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THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

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

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

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L'Office de la propriété intellectuelle de Canada ne garantit pas l'exactitude de la présente publication et ne se rend responsable d'aucune erreur ou omission ou de leurs conséquences.

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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
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[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.

Copyright

Droits d'auteur

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

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

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

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

Industrial Designs

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

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

Dessins industriels

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

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

Integrated Circuit Topographies

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

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

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

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Trademarks

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

Industrial Design

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

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

Marques de commerce

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

Dessins industriels

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

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

4. General Information

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

4. Renseignements généraux

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

5. Time Period Extensions

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

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

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

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

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

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

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

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

Marques de commerce

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

8. Intellectual property acts, rules and regulations

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of April 16, 2024 contains applications open to public inspection from March 31, 2024 to April 6, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 16 avril 2024 contient les demandes disponibles au public pour consultation pour la période du 31 mars 2024 au 6 avril 2024.

Canadian Patents Issued

April 16, 2024

Brevets canadiens délivrés

16 avril 2024

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[54] **COMPOSITIONS AND METHODS FOR IMPLANTATION OF PROCESSED ADIPOSE TISSUE AND PROCESSED ADIPOSE TISSUE PRODUCTS**
[54] **COMPOSITIONS ET PROCEDES D'IMPLANTATION DE TISSU ADIPEUX TRAITE ET PRODUITS DE TISSUS ADIPEUX TRAITES**
[72] NAHAS, ZAYNA, US
[72] ELISSEEFF, JENNIFER H., US
[72] WU, IWEN, US
[73] THE JOHNS HOPKINS UNIVERSITY, US
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[54] **COMBINAISON DE THERAPIES IMMUNOMODULATRICES LOCALES ET SYSTEMIQUES POUR L'AMELIORATION DU TRAITEMENT DU CANCER**
[72] EAGLE, CRAIG J., US
[72] DEES, H. CRAIG, US
[72] WACHTER, ERIC A., US
[72] SINGER, JAMIE, US
[73] PROVECTUS PHARMATECH, INC., US
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[54] **SYSTEM AND METHOD FOR DISPLAYING AN AMOUNT OF FUNDS AVAILABLE TO PURCHASE SECURITIES**
[54] **PROCEDE ET METHODE D'AFFICHAGE DU MONTANT DE FONDS DISPONIBLES POUR L'ACHAT DE TITRES**
[72] KHOLODENKO, EDWARD, CA
[72] PERCY, DEAN, CA
[72] GLOZSHTEIN, URY, CA
[72] VIEGAS, SIDNEY, CA
[73] QUESTRADE FINANCIAL GROUP INC., CA
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[54] **SYSTEM AND METHOD FOR AUTHORIZING A DEBIT TRANSACTION WITHOUT USER AUTHENTICATION**
[54] **SYSTEME ET METHODE D'AUTORISATION D'UNE TRANSACTION DE DEBIT SANS AUTHENTIFICATION DE L'UTILISATEUR**
[72] HAMBLETON, SCOTT LAWSON, CA
[72] LANGHAM, STEVEN ROBERT, CA
[73] THE TORONTO-DOMINION BANK, CA
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[72] PARRA, LUCAS CRISTOBAL, US
[72] DMOCHOWSKI, JACEK PIOTR, US
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[54] **POLYNUCLEOTIDES CODANT POUR DES ANTICORPS DE RONGEUR AYANT DES IDIOTYPES HUMAINS, ET ANIMAUX LES COMPRENANT**
[72] BRUGGEMANN, MARIANNE, GB
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[73] THE STANDARD REGISTER COMPANY, US
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[54] **METHODS FOR TREATING ALLERGY AND ENHANCING ALLERGEN-SPECIFIC IMMUNOTHERAPY BY ADMINISTERING AN IL-4R INHIBITOR**
[54] **METHODES POUR TRAITER L'ALLERGIE ET RENFORCER L'IMMUNOTHERAPIE SPECIFIQUE D'ALLERGENE PAR ADMINISTRATION D'UN INHIBITEUR D'IL-4R**
[72] STAHL, NEIL, US
[72] ORENGO, JAMIE M., US
[72] MURPHY, ANDREW J., US
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[54] **DETECTEUR DE FUMEE A VOLUME D'ECHANTILLONNAGE EXTERIEUR ET A REJET DE LUMIERE AMBIANTE**
[72] ERDTMANN, MATTHEW, US
[73] VALOR FIRE SAFETY, LLC, US
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[54] **SYSTEM AND METHOD FOR HEURISTIC CONTROL OF NETWORK TRAFFIC MANAGEMENT**
[54] **SYSTEME ET METHODE DE CONTROLE HEURISTIQUE DE GESTION DE TRAFIC RESEAU**
[72] SREEVALSAN, SHYAM, IN
[72] RAJASEKAR, KATHIRAVAN, IN
[72] FLATT, STEVEN J., CA
[72] SURESH, AKASH, IN
[72] BOUCHARD, FELIX-ANTOINE R., CA
[73] SANDVINE CORPORATION, CA
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[72] WHITEHURST, TODD, US
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[54] **METHOD AND DEVICE FOR ATTACHING MESSAGES STORED AT A DEVICE AS ATTACHMENTS TO A MESSAGE BEING COMPOSED AT THE DEVICE**
[54] **METHODE ET DISPOSITIF SERVANT A JOINDRE DES MESSAGES STOCKES SUR UN DISPOSITIF COMME PIECES JOINTES A UN MESSAGE COMPOSE SUR LE DISPOSITIF**
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[72] FOGEL, CHRISTOPHER MICHAEL, CA
[72] PURI, RONESH, CA
[72] BALASUBRAMANIAM, MAHADEVAN, US
[73] BLACKBERRY LIMITED, CA
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[72] KUMAR, ANJANI, US
[72] PATEL, MITESHKUMAR HASMUKHLAL, US
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[54] **DISPOSITIF ET PROCEDE DE NIVELLEMENT LASER AJUSTABLE**
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[54] **MACROCYCLES A GROUPES HETEROCYCLIQUES P2' SERVANT D'INHIBITEURS DU FACTEUR XIA**
[72] CORTE, JAMES R., US
[72] DE LUCCA, INDAWATI, US
[72] FANG, TIANAN, US
[72] YANG, WU, US
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[72] PINTO, DONALD J.P., US
[72] ORWAT, MICHAEL J., US
[72] SMITH, LEON M., II, US
[73] BRISTOL-MYERS SQUIBB COMPANY, US
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[54] **TRAITEMENT AUX HALOGENES D'INFARCTUS DU MYOCARDE ET DE LESION ISCHEMIQUE**
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[72] MORRISON, MICHAEL L., US
[72] IWATA, AKIKO, US
[73] FRED HUTCHINSON CANCER CENTER, US
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[73] OPTRONICS INTERNATIONAL, LLC, US
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[54] **SOUCHES DE LACTOBACILLUS A ACTION RAPIDE ET LEUR UTILISATION POUR AMELIORER LA STABILITE AEROBIE D'UN ENSILAGE**
[72] HARMAN, ELIZABETH, US
[72] RUTHERFORD, WILLIAM, US
[72] SMILEY, BRENDA KAY, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
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[72] BERNKLAU, NATHANIEL R., US
[72] WELCH, RANDY R., US
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[73] DEERE & COMPANY, US
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[54] **PROCEDES ET COMPOSITIONS POUR NETTOYER ET DESINFECTER DES SURFACES**
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[72] DEEB, THOMAS M., US
[73] MARIA BEUG-DEEB INC. DBA T&M ASSOCIATES, US
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[54] **COMMUNICATING CIRCUIT BREAKER ARCHITECTURE WITH AUTOMATIC LOAD CENTER POSITION IDENTIFICATION**
[54] **ARCHITECTURE DE DISJONCTEUR COMMUNIQUANT OFFRANT L'IDENTIFICATION AUTOMATIQUE DE POSITION DE CENTRE DE CHARGE**
[72] REID, PAUL A., US
[73] SCHNEIDER ELECTRIC USA, INC., US
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[87] (2942645)
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[54] **TRIP INDICATION USING ADJACENT CIRCUIT BREAKERS**
[54] **INDICATION DE DECLENCHEMENT AU MOYEN DES DISJONCTEURS ADJACENTS**
[72] REID, PAUL A., US
[73] SCHNEIDER ELECTRIC USA, INC., US
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[54] **WELDING METHOD AND DEVICE**
[54] **METHODE DE SOUDAGE ET APPAREIL**
[72] WAGNER, WLADIMIR, DE
[73] STURTZ MASCHINENBAU GMBH, DE
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[87] (2945712)
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[25] FR
[54] **DATA ENCRYPTION PROCESS FOR METHODS OF PAYMENT, CORRESPONDING METHODS OF PAYMENT, SERVER AND PROGRAMS**
[54] **PROCEDE DE CHIFFREMENT DE DONNEES DE MOYENS DE PAIEMENT, MOYEN DE PAIEMENT, SERVEUR ET PROGRAMMES CORRESPONDANTS**
[72] NACCACHE, DAVID, FR
[72] GERAUD, REMI, FR
[72] KOUDOUSSI, HIBA, FR
[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[86] (2947920)
[87] (2947920)
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[25] EN
[54] **METHOD AND SYSTEM FOR DYNAMIC SELECTION OF COMMUNICATION PATHS FOR A MOVING VEHICLE**
[54] **METHODE ET SYSTEME DE SELECTION DYNAMIQUE DE CHEMINS DE COMMUNICATION DESTINES A UN VEHICULE EN MOUVEMENT**
[72] BERGEK, MARTIN, SE
[72] KARLSSON, MATS, SE
[72] EKLUND, PETER, SE
[73] ICOMERA AB, SE
[86] (2948674)
[87] (2948674)
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[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED AND CENTRALIZED REAL-TIME EVENT DETECTION AND COMMUNICATION**
[54] **SYSTEMES ET METHODES DE DETECTION ET COMMUNICATION D'EVENEMENT EN TEMPS REEL AUTOMATISEES ET CENTRALISEES**
[72] MANCINE, NATHAN, US
[72] ROVNAN, JOHN, US
[73] TELETRACKING TECHNOLOGIES, INC., US
[86] (2949316)
[87] (2949316)
[22] 2016-11-23
[30] US (62/259,344) 2015-11-24

