] (3112120)
[22] 2021-03-17
[30] US (16/848,936) 2020-04-15

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[13] C
[51] **Int.Cl. D04H 3/002 (2012.01) D04H 3/011 (2012.01) D04H 3/016 (2012.01) D04H 3/147 (2012.01) D04H 3/07 (2012.01) E02B 3/12 (2006.01) E02D 17/20 (2006.01)**
[25] EN
[54] **PROTECTIVE DEVICE, SLOPE SECURING MEANS AW WELL AS USE OF AND METHOD FOR PRODUCING THE PROTECTIVE DEVICE**
[54] **DISPOSITIF DE PROTECTION, STABILISATEUR DE TALUS, AINSI QU'UTILISATION ET PROCEDE DE FABRICATION DU DISPOSITIF DE PROTECTION**
[72] WENDELER-GOEGGELMANN, CORINNA, CH
[73] GEOBRUGG AG, CH
[85] 2021-03-23
[86] 2019-09-24 (PCT/EP2019/075703)
[87] (WO2020/064725)
[30] DE (10 2018 123 477.5) 2018-09-24

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[51] **Int.Cl. F04B 53/16 (2006.01) E21B 41/00 (2006.01) E21B 43/26 (2006.01) F04B 23/06 (2006.01) F04B 53/10 (2006.01)**
[25] EN
[54] **COVER FOR FLUID SYSTEMS AND RELATED METHODS**
[54] **COUVERCLE POUR CIRCUITS DE FLUIDE ET METHODES CONNEXES**
[72] RODRIGUEZ, GUILLERMO, US
[72] MARTINEZ, HEBER, US
[72] RODRIGUEZ-RAMON, RICARDO, US
[72] YEUNG, TONY, US
[73] BJ ENERGY SOLUTIONS, LLC, US
[86] (3114168)
[87] (3114168)
[22] 2021-04-06
[30] US (62/704,462) 2020-05-12
[30] US (62/704,476) 2020-05-12
[30] US (15/929,652) 2020-05-14

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[51] **Int.Cl. C09K 3/10 (2006.01) B05D 1/36 (2006.01) B05D 3/04 (2006.01) B05D 7/14 (2006.01) B05D 7/24 (2006.01) C08F 2/44 (2006.01) F16L 55/175 (2006.01)**
[25] EN
[54] **REPAIRING MATERIAL FOR LIQUID LEAKAGE, REPARING METHOD FOR LIQUID LEAKAGE, AND PIPELINE**
[54] **MATERIAU DE REPARATION POUR FUITE DE LIQUIDE, PROCEDE DE REPARATION POUR FUITE DE LIQUIDE, ET PIPELINE**
[72] MORI, YASUTAKA, JP
[72] KUBOTA, TAKAAKI, JP
[72] ABE, TETSUYA, JP
[73] DEXERIALS CORPORATION, JP
[85] 2021-03-25
[86] 2019-08-23 (PCT/JP2019/033146)
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[30] JP (2018-181734) 2018-09-27

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[25] EN
[54] **USE OF A GAS-RETAINING LAYER WHICH IS ARRANGED ON A BODY THAT IS IMMERSIBLE IN A LIQUID OR WETTABLE BY THE LIQUID**
[54] **UTILISATION D'UNE COUCHE CONTENANT DU GAZ DISPOSEE SUR UN CORPS IMMERSIBLE DANS UNE SUBSTANCE LIQUIDE OU MOUILLABLE PAR LA SUBSTANCE LIQUIDE**
[72] SCHIMMEL, THOMAS, DE
[73] BADEN-WURTTEMBERG STIFTUNG GGMBH, DE
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[87] (3114548)
[22] 2013-02-22
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[30] DE (10 2012 004 067.9) 2012-03-03
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[51] **Int.Cl. H04W 4/00 (2018.01)**
[25] EN
[54] **METHOD FOR DETERMINING TRANSMISSION MODE IN SIDELINK, TERMINAL APPARATUS, AND NETWORK APPARATUS**
[54] **PROCEDE DE DETERMINATION DE MODE DE TRANSMISSION DANS UNE LIAISON LATERALE, APPAREIL DE TERMINAL ET APPAREIL DE RESEAU**
[72] ZHAO, ZHENSHAN, CN
[72] LIN, HUEI-MING, AU
[72] LU, QIANXI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-04-15
[86] 2018-10-29 (PCT/CN2018/112453)
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[51] **Int.Cl. B23K 35/26 (2006.01) B23K 35/02 (2006.01) B23K 35/36 (2006.01) B23K 35/362 (2006.01) C22C 13/00 (2006.01) C22C 13/02 (2006.01)**
[25] EN
[54] **LOW TEMPERATURE SOLDERING SOLUTIONS FOR POLYMER SUBSTRATES, PRINTED CIRCUIT BOARDS AND OTHER JOINING APPLICATIONS**
[54] **SOLUTIONS DE BRASAGE A BASSE TEMPERATURE POUR SUBSTRATS POLYMERES, CARTES DE CIRCUITS IMPRIMES ET AUTRES APPLICATIONS D'ASSEMBLAGE**
[72] RAUT, RAHUL, US
[72] CHAKI, NIRMALYAKUMAR, US
[72] SINGH, BAWA, US
[72] PANDHER, RANJIT, US
[72] SARKAR, SIULI, US
[73] ALPHA ASSEMBLY SOLUTIONS INC., US
[85] 2021-04-15
[86] 2019-10-23 (PCT/EP2019/025358)
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[30] IN (201811040134) 2018-10-24

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[51] **Int.Cl. C22C 23/06 (2006.01) C22C 1/03 (2006.01) C22C 23/00 (2006.01) C22F 1/06 (2006.01)**
[25] EN
[54] **COPPER-CONTAINING, HIGH-TOUGHNESS AND RAPIDLY DEGRADABLE MAGNESIUM ALLOY, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **ALLIAGE DE MAGNESIUM CONTENANT DU CUIVRE, A HAUTE TENACITE ET RAPIDEMENT DEGRADABLE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WANG, JINGFENG, CN
[72] GAO, SHIQING, CN
[72] LIU, SHIJIE, CN
[72] WANG, KUI, CN
[72] PAN, FUSHENG, CN
[73] CHONGQING UNIVERSITY, CN
[85] 2021-04-20
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[87] (WO2020/082780)
[30] CN (201811237128.4) 2018-10-23

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[51] **Int.Cl. G06Q 20/38 (2012.01)**
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[54] **SETTLEMENT SYSTEM AND SETTLEMENT METHOD**
[54] **SYSTEME DE REGLEMENT ET PROCEDE DE REGLEMENT**
[72] ARIKAWA, SHINICHIROU, JP
[72] FUJIYOSHI, EIJI, JP
[73] 10353744 CANADA LTD., CA
[86] (3117518)
[87] (3117518)
[22] 2014-12-24
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[25] EN
[54] **A ROOF RAIL ASSEMBLY FOR A VEHICLE**
[54] **ASSEMBLAGE DE BRANCARD DE TOIT POUR UN VEHICULE**
[72] HENRY, MARK ANTHONEY, JR, US
[72] GEREZ, JOSHUA MICHAEL, US
[72] ROGERS, JOSHUA MERLE, US
[73] ADRIAN STEEL COMPANY, US
[86] (3117631)
[87] (3117631)
[22] 2021-05-07
[30] US (17/191,794) 2021-03-04

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[51] **Int.Cl. E21B 47/04 (2012.01) E21B 47/047 (2012.01) E21B 47/07 (2012.01)**
[25] EN
[54] **DETERMINING GAS-OIL AND OIL-WATER SHUT-IN INTERFACES FOR AN UNDULATING WELL**
[54] **DETERMINATION DES INTERFACES DE FERMETURE GAZ-HUILE ET HUILE-EAU POUR PUITS ONDULE**
[72] KANG, YONGFENG, US
[72] GONZALES, ADOLFO, US
[72] SAMUEL, ROBELLO, US
[72] LIU, ZHENGCHUN, US
[72] CHAUDHARI, NITISH, US
[73] LANDMARK GRAPHICS CORPORATION, US
[86] (3119115)
[87] (3119115)
[22] 2021-05-18
[30] US (17/314,285) 2021-05-07
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[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A62B 7/00 (2006.01) A62B 9/00 (2006.01)**
[25] EN
[54] **MANUFACTURING METHOD FOR A HOOD TYPE VENTILATION DEVICE**
[54] **METHODE DE FABRICATION POUR UN DISPOSITIF DE VENTILATION POUR CAPOT**
[72] BERNARD, EDWARD, CA
[72] CIPKAR, WILL, CA
[72] CIPKAR, WILLIAM, CA
[72] GIGNAC, BRIAN, CA
[73] BERNARD, EDWARD, CA
[73] CIPKAR, WILL, CA
[73] CIPKAR, WILLIAM, CA
[73] GIGNAC, BRIAN, CA
[86] (3119117)
[87] (3119117)
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[13] C
[51] **Int.Cl. C22B 5/12 (2006.01) C22B 7/00 (2006.01) C22B 26/12 (2006.01)**
[25] EN
[54] **PROCESS FOR THE RECOVERY OF LITHIUM**
[54] **PROCEDE DE RECUPERATION DE LITHIUM**
[72] SCHEUNIS, LENNART, BE
[72] CALLEBAUT, WILLEM, BE
[73] UMICORE, BE
[85] 2021-05-07
[86] 2019-10-31 (PCT/EP2019/079762)
[87] (WO2020/104164)
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[11] **3,119,508**
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[51] **Int.Cl. F28F 3/04 (2006.01) F28D 9/00 (2006.01) F28D 21/00 (2006.01)**
[25] EN
[54] **PLATE PACKAGE, PLATE AND HEAT EXCHANGER DEVICE**
[54] **GARNISSAGE A PLAQUE, PLAQUE ET DISPOSITIF ECHANGEUR DE CHALEUR**
[72] STROMER, FREDRIK, SE
[72] SKOGLOSA, ANDERS, SE
[73] ALFA LAVAL CORPORATE AB, SE
[86] (3119508)
[87] (3119508)
[22] 2018-02-15
[62] 3,049,092
[30] EP (17160262.6) 2017-03-10

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[51] **Int.Cl. C07C 233/05 (2006.01) A61K 31/16 (2006.01) A61P 25/00 (2006.01) A61P 31/00 (2006.01)**
[25] EN
[54] **RIP1 INHIBITORS**
[54] **INHIBITEURS DE RIP1**
[72] SU, YANING, CN
[72] ZHANG, ZHIYUAN, CN
[72] YANG, YI, CN
[72] WANG, GUOZHENG, CN
[72] LIU, WENDONG, CN
[72] MA, YONGFEN, CN
[72] REN, YAN, CN
[73] SIRONAX LTD, KY
[85] 2021-05-20
[86] 2019-11-20 (PCT/CN2019/119676)
[87] (WO2020/103859)
[30] CN (PCT/CN2018/116555) 2018-11-20

[11] **3,121,773**
[13] C
[51] **Int.Cl. A01G 13/02 (2006.01) A01B 49/02 (2006.01)**
[25] EN
[54] **COVERING SOIL MULCHING APPARATUS HAVING SOIL CLOGGING PREVENTION FUNCTION**
[54] **APPAREIL DE COUVERTURE DU SOL AYANT UNE FONCTION POUR PREVENIR LE COLMATAGE DU SOL**
[72] CHOE, SUNG-JIN, KR
[73] GREEN AND SEED CORPORATION, KR
[85] 2021-06-09
[86] 2020-07-21 (PCT/KR2020/009572)
[87] (WO2022/014763)
[30] KR (10-2020-0088696) 2020-07-17

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[13] C
[51] **Int.Cl. F16L 11/10 (2006.01) F16L 11/12 (2006.01)**
[25] EN
[54] **KINK-RESISTANT HOSE**
[54] **BOYAU RESISTANT A L'ENTORTILLEMENT**
[72] YEISER, JOHN, US
[72] O'CONNOR, TIM, US
[72] ROSSI, JOSE, US
[72] WILLIAMS, ERICK, US
[73] SWAN PRODUCTS, LLC, US
[85] 2021-06-11
[86] 2021-02-26 (PCT/US2021/019974)
[87] (3122241)
[30] US (62/982,687) 2020-02-27

[11] **3,122,726**
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[51] **Int.Cl. G10L 19/008 (2013.01) G10L 19/26 (2013.01) G10L 19/02 (2013.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PROCESSING MULTIMEDIA SIGNALS**
[54] **METHODE ET APPAREIL POUR LE TRAITEMENT DE SIGNAUX MULTIMEDIAS**
[72] OH, HYUNOH, KR
[72] LEE, TAEGYU, KR
[73] GCOA CO., LTD., KR
[73] WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC., KR
[86] (3122726)
[87] (3122726)
[22] 2014-09-17
[62] 2,924,458
[30] US (61/878,638) 2013-09-17
[30] KR (10-2013-0125936) 2013-10-22
[30] US (61/894,442) 2013-10-23

[11] **3,122,949**
[13] C
[51] **Int.Cl. C25D 11/12 (2006.01) C09K 13/04 (2006.01) C25D 11/02 (2006.01) C25D 11/24 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING ALUMINUM ALLOY ANODIZED FILM HAVING SUPERHYDROPHOBIC SURFACE**
[54] **PROCEDE POUR LA FABRICATION DE FILM ANODISE D'ALLIAGE D'ALUMINIUM AYANT UNE SURFACE SUPER-HYDROPHOBE**
[72] JEONG, CHANYOUNG, KR
[73] DONG-EUI UNIVERSITY INDUSTRIAL-ACADEMIC COOPERATION FOUNDATION, KR
[85] 2021-06-10
[86] 2019-11-08 (PCT/KR2019/015150)
[87] (WO2020/141714)
[30] KR (10-2018-0173967) 2018-12-31

[11] **3,123,819**
[13] C
[51] **Int.Cl. B64C 29/02 (2006.01) B64C 3/10 (2006.01) B64C 27/26 (2006.01) B64D 27/24 (2006.01)**
[25] EN
[54] **AIRCRAFT HAVING M-WINGS**
[54] **AERONEF AYANT DES AILES-M**
[72] OLDROYD, PAUL K., US
[72] MCCULLOUGH, JOHN RICHARD, US
[73] TEXTRON INNOVATIONS INC., US
[86] (3123819)
[87] (3123819)
[22] 2017-06-30
[62] 3,050,137
[30] US (15/200,163) 2016-07-01
[30] US (15/606,242) 2017-05-26

[11] **3,123,994**
[13] C
[51] **Int.Cl. C21D 9/56 (2006.01) F27D 7/02 (2006.01) F27D 7/06 (2006.01)**
[25] EN
[54] **STEEL STRIP ANNEALING FURNACE WITH HUMIDITY CONTROL DEVICE**
[54] **FOUR DE RECUIT DE BANDE D'ACIER DOTE D'UN DISPOSITIF DE REGULATION D'HUMIDITE**
[72] UMLAUF, WILLIAM P, US
[72] LANZI III, OSCAR, US
[72] BRANNBACKA, JOHNNY C, US
[72] ROTOLE, JOHN A, US
[72] BING, ROBERT, US
[73] ARCELORMITTAL, LU
[85] 2021-06-17
[86] 2018-12-21 (PCT/IB2018/060491)
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[11] **3,124,653**
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[51] **Int.Cl. B64C 25/26 (2006.01) F16C 11/10 (2006.01)**
[25] EN
[54] **AIRCRAFT LANDING GEAR ASSEMBLY WITH A GROUND LOCK**
[54] **ENSEMBLE TRAIN D'ATTERRISSAGE D'AVION A BROCHE DE SECURITE**
[72] BENNETT, IAN ROBERT, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (3124653)
[87] (3124653)
[22] 2014-08-29
[62] 2,922,878
[30] GB (1316101.3) 2013-09-10

[11] **3,126,122**
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[51] **Int.Cl. C11B 1/02 (2006.01) A23L 33/105 (2016.01) A23P 10/40 (2016.01) A61K 36/185 (2006.01) C11B 1/10 (2006.01)**
[25] EN
[54] **POWDERIZED CANNABIS AND USES THEREOF**
[54] **CANNABIS EN POUDRE ET UTILISATIONS**
[72] SAMBURSKI, GUY, IL
[72] BELIAVSKY, YAN, IL
[73] FINE - CAN LTD, IL
[86] (3126122)
[87] (3126122)
[22] 2021-07-27
[30] IL (278286) 2020-10-25

[11] **3,126,378**
[13] C
[51] **Int.Cl. C21D 8/06 (2006.01) C22C 38/00 (2006.01) C22C 38/22 (2006.01) C22C 38/50 (2006.01)**
[25] EN
[54] **MECHANICAL STRUCTURE STEEL FOR COLD-WORKING AND MANUFACTURING METHOD THEREFOR**
[54] **ACIER POUR STRUCTURES DE MACHINES DE TRAVAIL A FROID, ET SON PROCEDE DE FABRICATION**
[72] YAMASHITA, KOJI, JP
[72] MURAKAMI, SHOGO, JP
[72] SAKATA, MASAYUKI, JP
[72] CHIBA, MASAMICHI, JP
[73] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2021-07-09
[86] 2020-01-14 (PCT/JP2020/000840)
[87] (WO2020/158368)
[30] JP (2019-016219) 2019-01-31
[30] JP (2019-211181) 2019-11-22

[11] **3,129,570**
[13] C
[51] **Int.Cl. E06B 9/38 (2006.01) E06B 9/262 (2006.01)**
[25] EN
[54] **HANDLE AND BRAKE ARRANGEMENT FOR A COVERING FOR ARCHITECTURAL OPENINGS**
[54] **POIGNEE ET DISPOSITIF DE FREINAGE POUR UN REVETEMENT D'OUVERTURES ARCHITECTURALES**
[72] ANDERSON, RICHARD N., US
[72] THOMPSON, EUGENE W., US
[72] FISHER, ROBERT E., II, US
[73] HUNTER DOUGLAS INC., US
[86] (3129570)
[87] (3129570)
[22] 2014-07-15
[62] 2,856,890
[30] US (61/847,117) 2013-07-17
[30] US (61/873,035) 2013-09-03

[11] **3,129,920**
[13] C
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/38 (2006.01) A61M 39/12 (2006.01)**
[25] EN
[54] **INFUSION RESERVOIR WITH PUSH-ON CONNECTOR FEATURES AND/OR ATTACHMENTS THEREFOR**
[54] **RESERVOIR DE PERFUSION AVEC DES FONCTIONS ET/OU DES ACCESSOIRES DE CONNECTEUR-PRESSION**
[72] HWANG, CHARLES, US
[72] SEARLE, GARY, US
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3129920)
[87] (3129920)
[22] 2011-07-27
[62] 3,030,073
[30] US (61/369,706) 2010-07-31
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[13] C
[51] **Int.Cl. H04N 21/40 (2011.01) H04N 21/60 (2011.01) H04L 43/00 (2022.01) H04L 9/00 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM OF SECURE MEDIATOR FOR ADVANCED DISPLAYS**
[54] **METHODE ET SYSTEME DE MEDIATEUR SECURISE POUR LES ECRANS AVANCES**
[72] SOFFER, AVIV, IL
[72] HIRSHBERG, DAVID, IL
[73] HIGH SEC LABS LTD., IL
[86] (3130707)
[87] (3130707)
[22] 2021-09-14
[30] US (17/099,812) 2020-11-17

[11] **3,131,475**
[13] C
[51] **Int.Cl. H04N 19/52 (2014.01) H04N 19/139 (2014.01) H04N 19/17 (2014.01)**
[25] EN
[54] **VIDEO PREDICTION ENCODING DEVICE, VIDEO PREDICTION ENCODING METHOD, VIDEO PREDICTION ENCODING PROGRAM, VIDEO PREDICTION DECODING DEVICE, VIDEO PREDICTION DECODING METHOD, AND VIDEO PREDICTION DECODING PROGRAM**
[54] **DISPOSITIF DE CODAGE VIDEO PAR PREDICTION, PROCEDE DE CODAGE VIDEO PAR PREDICTION, PROGRAMME DE CODAGE VIDEO PAR PREDICTION, DISPOSITIF DE DECODAGE VIDEO PAR PREDICTION, PROCEDE DE DECODAGE VIDEO PAR PREDICTION ET PROGRAMME DE DECODAGE VIDEO PAR PREDICTION**
[72] BOON, CHOONG SENG, JP
[72] SUZUKI, YOSHINORI, JP
[73] NTT DOCOMO, INC., JP
[86] (3131475)
[87] (3131475)
[22] 2012-09-25
[62] 3,082,150
[30] JP (2011-243490) 2011-11-07

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[51] **Int.Cl. G06E 1/00 (2006.01)**
[25] EN
[54] **TRANSFORMATION AND COMPARISON OF TRADE DATA TO MUSICAL PIECE REPRESENTATION AND METRICAL TREES**
[54] **TRANSFORMATION ET COMPARAISON DE DONNEES COMMERCIALES A UNE REPRESENTATION D'UNE PIECE MUSICALE ET A DES ARBRES METRIQUES**
[72] TO, KELVIN, US
[73] DATA BOILER TECHNOLOGIES LLC, US
[85] 2021-09-30
[86] 2020-04-01 (PCT/US2020/026221)
[87] (WO2020/206001)