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[51] **Int.Cl. G01R 31/52 (2020.01) H02J 13/00 (2006.01)**
[25] EN
[54] **WAVEFORM SEPARATOR APPARATUS AND METHOD FOR DETECTING LEAKAGE CURRENT IN HIGH VOLTAGE DIRECT CURRENT POWER SYSTEMS**
[54] **APPAREIL SEPARATEUR DE FORME D'ONDE ET METHODE DE DETECTION DE COURANT DE FUITE DANS LES SYSTEMES D'ALIMENTATION EN COURANT DIRECT HAUTE TENSION**
[72] BILIC, ZORAN, CA
[72] BALL, DAVID JAMES, US
[73] QUANTA ASSOCIATES, L.P., US
[86] (2950506)
[87] (2950506)
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[25] FR
[54] **DYNAMIC SCENE ANALYSIS METHOD, AND ASSOCIATED ANALYSIS MODULE AND COMPUTER PROGRAMME**
[54] **PROCEDE D'ANALYSE D'UNE SCENE DYNAMIQUE, MODULE D'ANALYSE ET PROGRAMME D'ORDINATEUR ASSOCIES**
[72] LAUGIER, CHRISTIAN, FR
[72] NEGRE, AMAURY, FR
[72] PERROLLAZ, MATHIAS, FR
[72] RUMMELHARD, LUKAS, FR
[73] INRIA INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2016-11-30
[86] 2015-06-02 (PCT/FR2015/051449)
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[25] EN
[54] **MULTI-STAGE HORIZONTAL CENTRIFUGAL PUMP FOR CONVEYING A FLUID AND A METHOD FOR REPAIRING THE SAME**
[54] **POMPE CENTRIFUGE HORIZONTALE A PLUSIEURS ETAGES POUR TRANSPORTER UN FLUIDE ET PROCEDE DE REPARATION DE CELLE-CI**
[72] LAGAS, NICOLAS, FR
[73] SULZER MANAGEMENT AG, CH
[86] (2951644)
[87] (2951644)
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[54] **METHOD FOR ALLOCATING RADIO RESOURCES IN A COMMUNICATION SYSTEM USING NON-GSO SATELLITES WITH INTERFERENCE LEVEL CONSTRAINT TO A GEOSTATIONARY SYSTEM**
[54] **METHODE D'ATTRIBUTION DE RESSOURCES RADIO, A UN SYSTEME GEOSTATIONNAIRE, DANS UN SYSTEME DE COMMUNICATION AU MOYEN DE SATELLITES NON GSO A CONTRAINTE DE NIVEAU D'INTERFERENCE**
[72] FARAJ, ZAKARIYA, FR
[72] CHUBERRE, NICOLAS, FR
[73] THALES, FR
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[54] **SIGNALING HRD PARAMETERS FOR BITSTREAM PARTITIONS**
[54] **SIGNALISATION DE PARAMETRES HRD POUR DES DIVISIONS DE FLUX BINAIRE**
[72] WANG, YE-KUI, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-12-13
[86] 2015-06-17 (PCT/US2015/036172)
[87] (WO2015/195761)
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[54] **THUMB HOLE PAINT CONTAINER AND HOLDER**
[54] **CONTENANT DE PEINTURE DOTE D'UN TROU POUR LE POUCE ET SUPPORT**
[72] FEE, GARRY C., US
[72] MORPHEY, JOHN C., US
[73] NOVA WILDCAT SHUR-LINE, LLC, US
[86] (2953980)
[87] (2953980)
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[54] **MODULAR COVER PLATES**
[54] **PLAQUES DE COUVERCLE MODULAIRES**
[72] KORCZ, KRZYSZTOF, US
[72] JOHNSON, STEVEN, US
[73] HUBBELL INCORPORATED, US
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[25] EN
[54] **METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR CONTROLLING CONTENT DISTRIBUTION VIA TRANSCEIVERS TO A DISPLAY**
[54] **PROCEDE, APPAREIL ET PRODUIT PROGRAMME INFORMATIQUE DE COMMANDE D'UNE DISTRIBUTION DE CONTENU A UN AFFICHAGE PAR L'INTERMEDIAIRE D'EMETTEURS-RECEPTEURS**
[72] POWERS, CHRISTOPHER, US
[72] APARICIO, MIKE, US
[73] GROUPON, INC., US
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[54] **DEVICE AND METHOD FOR ADJUSTING AN OUTPUT TO AN AUDIO PORT BASED ON A DETERMINED SENSITIVITY**
[54] **DISPOSITIF ET METHODE D'AJUSTEMENT D'UNE SORTIE VERS UN PORT AUDIO FONDES SUR UNE SENSIBILITE DETERMINEE**
[72] LOWLES, ROBERT WILLIAM, CA
[72] LORENZ, CHRISTIAN, CA
[73] BLACKBERRY LIMITED, CA
[86] (2958371)
[87] (2958371)
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[54] **SECURE LENS LAYER**
[54] **COUCHE DE LENTILLES SECURISEE**
[72] COTE, PAUL F., US
[73] CRANE SECURITY TECHNOLOGIES, INC., US
[85] 2017-03-14
[86] 2015-09-16 (PCT/US2015/050347)
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[54] **INHIBITORS OF LACTATE TRANSPORTERS FOR USE IN THE TREATMENT OF INFLAMMATORY DISEASES**
[54] **INHIBITEURS DE TRANSPORTEURS DE LACTATE DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE MALADIES INFLAMMATOIRES**
[72] MAURO, CLAUDIO, GB
[72] HAAS, ROBERT, GB
[72] MARELLI-BERG, FEDERICA, GB
[73] THE UNIVERSITY OF BIRMINGHAM, GB
[85] 2017-03-27
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[25] EN
[54] **SYSTEMS AND PROCESSES FOR CONVERSION OF ETHYLENE FEEDSTOCKS TO HYDROCARBON FUELS**
[54] **SYSTEMES ET PROCEDES DE CONVERSION DE MATIERES PREMIERES A BASE D'ETHYLENE EN CARBURANTS HYDROCARBONES**
[72] LILGA, MICHAEL, US
[72] HALLEN, RICHARD, US
[72] ALBRECHT, KARL, US
[72] COOPER, ALAN, US
[72] FRYE, JOHN, US
[72] RAMASAMY, KARTHIKEYAN KALLUPALAYAM, US
[73] BATTELLE MEMORIAL INSTITUTE, US
[85] 2017-04-05
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[54] **FIBER OPTIC CONNECTOR**
[54] **CONNECTEUR DE FIBRE OPTIQUE**
[72] CHABOT, BRUNO, CA
[72] HUBBARD, DAVID, US
[73] BELDEN CANADA ULC, CA
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[25] EN
[54] **METHODS AND COMPOSITIONS FOR SAFE AND EFFECTIVE THROMBOLYSIS**
[54] **METHODES ET COMPOSITIONS POUR THROMBOLYSE SURE ET EFFICACE**
[72] GUREWICH, VICTOR, US
[73] THROMBOLYTIC SCIENCE, LLC, US
[85] 2017-04-28
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[25] EN
[54] **LIGHT PROGRAM FOR INTERIOR LIGHTING IN AN AIRCRAFT**
[54] **PROGRAMME D'ECLAIRAGE DESTINE A L'ECLAIRAGE INTERIEUR D'UN AERONEF**
[72] FEHRINGER, SEBASTIAN, DE
[73] DIEHL AEROSPACE GMBH, DE
[86] (2967421)
[87] (2967421)
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[25] EN
[54] **SYSTEM AND METHOD FOR SIMPLIFYING INTERCONNECTION BETWEEN PANEL CONTROLS AND MOTOR POWER UNITS**
[54] **SYSTEME ET METHODE DE SIMPLIFICATION D'INTERCONNEXION ENTRE LES COMMANDES DE PANNEAU ET LES MODULES D'ALIMENTATION MOTEUR**
[72] OMARI, AHMAD K., US
[72] LANGER, RANDALL S., US
[73] ROCKWELL AUTOMATION TECHNOLOGIES, INC., US
[86] (2967709)
[87] (2967709)
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[54] **ANTI-THYROGLOBULIN T CELL RECEPTORS**
[54] **RECEPTEURS DE LYMPHOCYTE T ANTI-THYROGLOBULINE**
[72] HANADA, KENICHI, US
[72] WANG, QIONG J., US
[72] YANG, JAMES C., US
[72] YU, ZHIYA, US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
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[51] **Int.Cl. C07H 21/02 (2006.01) C07H 21/04 (2006.01)**
[25] EN
[54] **PHOSPHORAMIDITE SYNTHONES FOR THE SYNTHESIS OF SELF-NEUTRALIZING OLIGONUCLEOTIDE COMPOUNDS**
[54] **SYNTHONS PHOSPHORAMIDITES POUR LA SYNTHESE DE COMPOSES OLIGONUCLEOTIDIQUES AUTO-NEUTRALISANTS**
[72] TABATADZE, DAVID R., US
[72] YANACHKOV, IVAN, US
[73] ZATA PHARMACEUTICALS, INC., US
[85] 2017-05-17
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[51] **Int.Cl. E21B 43/26 (2006.01)**
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[54] **ADJUSTABLE FRACTURING SYSTEM**
[54] **SYSTEME DE FRACTURATION REGLABLE**
[72] TRAN, DUC THANH, US
[72] WEBSTER, MATTHEW THOMAS ROBINSON, CA
[72] PANG, RAY DICKSANG, US
[72] MURDOCH, KEITH, US
[73] SPM OIL & GAS PC LLC, US
[86] (2971730)
[87] (2971730)
[22] 2017-06-23
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[51] **Int.Cl. A61K 31/352 (2006.01)**
[25] EN
[54] **METHODS FOR PREPARATION OF CANNABIS OIL EXTRACTS AND COMPOSITIONS**
[54] **PROCEDES DE PREPARATION D'EXTRAITS D'HUILE DE CANNABIS ET COMPOSITIONS**
[72] FINLEY, CONSTANCE, US
[72] MCKEE, LUKE, US
[72] POOLE BESTWICK, HALEY, US
[72] ROETHLE, PAUL, US
[73] CONSTANCE THERAPEUTICS, INC., US
[85] 2017-07-18
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[25] EN
[54] **TREATMENT OR PREVENTION OF SURGERY-INDUCED CACHEXIA AND/OR EXPRESSION OF MYELOID-DERIVED SUPPRESSOR CELLS AND PRO-INFLAMMATORY CYTOKINES**
[54] **TRAITEMENT OU PREVENTION DE LA CACHEXIE INDUITE PAR UNE INTERVENTION CHIRURGICALE ET/OU DE L'EXPRESSION DES CELLULES SUPPRESSIVES DE LA LIGNEE MYELOIDE ET DE CYTOKINES PRO-INFLAMM ATOIRES**
[72] HAMILTON-REEVES, JILL, US
[72] HOLZBEIERLEIN, JEFFREY M., US
[72] YANKEE, THOMAS, US
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
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[51] **Int.Cl. F01D 21/00 (2006.01) F01D 21/02 (2006.01) F01D 21/14 (2006.01)**
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[54] **SHAFT EVENT DETECTION IN GAS TURBINE ENGINES**
[54] **DETECTION D'EVENEMENT TOUCHANT L'ARBRE DANS LES TURBINES A GAZ**
[72] DUBREUIL, JEAN, CA
[72] VINSKI, JOHNNY, CA
[72] DESJARDINS, MICHEL, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2976984)
[87] (2976984)
[22] 2017-08-18
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[51] **Int.Cl. G06F 16/11 (2019.01) G06F 12/00 (2006.01)**
[25] EN
[54] **METHOD FOR DEDUPLICATION IN STORAGE SYSTEM, STORAGE SYSTEM, AND CONTROLLER**
[54] **METHODE DE DEDOUBLEMENT DANS UN SYSTEME DE RANGEMENT, SYSTEME DE RANGEMENT ET CONTROLEUR**
[72] LAN, WENHAI, CN
[72] ZHANG, WEI, CN
[72] YU, XIAOAN, CN
[72] LIU, XUYOU, CN
[72] ZHANG, ZHIXIONG, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2018-04-12
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[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1459 (2006.01) A61B 5/01 (2006.01)**
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[54] **ANALYTE SENSOR**
[54] **CAPTEUR D'ANALYTE**
[72] DEHENNIS, ANDREW, US
[72] TANKIEWICZ, SZYMON, US
[72] WHITEHURST, TODD, US
[73] SENSEONICS, INCORPORATED, US
[85] 2017-08-24
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[25] EN
[54] **INTER-NETWORK MESSAGING FOR MOBILE COMPUTING PLATFORMS**
[54] **MESSAGERIE INTER-RESEAU POUR PLATES-FORMES INFORMATIQUES MOBILES**
[72] KUMAR, VIJAY, US
[72] BANGALORE, VISH, US
[73] OMNITRACS, LLC, US
[85] 2017-08-28
[86] 2016-03-04 (PCT/US2016/020929)
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[51] **Int.Cl. H01R 9/00 (2006.01) F16L 3/02 (2006.01) H01R 9/24 (2006.01)**
[25] EN
[54] **WIRE DETACHMENT-PREVENTING STRUCTURE**
[54] **STRUCTURE DE PREVENTION DE DETACHEMENT DE FIL**
[72] WU, KUNRAN, CN
[72] ZHONG, BODONG, CN
[73] PANASONIC ECOLOGY SYSTEMS GUANGDONG CO., LTD., CN
[86] (2978613)
[87] (2978613)
[22] 2017-09-06
[30] CN (201621088654.5) 2016-09-28

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[51] **Int.Cl. C08L 23/02 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **FLOODING COMPOUNDS FOR TELECOMMUNICATION CABLES**
[54] **COMPOSES D'ENROBAGE POUR CABLES DE TELECOMMUNICATION**
[72] ESSEGHIR, MOHAMED, US
[72] ZHANG, YICHI, US
[72] BAILEY, BRAD C., US
[72] JIN, YI, US
[72] YALVAC, SELIM, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2017-09-22
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[30] US (62/140,673) 2015-03-31