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[51] **Int.Cl. G01L 5/24 (2006.01)**
[25] EN
[54] **TILT COMPENSATED TORQUE-ANGLE WRENCH**
[54] **CLE AVEC COUPLE/ANGLE A INCLINAISON COMPENSEE**
[72] KING, JERRY A., US
[72] LEE, NATHAN J., US
[73] SNAP-ON INCORPORATED, US
[86] (3139225)
[87] (3139225)
[22] 2019-08-22
[62] 3,052,754
[30] US (16/178,315) 2018-11-01

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[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/30 (2018.01) A61B 5/024 (2006.01) A61B 5/0295 (2006.01)**
[25] EN
[54] **PORTABLE DEHYDRATION MONITORING SYSTEM**
[54] **SYSTEME PORTABLE DE SURVEILLANCE DE LA DESHYDRATATION**
[72] FEARN, ROBERT I., US
[72] DANESYHAR, PHILLIP EDWARD MOHSIEN, GB
[73] 11 HEALTH AND TECHNOLOGIES, INC., US
[85] 2021-11-17
[86] 2020-05-24 (PCT/US2020/034441)
[87] (WO2020/243033)
[30] US (62/852,874) 2019-05-24

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[13] C
[51] **Int.Cl. C02F 1/52 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **SYSTEM FOR REMOVING PER- AND POLYFLUORINATED ALKYL SUBSTANCES FROM CONTAMINATED AQUEOUS STREAMS, VIA CHEMICAL AIDED FILTRATION, AND METHODS OF USE THEREOF**
[54] **SYSTEME POUR ELIMINER DES SUBSTANCES D'ALKYLE PERFLUOREES ET POLYFLUOREES DE FLUX AQUEUX CONTAMINES AU MOYEN DE LA FILTRATION ASSISTEE PAR PRODUITS CHIMIQUES ET METHODES D'UTILISATION CONNEXE**
[72] PARTHASARATHY, HARIKRISHNAN, US
[73] WP&E TECHNOLOGIES AND SOLUTIONS, LLC, US
[85] 2021-12-01
[86] 2021-02-24 (PCT/US2021/019305)
[87] (WO2021/257131)
[30] US (63/041,099) 2020-06-18
[30] US (17 /183,333) 2021-02-23

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[13] C
[51] **Int.Cl. G01N 27/00 (2006.01) C12Q 1/02 (2006.01) H01J 49/04 (2006.01) H01J 49/42 (2006.01)**
[25] EN
[54] **METHODS FOR CHARACTERIZATION OF COMPOUNDS DERIVED FROM CANNABIS SP.**
[54] **METHODES DE CARACTERISATION DE COMPOSES DERIVES DE CANNABIS SPIVES DE SP.**
[72] NOSHAD, DAVID, CA
[72] LI, PAUL, CA
[72] QUDEER, ABDUL, CA
[73] MEDLEAF BIOTECHNOLOGIES AND GLOBAL RESEARCH AND DEVELOPMENT INC., CA
[85] 2021-11-26
[86] 2021-04-14 (PCT/CA2021/050503)
[87] (WO2021/207839)
[30] US (63/009,590) 2020-04-14

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[13] C
[51] **Int.Cl. E21B 47/008 (2012.01) E21B 43/12 (2006.01) F04B 47/02 (2006.01) F04B 49/06 (2006.01)**
[25] EN
[54] **OPTICAL MONITORING AND CONTROL OF PUMPJACK**
[54] **SURVEILLANCE OPTIQUE ET CONTROLE D'UN CHEVALET DE POMPAGE**
[72] REDMOND, JAMES, CA
[72] SOBIN, ZACKERY, US
[72] GUIMOND, SCOTT, CA
[73] SCHNEIDER ELECTRIC SYSTEMS USA, INC., US
[86] (3143051)
[87] (3143051)
[22] 2021-12-17
[30] US (17/127,241) 2020-12-18

[11] **3,144,908**
[13] C
[51] **Int.Cl. C01B 33/32 (2006.01)**
[25] EN
[54] **PROCESS OF OBTAINING POWDERED SODIUM SILICATE FROM SAND TAILINGS ORIGINATED FROM THE IRON ORE CONCENTRATION PROCESS**
[54] **PROCEDE D'OBTENTION DE SILICATE DE SODIUM EN POUDRE A PARTIR D'UN REJET SABLEUX PROVENANT DU PROCEDE DE CONCENTRATION DE MINERAI DE FER**
[72] VOGT, JORDANNA CHAMON, BR
[72] LAMEIRAS, FERNANDO SOARES, BR
[73] VALE S.A., BR
[85] 2022-01-19
[86] 2020-07-15 (PCT/BR2020/050261)
[87] (WO2021/035318)
[30] BR (BR1020190180803) 2019-08-30

[11] **3,145,122**
[13] C
[51] **Int.Cl. F16L 3/10 (2006.01) B05B 15/60 (2018.01) A62C 35/68 (2006.01)**
[25] EN
[54] **ADJUSTABLE BRACKET AND HUB FOR FLEXIBLE HOSE SUPPORT**
[54] **SUPPORT AJUSTABLE ET MOYEU POUR SUPPORT DE BOYAU**
[72] MITCHELL, STEPHEN, US
[72] DOOLEY, MIKE, US
[72] DAFONSECA, ODAIR, US
[72] RINGER, YORAM, US
[73] ASC ENGINEERED SOLUTIONS, LLC, US
[86] (3145122)
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[54] **DEVICE FOR PICKING UP FORAGE BALES FROM THE GROUND AND SELF-LOADING FORAGE BALE MACHINE COMPRISING THIS DEVICE**
[54] **DISPOSITIF DE RAMASSAGE DE BALLES DE FOURRAGE A PARTIR DU SOL ET MACHINE A BALLES DE FOURRAGE A CHARGEMENT AUTOMATIQUE COMPRENANT CE DISPOSITIF**
[72] CUSINE BARBER, MANUEL, ES
[73] ARCUSIN S.A., ES
[85] 2022-01-28
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[54] **COMPOSITE MATERIAL FOR THE PRODUCTION OF SEALING FOILS AND SEALING FOILS MADE THEREFROM**
[54] **MATERIAU COMPOSITE CONCU POUR PRODUIRE DES FLANS ET FLANS PRODUITS A PARTIR DE CE MATERIAU COMPOSITE**
[72] WEGENBERGER, ALFRED, AT
[72] KORNFELD, MARTIN, AT
[72] SCHEDL, ADOLF, AT
[72] STEINER, MATTHIAS, AT
[73] CONSTANTIA TEICH GMBH, AT
[85] 2022-01-07
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[25] EN
[54] **SELF-FOAMING HOT MELT ADHESIVE COMPOSITION AND METHODS OF MAKING AND USING SAME**
[54] **COMPOSITIONS ADHESIVES THERMOFUSIBLES AUTO-EXPANSIVES ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION**
[72] STUMPHAUZER, WILLIAM C., US
[73] FOAMMATICK, LLC, US
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[54] **PREPARATION OF TRANSMUCOSAL PSYCHOACTIVE ALKALOID COMPOSITION**
[54] **PREPARATION D'UNE COMPOSITION D'ALCALOIDE PSYCHOACTIF TRANSMUCOSAL**
[72] MOSS, RYAN, CA
[72] LIGHTBURN, BENJAMIN, CA
[72] RANKEN, LISA, CA
[73] PSILO SCIENTIFIC LTD., CA
[85] 2022-03-24
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[51] **Int.Cl. G16H 40/20 (2018.01) G06Q 50/22 (2018.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR DETERMINING A USE OF UNITS IN MEDICAL PROCEDURES TO ESTABLISH EFFICIENCY AND ALTERNATE PRICING**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR DETERMINER UNE UTILISATION D'UNITES DANS DES PROCEDURES MEDICALES POUR ETABLIR UNE EFFICACITE ET UNE TARIFICATION ALTERNATIVE**
[72] BARCLAY, BEN, US
[73] BARD PERIPHERAL VASCULAR, INC., US
[85] 2022-02-24
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[25] EN
[54] **POLYCRYSTALLINE CUBIC BORON NITRIDE COMPOSITE MATERIAL**
[54] **MATERIAU COMPOSITE DE NITRURE DE BORE CUBIQUE POLYCRISTALLIN**
[72] GHOSH, SANTONU, GB
[72] RODRIGUEZ SUAREZ, TERESA, GB
[72] ANDERSIN, STIG AKE, GB
[73] ELEMENT SIX (UK) LIMITED, GB
[85] 2022-04-14
[86] 2020-11-25 (PCT/EP2020/083340)
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[51] **Int.Cl. G01B 11/245 (2006.01) G06T 7/246 (2017.01) G01B 11/14 (2006.01) G08G 1/017 (2006.01)**
[25] EN
[54] **VIDEO-BASED TRACKING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE SUIVI VIDEO**
[72] ALI, KARIM, CA
[72] PILET, JULIEN VINCENT, CH
[72] BECKER, CARLOS JOAQUIN, CH
[73] INVISION AI, INC., CA
[85] 2022-04-05
[86] 2021-07-05 (PCT/CA2021/050913)
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[25] EN
[54] **WORKPIECE OF YANKEE CYLINDER SECTION AND PROCESS FOR MANUFACTURING A YANKEE CYLINDER**
[54] **SECTION DE FRICTIONNEUR PREFABRIQUEE ET PROCEDE DE FABRICATION DE FRICTIONNEUR**
[72] LI, WEIJUN, CN
[72] QIN, RONGJUN, CN
[72] STEINWENDER, FLORIAN, CN
[73] ANDRITZ CHINA LTD, CN
[85] 2022-06-15
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[25] EN
[54] **SYSTEMS AND METHODS FOR ACTUATING DOWNHOLE DEVICES AND ENABLING DRILLING WORKFLOWS FROM THE SURFACE**
[54] **SYSTEMES ET PROCEDES POUR ACTIONNER DES DISPOSITIFS DE FOND DE TROU ET PERMETTRE DES FLUX DE TRAVAUX DE FORAGE A PARTIR DE LA SURFACE**
[72] GOONERATNE, CHINTHAKA PASAN, SA
[72] RAMASAMY, JOTHIBASU, SA
[72] LI, BODONG, SA
[72] AL-BADRAN, MOHAMMAD SAUD, SA
[72] MOELLENDICK, TIMOTHY ERIC, SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2022-05-29
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[54] **FIRE STOP ASSEMBLY FOR CONCRETE STRUCTURES**
[54] **ENSEMBLE COUPE-FEU POUR STRUCTURES EN BETON**
[72] CHASE, JACOB, US
[72] O'NEIL, VIRGIL, US
[72] COSLEY, JAMES, US
[73] RELIANCE WORLDWIDE CORPORATION, US
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[54] **PROCESS FOR PRODUCTION REFINED LITHIUM METAL**
[54] **PROCEDE DE PRODUCTION DE METAL DE LITHIUM AFFINE**
[72] JASTRZEBSKI, MACIEJ, CA
[73] LI-METAL CORP., CA
[85] 2022-11-18
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[25] EN
[54] **METHOD AND SYSTEM FOR REDUCING DRAG IN A VEHICLE**
[54] **METHODE ET SYSTEME POUR REDUIRE LA TRAINEE D'UN VEHICULE**
[72] ELOGAB, OSAMA, GB
[72] ELOGAB, HATEM, GB
[73] OGAB LIMITED, GB
[86] (3181977)
[87] (3181977)
[22] 2016-03-02
[62] 2,976,039
[30] GB (1503719.5) 2015-03-05
[30] GB (1506537.8) 2015-04-17

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[25] EN
[54] **METHOD AND SYSTEM FOR REDUCING DRAG IN A VEHICLE**
[54] **PROCEDE ET SYSTEME PERMETTANT DE REDUIRE LA TRAINEE D'UN VEHICULE**
[72] ELOGAB, OSAMA, GB
[72] ELOGAB, HATEM, GB
[73] OGAB LIMITED, GB
[86] (3181994)
[87] (3181994)
[22] 2016-03-02
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[25] EN
[54] **ENGINE SYSTEM AND METHOD OF GENERATING ELECTRICITY FROM AN INTERNAL COMBUSTION ENGINE**
[54] **SYSTEME MOTEUR ET METHODE DE PRODUCTION D'ELECTRICITE A PARTIR D'UN MOTEUR A COMBUSTION INTERNE**
[72] ELOGAB, OSAMA, GB
[72] ELOGAB, HATEM, GB
[73] OGAB LIMITED, GB
[86] (3181999)
[87] (3181999)
[22] 2016-03-02
[62] 2,976,039
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[25] EN
[54] **A SYSTEM AND METHOD FOR REUSING AND RECYCLING REUSABLE CONTAINERS**
[54] **SYSTEME ET METHODE POUR LA REUTILISATION ET LE RECYCLAGE DE CONTENANTS REUTILISABLES**
[72] TRAN-NGOC, TRUC, CA
[72] TRAN, KIM-CHI, CA
[72] TRAN, KIM-LAN, CA
[71] TRAN-NGOC, TRUC, CA
[71] TRAN, KIM-CHI, CA
[71] TRAN, KIM-LAN, CA
[22] 2021-10-25
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[25] EN
[54] **EQUIPMENT DEGRADATION MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE LA DETERIORATION DE MATERIEL**
[72] SERATE, DUANE GO, CA
[72] YUEN, SIMON KAM-SANG, CA
[72] BEHNAMIAM, YASHAR, CA
[71] SUNCOR ENERGY INC., CA
[22] 2021-10-26
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[51] **Int.Cl. H02G 1/04 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR TEMPORARILY SUSPENDING CONDUCTORS**
[54] **APPAREIL ET METHODE POUR LA SUSPENSION TEMPORAIRE DE CONDUCTEURS**
[72] HARVEY, BENJAMIN JAMES, CA
[72] O'CONNELL, DANIEL NEIL, CA
[72] JODOIN, RAYMOND HENRY, CA
[71] QUANTA ASSOCIATES, L.P., US
[22] 2021-10-27
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[51] **Int.Cl. B02C 23/02 (2006.01) B02C 13/286 (2006.01) B65F 1/10 (2006.01)**
[25] FR
[54] **PORTABLE WASTE GRINDER FOR DEMOLITION SITE**
[54] **BROYEUR DE DECHETS PORTATIF POUR SITE DE DEMOLITION**
[72] SALVAS, ANGELIQUE, CA
[72] ROBICHAUD, MARTIN, CA
[72] FALARDEAU, XAVIER, CA
[71] GSR CONSTRUCTION, CA
[22] 2021-10-27
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[51] **Int.Cl. E21B 33/10 (2006.01) F16C 33/74 (2006.01) F16J 15/16 (2006.01)**
[25] EN
[54] **SEAL SYSTEM**
[54] **SYSTEME D'ETANCHEITE**
[72] RANDLE, HARTLEY, CA
[72] JULLION, BRANDON, CA
[72] TOMAS, ALARIC, CA
[72] GAMBLE. JOSHUA, CA
[71] DYNOMAX DRILLING TOOLS INC., CA
[22] 2021-10-26
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[51] **Int.Cl. B61B 1/00 (2006.01) B61B 1/02 (2006.01)**
[25] EN
[54] **AODA LEVEL BOARDING SUSTAINABLE ALTERATION**
[54] **MODIFICATION DURABLE DE CONFORMITE AUX EXIGENCES DE LA LOI SUR L'ACCESSIBILITE POUR LES PERSONNES HANDICAPEES DE L'ONTARIO EN MATIERE D'EMBARQUEMENT DE NIVEAU**
[72] MAGYAROSI, TIBOR, CA
[71] MAGYAROSI, TIBOR, CA
[22] 2021-10-27
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[51] **Int.Cl. C01D 15/06 (2006.01) H01M 10/0562 (2010.01) C01B 17/22 (2006.01) C01B 25/14 (2006.01) C01D 15/00 (2006.01) C30B 29/46 (2006.01) H01M 4/62 (2006.01) H01M 6/18 (2006.01) C01G 17/00 (2006.01)**
[25] FR
[54] **INORGANIC COMPOUNDS WITH AN ARGYRODITE-TYPE STRUCTURE, THEIR PREPARATION METHODS AND THEIR USE IN ELECTROCHEMICAL APPLICATIONS**
[54] **COMPOSES INORGANIQUES POSSEDANT UNE STRUCTURE DE TYPE ARGYRODITE, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS DANS DES APPLICATIONS ELECTROCHIMIQUES**
[72] NASSOY, FABIEN, CA
[72] FLEUTOT, BENOIT, CA
[72] GIRARD, MARC-ANDRE, CA
[72] DUCHESNE, STEVE, CA
[72] GAGNON, CATHERINE, CA
[72] PEREA, ALEXIS, CA
[72] ROZON, DAVID, CA
[72] KRACHKOVSKIY, SERGEY, CA
[71] HYDRO-QUEBEC, CA
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[51] **Int.Cl. G06N 20/00 (2019.01) G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED MODELING OF SERVICE PROCESSES**
[54] **SYSTEMES ET METHODES DE MODELISATION AUTOMATISES DE PROCEDES DE SERVICE**
[72] SENDEROVICH, ARIK, CA
[72] BARON, OPHER, CA
[72] KRASS, DMITRY, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
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[51] **Int.Cl. F24F 8/22 (2021.01) A61L 9/20 (2006.01) F24F 3/16 (2021.01)**
[25] EN
[54] **LOW-PROFILE IN-DUCT AIR SANITIZER USING UV EMITTER AND COOPERATING WALL-MOUNTABLE REFLECTORS**
[54] **ASSAINISSEUR D'AIR EN CONDUITE DE PROFIL BAS UTILISANT UN EMETTEUR DE RAYONNEMENT ULTRAVIOLET ET COOPERANT AVEC DES REFLECTEURS POUVANT ETRE INSTALLES SUR LES MURS**
[72] HENLEY, STUART, CA
[72] DESCHNER, BERNARD, CA
[71] AIR ALPINE INNOVATIVE RESEARCH INC., CA
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[25] EN
[54] **TOWED EARTH MOVING IMPLEMENTS WITH FIXED-WINGED PITCH-ADJUSTABLE BLADE ASSEMBLY**
[54] **APPAREILS DE TERRASSEMENT REMORQUES COMPRENANT UN ASSEMBLAGE DE PALE A PAS AJUSTABLE ET A VOILURE FIXE**
[72] FRIESEN, DEREK J., CA
[72] CHEVALIER, SEAN D., CA
[72] BERGEN, HARVEY G., CA
[71] PHIBER MANUFACTURING INC., CA
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[51] **Int.Cl. A47G 9/10 (2006.01)**
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[54] **THERHIPY PILLOW**
[54] **OREILLER THERAPEUTIQUE THERHIPY PILLOW**
[72] GRAZIANO, FRANCO, CA
[71] GRAZIANO, FRANCO, CA
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[51] **Int.Cl. B26D 3/26 (2006.01) B26D 3/10 (2006.01)**
[25] EN
[54] **BLADE ASSEMBLY**
[54] **ASSEMBLAGE DE LAME**
[72] MACKINNON, JASON, CA
[72] THORPE, ALAN, CA
[71] MACKINNON, JASON, CA
[71] THORPE, ALAN, CA
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[51] **Int.Cl. B60N 3/04 (2006.01)**
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[54] **SHEETS OF A FOAMED POLYMERIC MATERIAL ETHYLENE VINYL ACETATE HAVE IMPROVED CHARACTERISTICS DUE TO A SPECIAL PRONOUNCED CONTOURED SURFACE**
[54] **FEUILLES DE MATERIAU POLYMERE EXPANSE COMME L'ACETATE DE VINYLE-ETHYLENE AYANT DES CARACTERISTIQUES AMELIOREES EN RAISON D'UNE SURFACE SPECIALE A PROFIL PRONONCE**
[72] SHAKHVOROSTOV, DENIS, CA
[71] SHAKHVOROSTOV, DENIS, CA
[22] 2021-10-28
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[51] **Int.Cl. G06T 19/00 (2011.01) H04W 4/02 (2018.01) H04L 65/1059 (2022.01) G06F 3/01 (2006.01) G06F 3/14 (2006.01) G06F 17/00 (2019.01) G06Q 50/00 (2012.01) G09G 5/377 (2006.01)**
[25] EN
[54] **AUGMENTED REALITY SOCIAL NETWORKING SYSTEM FOR COMPUTING DEVICES WITH TRANSPARENT DISPLAYS**
[54] **SYSTEME DE RESEAU SOCIAL A REALITE AUGMENTEE POUR DISPOSITIFS INFORMATIQUES DOTES D'ECRANS TRANSPARENTS**
[72] KINEW, WABANAKWUT, CA
[71] KINEW, WABANAKWUT, CA
[22] 2021-10-28
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[51] **Int.Cl. H01J 49/26 (2006.01) H01J 49/10 (2006.01)**
[25] EN
[54] **A SAMPLE INTRODUCTION SYSTEM FOR MASS SPECTROMETRY**
[54] **UN SYSTEME D'INSERTION D'ECHANTILLON POUR UN SPECTROMETRE DE MASSE**
[72] JAVAHERY, GHOLAMREZA, CA
[72] SEPEHRI FARD, ALI, CA
[71] 10667587 CANADA INC. D/B/A QUADROCORE, CA
[22] 2021-10-29
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[25] EN
[54] **WASTE-HEAT RECOVERY AND POWER GENERATION SYSTEM FOR DATA CENTRES USING LIQUID COOLING**
[54] **SYSTEME DE RECUPERATION DE LA CHALEUR PERDUE ET DE PRODUCTION D'ENERGIE POUR LES CENTRES DE DONNEES UTILISANT LE REFROIDISSEMENT LIQUIDE**
[72] RAPHALS, PHILIP, CA
[72] BERTENYI, TAMAS, CA
[72] NAUDIN, JORIS, CA
[71] RAPHALS, PHILIP, CA
[71] BERTENYI, TAMAS, CA
[71] NAUDIN, JORIS, CA
[22] 2021-10-29
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[51] **Int.Cl. G02B 27/00 (2006.01) G06T 5/00 (2006.01) G06T 11/60 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM AND METHODS FOR AIR-WATER INTERFACE IMAGING DISTORTION CORRECTION**
[54] **APPAREIL, SYSTEME ET METHODES POUR UNE CORRECTION DE DEFORMATION D'IMAGERIE D'INTERFACE AIR-EAU**
[72] LIU, SHIWEI, CA
[72] WANG, LISHAO, CA
[72] CHENG, XIAOGE, CN
[72] LU, FRED, CA
[71] LIU, SHIWEI, CA
[71] WANG, LISHAO, CA
[71] CHENG, XIAOGE, CN
[71] LU, FRED, CA
[22] 2021-10-29
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[30] CA (3097505) 2021-10-29

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[51] **Int.Cl. G16H 20/00 (2018.01) H04W 4/06 (2009.01) G16H 20/70 (2018.01)**
[25] EN
[54] **IMPROVING BEHAVIOURAL-HEALTH SKILLS OF MEMBERS OF A TEAM**
[54] **AMELIORATION DES COMPETENCES DE SANTE COMPORTEMENTALES DES MEMBRES D'UNE EQUIPE**
[72] ERKER, KAMERON, CA
[72] TODD, RYAN, CA
[72] DECOSTE, JORDAN, CA
[72] GRAMLICH, STEVEN, CA
[71] MACROMIND MEDIA INC., CA
[22] 2021-10-29
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[51] **Int.Cl. A61K 31/568 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **NEW MEDICAL USE**
[54] **NOUVELLE UTILISATION MEDICALE**
[72] DOVERSKOG, MAGNUS, SE
[72] LAURIDSEN, METTE, SE
[72] SCHARSCHMIDT, BRUCE FREDRIC, SE
[71] UMECRINE COGNITION AB, SE
[22] 2021-10-29
[41] 2023-04-29

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[21] **3,137,238**
[13] A1
[51] **Int.Cl. B65D 90/12 (2006.01) B65D 88/12 (2006.01) E02D 27/50 (2006.01) F16M 9/00 (2006.01)**
[25] EN
[54] **CONTAINER ANCHORING BASE**
[54] **BASE D'ANCRAGE DE CONTENANT**
[72] CARRINGTON, SCOTT, CA
[71] CARRINGTON, SCOTT, CA
[22] 2021-10-29
[41] 2023-04-29

[21] **3,141,111**
[13] A1
[51] **Int.Cl. C02F 1/469 (2006.01) B01D 61/54 (2006.01) F16K 31/02 (2006.01)**
[25] EN
[54] **SWITCHING SYSTEM OF EDR WATER PURIFIER WITH THREE-WAY SOLENOID VALVE**
[54] **SYSTEME DE COMMUTATION D'EPURATEUR D'EAU A ELECTRODIALYSE INVERSE COMPRENANT UNE ELECTROVANNE A TROIS VOIES**
[72] DING, ALLEN, CN
[72] FAN, EDISON, CN
[71] KEMFLO (NANJING) ENVIRONMENTAL TECHNOLOGY CO., LTD., CN
[71] KEMFLO INTERNATIONAL CO., LTD., TW
[71] LIN, CHING-HSIUNG, TW
[22] 2021-12-06
[41] 2023-04-26
[30] CN (202111247534.0) 2021-10-26

[21] **3,141,113**
[13] A1
[51] **Int.Cl. C02F 1/469 (2006.01) B01D 61/52 (2006.01) B01D 61/54 (2006.01)**
[25] EN
[54] **SWITCHING SYSTEM OF EDR WATER PURIFIER WITH FOUR-WAY SOLENOID VALVE**
[54] **SYSTEME DE COMMUTATION D'EPURATEUR D'EAU A ELECTRODIALYSE INVERSE COMPRENANT UNE ELECTROVANNE A QUATRE VOIES**
[72] DING, ALLEN, CN
[72] FAN, EDISON, CN
[71] KEMFLO (NANJING) ENVIRONMENTAL TECHNOLOGY CO., LTD., CN
[71] KEMFLO INTERNATIONAL CO., LTD., TW
[71] LIN, CHING-HSIUNG, TW
[22] 2021-12-06
[41] 2023-04-26
[30] CN (202111249053.3) 2021-10-26

[21] **3,141,217**
[13] A1
[51] **Int.Cl. C02F 1/469 (2006.01) B01D 61/52 (2006.01) B01D 61/54 (2006.01)**
[25] EN
[54] **SWITCHING SYSTEM FOR EDR WATER PURIFIER WITH MULTIPLE SOLENOID VALVES**
[54] **SYSTEME DE COMMUTATION D'EPURATEUR D'EAU A ELECTRODIALYSE INVERSE COMPRENANT DE MULTIPLES ELECTROVANNES**
[72] DING, ALLEN, CN
[72] FAN, EDISON, CN
[71] KEMFLO (NANJING) ENVIRONMENTAL TECHNOLOGY CO., LTD., CN
[71] KEMFLO INTERNATIONAL CO., LTD., TW
[71] LIN, CHING-HSIUNG, TW
[22] 2021-12-07
[41] 2023-04-26
[30] CN (202111249087.2) 2021-10-26

[21] **3,143,653**
[13] A1
[51] **Int.Cl. A47L 9/00 (2006.01) A47L 5/24 (2006.01)**
[25] EN
[54] **SHROUD FOR HAND VACUUM CLEANER**
[54] **CARENAGE D'ASPIRATEUR PORTATIF**
[72] YORK, BRADLEY R., US
[72] MOYLAN, JULIA H., US
[72] TRUITT, BENSON E., US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-12-22
[41] 2023-04-29
[30] US (17/514,484) 2021-10-29

[21] **3,143,707**
[13] A1
[51] **Int.Cl. H04W 24/04 (2009.01) H04L 43/02 (2022.01) H04L 1/22 (2006.01)**
[25] EN
[54] **WIRELESS DATA TRANSMISSION SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE TRANSMISSION DE DONNEES SANS FIL**
[72] WEI, REN, CN
[72] LIU, DA, CN
[72] XU, ZHIYONG, CN
[71] SHANGHAI WUQI MICROELECTRONICS CO., LTD., CN
[22] 2021-12-22
[41] 2023-04-29
[30] CN (202111272738.X) 2021-10-29

[21] **3,146,318**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) G06F 3/0481 (2022.01) G16H 10/00 (2018.01) G16H 10/60 (2018.01) G06F 16/27 (2019.01)**
[25] EN
[54] **DATA ANALYTICS SYSTEM, METHOD AND PROGRAM PRODUCT FOR PROCESSING HEALTH INSURANCE CLAIMS AND TARGETED ADVERTISEMENT-BASED HEALTHCARE MANAGEMENT**
[54] **SYSTEME D'ANALYSE DE DONNEES, METHODE ET PROGRAMME POUR LE TRAITEMENT DES RECLAMATIONS D'ASSURANCE DE SANTE ET LA GESTION DES SOINS DE SANTE FONDES SUR LA PUBLICITE CIBLEE**
[72] ZELOCCHI, ENZO, US
[71] ZELOCCHI, ENZO, US
[22] 2022-01-13
[41] 2023-04-27
[30] US (17/512,611) 2021-10-27

[21] **3,149,037**
[13] A1
[51] **Int.Cl. F16L 55/052 (2006.01) F16L 41/02 (2006.01) F16L 55/07 (2006.01) F16M 13/00 (2006.01)**
[25] EN
[54] **HYDRONIC EXPANSION TANK ASSEMBLY**
[54] **ASSEMBLAGE DE RESERVOIR D'EXPANSION HYDRONIQUE**
[72] MASON, CHRISTOPHER W., US
[71] NIBCO INC., US
[22] 2022-02-16
[41] 2023-04-25
[30] US (17/509,344) 2021-10-25

[21] **3,150,490**
[13] A1
[51] **Int.Cl. G02C 11/02 (2006.01)**
[25] EN
[54] **EYEGLASS WITH REMOVABLY ATTACHABLE TOP**
[54] **LUNETTES AVEC CADRE SUPERIEUR AMOVIBLE**
[72] GORDON, PHILIP DENTON, US
[72] ZARO, LEE, US
[72] KONDAMURI, NATHAN, US
[72] EDELSTEIN, SOPHIA, US
[72] CRAYCRAFT, WILLIAM SCOTT, US
[71] PAIR EYEWEAR, INC., US
[22] 2022-03-01
[41] 2023-04-27
[30] US (17/580483) 2022-01-20
[30] US (63/272397) 2021-10-27
[30] US (63/289575) 2021-12-14

[21] **3,154,186**
[13] A1
[51] **Int.Cl. G06V 20/50 (2022.01) G06T 7/30 (2017.01) G06T 7/90 (2017.01) G06V 10/10 (2022.01) G06T 11/60 (2006.01)**
[25] EN
[54] **AUTOMATED BUILDING FLOOR PLAN GENERATION USING VISUAL DATA OF MULTIPLE BUILDING IMAGES**
[54] **GENERATION AUTOMATIQUE D'UN PLAN D'ETAGE DE BATIMENT AU MOYEN DE DONNEES VISUELLES DE MULTIPLES IMAGES DE BATIMENT**
[72] LAMBERT, JOHN W., US
[72] LI, YUGUANG, US
[72] BOYADZHIEV, IVAYLO, US
[72] WIXSON, LAMBERT E., US
[71] ZILLOW, INC., US
[22] 2022-04-05
[41] 2023-04-28
[30] US (17/585,433) 2022-01-26
[30] US (63/272,854) 2021-10-28

[21] **3,156,401**
[13] A1
[51] **Int.Cl. A61K 31/661 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **SUBCUTANEOUSLY ADMINISTERED TREATMENTS FOR ADVANCED PARKINSON'S DISEASE**
[54] **TRAITEMENTS ADMINISTRES DE FACON SOUS-CUTANEE POUR LA MALADIE DE PARKINSON AVANCEE**
[72] FACHERIS, MAURIZIO F., US
[72] GOLD, MICHAEL, US
[72] ROBIESON, WEINING Z., US
[72] VOS, MELISSA, US
[72] SPIEGEL, AMY M., US
[72] FISSEHA, NAHOME TEZERA, US
[72] BENESH, JANET, US
[72] LIOSSIS, GEORGE, US
[72] BUDUR, KUMAR, US
[71] ABBVIE INC., US
[22] 2022-04-25
[41] 2023-04-27
[30] US (63/272,574) 2021-10-27
[30] US (63/291,207) 2021-12-17
[30] US (63/297,513) 2022-01-07
[30] US (63/318,567) 2022-03-10
[30] US (63/327,441) 2022-04-05

[21] **3,157,014**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVED FAULT DIAGNOSTICS OF ELECTRICAL MACHINES UNDER DYNAMIC LOAD OSCILLATIONS**
[54] **SYSTEMES ET METHODES POUR DES DIAGNOSTICS D'ECHEC AMELIORE DE MACHINES ELECTRIQUES SOUMISES A DES OSCILLATIONS DE CHARGE DYNAMIQUE**
[72] SHAHID, ALI, IN
[72] MOHAN, SUMITHA, IN
[72] MUKHERJEE, RUPAM, IN
[72] TIWARI, ARVIND KUMAR, IN
[72] PAMULAPARTHY, BALAKRISHNA, IN
[71] GENERAL ELECTRIC TECHNOLOGY GMBH, CH
[22] 2022-04-22
[41] 2023-04-29
[30] US (17/452838) 2021-10-29

[21] **3,159,240**
[13] A1
[51] **Int.Cl. B65D 81/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RETENTION AND ACCESS FOR STORAGE CONTAINERS**
[54] **SYSTEMES ET METHODES DE CONSERVATION ET D'ACCES A DES CONTENEURS DE STOCKAGE**
[72] FLEMING, DARRELL WAYNE, US
[71] DND INNOVATIVE SOLUTIONS, INC., US
[22] 2022-05-17
[41] 2023-04-28
[30] US (63/272,966) 2021-10-28

[21] **3,163,109**
[13] A1
[51] **Int.Cl. B64D 47/00 (2006.01) B64C 11/00 (2006.01) B64D 33/08 (2006.01)**
[25] FR
[54] **AIRCRAFT EQUIPPED WITH COOLING SYSTEM FOR ONBOARD FUEL BATTERY**
[54] **AERONEF MUNI D'UN SYSTEME DE REFROIDISSEMENT POUR UNE PILE A COMBUSTIBLE EMBARQUEE**
[72] GARCIN, PATRICE, FR
[72] SERR, CHRISTOPHE, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2022-06-16
[41] 2023-04-28
[30] FR (2111483) 2021-10-28

[21] **3,164,542**
[13] A1
[51] **Int.Cl. G06V 30/12 (2022.01) G06N 20/00 (2019.01) G06V 30/18 (2022.01) G06V 30/19 (2022.01) G06N 3/02 (2006.01)**
[25] EN
[54] **MULTIPLE INPUT MACHINE LEARNING FRAMEWORK FOR ANOMALY DETECTION**
[54] **CADRE D'APPRENTISSAGE AUTOMATIQUE A ENTREES MULTIPLES POUR LA DETECTION D'ANOMALIE**
[72] FADOUA, KHMAISSIA, US
[72] FEINSTEIN, EFRAIM DAVID, US
[72] DURAIPANDIAN, PREETI, US
[71] INTUIT INC., US
[22] 2022-06-21
[41] 2023-04-29
[30] US (17/515,163) 2021-10-29

[21] **3,166,401**
[13] A1
[51] **Int.Cl. G06Q 30/0241 (2023.01)**
[25] EN
[54] **DISPLAYING ENDORSER'S ADVERTISEMENT(S) WITH ENDORSED ADVERTISEMENT**
[54] **AFFICHAGE DE PUBLICITES DE L'ENDOSSEUR ET PUBLICITES ENDOSSEES**
[72] SAINI, GAGANDEEP SINGH, CA
[71] SAINI, GAGANDEEP SINGH, CA
[22] 2022-06-24
[41] 2023-04-25

[21] **3,168,311**
[13] A1
[51] **Int.Cl. A01D 41/12 (2006.01) A01D 41/06 (2006.01) A01D 47/00 (2006.01) A01D 57/20 (2006.01)**
[25] EN
[54] **HARVESTING MACHINE BELT PICKUP HEADER WITH MOVABLE PICKUP BELT ASSEMBLY**
[54] **TABLIER DE RAMASSAGE A COURROIE DE MACHINE DE RECOLTE ET ASSEMBLAGE DE COURROIE DE RAMASSAGE MOBILE**
[72] JADHAV, SNEHALRAO, IN
[72] POPE, GLENN E., US
[72] RITTER, AARON S., US
[72] BOMLENY, DUANE M., US
[72] YANKE, BRADLEY K., US
[72] PATANKAR, ANIRUDDHA, IN
[71] DEERE & COMPANY, US
[22] 2022-07-15
[41] 2023-04-28
[30] US (17/513,168) 2021-10-28

[21] **3,169,223**
[13] A1
[25] EN
[54] **HIGH VOLTAGE CENTER BREAK DISCONNECT SWITCH WITH TOGGLE DRIVE LOCKING MECHANISM**
[54] **SECTIONNEUR HAUTE TENSION A RUPTURE PAR LE CENTRE ET MECANISME DE VERROUILLAGE D'ENTRAINEMENT BISTABLE**
[72] ROSS, ROBERT, US
[71] CLEAVELAND/PRICE INC., US
[22] 2022-07-28
[41] 2023-04-26
[30] US (17/860,299) 2022-07-08
[30] US (63/271,766) 2021-10-26

[21] **3,169,573**
[13] A1
[51] **Int.Cl. G06N 3/04 (2023.01) G06N 20/00 (2019.01) G06N 3/0442 (2023.01) G06Q 40/02 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SEQUENTIAL DATA PROCESS MODELLING**
[54] **SYSTEME ET METHODE DE MODELISATION DE TRAITEMENT DE DONNEES EN SEQUENCE**
[72] ABDI, AMIR, CA
[72] MENG, LILI, CA
[72] OLIVEIRA, GABRIEL LEIVAS, CA
[72] TUNG, FREDERICK, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-08-05
[41] 2023-04-25
[30] US (63/271,563) 2021-10-25

[21] **3,170,339**
[13] A1
[51] **Int.Cl. B28B 19/00 (2006.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) B33Y 40/20 (2020.01) C04B 35/462 (2006.01) C04B 35/48 (2006.01) C04B 35/495 (2006.01) C04B 35/50 (2006.01) C04B 35/64 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING HIGH-TEMPERATURE-RESISTANT COATINGS AND STRUCTURES**
[54] **METHODE DE PRODUCTION DE REVETEMENTS ET DE STRUCTURES RESISTANTS AUX TEMPERATURES ELEVEES**
[72] TSOTSIS, THOMAS KARL, US
[72] KOTOV, NICHOLAS A., US
[71] THE BOEING COMPANY, US
[22] 2022-08-12
[41] 2023-04-26
[30] US (17/510,497) 2021-10-26

[21] **3,170,487**
[13] A1
[51] **Int.Cl. G06F 8/38 (2018.01) G06F 9/451 (2018.01) G06F 11/36 (2006.01) G06F 3/048 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATIC MODIFICATION OF A USER INTERFACE**
[54] **SYSTEME ET METHODE POUR LA MODIFICATION AUTOMATIQUE D'UNE INTERFACE UTILISATEUR**
[72] AZIMI, EBRAHIM, CA
[72] HARRINGTON, SCOTT, CA
[72] COTTRELL, JASON, CA
[71] MYPLANET INTERNET SOLUTIONS LTD., CA
[22] 2022-08-15
[41] 2023-04-26
[30] US (63/271,908) 2021-10-26

[21] **3,170,937**
[13] A1
[51] **Int.Cl. G06F 16/22 (2019.01) G06F 40/12 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PERSISENT INHERITANCE OF ARBITRARY DOCUMENT CONTENT**
[54] **SYSTEMES ET METHODES POUR L'HERITAGE PERMANENT D'UN CONTENU DE DOCUMENT ARBITRAIRE**
[72] GRUBB, MORGAN, CA
[72] BUCK, JASON, CA
[71] SPECTRUM MOBILE HEALTH INC., CA
[22] 2022-08-12
[41] 2023-04-29
[30] US (63/273663) 2021-10-29

[21] **3,171,591**
[13] A1
[51] **Int.Cl. F04D 29/44 (2006.01) F01D 5/22 (2006.01) F01D 9/04 (2006.01) F01D 25/24 (2006.01)**
[25] EN
[54] **CENTRIFUGAL COMPRESSOR HAVING A BELLMOUTH WITH A STIFFENING MEMBER**
[54] **COMPRESSEUR CENTRIFUGE COMPRENANT UN EVASEMENT DISPOSANT D'UN ELEMENT RAIDISSEUR**
[72] MESCHINO, MATTHEW, CA
[72] URAC, TIBOR, CA
[72] PENDYALA, RAGHAVENDRA, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-26
[41] 2023-04-25
[30] US (17/509,958) 2021-10-25

[21] **3,172,616**
[13] A1
[51] **Int.Cl. F24D 3/10 (2006.01) F16L 55/052 (2006.01) F16L 55/07 (2006.01)**
[25] EN
[54] **HYDRONIC EXPANSION TANK ASSEMBLY**
[54] **ASSEMBLAGE DE RESERVOIR D'EXPANSION HYDRONIQUE**
[72] MASON, CHRISTOPHER W., US
[71] NIBCO INC., US
[22] 2022-09-07
[41] 2023-04-25
[30] US (17/509,344) 2021-10-25
[30] US (17/563,369) 2021-12-28

[21] **3,172,771**
[13] A1
[51] **Int.Cl. G06F 9/48 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **THREAD SCHEDULING**
[54] **PLANIFICATION DE FILS D'EXECUTION**
[72] LAHAV, ELAD, CA
[71] BLACKBERRY LIMITED, CA
[22] 2022-09-07
[41] 2023-04-29
[30] US (17/452,869) 2021-10-29

[21] **3,172,781**
[13] A1
[51] **Int.Cl. G06F 9/48 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **THREAD STATE TRANSITIONS**
[54] **TRANSITIONS D'ETATS DE FILS D'EXECUTION**
[72] LAHAV, ELAD, CA
[71] BLACKBERRY LIMITED, CA
[22] 2022-09-07
[41] 2023-04-29
[30] US (17/452,871) 2021-10-29

[21] **3,172,791**
[13] A1
[51] **Int.Cl. G06F 9/48 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **SCHEDULING OF THREADS FOR CLUSTERS OF PROCESSORS**
[54] **PLANIFICATION DE FILS D'EXECUTION POUR DES GRAPPES DE PROCESSEURS**
[72] LAHAV, ELAD, CA
[71] BLACKBERRY LIMITED, CA
[22] 2022-09-07
[41] 2023-04-29
[30] US (17/452,872) 2021-10-29