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[72] BAUER, MIKAEL, DK
[72] CHRISTENSEN, LARS L. H., DK
[72] RANNES, JULIE B., DK
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[54] **SYSTEME DE COMPTAGE DE CIBLE AUTOMATIQUE**
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[72] MOORE, STEPHEN, GB
[73] FLIGHT PATH IP LIMITED, GB
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[54] **PROCEDE ET APPAREIL D'USINAGE**
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[72] CARBERRY, JONATHAN MICHAEL, GB
[72] MCMILLAN, DAVID, US
[72] DERECICHEI, ARON, US
[72] ASHMORE, CRAIG, US
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[73] CARGILL, INCORPORATED, US
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[54] **ASSOCIATION D'ACIDE LIPOIQUE ET DE TAURINE EN TANT QU'AGENT OSMOPROTECTEUR**
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[72] CHATARD-BAPTISTE, CAROLINE, FR
[73] OPHTALMIS MONACO, MC
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[54] **DISPOSITIF DE TRAITEMENT DE L'INSUFFISANCE CARDIAQUE CONGESTIVE**
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[73] TEIJIN PHARMA LIMITED, JP
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[54] **APPAREIL DE PREHENSION MANUELLE POUR RECEVOIR UNE ENTREE OPERATEUR DANS UN SYSTEME DE CHIRURGIE ROBOTIQUE**
[72] LUTZOW, THOMAS ANDREW, US
[72] SMITH, DANIEL P., US
[72] CAMERON, PETER JOHN KENNETH, US
[73] TITAN MEDICAL INC., CA
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[54] **PROCEDE DE CHIFFREMENT, PROCEDE DE CHIFFREMENT, DISPOSITIFS ET PROGRAMMES CORRESPONDANTS**
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[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
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[54] **FORMULATIONS ANTIBIOTIQUES INJECTABLES ET UTILISATION DE CELLES-CI**
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[72] PAULSEN, NEIL E., US
[72] DEMPSEY, GAIL L., US
[72] DANIEL, MICHAEL S., US
[72] TOMLINSON, TIFFANY G., US
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[73] DECHRA VETERINARY PRODUCTS, LLC, US
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[54] **ENCODING APPARATUS, ENCODING METHOD, DECODING APPARATUS, DECODING METHOD, AND PROGRAM**
[54] **APPAREIL DE CODAGE, METHODE DE CODAGE, APPAREIL DE DECODAGE, METHODE DE DECODAGE ET PROGRAMME**
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[72] CHINEN, TORU, JP
[72] TSUJI, MINORU, JP
[73] SONY CORPORATION, JP
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[72] RICHARZ, WERNER GUENTHER, CA
[73] MUELLER INTERNATIONAL, LLC, US
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[73] PRISTINE ACCESS TECHNOLOGIES LTD, IL
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[54] **HEAT TRANSFER FLUID COMPOSITION AND USE**
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[72] GRAY, PHILIP, GB
[73] KILFROST GROUP PLC, GB
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[54] **ACTIVITES BIOLOGIQUES DU BIOFILM DE LACTOBACILLUS FERMENTUM QI6 POUR AMELIORER LES FONCTIONS DE BARRIERES DERMIQUES ET/OU MUQUEUSES**
[72] BERKES, EVA A., US
[72] MONSUL, NICHOLAS, T., US
[72] BOEHM, FREDERICK T., US
[73] QUORUM INNOVATIONS, LLC, US
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[54] **PROCEDE ET APPAREIL POUR FOURNIR UNE COMMUNICATION SECURISEE ENTRE DES DISPOSITIFS LIMITES**
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[73] ENTRUST, INC., US
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[54] **PROCEDE D'OBTENTION D'ALUMINATES DE CALCIUM A PARTIR DE SCORIES D'ALUMINIUM NON SALINES**
[72] LOPEZ GOMEZ, FELIX ANTONIO, ES
[72] ALGUACIL PRIEGO, FRANCISCO JOSE, ES
[72] RAMIREZ ZABLAH, MARIO SERGIO, MX
[72] GONZALEZ GRACIA, JOSE RAMON, MX
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[54] **COMPOSITIONS COMPRENANT DU MAGNOLIA, DU PHELLODENDRON, DE LA THEANINE ET/OU UNE PROTEINE DU PETIT-LAIT**
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[72] GRIFFIN, DAVID, US
[72] BLEDSOE, DAVID, US
[73] NUTRAMAX LABORATORIES, INC., US
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[54] **EXTRAIT DE GARDENIA DANS LA COLORATION DE LA PEAU**
[72] DUPLAN, HELENE, FR
[72] FIORINI-PUYBARET, CHRISTEL, FR
[72] JACQUES-JAMIN, CARINE, FR
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[72] SUBRA, LAURENT, FR
[73] PIERRE FABRE MEDICAMENT, FR
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[54] **CONDUCTIVE FABRIC, METHOD OF MANUFACTURING A CONDUCTIVE FABRIC AND APPARATUS THEREFOR**
[54] **TISSU CONDUCTEUR, PROCEDE DE FABRICATION DE TISSU CONDUCTEUR ET APPAREIL CONNEXE**
[72] SWALLOW, STANLEY SHIGEZO, GB
[72] THOMPSON, ASHA PETA, GB
[73] INTELLIGENT TEXTILES LIMITED, GB
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[54] **SELECTION DYNAMIQUE D'ENTREE DE RECHERCHE**
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[72] GAVINI, NAVEEN, US
[72] JING, YUSHI, US
[72] ZHAI, ANDREW HUAN, US
[72] KISLYUK, DMITRY OLEGOVICH, US
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[54] **APPAREIL DE TELEMETRIE ACOUSTIQUE ET PROCEDES**
[72] GUILLOT, CLEMENT B., III, US
[73] DIGICOURSE LLC, US
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[54] **PRODUIT DE CARTON COMPRENANT DE LA CELLULOSE RAFFINEE**
[72] TUSZKIEWICZ, GEORGE, US
[72] LORENCE, MATT, US
[72] PARADIS, MARK, US
[72] BILODEAU, MICHAEL A., US
[73] GENERAL MILLS, INC., US
[73] UNIVERSITY OF MAINE SYSTEM BOARD OF TRUSTEES, US
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[54] **AGENCEMENT DE PAROI DE LEVAGE ET SEGMENT D'UN AGENCEMENT DE PAROI DE LEVAGE**
[72] CANABES GUERRA, CRISTIAN ALEJANDRO, CL
[73] METSO OUTOTEC FINLAND OY, FI
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[54] **ANTI-MYOSTATIN ANTIBODIES, POLYPEPTIDES CONTAINING VARIANT FC REGIONS, AND METHODS OF USE**
[54] **ANTICORPS ANTI-MYOSTATINE, POLYPEPTIDES CONTENANT DES VARIANTS DE REGIONS FC, ET PROCEDES D'UTILISATION**
[72] KURAMOCHI, TAICHI, SG
[72] IGAWA, TOMOYUKI, JP
[72] KATADA, HITOSHI, JP
[72] HORI, YUJI, JP
[73] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
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[54] **PROCEDES POUR TRAITER LE SYNDROME D'ANGELMAN ET DES TROUBLES ASSOCIES**
[72] MARICICH, YURI, US
[73] CAVION, INC., US
[85] 2018-04-20
[86] 2016-10-24 (PCT/US2016/058487)
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[54] **DATA PROCESSING APPARATUS, AND DATA PROCESSING METHOD**
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT DE DONNEES**
[72] YAMAMOTO, MAKIKO, JP
[73] SONY CORPORATION, JP
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[54] **SUBCUTANEOUS FORMULATIONS OF ANTI-CD38 ANTIBODIES AND THEIR USES**
[54] **FORMULATIONS SOUS-CUTANEE D'ANTICORPS ANTI-CD38 ET LEURS UTILISATIONS**
[72] JANSSON, RICHARD, US
[72] KUMAR, VINEET, US
[73] JANSSEN BIOTECH, INC., US
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[25] EN
[54] **TECHNIQUES FOR QUANTUM ERROR CORRECTION USING BOSONIC MODES AND RELATED SYSTEMS AND METHODS**
[54] **TECHNIQUES DE CORRECTION D'ERREUR QUANTIQUE UTILISANT DES MODES BOSONIQUES AINSI QUE SYSTEMES ET PROCEDES ASSOCIES**
[72] GIRVIN, STEVEN M., US
[72] JIANG, LIANG, US
[72] MICHAEL, MARIOS H., US
[72] SILVERI, MATTI, US
[72] BRIERLEY, RICHARD T., US
[72] ALBERT, VICTOR V., US
[72] SALMILEHTO, JUHA, US
[73] YALE UNIVERSITY, US
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[54] **1,3,4-THIADIAZOLE COMPOUNDS AND THEIR USE IN TREATING CANCER**
[54] **COMPOSES DE 1,3,4-THIADIAZOLE ET LEUR UTILISATION POUR TRAITER LE CANCER**
[72] FINLAY, MAURICE RAYMOND VERSCHOYLE, GB
[72] NISSINK, JOHANNES WILHELMUS MARIA, GB
[72] CHARLES, MARK DAVID, GB
[72] WOOD, JAMES MATTHEW, GB
[73] CANCER RESEARCH TECHNOLOGY LIMITED, GB
[73] ASTRAZENECA AB, SE
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[54] **METHOD OF OPERATING AN INJECTION SYSTEM**
[54] **PROCEDE DE FONCTIONNEMENT D'UN SYSTEME D'INJECTION**
[72] CHASSOT, PIERRE-YVES, CH
[73] ACIST MEDICAL SYSTEMS, INC., US
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[54] **METHOD OF ESTIMATING AN ATTITUDE OF A CONTROL DEVICE FOR CONTROLLING OPERATING MACHINES**
[54] **PROCEDE D'ESTIMATION D'ATTITUDE D'UN DISPOSITIF DE COMMANDE DESTINE A COMMANDER DES MACHINES DE TRAVAIL**
[72] VINATI, FELICE, IT
[72] VINATI, SAMUELE, IT
[72] VINATI, MATTEO, IT
[72] VINATI, MARIACHIARA, IT
[72] VINATI, GIACOMO, IT
[72] PREVIDI, FABIO, IT
[72] COLOGNI, ALBERTO, IT
[72] ERMIDORO, MICHELE, IT
[72] BORTOLOTTI, LUCA, IT
[73] VINATI S.R.L., IT
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[54] **METHOD FOR PRODUCING 2-[4-(4-CHLOROPHENOXY)-2-(TRIFLUOROMETHYL)PHENYL]-1-(1,2,4-TRIAZOL-1-YL)PROPAN-2-OL**
[54] **PROCEDE DE PRODUCTION DU 2-[4-(4-CHLOROPHENOXY)-2-(TRIFLUOROMETHYL)PHENYL]-1-(1,2,4-TRIAZOL-1-YL)PROPAN-2-OL**
[72] GEBHARDT, JOACHIM, DE
[72] SAELINGER, DANIEL, DE
[72] EHRESMANN, MANFRED, DE
[72] GOETZ, ROLAND, DE
[73] BASF AGRO B.V., NL
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[54] **GAS DIFFUSION ELECTRODE, MICROPOROUS LAYER PAINT AND PRODUCTION METHOD THEREOF**
[54] **ELECTRODE A DIFFUSION DE GAZ, MATERIAU DE REVETEMENT DE COUCHE MICROPOREUSE ET SON PROCEDE DE PRODUCTION**
[72] KATO, SHO, JP
[72] HASHIMOTO, MASARU, JP
[72] WAKATABE, MICHIO, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2018-06-12
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[54] **CONFIGURATION OF THE INTENSITY OF THE LIGHT SOURCES COMPOSING A LIGHTING SYSTEM**
[54] **CONFIGURATION DE L'INTENSITE DES SOURCES DE LUMIERE COMPOSANT UN SYSTEME D'ECLAIRAGE**
[72] BELIN, PATRICK, FR
[72] BAILLY, YANNICK, FR
[73] WATTLUX, FR
[85] 2018-06-21
[86] 2016-12-16 (PCT/FR2016/053499)
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[25] EN
[54] **SEQUENTIAL IMPREGNATION OF A POROUS SUPPORT FOR NOBLE METAL ALLOY FORMATION**
[54] **IMPREGNATION SEQUENTIELLE D'UN SUPPORT POREUX AFIN DE FORMER UN ALLIAGE DE METAUX NOBLES**
[72] IDE, MATTHEW S., US
[72] MCCARTHY, STEPHEN J., US
[72] SCHLEICHER, GARY P., US
[73] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2018-06-26
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[54] **TRANSMISSION DEVICE, TRANSMISSION METHOD, RECEPTION DEVICE AND RECEPTION METHOD**
[54] **DISPOSITIF DE TRANSMISSION, PROCEDE DE TRANSMISSION, DISPOSITIF DE RECEPTION ET PROCEDE DE RECEPTION**
[72] TSUKAGOSHI, IKUO, JP
[73] SONY CORPORATION, JP
[85] 2018-06-26
[86] 2017-02-06 (PCT/JP2017/004146)
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[54] **VACUUM-BASED THERMAL MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION THERMIQUE FAISANT APPEL AU VIDE**
[72] PARNES, TAL, IL
[72] EADELSON, NAHSHON, IL
[73] ZUTA-CORE LTD., IL
[85] 2018-06-27
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[25] EN
[54] **CATALYTIC HYDROGENATION PROCESS FOR PREPARING PYRAZOLES**
[54] **PROCEDE D'HYDROGENATION CATALYTIQUE POUR LA PREPARATION DE PYRAZOLES**
[72] RACK, MICHAEL, DE
[72] SOERGEL, SEBASTIAN, DE
[72] GOCKEL, BIRGIT, DE
[72] GOETZ, ROLAND, DE
[72] KLAUBER, ERIC GEORGE, US
[73] BASF SE, DE
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[25] EN
[54] **BETAMETHASONE ORAL SPRAY FORMULATION AND METHOD OF USE TO TREAT ATAXIA**
[54] **FORMULATION DE BETAMETHASONE DESTINEE A UNE PULVERISATION PAR VOIE ORALE ET METHODE D'UTILISATION ASSOCIEE POUR LE TRAITEMENT DE L'ATAXIE**
[72] KOTTAYIL, S. GEORGE, US
[72] KUMAR, AMRESH, US
[72] SUNTHANKAR, PRASANNA, US
[72] KAVURU, VIMAL, US
[73] ACASTI PHARMA U.S., INC., US
[85] 2018-07-10
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[25] EN
[54] **SYSTEM, CARTRIDGE, BEVERAGE PREPARATION UNIT AND METHOD FOR PRODUCING A BEVERAGE**
[54] **SYSTEME, CARTOUCHE, UNITE DE PREPARATION DE BOISSON ET PROCEDE DE PREPARATION DE BOISSON**
[72] KRUGER, MARC, DE
[72] EMPL, GUNTER, DE
[72] FISCHER, DANIEL, CH
[73] FREEZIO AG, CH
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[86] 2017-01-12 (PCT/EP2017/050564)
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[54] **PREDICTIVE FREE COOLING**
[54] **PREDICTION DE REFROIDISSEMENT NATUREL**
[72] ERPELDING, BEN, US
[72] DEMPSTER, IAN, US
[72] CHEN, PENG, US
[72] MATTHYS, CLARK, US
[73] OPTIMUM ENERGY LLC, US
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[54] **METHODS AND APPARATUS FOR RADIO LINK MONITORING IN UNLICENSED COMMUNICATION CHANNELS**
[54] **PROCEDES ET APPAREIL POUR UNE SURVEILLANCE DE LIAISON RADIO DANS DES CANAUX DE COMMUNICATION NON AUTORISES**
[72] RADULESCU, ANDREI, US
[72] LUO, TAO, US
[72] PATEL, CHIRAG, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-07-11
[86] 2017-01-27 (PCT/US2017/015384)
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[54] **COMPENSATING FOR DISRUPTIONS IN BREATHING GAS FLOW MEASUREMENT**
[54] **COMPENSATION DES INTERRUPTIONS DANS UNE MESURE DE DEBIT DE GAZ RESPIRATOIRE**
[72] ACKER, JARON M., US
[72] TOLMIE, CRAIG R., US
[73] MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED, IE
[85] 2018-07-20
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[25] EN
[54] **5-ETHYL-4-METHYL-PYRAZOLE-3-CARBOXAMIDE DERIVATIVE HAVING ACTIVITY AS AGONIST OF TAAR**
[54] **DERIVE DE 5-ETHYL-4-METHYL-PYRAZOLE-3-CARBOXAMIDE AYANT UNE ACTIVITE EN TANT QU'AGONISTE DE TAAR**
[72] GALLEY, GUIDO, CH
[72] HOENER, MARIUS, CH
[72] NORCROSS, ROGER, CH
[72] PFLIEGER, PHILIPPE, CH
[73] F. HOFFMANN-LA ROCHE AG, CH
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[25] EN
[54] **COATING LIQUID FOR MICRONEEDLES, MICRONEEDLE-COATING SUBSTANCE, AND MICRONEEDLE ARRAY**
[54] **LIQUIDE DE REVETEMENT POUR MICRO-AIGUILLES, SUBSTANCE DE REVETEMENT DE MICRO-AIGUILLE ET ENSEMBLE DE MICRO-AIGUILLES**
[72] QUAN, YING-SHU, JP
[72] SAITO, MIO, JP
[72] KITAOKA, SHOUTA, JP
[72] KAMIYAMA, FUMIO, JP
[73] COSMED PHARMACEUTICAL CO., LTD., JP
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[54] **METHOD FOR OPERATING A DISPLAY DEVICE AND SYSTEM FOR DISPLAYING ACTUAL IMAGE CONTENTS OF AN ACTUAL ENVIRONMENT OVERLAID WITH VIRTUAL IMAGE CONTENTS**
[54] **PROCEDE DE FONCTIONNEMENT D'UN DISPOSITIF D'AFFICHAGE ET SYSTEME D'AFFICHAGE DE CONTENUS D'IMAGE VIRTUELS SUPERPOSES A DES CONTENUS D'IMAGE REELS D'UN ENVIRONNEMENT REEL**
[72] HAUBNER, MICHAEL, DE
[72] PABST, MANUEL, DE
[73] KRAUSS-MAFFEI WEGMANN GMBH & CO. KG, DE
[85] 2018-08-13
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[54] **METHODS AND SYSTEMS FOR DIGITAL REWARD PROCESSING**
[54] **PROCEDES ET SYSTEMES DE TRAITEMENT NUMERIQUE DE RECOMPENSES**
[72] ORTIZ, EDISON U., US
[72] VINTILA, IUSTINA-MIRUNA, RO
[73] ROYAL BANK OF CANADA, CA
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[54] **APPARATUS FOR APPLYING ELECTRIC PULSES TO LIVING MYOCARDIAL TISSUE**
[54] **APPAREIL POUR APPLIQUER DES IMPULSIONS ELECTRIQUES A UN TISSU MYOCARDIQUE VIVANT**
[72] SCHLEMMER, ALEXANDER, DE
[72] LILIENKAMP, THOMAS, DE
[72] BERG, SEBASTIAN, DE
[72] PARLITZ, ULRICH, DE
[72] LUTHER, STEFAN, DE
[73] MAX-PLANCK-GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V., DE
[85] 2018-08-15
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[54] **PATIENT MOVEMENT AND INCONTINENCE NOTIFICATION DEVICES**
[54] **DISPOSITIFS DE NOTIFICATION D'INCONTINENCE ET DE MOUVEMENT DE PATIENT**
[72] EDDY, PATRICK E., US
[72] KILCRAN, MICHAEL, US
[73] PARASOL MEDICAL, LLC, US
[85] 2018-08-16
[86] 2017-02-17 (PCT/US2017/018328)
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[25] EN
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[54] **COMMUNICATION D'UN SIGNAL DE REFERENCE DE RADIODIFFUSION**
[72] YANG, YANG, US
[72] JIANG, JING, US
[72] LUO, TAO, US
[72] LY, HUNG, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-08-21
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[25] EN
[54] **LIQUID LIGNIN COMPOSITION, LIGNIN-BASED RESIN, AND METHOD OF INCREASING THE SOLUBILITY OF LIGNIN**
[54] **COMPOSITION LIQUIDE DE LIGNINE, RESINE A BASE DE LIGNINE ET PROCEDE D'AUGMENTATION DE LA SOLUBILITE DE LA LIGNINE**
[72] ZAFAR, ASHAR, SE
[72] ARESKOGH, DIMITRI, SE
[72] EKSTROM, JESPER, SE
[73] STORA ENSO OYJ, FI
[85] 2018-08-30
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[54] **ENHANCED CANCER IMMUNOTHERAPY BY MICRONEEDLE PATCH-ASSISTED DELIVERY**
[54] **IMMUNOTHERAPIE ANTICANCEREUSE AMELIOREE PAR LE BIAIS D'UNE ADMINISTRATION PAR PATCH A MICRO-AIGUILLES**
[72] GU, ZHEN, US
[72] WANG, CHAO, US
[72] YE, YANQI, US
[73] NORTH CAROLINA STATE UNIVERSITY, US
[85] 2018-08-30
[86] 2017-03-01 (PCT/US2017/020135)
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[25] EN
[54] **INTEGRATED APPARATUS FOR PERFORMING NUCLEIC ACID EXTRACTION AND DIAGNOSTIC TESTING ON MULTIPLE BIOLOGICAL SAMPLES**
[54] **DISPOSITIF INTEGRE D'EXTRACTION DES ACIDES NUCLEIQUES ET DE TESTS DIAGNOSTIQUES SUR DES ECHANTILLONS BIOLOGIQUES MULTIPLES**
[72] WILLIAMS, JEFF, US
[72] WILSON, KERRY, US
[72] HANDIQUE, KALYAN, US
[73] HANDYLAB, INC., US
[86] (3017050)
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[25] EN
[54] **BEAM REFERENCE SIGNAL BASED NARROWBAND CHANNEL MEASUREMENT AND CQI REPORTING**
[54] **SIGNAL DE REFERENCE DE FAISCEAU BASE SUR UN RAPPORT CQI ET MESURE DE CANAL DE BANDE ETROITE**
[72] ISLAM, MUHAMMAD NAZMUL, US
[72] LUO, TAO, US
[72] SADIQ, BILAL, US
[72] CEZANNE, JUERGEN, US
[72] SUBRAMANIAN, SUNDAR, US
[72] LI, JUNYI, US
[73] QUALCOMM INCORPORATED, US
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[86] 2017-03-27 (PCT/US2017/024335)
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[30] US (62/324,861) 2016-04-19
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[25] EN
[54] **LIGHTED VEHICLE WASH DRYER ASSEMBLY CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE D'ENSEMBLE DE LAVAGE ET DE SECHAGE DE VEHICULES ECLAIRE**
[72] BELANGER, MICHAEL J., US
[73] WASHME PROPERTIES, LLC, US
[85] 2018-09-11
[86] 2017-03-13 (PCT/US2017/022071)
[87] (WO2017/156525)
[30] US (15/067,693) 2016-03-11