[21] **3,172,802**
[13] A1
[51] **Int.Cl. G06F 9/48 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **INTERRUPT HANDLING**
[54] **TRAITEMENT DES INTERRUPTIONS**
[72] LAHAV, ELAD, CA
[71] BLACKBERRY LIMITED, CA
[22] 2022-09-07
[41] 2023-04-29
[30] US (17/452,876) 2021-10-29

[21] **3,173,784**
[13] A1
[51] **Int.Cl. F16C 35/02 (2006.01) B64C 27/605 (2006.01) F16C 7/00 (2006.01) F16C 11/06 (2006.01)**
[25] EN
[54] **BEARING ASSEMBLY**
[54] **ENSEMBLE PALIER**
[72] MAINO, FRANCO, IT
[72] MOLINELLI, DARIO, IT
[72] RESTUCCIA, MICHELE, IT
[71] MICROTECNICA S.R.L., IT
[22] 2022-09-09
[41] 2023-04-27
[30] EP (21205104.9) 2021-10-27

[21] **3,175,240**
[13] A1
[51] **Int.Cl. H04L 67/50 (2022.01) H04W 4/021 (2018.01) H04L 51/52 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR INITIATING A LOCATION-BASED TOPIC**
[54] **METHODE ET SYSTEME POUR CREER UN SUJET FONDE SUR L'EMPLACEMENT**
[72] LI, YU-HSIEN, TW
[72] LI, SHI-TING, TW
[72] CHENG, CHIA-YUAN, TW
[71] FRAMY INC., KY
[22] 2022-09-21
[41] 2023-04-29
[30] TW (110140218) 2021-10-29

[21] **3,175,257**
[13] A1
[51] **Int.Cl. F16L 5/02 (2006.01) F16L 3/22 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR SEPARATING WIRES AND SEALING A CONDUIT**
[54] **DISPOSITIF ET METHODE POUR SEPARER DES FILS ET SCELLER UNE CONDUITE**
[72] TREMELLING, DARREN, US
[72] KADOKO, JONAH, US
[72] ZANT, NIKOLAUS, US
[72] STONER, COREY, US
[71] ABB SCHWEIZ AG, CH
[22] 2022-09-22
[41] 2023-04-28
[30] US (17/513,617) 2021-10-28

[21] **3,175,463**
[13] A1
[51] **Int.Cl. E05D 15/06 (2006.01)**
[25] EN
[54] **DOOR HANGER SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE SUPPORT DE PORTE**
[72] ROCHEFORT, ERIC, US
[71] TRANSPORTATION IP HOLDINGS, LLC, US
[22] 2022-09-15
[41] 2023-04-26
[30] US (63/271,788) 2021-10-26
[30] US (17/892,374) 2022-08-22

[21] **3,175,833**
[13] A1
[25] EN
[54] **DIGITAL COMPUTING DEVICE WITH TRANSPARENT DISPLAY**
[54] **DISPOSITIF INFORMATIQUE NUMERIQUE AVEC ECRAN TRANSPARENT**
[72] KINEW, WABANAKWUT, CA
[71] KINEW, WABANAKWUT, CA
[22] 2021-10-28
[41] 2023-04-28
[62] 3,136,516

[21] **3,177,287**
[13] A1
[51] **Int.Cl. F16N 1/00 (2006.01) F01D 25/18 (2006.01) F02C 7/06 (2006.01) F16C 33/66 (2006.01) F16N 31/00 (2006.01)**
[25] EN
[54] **LUBRICATION SYSTEM OF AIRCRAFT ENGINE**
[54] **SYSTEME DE LUBRIFICATION D'UN MOTEUR D'AERONEF**
[72] PARKMAN, KENNETH, CA
[72] ALECU, DANIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-09-29
[41] 2023-04-26
[30] US (17/510,804) 2021-10-26

[21] **3,177,581**
[13] A1
[51] **Int.Cl. B67D 7/04 (2010.01) B67D 7/78 (2010.01) F17D 1/04 (2006.01)**
[25] EN
[54] **HYDROGEN STORAGE AND DISPENSING APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE DE STOCKAGE ET DE DISTRIBUTION D'HYDROGENE**
[72] KYVELOS, ANTHONY R., US
[72] COHEN, JOSEPH P., US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2022-09-29
[41] 2023-04-29
[30] US (17/514,053) 2021-10-29

[21] **3,177,583**
[13] A1
[51] **Int.Cl. B29C 49/08 (2006.01) B29C 49/42 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING HOLLOW MOLDED ARTICLE AND INJECTION STRETCH BLOW MOLDING MACHINE**
[54] **METHODE DE PRODUCTION D'UN ARTICLE CREUX MOULE ET MACHINE A INJECTION-SOUFFLAGE PAR BIORIENTATION**
[72] HASEGAWA, KAZUHIDE, JP
[71] AOKI TECHNICAL LABORATORY, INC., JP
[22] 2022-09-29
[41] 2023-04-25
[30] JP (2021-170110) 2021-10-18

[21] **3,178,022**
[13] A1
[51] **Int.Cl. B60R 9/045 (2006.01) B60R 9/058 (2006.01)**
[25] EN
[54] **UNIVERSAL EXPANDING ROOF RACK**
[54] **RATELIER DE COUVERTURE EXPANSIBLE UNIVERSEL**
[72] WARECH, CAMERON, US
[71] EXTANG CORPORATION, US
[22] 2022-09-30
[41] 2023-04-28
[30] US (63/272,771) 2021-10-28

[21] **3,178,109**
[13] A1
[51] **Int.Cl. A61F 9/00 (2006.01)**
[25] EN
[54] **EASY EYE DROP PROTECTION DEVICE**
[54] **DISPOSITIF DE PROTECTION FACILE D'APPLICATION DE GOUTTES POUR LES YEUX**
[72] CALLAHAN, EDMUNDS LYLE, CA
[72] CALLAHAN, WILLIAM, CA
[72] CALLAHAN, THOMAS, CA
[71] CALLAHAN, EDMUNDS LYLE, CA
[71] CALLAHAN, WILLIAM, CA
[71] CALLAHAN, THOMAS, CA
[22] 2022-09-19
[41] 2023-04-26

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[21] **3,178,345**
[13] A1
[51] **Int.Cl. E04B 1/00 (2006.01) E04B 2/00 (2006.01) E04B 2/56 (2006.01) E04G 21/00 (2006.01)**
[25] EN
[54] **FRAMES AND DERIVATIVE MODULES BASED ON LIGHT WEIGHT CONSTRUCTION SYSTEM WITH STANDARD AND TRANSITION PANELS**
[54] **CHARPENTES ET MODULES DERIVES FONDES SUR UN SYSTEME DE CONSTRUCTION LEGER AVEC DES PANNEAUX STANDARDS ET DE TRANSITION**
[72] MORROW, BRIAN D., US
[71] BLUE TOMATO, LLC, US
[22] 2022-10-03
[41] 2023-04-28
[30] US (63/273,044) 2021-10-28
[30] US (63/278,040) 2021-11-10
[30] US (63/278,042) 2021-11-10
[30] US (17/706,463) 2022-03-28

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[21] **3,178,533**
[13] A1
[51] **Int.Cl. B65F 1/00 (2006.01) B65D 1/34 (2006.01) F25D 23/12 (2006.01) F25D 25/00 (2006.01)**
[25] EN
[54] **REMOVABLE FOOD WASTE COMPARTMENT FOR REFRIGERATORS AND FREEZERS**
[54] **COMPARTIMENT AMOVIBLE POUR DECHETS ALIMENTAIRES POUR LES REFRIGERATEURS ET LES CONGELATEURS**
[72] PERENYI, PHILLIP, CA
[71] PERENYI, PHILLIP, CA
[22] 2022-10-06
[41] 2023-04-26
[30] US (17510490) 2021-10-26

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[21] **3,178,586**
[13] A1
[51] **Int.Cl. G06Q 10/087 (2023.01)**
[25] EN
[54] **METHOD OF MANAGING INFORMATION FOR THE SUPPLY CHAIN OF A PERISHABLE COMMODITY**
[54] **METHODE DE GESTION DE RENSEIGNEMENTS POUR LA CHAINE D'APPROVISIONNEMENT D'UN BIEN PERISSABLE**
[72] WU, FREDERICK, US
[71] WU, FREDERICK, US
[22] 2022-10-06
[41] 2023-04-29
[30] EP (21205471.2) 2021-10-29

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[21] **3,178,732**
[13] A1
[25] EN
[54] **ELECTRICAL OUTLET BOARD**
[54] **PANNEAU DE PRISE ELECTRIQUE**
[72] RINER, RAYMOND H., US
[72] RUPERT, BRIAN K., US
[71] GROUP DEKKO, INC., US
[22] 2022-10-07
[41] 2023-04-25
[30] US (17/509,660) 2021-10-25

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[21] **3,179,127**
[13] A1
[25] EN
[54] **METHODS AND APPARATUS FOR CALL TRAFFIC ANOMALY MITIGATION**
[54] **METHODES ET APPAREIL POUR L'ATTENUATION DES ANOMALIES DANS LE TRAFIC D'APPELS**
[72] BHARRAT, SHAUN J., US
[72] HUTCHINS, JOHN W., US
[71] RIBBON COMMUNICATIONS OPERATING COMPANY, INC., US
[22] 2022-10-18
[41] 2023-04-26
[30] US (17/510,589) 2021-10-26

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[21] **3,179,215**
[13] A1
[51] **Int.Cl. F16K 3/30 (2006.01) F16K 3/02 (2006.01) F16K 27/04 (2006.01)**
[25] EN
[54] **VALVE ASSEMBLY WITH A REPLACEABLE VALVE INSERT**
[54] **ASSEMBLAGE DE SOUPAPE ET RONDELLE DE SOUPAPE REMPLACABLE**
[72] DANIELS, JARRYD, US
[72] ANDRUS, RUSSELL, US
[71] SPM OIL & GAS INC., US
[22] 2022-10-18
[41] 2023-04-25
[30] US (17/510199) 2021-10-25

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[21] **3,179,249**
[13] A1
[51] **Int.Cl. E02F 3/85 (2006.01)**
[25] EN
[54] **HYDRAULIC SYSTEMS FOR GRADING MACHINES**
[54] **SYSTEMES HYDRAULIQUES POUR TRIEUSES**
[72] STOOPS, ERNEST E., US
[72] HARSHMAN, NATHANIEL K., US
[72] BLOOT, JONATHAN M., US
[71] CATERPILLAR INC., US
[22] 2022-10-18
[41] 2023-04-25
[30] US (17/509978) 2021-10-25

[21] **3,179,346**
[13] A1
[51] **Int.Cl. F21S 4/24 (2016.01) F21V 23/06 (2006.01)**
[25] EN
[54] **TAPE LIGHT TERMINATION SYSTEM**
[54] **SYSTEME DE TERMINAISON DE LUMIERE EN RUBAN**
[72] TRESS, CHRISTOPHER MICHAEL, US
[72] SILVERS, ANDREW LOGAN, US
[71] REV-A-SHELF COMPANY, LLC, US
[22] 2022-10-19
[41] 2023-04-25
[30] US (17/509,920) 2021-10-25

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[21] **3,179,409**
[13] A1
[51] **Int.Cl. B62D 21/18 (2006.01) A63B 55/60 (2015.01) A01D 34/81 (2006.01) E01H 5/08 (2006.01)**
[25] EN
[54] **MULTI-PURPOSE VEHICLE CHASSIS**
[54] **CHASSIS DE VEHICULE POLYVALENT**
[72] PAN, GANG, CA
[72] SAWATZKY, LEROY, CA
[71] NAVITAS VEHICLE SYSTEMS LTD., CA
[22] 2022-10-20
[41] 2023-04-26
[30] US (63/271,974) 2021-10-26

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[21] **3,179,473**
[13] A1
[51] **Int.Cl. A61M 5/36 (2006.01)**
[25] EN
[54] **PRESSURE-ASSISTED AIR ELIMINATION**
[54] **PURGE D'AIR ASSISTEE PAR PRESSION**
[72] POWERS, BENJAMIN G., US
[72] AMBROSINA, JESSE E., US
[72] SCARSELLA, MICHAEL J., US
[72] GONZALEZ, LINO A., US
[71] FRESENIUS KABI USA LLC, US
[22] 2022-10-19
[41] 2023-04-25
[30] US (63/271,318) 2021-10-25

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[21] **3,179,479**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01) E21B 43/26 (2006.01) F04B 19/04 (2006.01) F04B 53/10 (2006.01)**
[25] EN
[54] **LONG SLEEVE CARTRIDGE FOR A FLUID END BLOCK**
[54] **CARTOUCHE A LONG MANCHON POUR UN BLOC D'EXTREMITE FLUIDE**
[72] BELSHAN, DARYL J., US
[72] BARNHOUSE, JAMES, US
[72] BROWN, JACOB, US
[72] KABRICH, TODD R., US
[71] SPM OIL & GAS INC., US
[22] 2022-10-19
[41] 2023-04-26
[30] US (17/511378) 2021-10-26

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[21] **3,179,558**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01)**
[25] EN
[54] **FLUID END OF A HYDRAULIC FLUID PUMP AND METHOD OF ASSEMBLING THE SAME**
[54] **EXTREMITE FLUIDE D'UNE POMPE HYDRAULIQUE ET METHODE D'ASSEMBLAGE**
[72] HUSEMAN, RYAN, US
[72] DEGGINGER, CHRIS, US
[72] CAREY, PAUL DOUGLAS, US
[72] CHADY, KYLE CHRISTOPHER, US
[71] GD ENERGY PRODUCTS, LLC, US
[22] 2022-10-21
[41] 2023-04-29
[30] US (17/513,961) 2021-10-29

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[21] **3,179,587**
[13] A1
[51] **Int.Cl. C10M 173/00 (2006.01)**
[25] EN
[54] **DRY FILM LUBRICANT COMPOSITION**
[54] **COMPOSITION DE LUBRIFIANT EN FEUIL SEC**
[72] COX, STEVE, CA
[72] SURBATOVIC, SVETLANA, CA
[72] PATTERSON, DEAN, CA
[72] DESJARDINS, JILL, CA
[71] DIMACHEM INC., CA
[22] 2022-10-21
[41] 2023-04-27
[30] US (63/272,297) 2021-10-27

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[21] **3,179,605**
[13] A1
[51] **Int.Cl. E04G 21/12 (2006.01) B21F 15/04 (2006.01) B65B 13/02 (2006.01) E04C 5/18 (2006.01)**
[25] EN
[54] **BINDING MACHINE**
[54] **MACHINE A RELIER**
[72] TASHIMA, NOBUTAKA, JP
[72] MIZUKAMI, HIKARU, JP
[71] MAX CO., LTD., JP
[22] 2022-10-14
[41] 2023-04-26
[30] JP (2021-174587) 2021-10-26

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[21] **3,179,614**
[13] A1
[51] **Int.Cl. F16L 58/16 (2006.01) F16L 58/18 (2006.01)**
[25] EN
[54] **SHIELDED CPVC PIPE AND BANDAGE**
[54] **TUYAU EN POLYCHLORURE DE VINYLE CHLORE BLINDE ET BANDAGE**
[72] FORG, CHRISTIAN, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[22] 2022-10-14
[41] 2023-04-28
[30] US (63/272,809) 2021-10-28

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[21] **3,179,652**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR GROUP WATCHING**
[54] **METHODES ET SYSTEMES DE VISIONNEMENT EN GROUPE**
[72] DUTTA, RUPAYAN, IN
[72] PANCHAKSHARAIAH, VISHWAS SHARADANAGAR, IN
[72] GUPTA, VIKRAM MAKAM, IN
[72] AGARWAL, SUKANYA, IN
[71] ROVI GUIDES, INC., US
[22] 2022-10-24
[41] 2023-04-29
[30] US (17/514,022) 2021-10-29

[21] **3,179,667**
[13] A1
[51] **Int.Cl. G06Q 30/0207 (2023.01) G06F 21/31 (2013.01) G06Q 30/0601 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SIMPLIFIED CENTRALIZED REWARD HUB ACCOUNT CREATION**
[54] **SYSTEME ET METHODE POUR UNE CREATION SIMPLIFIEE DE COMPTE DE CARREFOUR DE RECOMPENSES CENTRALISE**
[72] RANKIN, ASHTON LEIGH, CA
[72] PYE, ANDREW JAMES, CA
[72] DO ROSARIO, RAFAEL GOULART, CA
[72] DE OLIVEIRA SILVA ARANTES, LUCAS, CA
[72] ZHANG, ZHENYI, CA
[72] BENTO, JOSE, CA
[72] WINER, DAN, CA
[72] HENNESSY, MATTHEW, CA
[72] AL BURGHLI, BURAA, CA
[72] KAILASAM, SIVAKUMAR, CA
[72] WILLEMSMA, EDGAR ALEXANDER, CA
[72] SCHMITKE, TIMOTHY, CA
[72] ALVARADO MEZA, ELY JOAQUIN, CA
[72] LUTZ, NATHANIEL, CA
[71] SMILE INC., CA
[22] 2022-10-24
[41] 2023-04-25
[30] US (63/271492) 2021-10-25

[21] **3,179,668**
[13] A1
[51] **Int.Cl. G06Q 30/0207 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INTEGRATED CENTRALIZED REWARD HUB POINT APPLICATION**
[54] **SYSTEME ET METHODE POUR UNE APPLICATION INTEGREE DES POINTS D'UN CARREFOUR DE RECOMPENSES CENTRALISE**
[72] RANKIN, ASHTON LEIGH, CA
[72] PYE, ANDREW JAMES, CA
[72] DO ROSARIO, RAFAEL GOULART, CA
[72] DE OLIVEIRA SILVA ARANTES, LUCAS, CA
[72] ZHANG, ZHENYI, CA
[72] BENTO, JOSE, CA
[72] WINER, DAN, CA
[72] HENNESSY, MATTHEW, CA
[72] AL BURGHLI, BURAA, CA
[72] KAILASAM, SIVAKUMAR, CA
[72] WILLEMSMA, EDGAR ALEXANDER, CA
[72] SCHMITKE, TIMOTHY, CA
[72] ALVARADO MEZA, ELY JOAQUIN, CA
[72] LUTZ, NATHANIEL, CA
[71] SMILE INC., CA
[22] 2022-10-24
[41] 2023-04-25
[30] US (63/271517) 2021-10-25

[21] **3,179,672**
[13] A1
[51] **Int.Cl. G06Q 30/0207 (2023.01) G06Q 30/0214 (2023.01) G06Q 30/0601 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMIC MERCHANT AND CENTRALIZED REWARD HUB ACCOUNT CREATION**
[54] **SYSTEME ET METHODE POUR UNE CREATION DE COMPTE DE CARREFOUR DE RECOMPENSES CENTRALISE ET DE LISTES DYNAMIQUES DE MARCHANDS**
[72] RANKIN, ASHTON LEIGH, CA
[72] PYE, ANDREW JAMES, CA
[72] DO ROSARIO, RAFAEL GOULART, CA
[72] DE OLIVEIRA SILVA ARANTES, LUCAS, CA
[72] ZHANG, ZHENYI, CA
[72] BENTO, JOSE, CA
[72] WINER, DAN, CA
[72] AL BURGHLI, BURAA, CA
[72] KAILASAM, SIVAKUMAR, CA
[72] HENNESSY, MATTHEW, CA
[71] SMILE INC., CA
[22] 2022-10-24
[41] 2023-04-25
[30] US (63/271532) 2021-10-25

[21] **3,179,727**
[13] A1
[51] **Int.Cl. E01C 9/10 (2006.01) B07B 1/04 (2006.01) E03F 5/06 (2006.01) F16S 1/00 (2006.01) F16S 1/12 (2006.01)**
[25] EN
[54] **GRATING SEPARATION METHOD AND SYSTEM FOR SEPARATING GRATING**
[54] **METHODE ET SYSTEME DE SEPARATION DE TREILLIS**
[72] JEFFCOAT III, ASA O., US
[72] PATE, JAMES ROYCE, US
[72] WAITS, CURTIS LEE, US
[71] NUCOR CORPORATION, US
[22] 2022-10-25
[41] 2023-04-29
[30] US (17/971,855) 2022-10-24
[30] US (63/273,460) 2021-10-29

[21] **3,179,737**
[13] A1
[51] **Int.Cl. G03B 21/00 (2006.01) B60Q 1/24 (2006.01)**
[25] EN
[54] **LIGHT PROJECTOR AND LIGHT BAR ASSEMBLY**
[54] **ASSEMBLAGE DE PROJECTEUR LUMINEUX ET DE BARRE LUMINEUSE**
[72] MEYERS, SCOTT, US
[72] HOEK, STEVE, US
[71] ITC INC., US
[22] 2022-10-25
[41] 2023-04-25
[30] US (63/271,395) 2021-10-25
[30] US (US 17/972,209) 2022-10-24

[21] **3,179,747**
[13] A1
[51] **Int.Cl. G07F 19/00 (2006.01) G07D 11/24 (2019.01) G07F 9/02 (2006.01)**
[25] EN
[54] **FINANCIAL ARTICLE PROCESSING DEVICES AND METHODS**
[54] **DISPOSITIFS ET METHODES DE TRAITEMENT D'ARTICLE FINANCIER**
[72] WURMFELD, DAVID KELLY, US
[72] KIDD, MICHAEL, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2022-10-25
[41] 2023-04-27
[30] US (17/511,929) 2021-10-27