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[25] EN
[54] **BURNER BOX LINER FOR LOW NOX EMISSION FURNACE**
[54] **REVETEMENT DE CHAMBRE DE COMBUSTION POUR FOUR A FAIBLE EMISSION DE NOX**
[72] PEREZ, ERIC, US
[72] POIRIER, RANDAL, US
[72] CHANTHALANGSY, ERIC, US
[72] SCHNEIDER, STEVEN, US
[73] LENNOX INDUSTRIES INC., US
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[25] EN
[54] **AN APPARATUS AND METHOD TO LOCATE, MEASURE, MONITOR, AND TREAT INFLAMMATION OF THE SKIN'S SOFT TISSUE AND FASCIA LAYERS**
[54] **APPAREIL ET PROCEDE POUR LOCALISER, MESURER, SURVEILLER ET TRAITER UNE INFLAMMATION DES COUCHES DE TISSU MOU ET DE FASCIA DE LA PEAU**
[72] COWIE, JOCELYN WALKER, CA
[73] ASSESSX TECHNOLOGY LTD., CA
[85] 2018-09-18
[86] 2017-03-21 (PCT/CA2017/050360)
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[30] US (62/390,094) 2016-03-21

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[51] **Int.Cl. H04B 7/04 (2017.01)**
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[54] **ELECTRONIC DEVICE AND WIRELESS COMMUNICATION METHOD IN WIRELESS COMMUNICATION SYSTEM**
[54] **DISPOSITIF ELECTRONIQUE ET PROCEDE DE COMMUNICATION SANS FIL DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] HU, BINGSHAN, CN
[72] SUN, CHEN, CN
[73] SONY CORPORATION, JP
[85] 2018-09-19
[86] 2017-03-16 (PCT/CN2017/076930)
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[30] CN (201610202724.3) 2016-04-01

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[25] EN
[54] **APPLICATION UNITS TO ACTUATE AT LEAST ONE APPLICATOR ARM FOR PLACEMENT WITH RESPECT TO AGRICULTURAL PLANTS**
[54] **UNITES D'APPLICATION POUR ACTIONNER AU MOINS UN BRAS APPLICATEUR POUR LE PLACER PAR RAPPORT A DES PLANTES AGRICOLES**
[72] WILDERMUTH, PAUL, US
[72] STOLLER, JASON, US
[72] RADTKE, IAN, US
[73] PRECISION PLANTING LLC, US
[85] 2018-09-26
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[25] EN
[54] **METHOD FOR THE PREPARATION OF BIOSYNTHETIC DEVICE AND THEIR USES IN DIAGNOSTICS**
[54] **METHODE DE PREPARATION D'UN DISPOSITIF BIOSYNTHETIQUE ET UTILISATIONS DANS LES DIAGNOSTICS**
[72] MOLINA, FRANCK, FR
[72] COURBET, ALEXIS, FR
[72] SANTOS SCHNEIDER, FRANCISCO, FR
[73] SKILLCELL, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[73] CHU MONTPELLIER, FR
[85] 2018-10-05
[86] 2017-04-13 (PCT/IB2017/000683)
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[25] EN
[54] **OPTICAL ISOLATOR**
[54] **OPTOISOLATEUR**
[72] WATANABE, TOSHIAKI, JP
[73] SHIN-ETSU CHEMICAL CO., LTD., JP
[85] 2018-10-12
[86] 2017-03-31 (PCT/JP2017/013558)
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[51] **Int.Cl. C07D 493/04 (2006.01)**
[25] FR
[54] **PROCESS FOR MANUFACTURING DIANHYDROHEXITOL CRYSTALS WITH A STEP OF EVAPORATIVE CRYSTALLIZATION OF THE FIRST CRYSTALLIZATION MOTHER LIQUORS**
[54] **PROCEDE DE FABRICATION DE CRISTAUX DE DIANHYDROHEXITOL AVEC UNE ETAPE D'EVAPOCRISTALLISATION DES EAUX MERES DE PREMIERE CRISTALLISATION**
[72] WYART, HERVE, FR
[72] LESUR, THOMAS, FR
[72] IBERT, MATHIAS, FR
[73] ROQUETTE FRERES, FR
[85] 2018-10-16
[86] 2017-04-21 (PCT/FR2017/050947)
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[25] EN
[54] **METHOD OF OPERATING A DIFFERENTIAL PROTECTION SCHEME**
[54] **PROCEDE DE FONCTIONNEMENT D'UN SYSTEME DE PROTECTION DIFFERENTIELLE**
[72] WESTWOOD, JOHN, GB
[72] ZHANG, YANZHONG, GB
[73] GENERAL ELECTRIC TECHNOLOGY GMBH, CH
[85] 2018-10-11
[86] 2017-04-11 (PCT/EP2017/058664)
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[51] **Int.Cl. D21H 27/38 (2006.01) D21H 21/20 (2006.01)**
[25] EN
[54] **SOFT, LOW LINT, THROUGH AIR DRIED TISSUE AND METHOD OF FORMING THE SAME**
[54] **TISSU SOUPLE, SECHE A L'AIR TRAVERSANT, A FAIBLE TENEUR EN PELUCHE ET SON PROCEDE DE FORMATION**
[72] MILLER, BYRD TYLER, IV, US
[72] SEALEY, JAMES E., II, US
[73] FIRST QUALITY TISSUE, LLC, US
[85] 2018-10-23
[86] 2017-04-27 (PCT/US2017/029890)
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[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/23 (2019.01)**
[25] EN
[54] **DYNAMIC DEACTIVATION OF COLD DATABASE IN DATABASE SERVICE**
[54] **DESACTIVATION DYNAMIQUE D'UNE BASE DE DONNEES FROIDE DANS UN SERVICE DE BASE DE DONNEES**
[72] KALHAN, AJAY, US
[72] TALIUS, TOMAS, US
[72] ARORA, PANKAJ, US
[72] GUO, QUN, US
[72] XU, SHIZE, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2018-11-06
[86] 2017-06-27 (PCT/US2017/039351)
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[25] EN
[54] **OSCILLATOR WITH REDUCED ACCELERATION SENSITIVITY**
[54] **OSCILLATEUR AYANT UNE SENSIBILITE A L'ACCELERATION REDUITE**
[72] SAUR-BROSCH, ROLAND, DE
[73] KVG QUARTZ CRYSTAL TECHNOLOGY GMBH, DE
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[86] 2016-05-11 (PCT/DE2016/200222)
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[30] DE (10 2015 107 384.6) 2015-05-11
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[25] EN
[54] **USE OF SIROLIMUS TO TREAT EXUDATIVE AGE-RELATED MACULAR DEGENERATION WITH PERSISTENT EDEMA**
[54] **UTILISATION DU SIROLIMUS POUR TRAITER LA DEGENERESCENCE LIEE A L'AGE EXSUDATIVE AVEC UN OEDEME PERSISTANT**
[72] MATURI, RAJ K., US
[73] SANTEN PHARMACEUTICAL CO., LTD., JP
[85] 2018-11-22
[86] 2017-05-25 (PCT/JP2017/019551)
[87] (WO2017/204298)
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[51] **Int.Cl. C10G 49/12 (2006.01) C10G 49/26 (2006.01)**
[25] EN
[54] **DUAL CATALYST SYSTEM FOR EBULLATED BED UPGRADING TO PRODUCE IMPROVED QUALITY VACUUM RESIDUE PRODUCT**
[54] **SYSTEME CATALYSEUR DOUBLE DESTINE A L'ENRICHISSEMENT D'UN LIT BOUILLONNANT EN VUE DE PRODUIRE UN PRODUIT DE RESIDU SOUS VIDE DE QUALITE AMELIOREE**
[72] MOUNTAINLAND, DAVID, US
[72] SILVERMAN, BRETT M., US
[72] RUETER, MICHAEL, US
[72] SMITH, LEE, US
[73] HYDROCARBON TECHNOLOGY & INNOVATION, LLC, US
[85] 2018-11-22
[86] 2017-06-07 (PCT/US2017/036324)
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[25] EN
[54] **ANTI-HUMAN TROP-2 ANTIBODY HAVING AN ANTITUMOR ACTIVITY IN VIVO**
[54] **ANTICORPS ANTI-TROP-2 HUMAIN PRESENTANT UNE ACTIVITE ANTITUMORALE IN VIVO**
[72] NAKAMURA, KOJI, JP
[72] OKAMURA, KENTARO, JP
[72] TAMURA, MAKI, JP
[72] YANAI, HIROYUKI, JP
[72] KANKE, TORU, JP
[72] TSURUSHITA, NAOYA, US
[72] KUMAR, SHANKAR, US
[73] CHIOME BIOSCIENCE INC., JP
[86] (3027417)
[87] (3027417)
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[25] EN
[54] **METHOD OF SERVICING AN AIRCRAFT LANDING GEAR SHOCK ABSORBING STRUT**
[54] **METHODE D'ENTRETIEN DE JAMBE ANTICHOC DE TRAIN D'ATTERRISSAGE D'UN AERONEF**
[72] BROWN, ADAM, GB
[72] SMITH, JOHN, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (3027628)
[87] (3027628)
[22] 2018-12-13
[30] EP (17207026.0) 2017-12-13

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[25] EN
[54] **SEPARATION OF HYDROCARBONS FROM PARTICULATE MATTER USING SALT AND POLYMER**
[54] **SEPARATION D'HYDROCARBURES A PARTIR DE MATIERE PARTICULAIRE A L'AIDE D'UN SEL ET D'UN POLYMERE**
[72] LUPINSKY, ARON, US
[72] MILLER, BRUCE G., US
[72] PAINTER, PAUL C., US
[73] EXTRAKT PROCESS SOLUTIONS LLC, US
[85] 2018-12-14
[86] 2017-06-22 (PCT/US2017/038682)
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[25] EN
[54] **CANNABINOID FORMULATIONS**
[54] **FORMULATIONS DE CANNABINOIDES**
[72] WILKHU, JITINDER, GB
[72] BENDER, JOHAN, NL
[73] GW RESEARCH LIMITED, GB
[85] 2018-12-19
[86] 2017-06-30 (PCT/GB2017/051943)
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[25] FR
[54] **METHOD FOR PRODUCING FATTY ACID ESTERS AND GLYCEROL AT A LOW TEMPERATURE**
[54] **PROCEDE DE PRODUCTION D'ESTERS D'ACIDES GRAS ET DE GLYCEROL A BASSE TEMPERATURE**
[72] LACOSTE, FRANCOIS, FR
[72] THIEL, JULIEN, FR
[72] LAIR, VALENTIN, FR
[72] HALLOUMI, SAMY, FR
[73] EASYL, FR
[85] 2018-12-21
[86] 2017-06-30 (PCT/FR2017/051778)
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[25] EN
[54] **NANOBUBBLE GENERATING NOZZLE AND NANOBUBBLE GENERATOR**
[54] **BUSE PRODUISANT DES NANOBULLES ET GENERATEUR DE NANOBULLES**
[72] TSUCHIYA, YUKIHIRO, JP
[72] OTA, TOMOHIRO, JP
[72] GOTO, TAKAHUMI, JP
[73] AQUA SOLUTION CO., LTD., JP
[85] 2019-01-02
[86] 2016-11-17 (PCT/JP2016/084129)
[87] (WO2018/020701)
[30] JP (2016-148510) 2016-07-28

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[13] C
[51] **Int.Cl. G06F 7/00 (2006.01)**
[25] EN
[54] **ASSESSING ROBOTIC GRASPING**
[54] **EVALUATION DE SAISIE ROBOTISEE**
[72] ODHNER, LAEL, US
[72] JENTOFT, LEIF, US
[72] TENZER, YAROSLAV, US
[72] KECK, MARK, US
[72] HOWE, ROBERT, US
[73] ODHNER, LAEL, US
[73] JENTOFT, LEIF, US
[73] TENZER, YAROSLAV, US
[73] KECK, MARK, US
[73] HOWE, ROBERT, US
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[86] 2017-07-18 (PCT/US2017/042674)
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[30] US (62/363,446) 2016-07-18

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[25] EN
[54] **POWDERED BEEF FAT**
[54] **GRAISSE DE BOEUF EN POUDRE**
[72] PERDANA, JIMMY, DE
[72] BULLING, KATHARINA, DE
[72] MARAZZATO, MICHELE, CH
[72] TRAPPO, GREGORY, DE
[72] KJOLBY, CHRISTIAN, CH
[72] SAGALOWICZ, LAURENT, CH
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2019-01-24
[86] 2017-08-02 (PCT/EP2017/069530)
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[51] **Int.Cl. B22C 9/04 (2006.01) B22C 9/10 (2006.01) B22C 21/14 (2006.01)**
[25] FR
[54] **METHOD FOR CREATING A NONPERMANENT MODEL**
[54] **PROCEDE DE REALISATION D'UN MODELE NON PERMANENT**
[72] ROLLINGER, ADRIEN BERNARD VINCENT, FR
[72] VOLLEBREGT, MATHIEU JEAN LUC, FR
[72] TAMI LIZUZU, JOSEPH TOUSSAINT, FR
[72] HERB, VINCENT MARC, FR
[72] GUERCHE, DIDIER MAURICE MARCEAU, FR
[72] BOHLI, RAMZI, FR
[73] SAFRAN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
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[25] EN
[54] **SEPARATOR SYSTEM AND TAR REFORMER SYSTEM**
[54] **SYSTEME SEPARATEUR ET SYSTEME REFORMEUR DE GOUDRON**
[72] MADSEN, JORGEN, DK
[72] GAMBARINI, ERIK, DK
[72] LOGSTED-NIELSEN, ERIK, DK
[73] TOPSOE A/S, DK
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[86] 2017-08-22 (PCT/EP2017/071134)
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[51] **Int.Cl. H04L 27/26 (2006.01)**
[25] EN
[54] **BASE STATION, USER EQUIPMENT AND WIRELESS COMMUNICATION METHOD**
[54] **STATION DE BASE, EQUIPEMENT UTILISATEUR ET PROCEDE DE COMMUNICATION SANS FIL**
[72] WANG, LILEI, CN
[72] SUZUKI, HIDETOSHI, JP
[72] GOLITSCHEK EDLER VON ELBWART, ALEXANDER, DE
[73] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
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[25] EN
[54] **METHOD FOR PRODUCING A NUTRITIONAL COMPOSITION**
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION NUTRITIONNELLE**
[72] THEVENIER, ANNE, CH
[72] SCHUH, SUSANNE, CH
[72] KUSLYS, MARTINAS, CH
[72] RAN-RESSLER, RINAT, US
[72] RADE-KUKIC, KORALJKA, US
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
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[25] EN
[54] **COMPATIBILIZERS FOR POLYMER-NANOCELLULOSE COMPOSITES**
[54] **AGENTS DE COMPATIBILITE POUR COMPOSITES POLYMERE-NANOCELLULOSE**
[72] BANERJIE, ASIS, US
[72] NELSON, KIMBERLY, US
[73] API INTELLECTUAL PROPERTY HOLDINGS, LLC, US
[85] 2019-03-11
[86] 2016-09-16 (PCT/US2016/052034)
[87] (WO2017/049021)
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[25] EN
[54] **TREATMENT OF DERMAL DISORDERS COMPRISING A MTORC1 INHIBITOR**
[54] **NOUVEAUX COMPOSES, COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE TROUBLES CUTANES**
[72] SELL, CHRISTIAN, US
[72] NACARELLI, TIMOTHY, US
[72] AZAR, ASHLEY, US
[73] DREXEL UNIVERSITY, US
[85] 2019-03-19
[86] 2016-09-19 (PCT/US2016/052442)
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[51] **Int.Cl. A61F 7/02 (2006.01) A61F 7/08 (2006.01) A61F 7/10 (2006.01)**
[25] EN
[54] **A THERMAL PACK THAT APPROXIMATES A CURVED THREE-DIMENSIONAL SURFACE**
[54] **EMBALLAGE THERMIQUE AYANT UNE FORME SENSIBLEMENT IDENTIQUE A UNE SURFACE TRIDIMENSIONNELLE INCURVEE**
[72] WEINSTEIN, RANDY H., US
[73] WEINSTEIN, RANDY H., US
[85] 2019-03-21
[86] 2018-03-29 (PCT/US2018/025287)
[87] (WO2018/183769)
[30] US (PCT/US17/24871) 2017-03-29
[30] US (15/940,861) 2018-03-29

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[51] **Int.Cl. F24F 11/62 (2018.01)**
[25] EN
[54] **OPERATING AN HVAC SYSTEM TO REACH TARGET TEMPERATURE EFFICIENTLY**
[54] **FONCTIONNEMENT D'UN SYSTEME CVCA POUR ATTEINDRE LA TEMPERATURE CIBLE EFFICACEMENT**
[72] BRAHME, ROHINI, US
[72] IYENGAR, AJAY, US
[72] GOKHALE, UMESH, US
[73] LENNOX INDUSTRIES INC., US
[86] (3041319)
[87] (3041319)
[22] 2019-04-26
[30] US (15/980,182) 2018-05-15