[21] **3,179,748**
[13] A1
[51] **Int.Cl. G11C 16/06 (2006.01) G06F 21/44 (2013.01) G06F 12/00 (2006.01)**
[25] FR
[54] **PROCESS FOR LOCKING A REWRITABLE NON-LOCKING MEMORY AND ELECTRONIC DEVICE THAT SETS PROCESS IN MOTION**
[54] **PROCED DE VERROUILLAGE D'UNE MEMOIRE NON-VOLATILE REINSCRIPTIBLE ET DISPOSITIF ELECTRONIQUE METTANT EN OEUVRE LEDIT PROCEDE**
[72] DIONISI, FLORENT, FR
[72] LE BIHAN, ERIC, FR
[72] PERRAY, PASCAL, FR
[72] SAGOT, DIDIER, FR
[71] SAGEMCOM BROADBAND SAS, FR
[22] 2022-10-24
[41] 2023-04-26
[30] FR (2111368) 2021-10-26

[21] **3,179,766**
[13] A1
[25] EN
[54] **INNOVATIVE PLANAR ELECTROMAGNETIC COMPONENT STRUCTURE**
[54] **STRUCTURE DE COMPOSANT ELECTROMAGNETIQUE PLAN NOVATEUR**
[72] COLONNA, CEDRIC, FR
[71] 3D PLUS, FR
[22] 2022-10-25
[41] 2023-04-26
[30] FR (2111347) 2021-10-26

[21] **3,179,822**
[13] A1
[51] **Int.Cl. A47C 27/15 (2006.01) A47C 27/05 (2006.01) B68G 5/02 (2006.01)**
[25] EN
[54] **BEDDING COMPONENTS INCLUDING A CONVOLUTED FOAM LAYER**
[54] **COMPOSANTS DE MATELAS COMPRENANT UNE COUCHE DE MOUSSE CIRCONVOLUEE**
[72] MCGUIRE, SHERI L., US
[72] SIEBER, LINDSEY BETH SIDRANE, US
[71] DREAMWELL, LTD., US
[22] 2022-10-25
[41] 2023-04-26
[30] US (17/510,889) 2021-10-26

[21] **3,179,882**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR WEARABLE DEVICE CONTACT FORCE ESTIMATION AND ADJUSTMENT FEEDBACK**
[54] **SYSTEME ET METHODE POUR UNE ESTIMATION DE FORCE DE CONTACT D'UN DISPOSITIF A PORTER ET UNE RETROACTION D'AJUSTEMENT**
[72] COOPERSTOCK, JEREMY, CA
[72] FORTIN, PASCAL E., CA
[72] BLUM, JEFFREY, CA
[72] WEILL-DUFLOS, ANTOINE, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[22] 2022-10-25
[41] 2023-04-25
[30] US (63/271,396) 2021-10-25

[21] **3,179,953**
[13] A1
[51] **Int.Cl. C08L 67/04 (2006.01) C08J 5/06 (2006.01) C08K 7/02 (2006.01) C08K 9/10 (2006.01) C08L 29/04 (2006.01) C08L 67/02 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **BIODEGRADABLE PLASTIC COMPOSITE CONTAINING FIBERS**
[54] **FIBRES CONTENANT UN COMPOSITE PLASTIQUE BIODEGRADABLE**
[72] MOND, ALEX, US
[72] ARRAYALES, BRIAN, US
[71] TERRAMER, INC, US
[22] 2022-10-26
[41] 2023-04-26
[30] US (63/271,978) 2021-10-26
[30] US (17/972,001) 2022-10-24

[21] **3,179,962**
[13] A1
[51] **Int.Cl. A61K 31/714 (2006.01) A61K 31/16 (2006.01) A61P 11/00 (2006.01) A61P 39/04 (2006.01)**
[25] EN
[54] **COMPOSITION FOR UPPER RESPIRATORY TRACT ADMINISTRATION AND METHOD THEREOF**
[54] **COMPOSITION POUR L'ADMINISTRATION DANS LES VOIES RESPIRATOIRES SUPERIEURES ET METHODE CONNEXE**
[72] CHEN, JIA-LONG, TW
[72] LIAO, WEI-CHUAN, TW
[72] SUN, TZU-HUI, TW
[72] CHEN, CHIA-HUNG, TW
[72] WANG, CHAU-HUI, TW
[72] YEN, HSIAO-PAO, TW
[71] ORIGINAL BIOMEDICALS CO.,LTD., TW
[22] 2022-10-26
[41] 2023-04-29
[30] US (63/273,317) 2021-10-29

[21] **3,179,991**
[13] A1
[51] **Int.Cl. B60R 9/06 (2006.01)**
[25] EN
[54] **ADJUSTABLE VEHICLE RACK**
[54] **RATELIER DE VEHICULE AJUSTABLE**
[72] WARECH, CAMERON, US
[71] EXTANG CORPORATION, US
[22] 2022-10-25
[41] 2023-04-29
[30] US (63/273,496) 2021-10-29
[30] US (17/971,003) 2022-10-21

[21] **3,179,995**
[13] A1
[51] **Int.Cl. B65F 1/00 (2006.01) B62D 21/00 (2006.01) B62D 24/00 (2006.01) B65F 1/14 (2006.01)**
[25] EN
[54] **BODY TIE-DOWN**
[54] **SANGLE DE CORPS**
[72] GARY, LOGAN, US
[72] WENTE, DEREK, US
[72] WALLIN, JACOB, US
[72] KAPPERS, JERROD, US
[71] OSHKOSH CORPORATION, US
[22] 2022-10-25
[41] 2023-04-25
[30] US (63/271,442) 2021-10-25
[30] US (17/971,992) 2022-10-24

[21] **3,180,002**
[13] A1
[51] **Int.Cl. F41B 5/12 (2006.01) F41B 5/18 (2006.01)**
[25] EN
[54] **CROSSBOW WITH SPIRAL WOUND CAM SYSTEM**
[54] **ARBALETE COMPRENANT UN SYSTEME DE CAME SPIRALEE**
[72] OBTESHKA, NICHOLAS, US
[72] YEHLE, CRAIG, US
[71] RAVIN CROSSBOWS, LLC, US
[22] 2022-10-25
[41] 2023-04-26
[30] US (63/272,030) 2021-10-26

[21] **3,180,020**
[13] A1
[51] **Int.Cl. E05B 9/00 (2006.01)**
[25] EN
[54] **ADJUSTABLE LATCH SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE VERROU AJUSTABLE**
[72] RITTENHOUSE, TIMOTHY, D., JR., US
[72] SCHACKMAN, TODD, US
[71] THE BOEING COMPANY, US
[22] 2022-10-26
[41] 2023-04-27
[30] US (17/511,698) 2021-10-27

[21] **3,180,024**
[13] A1
[51] **Int.Cl. F15D 1/02 (2006.01) E21B 41/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO REDUCE ACOUSTIC RESONANCE OR DISRUPT STANDING WAVE FORMATION IN A FLUID MANIFOLD OF A HIGH-PRESSURE FRACTURING SYSTEM**
[54] **SYSTEMES ET METHODES POUR REDUIRE LA RESONANCE ACOUSTIQUE OU PERTURBER LA FORMATION D'UNE ONDE STATIONNAIRE DANS UN COLLECTEUR A FLUIDES D'UN SYSTEME DE FRACTURATION HAUTE PRESSION**
[72] YEUNG, TONY, US
[72] TEW, NICHOLAS, US
[72] NIEUWENBURG, WILLIAM, US
[71] BJ ENERGY SOLUTIONS, LLC, US
[22] 2022-10-25
[41] 2023-04-25
[30] US (63/262,993) 2021-10-25
[30] US (17/972,699) 2022-10-25

[21] **3,180,030**
[13] A1
[25] FR
[54] **ROTATING GUIDE SYSTEM FOR A SOLAR TRACKER**
[54] **SYSTEME DE GUIDAGE EN ROTATION D'UN SUIVEUR SOLAIRE**
[72] CHARTIER, EMILIE, FR
[72] AMAR, JEREMY, FR
[72] PRINTEMPS, MORGAN, FR
[72] QUEVILLIER, LUDOVIC, FR
[72] RICHARD, AYMERIC, FR
[72] GILLET, LUCAS, FR
[72] SOULIE, EMILE, FR
[71] NEXANS, FR
[22] 2022-10-26
[41] 2023-04-28
[30] FR (2111493) 2021-10-28

[21] **3,180,043**
[13] A1
[51] **Int.Cl. A61L 9/04 (2006.01)**
[25] EN
[54] **PASSIVE EMISSION FRAGRANCE DIFFUSER FOR PERSONAL USE**
[54] **DIFFUSEUR DE PARFUM A EMISSION PASSIVE POUR UNE UTILISATION PERSONNELLE**
[72] HALLER, CHRISTINA M., US
[72] DURAN, RIO J., US
[72] AHRENHOLTZ, TED E., US
[71] SCENTRAL ZONE, LLC, US
[22] 2022-10-26
[41] 2023-04-29
[30] US (63/273,596) 2021-10-29
[30] US (18/046,722) 2022-10-14

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[21] **3,180,071**
[13] A1
[51] **Int.Cl. B65G 65/46 (2006.01) A01K 5/02 (2006.01) A47F 1/035 (2006.01) A01F 25/20 (2006.01)**
[25] EN
[54] **SELF-SERVE, AUTOMATED FEED DISPENSER**
[54] **DISTRIBUTEUR AUTOMATIQUE D'ALIMENTATION LIBRE-SERVICE**
[72] LEMAY, SCOTT, CA
[72] LANG, RALPH, CA
[71] BB SILO S.E.N.C. BAIT BIN, CA
[22] 2022-10-26
[41] 2023-04-27
[30] US (63/272,296) 2021-10-27

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[21] **3,180,130**
[13] A1
[25] EN
[54] **VARIABLE GAIN MODULATION METHODS AND CONTROLLERS FOR AC-DC CONVERTER WITH POWER FACTOR CORRECTION**
[54] **METHODES DE MODULATION A GAIN VARIABLE ET COMMANDES POUR UN CONVERTISSEUR DE COURANT ALTERNATIF-CONTINU AVEC CORRECTION DU FACTEUR DE PUISSANCE**
[72] LIU, YAN-FEI, CA
[72] HE, BINGHUI, CA
[72] CHEN, YANG, CN
[72] SHENG, BO, CA
[72] LIU, WENBO, CN
[71] LIU, YAN-FEI, CA
[71] HE, BINGHUI, CA
[71] CHEN, YANG, CN
[71] SHENG, BO, CA
[71] LIU, WENBO, CN
[22] 2022-10-26
[41] 2023-04-26
[30] US (63272154) 2021-10-26

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[21] **3,180,136**
[13] A1
[51] **Int.Cl. B62B 1/10 (2006.01) B62B 1/12 (2006.01) B62B 1/14 (2006.01) B62B 11/00 (2006.01) B62K 1/00 (2006.01)**
[25] EN
[54] **MOTORIZED WEIGHT-BEARING DEVICE**
[54] **APPAREIL D'APPUI MOTORISE**
[72] ANDERSON, RYAN C., US
[71] TRIANGLE STRONG PARTNERS, LLC, US
[22] 2022-10-26
[41] 2023-04-26
[30] US (17/510,585) 2021-10-26

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[21] **3,180,238**
[13] A1
[51] **Int.Cl. C10M 163/00 (2006.01) C10M 129/00 (2006.01) C10M 133/00 (2006.01) C10M 137/12 (2006.01) C10M 159/20 (2006.01)**
[25] EN
[54] **METHOD OF LIMITING CHEMICAL DEGRADATION DUE TO NITROGEN DIOXIDE CONTAMINATION**
[54] **METHODE POUR LIMITER LA DETERIORATION CHIMIQUE CAUSEE PAR LA CONTAMINATION PAR LE DIOXYDE D'AZOTE**
[72] IRVING, MATTHEW DAVID, GB
[72] COULTAS, DAVID ROBERT, GB
[72] HOLLINGSWORTH, NATHAN, GB
[72] GREER, ADAM, GB
[72] HARDACRE, CHRISTOPHER, GB
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2022-10-26
[41] 2023-04-29
[30] US (21205667.5) 2021-10-29

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[21] **3,180,242**
[13] A1
[51] **Int.Cl. G06F 30/39 (2020.01) G06F 30/18 (2020.01) G06Q 50/08 (2012.01)**
[25] EN
[54] **A CIRCUIT DESGIN SCHEME GENERATING METHOD, APPARUTUS, COMPUTER DEVICE AND STORAGE MEDIUM**
[54] **METHODE DE GENERATION D'UN SCHEMA DE CONCEPTION DE CIRCUIT, APPAREIL, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] CHEN, JIALE, CN
[72] CAO, JIANCHANG, CN
[72] GU, KAI, CN
[72] TANG, CHAO, CN
[72] FU, ENZHAO, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-10-28
[41] 2023-04-28
[30] CN (202111262120.5) 2021-10-28

[21] **3,180,270**
[13] A1
[51] **Int.Cl. C10M 159/12 (2006.01)**
[25] EN
[54] **IONIC LIQUID COMPOSITION**
[54] **COMPOSITION DE LIQUIDE IONIQUE**
[72] IRVING, MATTHEW DAVID, GB
[72] COULTAS, DAVID ROBERT, GB
[72] HOLLINGSWORTH, NATHAN, GB
[72] GREER, ADAM, GB
[72] HARDACRE, CHRISTOPHER, GB
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2022-10-26
[41] 2023-04-29
[30] EP (21205659.2) 2021-10-29

[21] **3,180,276**
[13] A1
[51] **Int.Cl. C10M 159/12 (2006.01) C10M 129/54 (2006.01) C10M 133/04 (2006.01) C10M 137/12 (2006.01) C10M 133/38 (2006.01) C10M 159/20 (2006.01)**
[25] EN
[54] **METHOD OF LIMITING CHEMICAL DEGRADATION DUE TO NITROGEN DIOXIDE CONTAMINATION**
[54] **METHODE POUR LIMITER LA DETERIORATION CHIMIQUE CAUSEE PAR LA CONTAMINATION PAR LE DIOXYDE D'AZOTE**
[72] IRVING, MATTHEW DAVID, GB
[72] COULTAS, DAVID ROBERT, GB
[72] HOLLINGSWORTH, NATHAN, GB
[72] GREER, ADAM, GB
[72] HARDACRE, CHRISTOPHER, GB
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2022-10-26
[41] 2023-04-29
[30] EP (21205654.3) 2021-10-29

[21] **3,180,299**
[13] A1
[51] **Int.Cl. B65D 47/34 (2006.01)**
[25] EN
[54] **SELF-SEALING PUMP AND METHODS OF MANUFACTURE AND USE THEREOF**
[54] **POMPE AUTO-OBTURANTE ET METHODES DE FABRICATION ET D'UTILISATION**
[72] YANG, YU, CN
[71] SUZHOU GERPMAN INDUSTRIAL CO., LTD., CN
[22] 2022-10-27
[41] 2023-04-27
[30] CN (202122591658.2) 2021-10-27
[30] US (63/388,231) 2022-07-11

[21] **3,180,308**
[13] A1
[51] **Int.Cl. F02C 7/20 (2006.01)**
[25] EN
[54] **CONNECTING ARRANGEMENT BETWEEN COMPONENTS OF AN AIRCRAFT ENGINE**
[54] **AGENCEMENT DE CONNEXION ENTRE LES ELEMENTS D'UN MOTEUR D'AERONEF**
[72] MENHEERE, DAVID, CA
[72] ALECU, DANIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-27
[41] 2023-04-29
[30] US (17/452,917) 2021-10-29

[21] **3,180,309**
[13] A1
[51] **Int.Cl. F01D 5/02 (2006.01) F01D 5/08 (2006.01)**
[25] EN
[54] **VANE ARRAY STRUCTURE FOR A HOT SECTION OF A GAS TURBINE ENGINE**
[54] **STRUCTURE DE RESEAU D'AILETTES POUR UNE PARTIE CHAUDE D'UNE TURBINE A GAZ**
[72] DUROCHER, ERIC, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-27
[41] 2023-04-29
[30] US (17/514,672) 2021-10-29

[21] **3,180,310**
[13] A1
[51] **Int.Cl. F16B 39/10 (2006.01) F16B 43/00 (2006.01)**
[25] EN
[54] **LOCKING TAB-WASHER**
[54] **RONDELLE-LANGUETTE DE BLOCAGE**
[72] PYRA, DAVID, CA
[72] LEFEBVRE, GUY, CA
[72] THERIAULT, GERARD, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-27
[41] 2023-04-29
[30] US (17/452, 883) 2021-10-29

[21] **3,180,311**
[13] A1
[51] **Int.Cl. F01D 25/24 (2006.01)**
[25] EN
[54] **SUPPORT PLATE FOR ENGINE CASING FLANGE**
[54] **PLAQUE-SUPPORT POUR UNE BRIDE DE CARTER MOTEUR**
[72] MASON, BERNADETTE, CA
[72] DOROZHKIN, GENNADII, CA
[72] ALBUS, JESSE, CA
[72] URAC, TIBOR, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-27
[41] 2023-04-29
[30] US (17/452,927) 2021-10-29

[21] **3,180,316**
[13] A1
[25] EN
[54] **CHARGING DEVICE AND CONTROL METHOD THEREFOR**
[54] **DISPOSITIF DE RECHARGE ET METHODE DE COMMANDE CONNEXE**
[72] YANG, DONG, CN
[72] SONG, HENGHUI, CN
[71] NANJING CHERVON INDUSTRY CO., LTD., CN
[22] 2022-10-28
[41] 2023-04-29
[30] CN (202111268864.8) 2021-10-29
[30] US (17/940,048) 2022-09-08

[21] **3,180,342**
[13] A1
[51] **Int.Cl. A61H 33/02 (2006.01) A61H 9/00 (2006.01)**
[25] EN
[54] **BLOWER ASSEMBLY WITH DETACHABLE MOTOR MODULE**
[54] **ASSEMBLAGE DE SOUFFLANTE AVEC MODULE DE MOTEUR DETACHABLE**
[72] CASTELLOTE, MIGUEL, CA
[72] CIECHANOWSKI, DOMINIQUE, CA
[71] CASTELLOTE, MIGUEL, CA
[71] CIECHANOWSKI, DOMINIQUE, CA
[22] 2022-10-28
[41] 2023-04-28
[30] US (63/272,867) 2021-10-28

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[21] **3,180,344**
[13] A1
[51] **Int.Cl. B60P 3/36 (2006.01) B60R 11/00 (2006.01)**
[25] EN
[54] **RECREATIONAL VEHICLE WITH CAMOUFLAGED UTILITY HOOK-UP COMPARTMENT**
[54] **VEHICULE RECREATIF AVEC COMPARTIMENT DE BRANCHEMENT DE SERVICE CAMOUFLE**
[72] GRECH, EDWARD P., US
[71] GRECH, EDWARD P., US
[22] 2022-10-28
[41] 2023-04-29
[30] US (17/515240) 2021-10-29

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[21] **3,180,365**
[13] A1
[25] EN
[54] **HIGH-SPEED NETWORK CONNECTOR WITH INTEGRATED MAGNETICS**
[54] **CONNECTEUR RESEAU HAUTE VITESSE AVEC COMPOSANTS MAGNETIQUES INTEGRES**
[72] ZHAO, LILY LI, CN
[72] TANG, KELVIN KUN, CN
[72] SHIH, SIMON, CN
[72] GREEN, ADRIAN, CA
[71] AMPHENOL CORPORATION, US
[22] 2022-10-28
[41] 2023-04-29
[30] US (17/514,175) 2021-10-29

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[21] **3,180,375**
[13] A1
[51] **Int.Cl. A01K 7/00 (2006.01) A01K 5/015 (2006.01)**
[25] EN
[54] **PET LICK APPARATUS FOR LIQUID CONSUMABLES**
[54] **APPAREIL LECHEMENT ANIMAL POUR DES CONSOMMABLES LIQUIDES**
[72] AHRENHOLTZ, TED E., US
[72] PENNINGTON, MICHELE L., US
[72] BEETSCH, STEPHANIE M., US
[71] SILVER FOX L.L.C., US
[22] 2022-10-31
[41] 2023-04-29
[30] US (63/273,618) 2021-10-29
[30] US (18/048,840) 2022-10-22

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[21] **3,180,402**
[13] A1
[51] **Int.Cl. G06Q 10/20 (2023.01) G06Q 30/016 (2023.01)**
[25] EN
[54] **INFORMATION PROCESSING METHOD AND DEVICE FOR AFTER-SALE SERVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE TRAITEMENT DE RENSEIGNEMENTS POUR LE SERVICE APRES-VENTE, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] SUN, LI, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-10-31
[41] 2023-04-29
[30] CN (202111273477.3) 2021-10-29

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[21] **3,180,433**
[13] A1
[25] EN
[54] **DUAL BAND RADIO FOR RAILWAY COMMUNICATIONS APPLICATIONS**
[54] **RADIO BIBANDE POUR DES APPLICATIONS DE COMMUNICATION SUR CHEMIN DE FER**
[72] NAIDU, ARUN, US
[71] METEORCOMM, LLC, US
[22] 2022-10-28
[41] 2023-04-28
[30] US (63/273,094) 2021-10-28