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[51] **Int.Cl. C22C 19/05 (2006.01)**
[25] FR
[54] **SUPERALLOY BASED ON NICKEL, MONOCRYSTALLINE BLADE AND TURBOMACHINE**
[54] **SUPERALLIAGE A BASE DE NICKEL, AUBE MONOCRISTALLINE ET TURBOMACHINE**
[72] RAME, JEREMY, FR
[72] BELAYGUE, PHILIPPE, FR
[72] CARON, PIERRE, FR
[72] DELAUTRE, JOEL, FR
[72] JAQUET, VIRGINIE, FR
[72] LAVIGNE, ODILE, FR
[73] SAFRAN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[73] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, FR
[73] SAFRAN HELICOPTER ENGINES, FR
[85] 2019-04-23
[86] 2017-10-24 (PCT/FR2017/052918)
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[51] **Int.Cl. F16L 3/10 (2006.01) B64C 1/00 (2006.01) F16L 3/23 (2006.01) F16L 3/24 (2006.01)**
[25] EN
[54] **ELECTRICAL RACEWAY SYSTEM AND ASSOCIATED WIRE BUNDLE CLAMP SYSTEM AND METHOD**
[54] **SYSTEME DE CANALISATION ELECTRIQUE ET SYSTEME ET PROCEDE D'ATTACH E DE FAISCEAU DE FILS CONNEXE**
[72] MOHLMAN, SHAWN D., US
[73] THE BOEING COMPANY, US
[86] (3041504)
[87] (3041504)
[22] 2019-04-29
[30] US (16/031487) 2018-07-10

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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/5575 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **OPHTHALMIC COMPOSITION FOR LOWERING INTRAOCULAR PRESSURE**
[54] **COMPOSITION OPHTALMIQUE SERVANT A REDUIRE LA PRESSION INTRAOCULAIRE**
[72] LEE, JOON YOUB, KR
[72] SHIN, YOUN JAE, KR
[72] LEE, MIN JI, KR
[73] TAEJOON PHARMACEUTICAL CO., LTD., KR
[85] 2019-04-24
[86] 2017-06-28 (PCT/KR2017/006857)
[87] (WO2018/088663)
[30] KR (10-2016-0148858) 2016-11-09
[30] KR (10-2017-0002444) 2017-01-06

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[13] C
[51] **Int.Cl. H10N 30/80 (2023.01) H10N 30/057 (2023.01) H10N 30/85 (2023.01) B06B 1/06 (2006.01) G01F 1/66 (2022.01)**
[25] EN
[54] **THICKNESS MODE TRANSDUCERS AND RELATED DEVICES AND METHODS**
[54] **TRANSDUCTEURS EN MODE D'EPAISSEUR ET DISPOSITIFS ET PROCEDES ASSOCIES**
[72] BUCKLAND, JUSTIN RORKE, GB
[73] SENSUS USA, INC., US
[85] 2019-05-30
[86] 2017-12-07 (PCT/US2017/065010)
[87] (WO2018/106861)
[30] US (15/374,044) 2016-12-09

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[54] **VEHICLE MANAGEMENT SYSTEM**
[54] **SYSTEME DE CONTROLE DE VEHICULE**
[72] POEPPEL, SCOTT C., US
[72] LETWIN, NICHOLAS G., US
[72] KELLY, SEAN J., US
[73] UATC, LLC, US
[85] 2019-06-13
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[25] EN
[54] **SUPPLEMENTAL TECHNIQUES FOR CHARACTERIZING POWER QUALITY EVENTS IN AN ELECTRICAL SYSTEM**
[54] **AUTRES METHODES DE CARACTERISATION D`EVENEMENTS DE QUALITE ENERGETIQUE DANS UN SYSTEME ELECTRIQUE**
[72] BICKEL, JON A., US
[72] WALL, THERESA K., US
[73] SCHNEIDER ELECTRIC USA, INC., US
[86] (3048480)
[87] (3048480)
[22] 2019-07-02
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[30] US (62/770,730) 2018-11-21
[30] US (62/770,732) 2018-11-21
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[25] EN
[54] **ROTATING CONTROL DEVICE HAVING LOCKING PINS FOR LOCKING A BEARING ASSEMBLY**
[54] **DISPOSITIF DE COMMANDE DE ROTATION DOTE DE GOUPILLES DE VERROUILLAGE POUR VERROUILLER UN ENSEMBLE DE PALIERS**
[72] YOUSEF, FAISAL, US
[72] VU, TOMMY, US
[72] ELLIS, BRIAN, US
[73] NABORS DRILLING TECHNOLOGIES USA, INC., US
[86] (3049076)
[87] (3049076)
[22] 2019-07-10
[30] US (16/054984) 2018-08-03

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[25] EN
[54] **PREVENTION AND TREATMENT OF BONE AND CARTILAGE DAMAGE OR DISEASE**
[54] **PREVENTION ET TRAITEMENT D'UNE DEGRADATION OU D'UNE MALADIE CARTILAGINEUSE ET OSSEUSE**
[72] LUNDGREN AKERLUND, EVY, SE
[72] UVEBRANT, CHRISTINA, SE
[72] TALTS, JAN, SE
[73] XINTELA AB, SE
[85] 2019-07-11
[86] 2018-01-29 (PCT/EP2018/052104)
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[25] EN
[54] **METHOD FOR ANALYZING AND SELECTING A SPECIFIC DROPLET AMONG A PLURALITY OF DROPLETS AND ASSOCIATED APPARATUS**
[54] **PROCEDE D'ANALYSE ET DE SELECTION D'UNE GOUTTELETTE SPECIFIQUE PARMI UNE PLURALITE DE GOUTTELETTES ET APPAREIL ASSOCIE**
[72] REICHEN, MARCEL, CH
[72] DOINEAU, RAPHAEL CLEMENT LI-MING, FR
[72] ELLOUZE, SAMI, FR
[73] HIFIBIO SAS, FR
[85] 2019-07-17
[86] 2018-01-18 (PCT/EP2018/051245)
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[51] **Int.Cl. F24F 5/00 (2006.01) F24D 15/04 (2006.01)**
[25] EN
[54] **SINGLE-PIPE THERMAL ENERGY SYSTEM**
[54] **SYSTEME D'ENERGIE THERMIQUE A CONDUITE UNIQUE**
[72] ESLAMI-NEJAD, PARHAM, CA
[72] BASTANI, ARASH, CA
[72] GIGUERE, DANIEL, CA
[73] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES, CA
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[87] (3050895)
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[25] FR
[54] **METHOD FOR REMOVING A METAL ELEMENT BONDED TO AN ELEMENT MADE OF COMPOSITE MATERIAL**
[54] **PROCEDE POUR LE DECOLLEMENT D'UN ELEMENT METALLIQUE COLLE A UN ELEMENT EN MATERIAU COMPOSITE**
[72] CHARLAS, MATHIEU JULIEN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2019-07-25
[86] 2018-01-26 (PCT/FR2018/050177)
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[25] EN
[54] **DISTRIBUTING MACHINE AND METERING ELEMENT SUITABLE FOR SAID DISTRIBUTING MACHINE**
[54] **MACHINE DE DISTRIBUTION ET ELEMENT DE DOSAGE CORRESPONDANT**
[72] STOCKLIN, VOLKER, DE
[72] ZEITVOGEL, THOMAS, DE
[72] DOLL, FRANZ, DE
[73] RAUCH LANDMASCHINENFABRIK GMBH, DE
[85] 2019-08-01
[86] 2018-03-05 (PCT/EP2018/000085)
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[25] EN
[54] **METHODS AND SYSTEMS FOR PRODUCTION OF DOPED CARBON NANOMATERIALS**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION DE NANOMATERIAUX DE CARBONE DOPES**
[72] LICHT, STUART, US
[73] C2CNT LLC, US
[85] 2019-08-01
[86] 2018-02-21 (PCT/US2018/019035)
[87] (WO2018/156642)
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[25] EN
[54] **TARPAULIN CLAMP**
[54] **PINCE POUR BACHE**
[72] ZOLTEK, RICHARD J., CA
[73] ZOLTEK, RICHARD J., CA
[86] (3053820)
[87] (3053820)
[22] 2019-09-03
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[51] **Int.Cl. A41H 1/02 (2006.01) G06Q 30/0601 (2023.01) H04W 4/38 (2018.01) G01B 7/02 (2006.01)**
[25] EN
[54] **SIZE MEASURING DEVICE, MANAGING SERVER, USER TERMINAL AND SIZE MEASURING SYSTEM**
[54] **DISPOSITIF DE MESURE DE TAILLE, SERVEUR DE GESTION, TERMINAL D'UTILISATEUR ET SYSTEME DE MESURE DE TAILLE**
[72] MAEZAWA, YUSAKU, JP
[73] ZOZO, INC., JP
[85] 2019-08-30
[86] 2018-02-09 (PCT/JP2018/004684)
[87] (WO2018/159271)
[30] JP (2017-038102) 2017-03-01

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[51] **Int.Cl. H04W 16/14 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA IN A WIRELESS COMMUNICATION SYSTEM**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION ET DE RECEPTION DE DONNEES DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] LIU, JINHUA, CN
[72] LI, SHAOHUA, CN
[72] ZHANG, ZHAN, CN
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2019-09-18
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[25] EN
[54] **SIGNAL COMMUNICATION SYSTEM WHERE DISTRIBUTION OF SIGNALS IS MANAGED BY A DISTRIBUTION SYSTEM AND NOT BE SIGNAL NODES OR CLIENT NODES**
[54] **SYSTEME DE COMMUNICATION PAR SIGNAUX SELON LEQUEL UNE DISTRIBUTION DE SIGNAUX EST GEREE PAR UN SYSTEME DE DISTRIBUTION ET NON DES NOEUDS DE SIGNAUX NOEUDS CLIENTS**
[72] NIEDERFELD, GERHARD, DE
[72] ALTAN, NICOLA, DE
[73] ISTA INTERNATIONAL GMBH, DE
[85] 2019-09-24
[86] 2017-03-28 (PCT/EP2017/057288)
[87] (WO2018/177509)

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[51] **Int.Cl. B01D 53/52 (2006.01) C08K 5/3492 (2006.01) C08L 95/00 (2006.01)**
[25] EN
[54] **DISSOLUTION OF HEXAMINE IN NON-AQUEOUS SOLVENT**
[54] **DISSOLUTION DE L'HEXAMINE DANS UN SOLVANT NON AQUEUX**
[72] SOLOMON, KIM R., US
[73] ECOLAB USA INC., US
[85] 2019-09-26
[86] 2018-03-26 (PCT/US2018/024272)
[87] (WO2018/183158)
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[51] **Int.Cl. H01L 33/58 (2010.01) H01L 33/50 (2010.01) F21K 9/20 (2016.01)**
[25] EN
[54] **LOW REFRACTIVE INDEX NEODYMIUM FLUORIDE DOPED POLYCARBONATE**
[54] **POLYCARBONATE DOPE AU FLUORURE DE NEODYME A FAIBLE INDICE DE REFRACTION**
[72] YI, QING, CN
[72] HE, JIANMIN, US
[72] LIN, CHUAN, CN
[72] WANG, ZHIYONG, CN
[72] MURPHY, JAMES EDWARD, US
[72] CAI, DENGKE, US
[72] WU, XIAOYONG, CN
[73] SAVANT TECHNOLOGIES LLC, US
[85] 2019-10-01
[86] 2017-02-28 (PCT/CN2017/075209)
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[51] **Int.Cl. C07D 277/64 (2006.01) A61K 31/428 (2006.01) A61P 1/16 (2006.01) C07D 405/12 (2006.01)**
[25] EN
[54] **COVALENT SMALL MOLECULE DCN1 INHIBITORS AND THERAPEUTIC METHODS USING THE SAME**
[54] **INHIBITEURS COVALENTS A PETITES MOLECULES DE DCN1 ET PROCEDES THERAPEUTIQUES LES UTILISANT**
[72] WANG, SHAOMENG, US
[72] STUCKEY, JEANNE, US
[72] LIU, LIU, US
[72] LU, JIANFENG, US
[72] ZHOU, HAIBIN, US
[72] RUI, LIANGYOU, US
[72] SUN, YI, US
[73] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[85] 2019-10-04
[86] 2018-04-10 (PCT/US2018/026789)
[87] (WO2018/191199)
[30] US (62/483,640) 2017-04-10

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[25] EN
[54] **MECHANICAL DRIVE CONTROL FOR LOADERS**
[54] **COMMANDE D'ENTRAINEMENT MECANIQUE POUR CHARGEURS**
[72] ROSKE, CRAIG, US
[73] DOOSAN BOBCAT NORTH AMERICA, INC., US
[85] 2019-10-17
[86] 2018-04-19 (PCT/US2018/028303)
[87] (WO2018/195277)
[30] US (62/487,161) 2017-04-19

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[25] EN
[54] **THREADED CONNECTION FOR PIPES OR TUBES AND METHOD FOR PRODUCING THE THREADED CONNECTION FOR PIPES OR TUBES**
[54] **RACCORD FILETE POUR TUYAUX OU TUBES ET PROCEDE DE PRODUCTION D'UN RACCORD FILETE POUR TUYAUX OU TUBES**
[72] GOTO, KUNIO, JP
[73] NIPPON STEEL CORPORATION, JP
[73] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2019-11-20
[86] 2018-04-24 (PCT/JP2018/016582)
[87] (WO2018/216416)
[30] JP (2017-100546) 2017-05-22

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[25] EN
[54] **SWELLABLE FERTILIZER GRANULES CONTAINING ELEMENTAL SULFUR WITH INCREASED OXIDATION RATES**
[54] **GRANULES D'ENGRAIS GONFLABLES CONTENANT DU SOUFRE ELEMENTAIRE PRESENTANT DES TAUX D'OXYDATION ACCRUS**
[72] MCLAUGHLIN, MICHAEL, US
[72] DEGRYSE, JOZEFIEN, US
[72] BAIRD, ROSLYN, US
[72] DA SILVA, RODRIGO COQUI, US
[73] THE MOSAIC COMPANY, US
[85] 2019-11-21
[86] 2018-05-23 (PCT/US2018/034125)
[87] (WO2018/217888)
[30] US (62/510,080) 2017-05-23

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[25] EN
[54] **FLUID TREATMENT**
[54] **TRAITEMENT DE FLUIDE**
[72] COWLEY, RICHARD, ZA
[72] WILKINSON, DARREN, GB
[73] VEXO INTERNATIONAL (UK) LIMITED, GB
[85] 2019-11-22
[86] 2018-05-25 (PCT/GB2018/051429)
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[30] GB (1708380.9) 2017-05-25

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[51] **Int.Cl. G01F 15/07 (2006.01) G01F 3/06 (2006.01)**
[25] EN
[54] **SIDE VIEW FLUID METER COUNTER ASSEMBLY AND A FLUID METER WITH A SIDE COUNTER**
[54] **ENSEMBLE COMPTEUR POUR DEBITMETRE DE FLUIDE DE VUE LATERALE ET DEBITMETRE DE FLUIDE AVEC COMPTEUR LATERAL**
[72] SMICH, ANDREW, CA
[73] ROMET LIMITED, CA
[86] (3064849)
[87] (3064849)
[22] 2019-12-12
[30] US (62/860,978) 2019-06-13

[11] **3,066,131**
[13] C
[51] **Int.Cl. B60J 10/30 (2016.01)**
[25] EN
[54] **RUBBER EDGE SEAL RETENTION DEVICE**
[54] **DISPOSITIF DE RETENUE DE JOINT D'ETANCHEITE SUR RIVES EN CAOUTCHOUC**
[72] NICOLE, MARTIN, CA
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[86] (3066131)
[87] (3066131)
[22] 2019-12-24
[30] US (16/233,843) 2018-12-27

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[51] **Int.Cl. B23K 23/00 (2006.01) B23K 37/00 (2006.01) B23K 37/06 (2006.01)**
[25] EN
[54] **CONFIGURABLE EXOTHERMIC REACTION MOLD**
[54] **MOULE DE REACTION EXOTHERMIQUE CONFIGURABLE**
[72] STILWELL, CHARLES MITCHELL, US
[72] CEASS, RICHARD WALLACE, US
[72] RUFFIN, LOUIS WEBSTER, JR., US
[73] HUBBELL INCORPORATED, US
[85] 2019-12-11
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[30] US (62/525,820) 2017-06-28

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[51] **Int.Cl. B60W 30/06 (2006.01) B60W 50/14 (2012.01) B60R 21/00 (2006.01) B60W 30/08 (2012.01)**
[25] EN
[54] **PARKING CONTROL METHOD AND DEVICE**
[54] **METHODE ET DISPOSITIF DE CONTROLE AUX FINS DE STATIONNEMENT**
[72] KUWABARA, JUNICHI, JP
[72] SUZUKI, YASUHIRO, JP
[72] HAYAKAWA, YASUHISA, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2019-12-19
[86] 2017-06-23 (PCT/JP2017/023242)
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[51] **Int.Cl. C10G 2/00 (2006.01) C01B 3/38 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCING LIQUID FUELS FROM LANDFILL GASES**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION DE COMBUSTIBLES LIQUIDES A PARTIR DE GAZ DE DECHARGE**
[72] WALKER, DEVIN M., US
[72] KUHN, JOHN N., US
[72] JOSEPH, BABU, US
[72] ROBERGE, TIMOTHY, US
[72] GARDEZI, SYED ALI, US
[73] UNIVERSITY OF SOUTH FLORIDA, US
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[87] (WO2019/002803)

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[51] **Int.Cl. C10M 129/54 (2006.01)**
[25] EN
[54] **LUBRICATING OIL COMPOSITIONS CONTAINING DETERGENT COMPOUNDS**
[54] **COMPOSITIONS D'HUILE LUBRIFIANTE CONTENANT DES COMPOSES DETERGENTS**
[72] BOFFA, ALEXANDER BOWMAN, US
[72] HARTGERS, WALTER ALEXANDER, NL
[72] HOSSEINI, SEYEDEH MAHBOOBEH, US
[72] CAMPBELL, CURTIS BAY, US
[73] CHEVRON ORONITE COMPANY LLC, US
[73] CHEVRON ORONITE TECHNOLOGY B.V., NL
[85] 2019-12-30
[86] 2018-06-28 (PCT/IB2018/054806)
[87] (WO2019/003178)
[30] US (62/527,089) 2017-06-30

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[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **SPECIFIC HOPPING PATTERNS FOR REPEATED TRANSMISSION AND RECEPTION OF DATA AND METHODS FOR GENERATING THE SAME**
[54] **SCHEMA DE SAUT SPECIFIQUE POUR L'EMISSION ET LA RECEPTION REPETEES DE DONNEES ET PROCEDE DE PRODUCTION CORRESPONDANT**
[72] KNEISSL, JAKOB, DE
[72] BERNHARD, JOSEF, DE
[72] KILIAN, GERD, DE
[72] WECHSLER, JOHANNES, DE
[72] MEYER, RAIMUND, DE
[72] OBERNOSTERER, FRANK, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
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[86] 2018-07-03 (PCT/EP2018/067891)
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[30] DE (10 2017 211 375.8) 2017-07-04

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[13] C
[51] **Int.Cl. B01D 65/02 (2006.01) B01D 61/42 (2006.01) B01D 61/46 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR ASYMMETRIC POLARITY INVERSION IN ELECTROMEMBRANE PROCESSES**
[54] **PROCEDE ET APPAREIL D'INVERSION ASYMETRIQUE DE POLARITE DANS DES PROCEDES A ELECTROMEMBRANE**
[72] GONZALEZ VOGEL, ALVARO MAURICIO, CL
[72] JOUTSIMO, OLLI PEKKA, FI
[72] BORNHARDT BRACHMANN, KLAUS ERWIN, CL
[73] INVESTIGACIONES FORESTALES BIOFOREST S.A., CL
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[25] EN
[54] **AQUEOUS GELCASTING METHOD FOR CERAMIC PRODUCTS**
[54] **PROCEDE DE COULAGE EN GEL AQUEUX POUR PRODUITS CERAMIQUES**
[72] THOMAS, KURT J., US
[72] BRIDGETT, PAUL A. V., US
[72] VEROS, MICHAEL J., US
[72] ELMER, JOSEPH A., US
[72] DENNIS, NATHANAEL W., US
[73] DELTA FAUCET COMPANY, US
[85] 2020-02-07
[86] 2018-09-25 (PCT/US2018/052630)
[87] (WO2019/067439)
[30] US (62/563,345) 2017-09-26
[30] US (62/563,350) 2017-09-26

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[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **CONTROL INFORMATION SENDING/RECEIVING METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF D'ENVOI ET DE RECEPTION D'INFORMATIONS DE COMMANDE**
[72] XUE, LIXIA, CN
[72] ZHANG, XU, CN
[72] WANG, JIANGUO, CN
[72] QIN, YI, CN
[72] CAO, YONGZHAO, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-02-11
[86] 2018-07-27 (PCT/CN2018/097425)
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[30] CN (201710687956.7) 2017-08-11

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[25] EN
[54] **OPERATIONAL FLIGHT ENVELOPE MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE L'ENVELOPPE DE VOL OPERATIONNELLE**
[72] LEOPOLD, DAVID DANIEL, US
[73] THE BOEING COMPANY, US
[86] (3072802)
[87] (3072802)
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[30] US (16/353557) 2019-03-14