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[21] **3,180,466**
[13] A1
[25] EN
[54] **FIBER OPTIC CASSETTE WITH CABLE MANAGER AND SYSTEM**
[54] **CASSETTE DE FIBRE OPTIQUE AVEC REPARTITEUR ET SYSTEME DE CABLAGE**
[72] CRAWFORD, DWAYNE, CA
[72] LEVY, MOISE, CA
[72] MILETTE, LUC, CA
[72] ROA-QUISPE, CHRISTIAN, CA
[71] BELDEN CANADA ULC, CA
[22] 2022-10-31
[41] 2023-04-29
[30] US (63/263,314) 2021-10-29

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[21] **3,180,491**
[13] A1
[51] **Int.Cl. G06Q 10/0631 (2023.01) G06Q 10/08 (2023.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **WASHING AND NURSING ORDER PROCESSING METHOD AND SYSTEM, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET SYSTEME DE TRAITEMENT DE COMMANDE DE LAVAGE ET DE SOINS, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] HU, PEILIN, CN
[72] WANG, YING, CN
[72] WEI, XIN, CN
[72] LI, FANDONG, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-10-31
[41] 2023-04-29
[30] CN (202111270865.6) 2021-10-29

[21] **3,180,493**
[13] A1
[51] **Int.Cl. G06F 40/35 (2020.01) G06F 18/213 (2023.01) G06N 3/045 (2023.01) G06N 3/08 (2023.01)**
[25] EN
[54] **TRAINING METHOD AND DEVICE OF INTENTION RECOGNITION MODEL AND INTENTION RECOGNITION METHOD AND DEVICE**
[54] **METHODE D'ENTRAINEMENT, DISPOSITIF DE MODELE DE RECONNAISSANCE D'INTENTION ET METHODE ET DISPOSITIF DE RECONNAISSANCE D'INTENTION**
[72] CHEN, DONG, CN
[72] LU, WEI, CN
[72] GONG, XUEQIAN, CN
[72] ZHAO, YUN, CN
[72] SUN, QIAN, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-10-31
[41] 2023-04-29
[30] CN (202111273471.6) 2021-10-29

[21] **3,180,523**
[13] A1
[51] **Int.Cl. B60R 9/00 (2006.01) B62D 55/08 (2006.01)**
[25] EN
[54] **SUPPORT ELEMENT FOR A VEHICLE ACCESSORY, SUPPORT ELEMENT FOR TRACK SYSTEMS, TRACK SYSTEM HAVING SAME, VEHICLE HAVING SAME, ACCESSORY KIT, METHOD OF MAKING SAME AND ATTACHMENT MECHANISM**
[54] **ELEMENT DE SUPPORT POUR UN ACCESSOIRE DE VEHICULE, ELEMENT DE SUPPORT POUR DES SYSTEMES DE CHENILLES, SYSTEME DE CHENILLE LE COMPRENANT, VEHICULE LE COMPRENANT, KIT D'ACCESSOIRE, METHODE DE FABRICATION ET MECANISME DE FIXATION**
[72] AUBE, NICOLAS, CA
[72] LEBLANC, ETIENNE, CA
[72] ROY, NORMAND, CA
[72] MORIN, VINCENT, CA
[72] NORMAND, MAXIME, CA
[72] JAILLET-GOSSELIN, PHILIPPE, CA
[72] BRUNET, JOHN-MARC, CA
[72] CHAUVIN, CHRISTIAN, CA
[71] SOUCY INTERNATIONAL INC., CA
[22] 2022-10-28
[41] 2023-04-28
[30] US (63/272,706) 2021-10-28

[21] **3,180,576**
[13] A1
[25] EN
[54] **A USER APPLICATION FOR USE IN NOTIFYING THE PUBLIC OF EMERGENCIES**
[54] **APPLICATION UTILISATEUR POUR AVISER LE PUBLIC D'URGENCES**
[72] MACY, MARK, CA
[71] MACY, MARK, CA
[22] 2022-10-28
[41] 2023-04-29
[30] US (63/273,356) 2021-10-29

[21] **3,180,641**
[13] A1
[51] **Int.Cl. F02C 7/24 (2006.01)**
[25] EN
[54] **SELECTIVELY COATED GAS PATH SURFACES WITHIN A HOT SECTION OF A GAS TURBINE ENGINE**
[54] **SURFACES DE VOIE DE GAZ SELECTIVEMENT REVETUES DANS UNE PARTIE CHAUDE D'UNE TURBINE A GAZ**
[72] DUROCHER, ERIC, CA
[72] MACFARLANE, IAN, CA
[72] LEFEBVRE, GUY, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-28
[41] 2023-04-29
[30] US (17/514,602) 2021-10-29

[21] **3,180,653**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATED ACQUISITION AND ANALYSIS OF ELECTROMAGNETIC TESTING DATA**
[54] **SYSTEME ET METHODE D'ACQUISITION ET D'ANALYSE AUTOMATISEES DE DONNEES D'ESSAI ELECTROMAGNETIQUE**
[72] MACKAY, PHILIPPE, CA
[72] GAUDREAULT, VINCENT, CA
[72] HARDY, FLORIAN, CA
[72] SISTO, MARCO MICHELE, CA
[71] EDDYFI CANADA INC., CA
[22] 2022-10-28
[41] 2023-04-29
[30] US (63/263.269) 2021-10-29

[21] **3,180,679**
[13] A1
[51] **Int.Cl. A42B 3/04 (2006.01) A42B 3/18 (2006.01)**
[25] EN
[54] **DEFLECTOR SELECTIVELY CONNECTABLE TO A HELMET, HELMET HAVING SAME AND HELMET HAVING ADJUSTABLE PEAK**
[54] **DEFLECTEUR SELECTIVEMENT RACCORDABLE A UN CASQUE, CASQUE COMPRENANT LE DEFLECTEUR ET CASQUE A PALETTE AJUSTABLE**
[72] ROY, MICHAEL, CA
[72] YAHYAOUI, OUSSAMA, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2022-10-28
[41] 2023-04-29
[30] US (63/273,245) 2021-10-29

[21] **3,180,760**
[13] A1
[51] **Int.Cl. B60R 9/00 (2006.01) B60P 3/36 (2006.01)**
[25] EN
[54] **VEHICLE MOUNTED ACCESSORY**
[54] **ACCESSOIRE MONTE SUR VEHICULE**
[72] NIEMELA, MARCUS, US
[72] JACKSON, MICHAEL R., US
[71] NB4 BRAND L.L.C., US
[22] 2022-10-28
[41] 2023-04-28
[30] US (63/272875) 2021-10-28

[21] **3,180,769**
[13] A1
[51] **Int.Cl. A47G 29/00 (2006.01) A47F 1/06 (2006.01) A47K 10/20 (2006.01) B65D 83/08 (2006.01)**
[25] EN
[54] **TISSUE BOX HOLDER**
[54] **SUPPORT DE BOITE A MOUCHOIRS**
[72] HALVORSEN, DONALD ALFRED, CA
[71] HALVORSEN, DONALD ALFRED, CA
[22] 2022-10-28
[41] 2023-04-28
[30] US (63272692) 2021-10-28

[21] **3,190,947**
[13] A1
[51] **Int.Cl. A01D 34/43 (2006.01) A01D 34/44 (2006.01) A01G 3/00 (2006.01) A01G 23/00 (2006.01)**
[25] EN
[54] **FORESTRY MULCHING ROTARY CUTTING DEVICE WITH TILTING FEATURES**
[54] **DISPOSITIF DE COUPE ROTATIF DE PAILLAGE FORESTIER AVEC CARACTERISTIQUES D'INCLINAISON**
[72] HENRICHON, CHARLES, CA
[72] MINVILLE, ETIENNE, CA
[71] QUADCO INC., CA
[22] 2023-02-23
[41] 2023-04-27
[30] US (63/268.401) 2022-02-23
[30] US (63/486,546) 2023-02-23

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,151,863**
[13] A1
[51] **Int.Cl. C07D 217/04 (2006.01) A61K 31/472 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOUND AS POTASSIUM CHANNEL REGULATOR AND PREPARATION AND USE THEREOF**
[54] **COMPOSE COMME REGULATEUR DE CANAL DE POTASSIUM ET PREPARATION ET UTILISATION CONNEXES**
[72] LIANG, BO, CN
[72] LIU, GANG, CN
[72] CHEN, HUANMING, CN
[71] SHANGHAI ZHIMENG BIOPHARMA, INC., CN
[85] 2022-03-10
[86] 2021-12-20 (PCT/CN2021/139779)
[87] (3151863)
[30] CN (202111251865.1) 2021-10-27

[21] **3,172,474**
[13] A1
[51] **Int.Cl. C07K 7/06 (2006.01) A61K 51/08 (2006.01) A61P 35/00 (2006.01) C07K 1/13 (2006.01) C07K 7/08 (2006.01)**
[25] EN
[54] **[161TB]-BASED RADIOPEPTIDES**
[54]
[72] MULLER, CRISTINA, CH
[72] SCHIBLI, ROGER, CH
[72] VAN DER MEULEN, NICOLAS, CH
[72] BORGNA, FRANCESCA, HR
[72] WILD, DAMIAN, CH
[72] MELPOMENI, FANI, CH
[71] UNIVERSITAT BASEL, CH
[71] PAUL SCHERRER INSTITUT, CH
[85] 2022-09-20
[86] 2021-10-29 (PCT/EP2021/080220)
[87] (3172474)
[30] US (63/250,621) 2021-09-30

[21] **3,178,116**
[13] A1
[51] **Int.Cl. C05F 17/00 (2020.01) C05B 17/00 (2006.01) C05F 11/08 (2006.01) C12N 1/20 (2006.01) C12P 3/00 (2006.01)**
[25] EN
[54] **INDUSTRIAL PROCESS FOR OBTAINING AN AGRICULTURAL COMPOSITION CONSTITUTED BY SOLUBILIZING AND PHOSPHORUS MINERALIZING MICROORGANISMS, AND USE IN THE PRODUCTION AND OPTIMIZATION OF MINERAL, ORGANOMINERAL ANDORGANIC FERTILIZERS**
[54] **PROCEDE INDUSTRIEL POUR OBTENIR UNE COMPOSITION AGRICOLE CONSTITUEE PAR LA SOLUBILISATION ET LA MINERALISATION AU PHOSPHORE DE MICROORGANISMES, ET UTILISATION DANS LA PRODUCTION ET L'OPTIMISATION D'ENGRAIS ANDORGANIQUES ORGANOMINERAUX MINERAUX**
[72] FUKAMI, JOSIANE, BR
[72] GOMES, DOUGLAS FABIANO, BR
[72] GOMES, JULIANA MARCOLINA, BR
[72] DE ASSIS FILHO, JONAS HIPOLITO, BR
[71] BIOTROP SOLUCOES BIOLOGICAS E PARTICIPACOES LTDA., BR
[85] 2022-09-30
[86] 2021-10-26 (PCT/BR2021/050469)
[87] (3178116)

[21] **3,186,669**
[13] A1
[51] **Int.Cl. C04B 26/18 (2006.01) C04B 14/02 (2006.01) C04B 41/70 (2006.01)**
[25] EN
[54] **HALOGEN-FREE MODIFIED HIGH-FILLING RECYCLABLE PLASTIC BOARD AND METHOD OF FORMING THE SAME**
[54] **PANNEAU DE PLASTIQUE RECYCLABLE A HAUTE TENEUR EN AGENT DE REMPLISSAGE MODIFIE SANS HALOGENE ET METHODE DE FORMATION**
[72] DAI, HUIBIN, CN
[72] DONG, LIJIE, CN
[72] LI, XIN, CN
[72] ZHANG, ZHONGFEI, CN
[72] WANG, TAO, CN
[72] LI, MENGFEI, CN
[72] CAO, JIANGCHUAN, CN
[71] ZHEJIANG KINGDOM NEW MATERIAL GROUP CO., LTD., CN
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[87] (3186669)
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[54] **DATA TRANSMISSION METHOD, COMMUNICATION APPARATUS, COMPUTER-READABLE STORAGE MEDIUM, AND CHIP**
[54] **PROCEDE DE TRANSMISSION DE DONNEES, APPAREIL DE COMMUNICATION, SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR ET PUCE**
[72] GAN, MING, CN
[72] HUANG, GUOGANG, CN
[72] LU, YUXIN, CN
[72] LI, YIQING, CN
[72] GUO, YUCHEN, CN
[72] LIU, CHENCHEN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
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[54] **SYSTEMS AND METHODS FOR TRIAGING SOFTWARE VULNERABILITIES**
[54] **SYSTEMES ET PROCEDES DE TRIAGE DE VULNERABILITES DE LOGICIEL**
[72] TARRANT, FINBARR, IE
[72] SRIDHAR, GOPAL KAVANADALA, IE
[72] KIM, JEE HYUB, IE
[72] SHARMA, NAVDEEP, IE
[72] MULROONEY, EANNA, IE
[72] PLOTNIKOV, ANTON, IE
[72] KOHOUT, KAREL, CZ
[72] LACROIX, MARIO LAUANDE, CA
[72] LEVINE, RICHARD, US
[72] OBANDO, JOHNNY, US
[71] ACCENTURE GLOBAL SOLUTIONS LIMITED, GB
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[51] **Int.Cl. E05B 13/10 (2006.01) E05B 15/04 (2006.01) E05B 47/00 (2006.01) E05B 47/06 (2006.01)**
[25] EN
[54] **LOCKING DEVICE**
[54] **DISPOSITIF DE VERROUILLAGE**
[72] BACKHAUS, DIRK, DE
[72] LUTHI, CHRISTIAN, CH
[71] BURG LULING GMBH & CO. KG, DE
[71] USM U. SCHARER SOHNE AG, CH
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[25] EN
[54] **OZONE SCRUBBER AND OZONE SCRUBBING METHOD**
[54] **EPURATEUR D'OZONE ET PROCEDE DE LAVAGE A L'OZONE**
[72] UTTINGER, WALTER, CH
[72] HEINIGER, BRUNO, CH
[72] MURILLO, AMANDA, CH
[72] RAMOINO, LUCA, CH
[71] SUEZ GROUPE, FR
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[54] **CONTAINER STORAGE AND RETRIEVAL SYSTEM**
[54] **SYSTEME DE STOCKAGE ET DE RECUPERATION DE CONTENANTS**
[72] LINDBO, LARS SVERKER TURE, GB
[72] JOHANNISSON, WILHELM KARL, GB
[72] NILSSON, MANS FREDRIK JONATHAN, GB
[71] OCADO INNOVATION LIMITED, GB
[85] 2023-03-22
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[25] EN
[54] **SUCCINATE SALTS OF N-(3-(4-(3-(DIISOBUTYLAMINO)PROPYL)PIPERAZIN-1-YL)PROPYL)-1H-BENZO[D]IMIDAZOL-2-AMINE, PREPARATION THEREOF AND USE OF THE SAME**
[54] **SELS DE SUCCINATE DE N-(3-(4-(3-(DIISOBUTYLAMINO)PROPYL)PIPERAZIN-1-YL)PROPYL)-1H-BENZO[D]IMIDAZOL-2-AMINE, LEUR PREPARATION ET LEUR UTILISATION**
[72] BRANTIS, CYRILLE, FR
[72] BURLET, STEPHANE, FR
[72] LOUGHREY, JONATHAN, GB
[72] CHITRE, SAURABH, GB
[72] PRINGLE, GAVIN, GB
[71] ALZPROTECT, FR
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[54] **DOOR WITH LOCK ACTUATOR FOR INTEGRATION IN AN AIRCRAFT**
[54] **PORTE A ACTIONNEUR DE SERRURE A INTEGRER DANS UN AERONEF**
[72] MULLER, BJORN, DE
[72] ZAGER-RODE, FLORIAN, DE
[72] MULLER, WOLFGANG, DE
[71] DIEHL AVIATION LAUPHEIM GMBH, DE
[71] DIEHL AVIATION GILCHING GMBH, DE
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[25] EN
[54] **ENZYMATIC FEED PRESERVATION**
[54] **CONSERVATION ENZYMATIQUE D'ALIMENTS**
[72] KAYSER, STEFFEN, DK
[72] NYFFENEGGER, CHRISTIAN, DK
[72] COHN, MARIANNE THORUP, DK
[72] BORUP, FLEMMING, DK
[71] NOVOZYMES A/S, DK
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[25] EN
[54] **ENZYMATIC PRESERVATION OF PROBIOTICS IN ANIMAL FEED**
[54] **CONSERVATION ENZYMATIQUE DE PROBIOTIQUES DANS DES ALIMENTS POUR ANIMAUX**
[72] NYFFENEGGER, CHRISTIAN, DK
[72] COHN, MARIANNE THORUP, DK
[71] NOVOZYMES A/S, DK
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[86] 2021-10-07 (PCT/EP2021/077796)
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[54] **PERCUSSION FUSE**
[54] **FUSEE PERCUTANTE**
[72] GLATTHAAR, KARL, DE
[71] JUNGHANS MICROTEC GMBH, DE
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[51] **Int.Cl. A44C 27/00 (2006.01) C22C 5/04 (2006.01)**
[25] EN
[54] **A PLATINUM ALLOY COMPOSITION**
[54] **COMPOSITION D'ALLIAGE DE PLATINE**
[72] TURK, ANDREJ, GB
[72] CLARK, JOHN WILLIAM GORDON, GB
[72] FRATER, GEORGINA CATHERINE, GB
[71] ANGLO PLATINUM MARKETING LIMITED, GB
[85] 2023-03-22
[86] 2021-10-01 (PCT/GB2021/052542)
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[54] **CORONAVIRUS THERAPY**
[54] **THERAPIE ANTI-CORONAVIRUS**
[72] ROGERS, ARPI, GB
[71] ROGERS, ARPI, GB
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[51] **Int.Cl. E21B 33/127 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **A SELECTIVELY ACTIVATABLE DOWNHOLE TOOL**
[54] **OUTIL DE FOND DE TROU POUVANT ETRE ACTIVE SELECTIVEMENT**
[72] MCGARIAN, BRUCE, GB
[71] MCGARIAN, BRUCE, GB
[85] 2023-03-22
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[25] EN
[54] **MEDICAL PUNCTURE DEVICE**
[54] **DISPOSITIF DE PONCTION MEDICALE**
[72] MORIYAMA, EDUARDO, CA
[72] ALLEY, FERRYL, CA
[72] LAU, KAYLIE, CA
[71] BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED, IE
[85] 2023-03-22
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[25] EN
[54] **GLYCOSIDASE INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE GLYCOSIDASE ET LEURS UTILISATIONS**
[72] VOCADLO, DAVID, CA
[72] GARCIA FERNANDEZ, JOSE MANUEL, ES
[72] ORTIZ MELLET, CARMEN, ES
[72] GONZALEZ CUESTA, MANUEL, ES
[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC) - SPANISH NATIONAL RESEARCH COUNCIL (CSIC), ES
[71] SIMON FRASER UNIVERSITY, CA
[71] UNIVERSIDAD DE SEVILLA (US) - UNIVERSITY OF SEVILLE (US), ES
[85] 2023-03-22
[86] 2021-09-24 (PCT/IB2021/058706)
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[51] **Int.Cl. A01J 5/007 (2006.01) A01K 5/02 (2006.01)**
[25] EN
[54] **METHOD AND ROBOT MILKING DEVICE FOR MILKING A DAIRY ANIMAL**
[54] **PROCEDE ET DISPOSITIF DE TRAITE ROBOTISE POUR LA TRAITE D'UN ANIMAL LAITIER**
[72] VAN DER KAMP, ADOLF JAN, NL
[72] KOOL, PIETER NEELUS, NL
[71] LELY PATENT N.V., NL
[85] 2023-03-22
[86] 2021-09-28 (PCT/IB2021/058824)
[87] (WO2022/074508)
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[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING GASTROINTESTINAL DISORDERS**
[54] **SYSTEME ET PROCEDE PERMETTANT DE DETECTER DES TROUBLES GASTRO-INTESTINAUX**
[72] GOLAN, ASAF, IL
[72] RAINIS, DAVID, IL
[72] SCHIFF, ARIEL, IL
[71] JUBAAN LTD, IL
[85] 2023-03-22
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[54] **EXPANDABLE SHEATH WITH RADIOPAQUE FEATURES**
[54] **GAINE EXTENSIBLE A CARACTERISTIQUES RADIO-OPAQUES**
[72] NEUMANN, YAIR A., IL
[72] DAVIDESKO, AMIR, IL
[72] HICKS, KRISTEN, US
[72] SHITRIT, ROY, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2023-03-22
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[25] EN
[54] **APPARATUS AND METHOD OF FLUID POWERED LINEAR ACTUATORS WITH ADJUSTABLE STOPS**
[54] **APPAREIL ET PROCEDE POUR ACTIONNEURS LINEAIRES ENTRAINES PAR FLUIDE DOTES D'ARRETS REGLABLES**
[72] HIGGINS, DANIEL, US
[72] KRANDA, MICHAEL, US
[71] SULLIVAN, HIGGINS, AND BRION POWER PLANT ENGINEERING, LLC, US
[85] 2023-03-22
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[54] **BIODEGRADABLE DELIVERY PARTICLES**
[54] **PARTICULES D'ADMINISTRATION BIODEGRADABLES**
[72] PRIETO, SUSANA FERNANDEZ, BE
[72] EYKENS, VALERIE FRANCINE HANS, BE
[72] DEL PEZZO, RITA, BE
[72] SMETS, JOHAN, BE
[72] LINSHENG, FENG, US
[72] BARDSLEY, TRAVIS IAN, US
[72] CHAKAR, FADI SELIM, US
[72] BOBNOCK, ROBERT STANLEY, US
[71] ENCAPSYS, LLC, US
[85] 2023-03-22
[86] 2021-11-18 (PCT/US2021/059875)
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[25] EN
[54] **BIODEGRADABLE, CONTROLLED RELEASE MICROCAPSULES**
[54] **MICROCAPSULES BIODEGRADABLES A LIBERATION CONTROLEE**
[72] NIANXI, YAN, US
[71] ENCAPSYS, LLC, US
[85] 2023-03-22
[86] 2021-11-18 (PCT/US2021/059932)
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[25] EN
[54] **A CRUCIBLE COUPLER FOR A CARBON AEROSOL GENERATOR**
[54] **COUPLEUR DE CREUSET POUR GENERATEUR D'AEROSOL DE CARBONE**
[72] FARAG, MATHEW, AU
[72] BOGULSKI, ZBIGNIEW, AU
[72] MEDINA, GABINO ISRAEL HUERTA, AU
[71] CYCLOMEDICA AUSTRALIA PTY LIMITED, AU
[85] 2023-03-23
[86] 2021-09-23 (PCT/AU2021/051113)
[87] (WO2022/061409)
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[51] **Int.Cl. G01K 3/00 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MONITORING COOKING AND COOLING CYCLES OF FOOD PRODUCTS**
[54] **PROCEDES ET SYSTEMES DE SURVEILLANCE DE CUISSON ET DE CYCLES DE REFROIDISSEMENT DE PRODUITS ALIMENTAIRES**
[72] WHEAR, BENOIT, CA
[71] EXCELTEC CANADA INC., CA
[85] 2023-03-23
[86] 2021-09-24 (PCT/CA2021/051330)
[87] (WO2022/061464)
[30] US (63/082,811) 2020-09-24

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[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01) C07D 239/94 (2006.01)**
[25] EN
[54] **SALT OF ARYLAMINOQUINAZOLINE-CONTAINING COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **SEL D'UN COMPOSE CONTENANT DE L'ARYLAMINOQUINAZOLINE, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION ASSOCIEE**
[72] ZHOU, FUGANG, CN
[72] HE, YUXIA, CN
[72] ZHANG, YAN, CN
[72] LYU, JIAN, CN
[72] SHI, KAI, CN
[72] DI, HUIFENG, CN
[72] YANG, XINXIN, CN
[72] SUN, JING, CN
[71] CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD, CN
[85] 2023-03-23
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[25] EN
[54] **BCG VACCINATIONS FOR PREVENTION OF COVID-19 AND OTHER INFECTIOUS DISEASES**
[54] **VACCINATIONS CONTRE LE BCG POUR LA PREVENTION DE LA COVID-19 ET D'AUTRES MALADIES INFECTIEUSES**
[72] FAUSTMAN, DENISE L., US
[71] THE GENERAL HOSPITAL CORPORATION, US
[85] 2023-03-23
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[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR AN IMPLANTABLE HEART-VALVE ADAPTER**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR UN ADAPTATEUR DE VALVE CARDIAQUE IMPLANTABLE**
[72] SANDS, JULIE LOGAN, US
[72] PERRY, KENNETH EUGENE, US
[72] ZADOR, ANTHONY ZOLTAN, US
[71] REVALVE SOLUTIONS INC., US
[85] 2023-03-23
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[25] EN
[54] **ZINC FINGER FUSION PROTEINS FOR NUCLEOBASE EDITING**
[54] **PROTEINES DE FUSION A DOIGT DE ZINC POUR L'EDITION DES NUCLEOBASES**
[72] FAUSER, FRIEDRICH A., US
[72] MILLER, JEFFREY C., US
[72] ARANGUNDY, SEBASTIAN, US
[71] SANGAMO THERAPEUTICS, INC., US
[85] 2023-03-23
[86] 2021-09-24 (PCT/US2021/052088)
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[30] US (63/083,662) 2020-09-25
[30] US (63/164,893) 2021-03-23
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[54] **OLIGOSACCHARIDE COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS D'OLIGOSACCHARIDES ET PROCEDES D'UTILISATION**
[72] MEISNER, JEFFREY, US
[72] LIU, CHRISTOPHER MATTHEW, US
[72] ROSINI, MADELINE, US
[72] HECHT, MAX, US
[72] HUMPHRIES, ERIC, US
[72] JOSE, ADARSH, US
[72] VAN HYLCKAMA VLIEG, JOHAN, US
[72] DOWLING, MARK, US
[72] WINGERTZAHN, MARK, US
[72] LEE, JACKSON, US
[71] DSM NUTRITIONAL PRODUCTS, LLC, US
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[86] 2021-09-24 (PCT/US2021/052098)
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[30] US (63/083,796) 2020-09-25

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[51] **Int.Cl. C12N 15/54 (2006.01) C12N 9/12 (2006.01) C12N 15/63 (2006.01) C12P 13/02 (2006.01) C12P 13/04 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **ENGINEERED PANTOTHENATE KINASE VARIANT ENZYMES**
[54] **ENZYMES VARIANTES DE PANTOTHENATE KINASE MODIFIEES**
[72] NAZOR, JOVANA, US
[72] KRAWCZYK, MIKAYLA JIANGHONGXIA, US
[72] SEIBEL, ZARA MAXINE, US
[72] SUBRAMANIAN, NANDHITHA, GB
[72] KOLEV, JOSHUA, US
[71] CODEXIS, INC., US
[85] 2023-03-23
[86] 2021-09-29 (PCT/US2021/052644)
[87] (WO2022/072490)
[30] US (63/086,688) 2020-10-02

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[51] **Int.Cl. H01H 31/00 (2006.01) H01H 15/00 (2006.01) H01H 15/06 (2006.01) H01R 4/66 (2006.01)**
[25] EN
[54] **ISOLATING GROUND SWITCH**
[54] **SECTIONNEUR DE MISE A LA TERRE**
[72] SKOLOZDRA, STEPHEN ANDREW, US
[72] CARROZZO, JOHN KENNETH, JR., US
[71] HUBBELL INCORPORATED, US
[85] 2023-03-23
[86] 2021-09-30 (PCT/US2021/052960)
[87] (WO2022/072692)
[30] US (63/085,634) 2020-09-30

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[51] **Int.Cl. H05B 1/02 (2006.01) H05B 3/00 (2006.01) H05B 3/14 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PROLONGING SERVICE LIFE OF CERAMIC ELECTRIC HEATING ELEMENT UNDER DIRECT-CURRENT POWER SUPPLY CONDITION**
[54] **PROCEDE ET APPAREIL POUR PROLONGER LA DUREE DE VIE D'UN CORPS DE CHAUFFAGE ELECTRIQUE EN CERAMIQUE DANS UN ETAT D'ALIMENTATION EN COURANT CONTINU**
[72] WU, HON KIN ANDES, CN
[71] WU, HON KIN ANDES, CN
[85] 2023-03-23
[86] 2022-01-25 (PCT/CN2022/073605)
[87] (WO2022/242222)
[30] CN (202110555369.9) 2021-05-21

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[13] A1
[51] **Int.Cl. A61K 6/62 (2020.01) A61K 6/887 (2020.01)**
[25] EN
[54] **DENTAL COMPOSITION**
[54] **COMPOSITION DENTAIRE**
[72] LALEVEE, JACQUES, DE
[72] ABDALLAH, MIRA, DE
[72] TIGGES, THOMAS, DE
[72] NEUHAUS, KIRA, DE
[72] RENN, CAROLINE, DE
[72] HUAIBING, LIU, DE
[71] DENTSPLY SIRONA INC., US
[71] DENTSPLY DETREY GMBH, DE
[85] 2023-03-23
[86] 2021-09-23 (PCT/EP2021/076226)
[87] (WO2022/063911)
[30] EP (20198217.0) 2020-09-24

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01)**
[25] EN
[54] **PROCESS FOR RACEMIZING AND ISOLATING ATROPISOMERS OF 7-CHLORO-6-FLUORO-1-(2-ISOPROPYL-4-METHYLPYRIDIN-3-YL)PYRIDO[2,3-D]PYRIMIDINE-2,4(1H,3H)-DIONE**
[54] **PROCEDE DE RACEMISATION ET D'ISOLEMENT D'ATROPISOMERES DE 7-CHLORO-6-FLUORO-1-(2-ISOPROPYL-4-METHYLPYRIDIN-3-YL)PYRIDO[2,3-D]PYRIMIDINE-2,4(1H,3H)-DIONE**
[72] BEAVER, MATTHEW G., US
[72] CORBETT, MICHAEL T., US
[72] FANG, YUANQING, US
[72] FORD, DAVID D., US
[72] PARSONS, ANDREW T., US
[72] ST-PIERRE, GABRIELLE, US
[72] TELMESANI, REEM, US
[71] AMGEN INC., US
[85] 2023-03-23
[86] 2021-10-06 (PCT/US2021/053859)
[87] (WO2022/076623)
[30] US (63/088,848) 2020-10-07
[30] US (63/162,278) 2021-03-17

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[51] **Int.Cl. A01N 1/00 (2006.01) A01N 1/02 (2006.01) A01N 3/00 (2006.01) A01N 3/02 (2006.01) A01N 29/02 (2006.01) A01N 31/02 (2006.01) A01N 31/06 (2006.01) A01N 33/04 (2006.01) A01N 33/18 (2006.01) A01N 43/50 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PRESERVATION AND FIXATION**
[54] **COMPOSITIONS ET PROCEDES DE CONSERVATION ET DE FIXATION**
[72] KENNEDY, LARRY DEAN, US
[72] FIELDS, DANNY R., US
[71] GREEN SOLUTIONS GROUP, LLC, US
[85] 2023-03-23
[86] 2021-11-04 (PCT/US2021/058035)
[87] (WO2022/098857)
[30] US (63/110,607) 2020-11-06

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[51] **Int.Cl. G09F 3/10 (2006.01) G09F 3/02 (2006.01)**
[25] EN
[54] **CODE-SHIELD LABEL**
[54] **ETIQUETTE DE PROTECTION DE CODE**
[72] MILLER, TOM, US
[71] PLATINUM PRESS, INC., US
[85] 2023-03-23
[86] 2021-11-12 (PCT/US2021/059214)
[87] (WO2022/104119)
[30] US (17/098,047) 2020-11-13

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[13] A1
[51] **Int.Cl. C09K 5/04 (2006.01)**
[25] EN
[54] **REFRIGERANT COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS DE FLUIDES FRIGORIGENES ET LEURS UTILISATIONS**
[72] HUGHES, JOSHUA, US
[71] THE CHEMOURS COMPANY FC, LLC, US
[85] 2023-03-23
[86] 2021-11-19 (PCT/US2021/060008)
[87] (WO2022/109217)
[30] US (63/116,210) 2020-11-20

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[51] **Int.Cl. C07D 239/94 (2006.01) A61K 31/517 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **5- AND 6-AZAINDOLE COMPOUNDS FOR INHIBITION OF BCR-ABL TYROSINE KINASES**
[54] **COMPOSES DE 5- ET 6-AZAINDOLE POUR L'INHIBITION DE TYROSINE KINASES BCR-ABL**
[72] LYSSIKATOS, JOSEPH P., US
[72] KINTZ, SAMUEL, US
[72] REN, LI, US
[71] ENLIVEN THERAPEUTICS, INC., US
[85] 2023-03-23
[86] 2021-10-04 (PCT/US2021/071695)
[87] (WO2022/076975)
[30] US (63/087,763) 2020-10-05
[30] US (63/224,236) 2021-07-21

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[51] **Int.Cl. C10G 1/00 (2006.01) C10G 1/02 (2006.01) C10G 1/10 (2006.01) C10G 21/12 (2006.01) C10G 21/28 (2006.01) C10G 53/06 (2006.01) C10G 55/04 (2006.01)**
[25] EN
[54] **RECOVERY OF ALIPHATIC HYDROCARBONS**
[54] **RECUPERATION D'HYDROCARBURES ALIPHATIQUES**
[72] FISCHER, KAI JURGEN, NL
[72] LANGE, JEAN-PAUL ANDRE MARIE JOSEPH GHISLAIN, NL
[72] SIPMA, SYBE, NL
[72] GRAU LISNIER, LUIS ALBERTO, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2023-03-23
[86] 2021-10-12 (PCT/EP2021/078153)
[87] (WO2022/079012)
[30] EP (20202226.5) 2020-10-16

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[13] A1
[51] **Int.Cl. C10G 1/00 (2006.01) C10G 1/02 (2006.01) C10G 1/10 (2006.01) C10G 21/28 (2006.01) C10G 53/06 (2006.01) C10G 55/04 (2006.01)**
[25] EN
[54] **RECOVERY OF ALIPHATIC HYDROCARBONS**
[54] **RECUPERATION D'HYDROCARBURES ALIPHATIQUES**
[72] LANGE, JEAN-PAUL ANDRE MARIE JOSEPH GHISLAIN, NL
[72] FISCHER, KAI JURGEN, NL
[72] VAN ROSSUM, GUUS, NL
[72] OLTHOF, TIMOTHE JOHANNES, NL
[72] SIPMA, SYBE, NL
[72] GRAU LISNIER, LUIS ALBERTO, NL
[72] STICHTER, HENDRIK, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2023-03-23
[86] 2021-10-12 (PCT/EP2021/078172)
[87] (WO2022/079025)
[30] EP (20202268.7) 2020-10-16

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[51] **Int.Cl. C10G 1/10 (2006.01) C10G 21/06 (2006.01) C10G 21/28 (2006.01) C10G 53/04 (2006.01)**
[25] EN
[54] **RECOVERY OF ALIPHATIC HYDROCARBONS**
[54] **RECUPERATION D'HYDROCARBURES ALIPHATIQUES**
[72] LANGE, JEAN-PAUL ANDRE MARIE JOSEPH GHISLAIN, NL
[72] FISCHER, KAI JURGEN, NL
[72] VAN ROSSUM, GUUS, NL
[72] OLTHOF, TIMOTHE JOHANNES, NL
[72] SIPMA, SYBE, NL
[72] GRAU LISNIER, LUIS ALBERTO, NL
[72] STICHTER, HENDRIK, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2023-03-23
[86] 2021-10-12 (PCT/EP2021/078221)
[87] (WO2022/079053)
[30] EP (20202249.7) 2020-10-16
[30] EP (20207493.6) 2020-11-13

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[13] A1
[51] **Int.Cl. B65D 17/28 (2006.01) B65D 17/50 (2006.01)**
[25] EN
[54] **CAN LID AND METHOD OF MANUFACTURING A CAN LID**
[54] **COUVERCLE DE BOITE ET PROCEDE DE PRODUCTION D'UN COUVERCLE DE BOITE**
[72] PIECH, GREGOR ANTON, AT
[71] TOP CAP HOLDING GMBH, AT
[85] 2023-03-23
[86] 2021-10-27 (PCT/EP2021/079824)
[87] (WO2022/090310)
[30] DE (10 2020 128 491.8) 2020-10-29

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[13] A1
[51] **Int.Cl. B01D 25/21 (2006.01) B01D 25/127 (2006.01) B01D 25/164 (2006.01)**
[25] EN
[54] **A FILTER PLATE SUBFRAME**
[54] **SOUS-TRAME DE PLAQUE FILTRANTE**
[72] MUSTAKANGAS, MIRVA, FI
[72] JUVONEN, ISMO, FI
[72] KAIPAINEN, JANNE, FI
[72] ELORANTA, TEEMU, FI
[72] ILLI, MIKA, FI
[72] VANTTINEN, KARI, FI
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2023-03-23
[86] 2020-11-06 (PCT/FI2020/050737)
[87] (WO2022/096771)

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[13] A1
[51] **Int.Cl. G06N 10/40 (2022.01) H01P 7/08 (2006.01)**
[25] EN
[54] **TUNABLE COUPLER WITH COUPLING EXTENSION**
[54] **COUPLEUR ACCORDABLE AVEC EXTENSION DE COUPLAGE**
[72] HEINSOO, JOHANNES, FI
[72] OCKELOEN-KORPPI, CASPAR, FI
[71] IQM FINLAND OY, FI
[85] 2023-03-23
[86] 2021-10-26 (PCT/FI2021/050718)
[87] (WO2022/090621)
[30] EP (20204967.2) 2020-10-30

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[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01)**
[25] EN
[54] **FUNCTIONAL NUCLEIC ACID MOLECULES**
[54] **MOLECULES D'ACIDE NUCLEIQUE FONCTIONNELLES**
[72] GUSTINCICH, STEFANO, IT
[72] PIERATTINI, BIANCA, IT
[72] BON, CARLOTTA, GB
[72] GRASSO, LAURA, GB
[72] WATSON, MARC, GB
[71] SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI, IT
[71] TRANSINE THERAPEUTICS LIMITED, GB
[85] 2023-03-23
[86] 2021-10-08 (PCT/GB2021/052607)
[87] (WO2022/074396)
[30] GB (2015997.6) 2020-10-08
[30] GB (2019325.6) 2020-12-08

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[13] A1
[51] **Int.Cl. C12M 3/00 (2006.01) C12M 1/00 (2006.01) C12M 1/34 (2006.01)**
[25] EN
[54] **A CELL CULTURE SYSTEM CONTROLLER**
[54] **DISPOSITIF DE COMMANDE DE SYSTEME DE CULTURE CELLULAIRE**
[72] SMART, JOANNA, GB
[72] CEFAI, JOSEPH, GB
[71] VERSO BIOSENSE GROUP LIMITED, GB
[85] 2023-03-23
[86] 2021-12-02 (PCT/GB2021/053147)
[87] (WO2022/123220)
[30] GB (2019628.3) 2020-12-11

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[13] A1
[51] **Int.Cl. C08J 9/00 (2006.01) C08J 9/04 (2006.01)**
[25] EN
[54] **ULTRASOFT EVA FOAM FORMULATION AND METHODS THEREOF**
[54] **FORMULATION DE MOUSSE A BASE D'EVA ULTRA-SOUPLE ET PROCEDES ASSOCIES**
[72] DELEVATI, GIANCARLOS, BR
[72] PASSOS, ROBISON, BR
[71] BRASKEM S.A., BR
[85] 2023-03-23
[86] 2021-10-01 (PCT/IB2021/022221)
[87] (WO2022/069949)
[30] US (63/087,036) 2020-10-02
[30] US (63/087,027) 2020-10-02

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[13] A1
[51] **Int.Cl. B33Y 80/00 (2015.01) G06F 30/23 (2020.01) B22F 10/00 (2021.01) B22D 17/22 (2006.01) B22F 5/00 (2006.01) B29C 33/38 (2006.01) B29C 45/26 (2006.01) B29C 45/73 (2006.01) B29C 33/04 (2006.01)**
[25] EN
[54] **A MOULD FOR INJECTION MOULDING MADE BY ADDITIVE MANUFACTURING**
[54] **MOULE PERMETTANT LE MOULAGE PAR INJECTION FABRIQUE PAR FABRICATION ADDITIVE**
[72] ELDAGANI, AHMED HOSSAMALDIN SALAH HAMED, IT
[71] QTOOL S.R.L., IT
[85] 2023-03-23
[86] 2021-09-22 (PCT/IB2021/058630)
[87] (WO2022/064377)
[30] IT (102020000022399) 2020-09-23

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[13] A1
[51] **Int.Cl. B62K 11/10 (2006.01) B60G 3/00 (2006.01) B62K 25/16 (2006.01)**
[25] EN
[54] **AN OSCILLATING ARM FRONT SUSPENSION FOR SADDLE RIDING VEHICLES**
[54] **SUSPENSION AVANT DE BRAS OSCILLANT POUR VEHICULES A SELLE**
[72] RAFFAELLI, ANDREA, IT
[72] MARIOTTI, VALENTINO, IT
[72] SANTUCCI, MARIO DONATO, IT
[71] PIAGGIO & C. SPA, IT
[85] 2023-03-23
[86] 2021-10-25 (PCT/IB2021/059826)
[87] (WO2022/130051)
[30] IT (102020000031181) 2020-12-17

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[13] A1
[51] **Int.Cl. C23C 2/06 (2006.01) C23C 2/20 (2006.01)**
[25] EN
[54] **A METHOD FOR MANUFACTURING A STEEL SHEET WITH A ZNALMG COATING, CORRESPONDING COATED STEEL SHEET, PART AND VEHICLE**
[54] **PROCEDE DE FABRICATION D'UNE TOLE D'ACIER A REVETEMENT ZNALMG, TOLE D'ACIER REVETUE CORRESPONDANTE, ELEMENT ET VEHICULE**
[72] JACQUESON, ERIC, FR
[72] MATAIGNE, JEAN-MICHEL, FR
[72] AGRIZZI RONQUETI, LARISSA, FR
[72] KIEFFER, MARINE, FR
[71] ARCELORMITTAL, LU
[85] 2023-03-23
[86] 2021-11-15 (PCT/IB2021/060553)
[87] (WO2022/101872)
[30] IB (PCT/IB2020/060737) 2020-11-16

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[13] A1
[51] **Int.Cl. A61K 31/428 (2006.01) A61K 45/00 (2006.01) A61P 25/04 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **ALPHA-2 ADRENERGIC RECEPTOR ANTAGONIST**
[54] **ANTAGONISTE DU RECEPTEUR ALPHA-2 ADRENERGIQUE**
[72] HAGIWARA, MASATOSHI, JP
[72] TOYOMOTO, MASAYASU, JP
[71] KYOTO UNIVERSITY, JP
[85] 2023-03-23
[86] 2021-09-22 (PCT/JP2021/034765)
[87] (WO2022/065354)
[30] JP (2020-158954) 2020-09-23

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[13] A1
[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/4184 (2006.01)**
[25] EN
[54] **STABLE SALT AND CRYSTAL FORMS OF 2-[3-({1-[2-(DIMETHYLAMINO)ETHYL]-2-(2,2-DIMETHYLPROPYL)-1H-1,3-BENZODIAZOL-5-YL}SULFONYL)AZETIDIN-1-YL]ETHAN-1-OL**
[54] **SEL ET FORMES CRISTALLINES STABLES DU 2-[3-({1-[2-(DIMETHYLAMINO)ETHYL]-2-(2,2-DIMETHYLPROPYL)-1H-1,3-BENZODIAZOL-5-YL}SULFONYL)AZETIDIN-1-YL]ETHAN-1-OL**
[72] INAMI, YUKARI, JP
[72] OKUMURA, YOSHIYUKI, JP
[72] WALKER, TRACY, GB
[71] ASKAT INC., JP
[85] 2023-03-23
[86] 2021-11-11 (PCT/JP2021/041552)
[87] (WO2022/102713)
[30] US (63/112,893) 2020-11-12

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/026 (2006.01) G02B 27/48 (2006.01)**
[25] EN
[54] **METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR CALCULATING METAKG SIGNALS FOR REGIONS HAVING MULTIPLE SETS OF OPTICAL CHARACTERISTICS**
[54] **PROCEDES, SYSTEMES ET PRODUITS-PROGRAMMES INFORMATIQUES POUR CALCULER DES SIGNAUX METAKG POUR DES REGIONS AYANT DE MULTIPLES ENSEMBLES DE CARACTERISTIQUES OPTIQUES**
[72] FERGUSON, THOMAS BRUCE JR., US
[72] KIM, SUNGHAN, US
[72] HEMPSTEAD, WILLIAM, US
[72] CHEN, CHENG, US
[71] EAST CAROLINA UNIVERSITY, US
[85] 2023-03-23
[86] 2021-09-09 (PCT/US2021/049608)
[87] (WO2022/076122)
[30] US (17/062,989) 2020-10-05

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[13] A1
[51] **Int.Cl. E21B 47/12 (2012.01) G01V 3/30 (2006.01) G01V 3/38 (2006.01)**
[25] EN
[54] **DETERMINATION OF BOREHOLE CHARACTERISTICS USING ORIENTATION COMPONENTS OF AZIMUTHAL ELECTROMAGNETIC SIGNALS**
[54] **DETERMINATION DE CARACTERISTIQUES DE TROU DE FORAGE A L'AIDE DE COMPOSANTES D'ORIENTATION DE SIGNAUX ELECTROMAGNETIQUES AZIMUTAUX**
[72] PAN, LI, SG
[72] WU, HSU-HSIANG, US
[72] FAN, YIJING, SG
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-03-23
[86] 2021-09-16 (PCT/US2021/050675)
[87] (WO2022/098436)
[30] US (17/089,340) 2020-11-04

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[13] A1
[51] **Int.Cl. G06F 16/332 (2019.01) G06N 20/20 (2019.01) G06F 40/35 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GENERATING DYNAMIC CONVERSATIONAL RESPONSES THROUGH AGGREGATED OUTPUTS OF MACHINE LEARNING MODELS**
[54] **SYSTEMES ET PROCEDES POUR GENERER DES REPONSES CONVERSATIONNELLES DYNAMIQUES PAR L'INTERMEDIAIRE DE SORTIES AGREGEES DE MODELES D'APPRENTISSAGE MACHINE**
[72] LE, MINH, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2023-03-23
[86] 2021-09-22 (PCT/US2021/051438)
[87] (WO2022/066695)
[30] US (17/029,997) 2020-09-23
[30] US (17/030,059) 2020-09-23

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[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **PYRROLO[3,2-C]PYRIDIN-4-ONE DERIVATIVES USEFUL IN THE TREATMENT OF CANCER**
[54] **DERIVES DE PYRROLO[3,2-C]PYRIDIN-4-ONE UTILES DANS LE TRAITEMENT DU CANCER**
[72] MILGRAM, BENJAMIN C., US
[72] WHITE, RYAN D., US
[72] ST. JEAN, JR., DAVID, US
[72] GUZMAN-PEREZ, ANGEL, US
[71] SCORPION THERAPEUTICS, INC., US
[85] 2023-03-23
[86] 2021-09-22 (PCT/US2021/051504)
[87] (WO2022/066734)
[30] US (63/082,324) 2020-09-23
[30] US (63/092,970) 2020-10-16

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[13] A1
[51] **Int.Cl. G05B 13/02 (2006.01) G05B 13/04 (2006.01) G05B 19/02 (2006.01) G06T 1/00 (2006.01) G06T 5/50 (2006.01) G06T 7/60 (2017.01)**
[25] EN
[54] **CRITICAL COMPONENT DETECTION USING DEEP LEARNING AND ATTENTION**
[54] **DETECTION DE COMPOSANT CRITIQUE A L'AIDE D'UN APPRENTISSAGE PROFOND ET D'UNE PROFONDE ATTENTION**
[72] IANNI, JULIANNA, US
[72] SOANS, RAJATH ELIAS, US
[72] AYYAGARI, KAMESWARI DEVI, US
[72] KOHN, SAUL, US
[71] PROSCIA INC., US
[85] 2023-03-23
[86] 2021-09-22 (PCT/US2021/051506)
[87] (WO2022/066736)
[30] US (63/082,125) 2020-09-23

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[13] A1
[51] **Int.Cl. C12N 15/53 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 9/02 (2006.01) C12N 9/04 (2006.01)**
[25] EN
[54] **ENGINEERED GALACTOSE OXIDASE VARIANT ENZYMES**
[54] **ENZYMES VARIANTES DE GALACTOSE OXYDASE MODIFIEES**
[72] BORRA-GARSKE, MARGIE TABUGA, US
[72] NAZOR, JOVANA, US
[72] SUBRAMANIAN, NANDHITHA, GB
[72] ALVIZO, OSCAR, US
[72] FRYSZKOWSKA, ANNA, US
[71] CODEXIS, INC., US
[85] 2023-03-23
[86] 2021-10-01 (PCT/US2021/053183)
[87] (WO2022/076263)
[30] US (63/087,971) 2020-10-06

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[54] **ENGINEERED PHOSPHOPENTOMUTASE VARIANT ENZYMES**
[54] **VARIANTS ENZYMATIQUES PHOSPHOPENTOMUTASES MODIFIES**
[72] VROOM, JONATHAN, US
[72] SIVARAMAKRISHNAN, SANTHOSH, US
[72] HURTAK, JESSICA ANNA, US
[71] CODEXIS, INC., US
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[54] **SAFETY SYSTEM FOR PUBLIC TRANSIT**
[54] **SYSTEME DE SECURITE POUR TRANSPORTS EN COMMUN**
[72] LINDMAN, PAUL ARTHUR, US
[72] DE LA TORRE, IVAN, US
[72] OREJEL, VICTOR MANUEL, US
[72] ESTRADA, ARTURO, US
[71] CITY OF TORRANCE, US
[71] LINDMAN, PAUL ARTHUR, US
[71] DE LA TORRE, IVAN, US
[71] OREJEL, VICTOR MANUEL, US
[71] ESTRADA, ARTURO, US
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[54] **INDEPENDENT CONTROL OF THE MAGNITUDE AND PHASE OF A REFLECTED ELECTROMAGNETIC WAVE THROUGH COUPLED RESONATORS**
[54] **COMMANDE INDEPENDANTE DE L'AMPLITUDE ET DE LA PHASE D'UNE ONDE ELECTROMAGNETIQUE REFLECHIE PAR L'INTERMEDIAIRE DE RESONATEURS COUPLES**
[72] GUPTA, SHULABH, CA
[72] ASHOOR, AHMED ZAKI, CA
[72] RUFAIL, LEANDRO MIGUEL, CA
[71] CARLETON UNIVERSITY, CA
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[25] EN
[54] **SURFACE-MOUNTABLE RETRACTABLE TRAILER STAND ASSEMBLY**
[54] **ENSEMBLE SUPPORT DE REMORQUE RETRACTABLE POUVANT ETRE MONTE EN SURFACE**
[72] DI BIASE, JOSEPH J., CA
[72] MILLER, SEAN, CA
[71] IDEAL WAREHOUSE INNOVATIONS, INC., CA
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[54] **COMBAT TRAINING SYSTEM**
[54] **SYSTEME D'ENTRAINEMENT AU COMBAT**
[72] HESS, SEBASTIAN, DE
[72] NOTHDURFT, SVEN, DE
[72] NAU, SIEGFRIED, DE
[72] KUSCHKE, ECKHARD, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
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[54] **COMBINATION OF P2Y6 INHIBITORS AND IMMUNE CHECKPOINT INHIBITORS**
[54] **COMBINAISON D'INHIBITEURS DE P2Y6 ET D'INHIBITEURS DE POINTS DE CONTROLE IMMUNITAIRE**
[72] MAZZONE, MASSIMILIANO, BE
[71] VIB VZM, BE
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, K.U.LEUVEN R&D, BE
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[25] EN
[54] **INSTALLATION DEVICE HAVING POWER-ENGINEERING OR BUILDING-SERVICES MODULES, AND METHOD FOR REMOVING A MODULE FROM AN INSTALLATION DEVICE OF THIS TYPE**
[54] **DISPOSITIF D'INSTALLATION COMPORTANT DES MODULES D'EQUIPEMENTS TECHNIQUES ENERGETIQUES OU DU BATIMENT, ET PROCEDE POUR RETIRER UN MODULE D'UN DISPOSITIF D'INSTALLATION DE CE TYPE**
[72] SCHECHNER, ALEXANDER, DE
[72] IHLE, GERHARD, DE
[71] ENVOLA GMBH, DE
[85] 2023-03-24
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[25] EN
[54] **ETHYLENE COPOLYMERS WITH IMPROVED MELTING AND GLASS TRANSITION TEMPERATURE**
[54] **COPOLYMERES D'ETHYLENE PRESENTANT UNE TEMPERATURE DE FUSION ET DE TRANSITION VITREUSE AMELIOREE**
[72] AJELLAL, NOUREDDINE, FI
[72] AL-HAJ ALI, MOHAMMAD, FI
[72] RUSKEENIEMI, JARI-JUSSI, FI
[72] SLEIJSTER, HENRY, NL
[72] VERDURMEN, EDWIN M.F.J., NL
[72] DEFOER, JOHAN, BE
[71] BOREALIS AG, AT
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[54] **ETHYLENE-OCTENE COPOLYMERS WITH IMPROVED PROPERTY PROFILE**
[54] **COPOLYMERES D'ETHYLENE-OCTENE A PROFIL DE PROPRIETES AMELIORE**
[72] AJELLAL, NOUREDDINE, FI
[72] AL-HAJ ALI, MOHAMMAD, FI
[72] CHENG, JOY JIE, AT
[72] POMAKHINA, ELENA, AT
[72] ALBRECHT, ANDREAS, AT
[72] SINHA, PRITISH PRADIPKUMAR, IN
[71] BOREALIS AG, AT
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[25] EN
[54] **ETHYLENE COPOLYMERS WITH IMPROVED MELTING AND GLASS TRANSITION TEMPERATURE**
[54] **COPOLYMERES D'ETHYLENE PRESENTANT DES TEMPERATURES DE FUSION ET DE TRANSITION VITREUSE AMELIOREES**
[72] AJELLAL, NOUREDDINE, FI
[72] AL-HAJ ALI, MOHAMMAD, FI
[72] SLEIJSTER, HENRY, NL
[72] VERDURMEN, EDWIN M.F.J., NL
[72] DEFOER, JOHAN, BE
[72] RUSKEENIEMI, JARI-JUSSI, FI
[71] BOREALIS AG, AT
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[54] **TREATMENT OF DERMATOLOGICAL CONDITIONS**
[54] **TRAITEMENT D'AFFECTIONS DERMATOLOGIQUES**
[72] MENNE, TORKIL, GB
[72] SELMER, JOHAN, GB
[72] LANGE, JESPER, GB
[72] BONDEBJERG, JON, GB
[72] GEORGIOU, MICHELLE, GB
[71] MC2 THERAPEUTICS LTD, GB
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[25] EN
[54] **COMBINATION TREATMENT**
[54] **POLYTHERAPIE**
[72] URECH, DAVID, CH
[72] GUNDE, TEA, CH
[72] SIMONIN, ALEXANDRE, FR
[72] CHATTERJEE, BITHI, CH
[72] SNELL, DANIEL, CH
[71] NUMAB THERAPEUTICS AG, CH
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[25] EN
[54] **PREVENTION OR MITIGATION OF T-CELL ENGAGING AGENT-RELATED ADVERSE EFFECTS**
[54] **PREVENTION OU ATTENUATION D'EFFETS SECONDAIRES LIES A UN AGENT DE MISE EN CONTACT DE LYMPHOCYTES T**
[72] HAEGEL, HELENE CECILE, CH
[72] KLEIN, CHRISTIAN, CH
[72] LECLERCQ, GABRIELLE, CH
[72] TOSO, ALBERTO, CH
[72] ZIMMERMANN, TINA, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
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[54] **ANTICORPS ZIP12**
[72] HOPLEY, STEPHANIE, GB
[72] HAMBLIN, PAUL, GB
[72] WILKINS, MARTIN, GB
[72] ZHAO, LAN, GB
[71] IP2IPO INNOVATIONS LIMITED, GB
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[54] **A REMOTE SENSING DEVICE**
[54] **DISPOSITIF DE DETECTION A DISTANCE**
[72] GLASSON, NEIL DAVID, NZ
[72] SHANNON, CRAIG DAVID, NZ
[72] MEERABUX, JOHN HENRY, AU
[72] HYNDS, AARON, NZ
[71] HYNDS LIMITED, NZ
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[25] EN
[54] **NOVEL RECOMBINANT VACCINIA VIRUS AND USE THEREOF**
[54] **NOUVEAU VIRUS DE LA VACCINE RECOMBINE GENIQUE ET SON UTILISATION**
[72] NAKAMURA, TAKAFUMI, JP
[72] WAKIMIZU, EMI, JP
[72] NAKATAKE, MOTOMU, JP
[72] KUROSAKI, HAJIME, JP
[71] NATIONAL UNIVERSITY CORPORATION TOTTORI UNIVERSITY, JP
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[25] EN
[54] **URICASE-ALBUMIN CONJUGATE, PREPARATION METHOD THEREFOR, AND USE THEREOF**
[54] **CONJUGUE URICASE-ALBUMINE, PROCEDE DE PREPARATION ASSOCIE ET SON UTILISATION**
[72] CHO, JEONG HAENG, KR
[72] SHIN, SUN OH, KR
[72] KIM, HYUN WOO, KR
[72] KIM, HYEONGSEOK, KR
[72] BAK, DONG HO, KR
[72] KWON, INCHAN, KR
[72] YANG, BYUNGSEOP, KR
[71] PROABTECH INC., KR
[85] 2023-03-24
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[25] EN
[54] **BUILDING PANEL WITH FIRST AND SECOND LOCKING SYSTEM**
[54] **PANNEAU DE CONSTRUCTION DOTE D'UN PREMIER ET D'UN SECOND SYSTEME DE VERROUILLAGE**
[72] BOO, CHRISTIAN, SE
[71] VALINGE INNOVATION AB, SE
[85] 2023-03-24
[86] 2021-10-15 (PCT/SE2021/051019)
[87] (WO2022/086397)
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[25] EN
[54] **AMBIENT, AD HOC, MULTIMEDIA COLLABORATION IN A GROUP-BASED COMMUNICATION SYSTEM**
[54] **COLLABORATION MULTIMEDIA AD HOC AMBIANTE DANS UN SYSTEME DE COMMUNICATION BASE EN GROUPE**
[72] BUTTERFIELD, DANIEL, US
[72] YEHOSHUA, TAMAR, US
[72] WEISS, NOAH, US
[72] RODGERS, JOHNNY, US
[72] MARSHALL, KEVIN, US
[72] NIESS, ANNA, US
[72] CARMO, PEDRO, US
[72] EISMANN, ETHAN, US
[72] WILLMORE, CHRIS, US
[72] LY-GAGNON, DAVID, US
[71] SLACK TECHNOLOGIES, LLC, US
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[25] EN
[54] **PAPER WRAPPING MATERIALS AND METHOD FOR A HIGHLY COMPRESSED PRODUCT**
[54] **MATERIAUX D'EMBALLAGE EN PAPIER ET PROCEDE POUR UN PRODUIT EXTREMEMENT COMPRIME**
[72] VAN DE HEY, JOSEPH F., US
[72] VANHANDEL, JEFFERY J., US
[72] ZIRBEL, ALEX M., US
[72] KUFFEL, ALEX N., US
[71] C3 CORPORATION, US
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[30] US (63/084,548) 2020-09-28

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[54] **SELF-CLEANING ENVIRONMENT**
[54] **ENVIRONNEMENT AUTONETTOYANT**
[72] MADDEN, DONALD GERARD, US
[72] KELLY, MICHAEL, US
[72] CORRENTI, MATTHEW DANIEL, US
[72] SHAYNE, ETHAN, US
[72] PICARDI, ROBERT NATHAN, US
[71] ALARM.COM INCORPORATED, US
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[30] US (63/082,765) 2020-09-24

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[51] **Int.Cl. C12M 1/34 (2006.01) C12M 1/36 (2006.01)**
[25] EN
[54] **PREDICTIVE MODELING AND CONTROL OF CELL CULTURE**
[54] **MODELISATION PREDICTIVE ET COMMANDE DE CULTURE CELLULAIRE**
[72] KHODABANDEHLOU, HAMID, US
[72] WANG, TONY Y., US
[72] TULSYAN, ADITYA, US
[71] AMGEN INC., US
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[25] EN
[54] **HUMANIZED MOUSE MODELS FOR ASSESSING IMMUNE CELL THERAPY**
[54] **MODELES DE SOURIS HUMANISEES POUR EVALUER UNE IMMUNOTHERAPIE CELLULAIRE**
[72] KECK, JAMES, US
[72] JIAO, JING, US
[72] YE, CHUNTING, US
[71] THE JACKSON LABORATORY, US
[85] 2023-03-24
[86] 2021-09-23 (PCT/US2021/051734)
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[30] US (63/083,003) 2020-09-24
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[25] EN
[54] **METHODS, DEVICES, AND SYSTEMS FOR VIDEO SEGMENTATION AND ANNOTATION**
[54] **PROCEDES, DISPOSITIFS ET SYSTEMES DE SEGMENTATION ET D'ANNOTATION VIDEO**
[72] EBONG, BEN, US
[71] WEV LABS, LLC, US
[85] 2023-03-24
[86] 2021-09-24 (PCT/US2021/051909)
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[30] US (63/083,248) 2020-09-25

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[51] **Int.Cl. C07K 19/00 (2006.01) C12N 15/113 (2010.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR INHIBITING GENE EXPRESSION**
[54] **COMPOSITIONS ET PROCEDES D'INHIBITION DE L'EXPRESSION GENIQUE**
[72] KENNEDY, JODI MICHELLE, US
[72] FARELLI, JEREMIAH DALE, US
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US
[85] 2023-03-24
[86] 2021-09-24 (PCT/US2021/051945)
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[25] EN
[54] **PHARMACEUTICAL FORMULATION**
[54] **FORMULATION PHARMACEUTIQUE**
[72] LEUNG, CHEUK-YUI, US
[72] SIMONE, ERIC, US
[72] YIN, OPHELIA QIPING, US
[71] AGIOS PHARMACEUTICALS, INC., US
[85] 2023-03-24
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[30] US (63/083,834) 2020-09-25
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[25] EN
[54] **FRATRICIDE RESISTANT MODIFIED IMMUNE CELLS AND METHODS OF USING THE SAME**
[54] **CELLULES IMMUNITAIRES MODIFIEES RESISTANTES AU FRATRICIDE ET LEURS METHODES D'UTILISATION**
[72] GEHRKE, JASON, US
[71] BEAM THERAPEUTICS INC., US
[85] 2023-03-24
[86] 2021-09-24 (PCT/US2021/052035)
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[25] EN
[54] **THIN FILM CATECHOL CONTAINING MATERIALS**
[54] **MATERIAUX CONTENANT DU CATECHOL EN COUCHE MINCE**
[72] MALOFSKY, ADAM GREGG, US
[72] MALOFSKY, BERNARD MILES, US
[72] STIEG, JASON ANDREW, US
[72] SCHMIDT, DAVID, US
[71] MUSSEL POLYMERS, INC., US
[85] 2023-03-24
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[51] **Int.Cl. C09J 7/22 (2018.01) C08F 212/14 (2006.01) C09J 125/18 (2006.01)**
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