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[51] **Int.Cl. C23F 13/20 (2006.01) C25D 11/00 (2006.01)**
[25] EN
[54] **CATHODIC CORROSION PROTECTION WITH SOLAR PANEL**
[54] **PROTECTION CATHODIQUE CONTRE LA CORROSION AVEC PANNEAU SOLAIRE**
[72] WHITMORE, DAVID WILLIAM, CA
[73] WHITMORE, DAVID WILLIAM, CA
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[54] **REMOVABLE BATTERY COMPRESSION DEVICES**
[54] **DISPOSITIFS DE COMPRESSION DE BATTERIES DEMONTABLES**
[72] BERNHARDT, ROGER D., US
[73] THE BOEING COMPANY, US
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[87] (3074058)
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[25] EN
[54] **METHOD OF PRODUCING ROASTED OATS AND ROASTED OAT-BASED PEANUT BUTTER-FLAVORED COMPOSITIONS**
[54] **PROCEDE DE PRODUCTION D'AVOINE TORREFIEE ET COMPOSITIONS AU GOUT DE BEURRE DE CACAHUETE A BASE D'AVOINE TORREFIEE**
[72] GUGGER, ERIC T., US
[72] GALUSKA, PETE, US
[73] GENERAL MILLS, INC., US
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[25] EN
[54] **RECHARGEABLE BATTERY JUMP STARTING DEVICE WITH DEPLETED OR DISCHARGED BATTERY PRE-CONDITIONING SYSTEM**
[54] **DISPOSITIF DE DEMARRAGE DE SECOURS DE BATTERIE RECHARGEABLE DOTE D'UN SYSTEME DE PRE-CONDITIONNEMENT DE BATTERIE DECHARGEE OU EPUISEE**
[72] NOOK, JONATHAN LEWIS, US
[72] NOOK, WILLIAM KNIGHT, US
[72] STANFIELD, JAMES RICHARD, US
[72] UNDERHILL, DEREK MICHAEL, US
[73] THE NOCO COMPANY, US
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[30] US (62/561,850) 2017-09-22
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[30] US (62/569,243) 2017-10-06
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[54] **MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL**
[72] RIES, WOLFGANG, DE
[72] SCHENDZIELORZ, LARS, DE
[72] STEEGMULLER, RAINER, DE
[73] JOIMAX GMBH, DE
[85] 2020-04-06
[86] 2018-08-23 (PCT/EP2018/000412)
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[54] **IMMUNOPROTEASOME INHIBITORS**
[54] **INHIBITEURS D'IMMUNOPROTEASOME**
[72] LOU, YAN, US
[72] OWENS, TIMOTHY DUNCAN, US
[72] BRAMELD, KENNETH ALBERT, US
[72] GOLDSTEIN, DAVID MICHAEL, US
[73] PRINCIPIA BIOPHARMA INC., US
[85] 2020-04-29
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[25] EN
[54] **DIAPHRAGM CHECK VALVE**
[54] **CLAPET DE RETENUE A DIAPHRAGME**
[72] SHEVGOOR, SIDDARTH K., US
[73] CAREFUSION CORPORATION, US
[85] 2020-04-24
[86] 2018-11-07 (PCT/US2018/059653)
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[25] EN
[54] **SYRINGE ASSEMBLY WITH ION-EXCHANGE MATERIAL**
[54] **ENSEMBLE SERINGUE AVEC MATERIAU D'ECHANGE D'IONS**
[72] FRANSSON, JONAS, SE
[73] SWEDISH ORPHAN BIOVITRUM AB (PUBL), SE
[85] 2020-05-08
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[25] EN
[54] **COMBINATIONS OF BUPROPION AND DEXTROMETHORPHAN AND USES THEREOF FOR THE TREATMENT OF PAIN OR NEUROLOGICAL DISORDERS**
[54] **COMBINAISONS DE BUPROPION ET DE DEXTROMETHORPHANE ET UTILISATIONS CONNEXES POUR LE TRAITEMENT DE LA DOULEUR OU DE TROUBLES NEUROLOGIQUES**
[72] TABUTEAU, HERRIOT, US
[73] ANTECIP BIOVENTURES II LLC, US
[86] (3082645)
[87] (3082645)
[22] 2015-05-01
[62] 2,968,371
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[25] EN
[54] **MICRODEVICES WITH COMPLEX GEOMETRIES**
[54] **MICRODISPOSITIFS A GEOMETRIES COMPLEXES**
[72] MCHUGH, KEVIN, US
[72] JAKLENEC, ANA, US
[72] LANGER, ROBERT S., US
[73] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2020-05-14
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[25] EN
[54] **SEAL WITH RETAINING PROFILE**
[54] **JOINT D'ETANCHEITE AVEC PROFILE DE RETENUE**
[72] BUCK, DAVID A., US
[72] TODD, ANDY PAUL, US
[72] SYSAVATH, SYTHONH, US
[72] HURST, JON DAVID, US
[73] M & M OIL TOOLS, LLC, US
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[51] **Int.Cl. E04G 23/02 (2006.01) E04F 13/21 (2006.01)**
[25] EN
[54] **SNAP-TOGETHER STANDOFFS FOR RESTORING, REPAIRING, REINFORCING, PROTECTING, INSULATING AND/OR CLADDING STRUCTURES**
[54] **DOUILLES-ENTRETOISES A ENCLIQUETAGE POUR RESTAURER, REPARER, RENFORCER, PROTEGER, ISOLER ET/OU BARDER DES STRUCTURES**
[72] RICHARDSON, GEORGE DAVID, CA
[72] KRIVULIN, SEMION, CA
[73] CFS CONCRETE FORMING SYSTEMS INC., CA
[85] 2020-06-05
[86] 2018-12-21 (PCT/CA2018/051666)
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[25] EN
[54] **PROTECTION OF STEEL REINFORCED CONCRETE ELEMENTS**
[54] **PROTECTION D'ELEMENTS DE BETON ARME**
[72] GLASS, GARETH, GB
[72] DAVISON, NIGEL, GB
[72] ROBERTS, ADRIAN, GB
[73] GLASS, GARETH, GB
[73] DAVISON, NIGEL, GB
[73] ROBERTS, ADRIAN, GB
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[25] EN
[54] **BATTERY HOLDER, POWER TRANSFER DEVICE, ELECTRIC VEHICLE AND INSTALLATION METHOD FOR ELECTRIC VEHICLE**
[54] **SUPPORT DE BATTERIE, DISPOSITIF DE TRANSFERT D'ENERGIE, VEHICULE ELECTRIQUE ET PROCEDE D'INSTALLATION POUR VEHICULE ELECTRIQUE**
[72] ZHANG, JIANPING, CN
[72] HUANG, CHUNHUA, CN
[72] LAN, ZHIBO, CN
[73] SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., CN
[73] AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP, CN
[85] 2020-06-29
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[25] EN
[54] **MULTI-WAY ACOUSTIC WAVEGUIDE FOR A SPEAKER ASSEMBLY**
[54] **GUIDE D'ONDES ACOUSTIQUES A VOIES MULTIPLES POUR ENSEMBLE HAUT-PARLEUR**
[72] HALLEY, JEROME, US
[72] SMOLEN, CHRIS, US
[73] QSC, LLC, US
[85] 2020-06-30
[86] 2019-01-09 (PCT/US2019/012940)
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[51] **Int.Cl. B30B 9/24 (2006.01) A22C 17/04 (2006.01)**
[25] EN
[54] **SOFT MATERIAL SEPARATOR WITH FILL-LEVEL-DEPENDENT ADJUSTMENT OF SPEED AND METHOD FOR OPERATING SUCH A SOFT MATERIAL SEPARATOR**
[54] **SEPARATEUR DE SUBSTANCES MOLLES AYANT UNE ADAPTATION DE LA VITESSE DEPENDANTE DU NIVEAU DE REMPLISSAGE ET PROCEDE POUR FAIRE FONCTIONNER UN TEL SEPARATEUR DE SUBSTANCES MOLLES**
[72] GUNTHER, HOPPE, DE
[73] MODERNPACK HOPPE GMBH, DE
[85] 2020-07-24
[86] 2018-10-30 (PCT/EP2018/079679)
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[25] EN
[54] **RATCHET LOAD BINDER WITH TWO HANDLES**
[54] **TENDEUR A CHAINE A ROCHET AYANT DEUX POIGNEES**
[72] MARTENS, KOEN, BE
[73] MARTENS, KOEN, BE
[85] 2020-07-30
[86] 2018-02-06 (PCT/EP2018/052941)
[87] (WO2019/154478)

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[51] **Int.Cl. F25B 49/02 (2006.01) F24F 3/153 (2006.01) F25B 6/00 (2006.01)**
[25] EN
[54] **VARIABLE REFRIGERANT FLOW SYSTEM**
[54] **SYSTEME DE DEBIT VARIABLE DE FRIGORIGENE**
[72] HUNG, DER-KAI, US
[72] LAN, LIN, US
[72] DRURY, CHRISTOPHER JOHN, US
[73] LENNOX INDUSTRIES INC., US
[86] (3090510)
[87] (3090510)
[22] 2020-08-19
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[13] C
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[25] EN
[54] **CENTERING APPARATUS FOR HOPPER CAR DOORS**
[54] **APPAREIL DE CENTRAGE POUR PORTES DE WAGON-TREMIE**
[72] HERZOG, JACOB D., US
[72] SHIRK, TONY, US
[72] MARSHALL, DANIEL T., US
[72] BEDINGFIELD, STEPHEN, US
[72] LANDES, NATHAN A., US
[72] STAIHR, MICHAEL, US
[72] SMITH, DAVID, US
[73] HERZOG RAILROAD SERVICES, INC., US
[86] (3090584)
[87] (3090584)
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[25] EN
[54] **TRANSPARENCY INCLUDING CONDUCTIVE MESH**
[54] **TRANSPARENT AVEC MAILLE CONDUCTRICE**
[72] UPRETY, KRISHNA K., US
[72] BIMANAND, ALEXANDER, US
[72] LAKDAWALA, KHUSHROO H., US
[73] PPG INDUSTRIES OHIO, INC., US
[86] (3090809)
[87] (3090809)
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[25] EN
[54] **3,4-DIHYDROISOQUINOLIN-2(1H)-YL DERIVATES USEFUL AS INHIBITORS OF PROTEIN ARGININE METHYLTRANSFERASE 5 (PRMT5), AND PHARMACEUTICAL PRODUCTS THEREOF**
[54] **DERIVES DE 3,4-DIHYDROISOQUINOLEIN-2(1H)-YLE UTILES COMME INHIBITEURS DE LA METHYLTRANSFERASE D'ARGININE DE PROTEINE 5 (PRMT) ET PRODUITS PHARMACEUTIQUES CONNEXES**
[72] LIU, LIU, US
[72] LI, JIN, CN
[72] YANG, MINMIN, CN
[73] PHARMABLOCK SCIENCES (NANJING), INC., CN
[85] 2020-08-06
[86] 2019-03-08 (PCT/US2019/021497)
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[30] US (62/641,241) 2018-03-09

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[25] EN
[54] **ANTI-NGF ANTIBODIES AND METHODS THEREOF**
[54] **ANTICORPS ANTI-NGF ET PROCEDES ASSOCIES**
[72] STEINIGER, SEBASTIAN C. J., US
[72] DUNKLE, WILLIAM, US
[72] RUGG, CATHERINE, AU
[72] DUNHAM, STEVEN A., US
[73] ZOETIS SERVICES LLC, US
[85] 2020-09-11
[86] 2019-01-18 (PCT/US2019/014113)
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[30] US (62/641,538) 2018-03-12

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[51] **Int.Cl. H01L 21/302 (2006.01) H01L 29/778 (2006.01)**
[25] EN
[54] **SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF**
[54] **DISPOSITIF A SEMICONDUCTEUR ET SON PROCEDE DE FABRICATION**
[72] SUN, QIAN, CN
[72] SU, SHUAI, CN
[72] ZHOU, YU, CN
[72] ZHONG, YAOZONG, CN
[72] GAO. HONGWEI, CN
[72] LIU, JIANXUN, CN
[72] ZHAN, XIAONING, CN
[72] FENG, MEIXIN, CN
[72] YANG, HUI, CN
[73] JIANGXI YUHONGJIN MATERIAL TECHNOLOGY CO., LTD., CN
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[86] 2019-12-31 (PCT/CN2019/130362)
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[25] EN
[54] **LED PLANT GROWTH LAMP LIGHT SPECTRUM**
[54] **SPECTRE DE LUMIERE DE LAMPE A DEL POUR LA CROISSANCE DES PLANTES**
[72] LI, YANG, CN
[72] LIU, GUOJIE, CN
[72] MA, JIAN, CN
[72] NING, QIUSHI, CN
[72] CHEN, HENGSHENG, CN
[72] MENG, LINPING, CN
[72] WANG, ZHI, CN
[73] FUJIAN SANAN SINO-SCIENCE PHOTOBIOTECH CO., LTD., CN
[85] 2020-09-23
[86] 2019-04-10 (PCT/CN2019/082028)
[87] (WO2020/164179)
[30] CN (201910117768.X) 2019-02-15
[30] CN (201910281660.4) 2019-04-09

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[25] EN
[54] **BLOCKER FOR A GOALIE**
[54] **GANT BLOQUEUR POUR UN GARDIEN DE BUT**
[72] VAILLANCOURT, CHARLES, CA
[73] BAUER HOCKEY LTD., CA
[86] (3096085)
[87] (3096085)
[22] 2020-10-09
[30] US (62/913,977) 2019-10-11

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[51] **Int.Cl. B09B 3/35 (2022.01) B09B 3/00 (2022.01) C22B 7/00 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **A PROCESS, APPARATUS, AND SYSTEM FOR RECOVERING MATERIALS FROM BATTERIES**
[54] **PROCEDE, APPAREIL ET SYSTEME DE RECUPERATION DE MATERIAUX A PARTIR DE BATTERIES**
[72] KOCHHAR, AJAY, CA
[72] JOHNSTON, TIMOTHY GEORGE, CA
[73] LI-CYCLE CORP., CA
[86] (3096116)
[87] (3096116)
[22] 2018-05-30
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[30] US (62/512,460) 2017-05-30
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[51] **Int.Cl. C07K 16/00 (2006.01) C07K 7/08 (2006.01) C07K 16/42 (2006.01) G01N 33/564 (2006.01)**
[25] EN
[54] **NOVEL EPITOPE OF IMMUNOGLOBULIN E, ANTIBODY BINDING THERETO, AND KIT FOR ANALYZING IMMUNOGLOBULIN E IN SAMPLE CONTAINING SAME**
[54] **NOUVEL EPITOPE DE L'IMMUNOGLOBULINE E, ANTICORPS SE LIANT A CELUI-CI, ET KIT D'ANALYSE DE L'IMMUNOGLOBULINE E DANS UN ECHANTILLON CONTENANT CELLE-CI**
[72] KIM, BONG HUI, KR
[72] PARK, EUN YOUNG, KR
[72] JANG, HA KYUNG, KR
[72] HONG, KWANG WON, KR
[73] SLSBIO CO., LTD., KR
[85] 2020-10-06
[86] 2019-04-05 (PCT/KR2019/004104)
[87] (WO2019/194656)
[30] KR (10-2018-0040605) 2018-04-06

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[51] **Int.Cl. B41F 5/00 (2006.01) B41F 5/04 (2006.01) B41F 5/24 (2006.01) B41F 13/00 (2006.01) B41F 13/08 (2006.01) B41F 13/30 (2006.01)**
[25] EN
[54] **ANTI-BOUNCE PRINT DECK FOR FLEXOGRAPHIC PRINTING PRESS**
[54] **PLATEAU D'IMPRESSION ANTI-REBOND POUR UNE MACHINE D'IMPRESSION FLEXOGRAPHIQUE**
[72] ZEMAN, DALE E., US
[72] KOPLIEN, JORDAN W., US
[72] KAYE, JAMES J., US
[72] HEYRMAN, RANDALL L., US
[73] PAPER CONVERTING MACHINE COMPANY, US
[85] 2020-10-09
[86] 2019-04-11 (PCT/US2019/026881)
[87] (WO2019/212709)
[30] US (62/666,274) 2018-05-03

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[13] C
[51] **Int.Cl. F21K 9/238 (2016.01) F21K 9/23 (2016.01)**
[25] EN
[54] **LED LAMP**
[54] **LAMPE A DIODE ELECTROLUMINESCENTE**
[72] REN, XIAOJUN, CN
[72] XIAO, KUN, CN
[72] MALLERY, JON, US
[72] HUANG, HAI, CN
[72] GAO, CHUNXIAO, CN
[73] SAVANT TECHNOLOGIES LLC, US
[86] (3097887)
[87] (3097887)
[22] 2020-11-03
[30] CN (2019219879447) 2019-11-18

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[13] C
[51] **Int.Cl. H05B 45/50 (2022.01)**
[25] EN
[54] **DEVICE AND CIRCUIT FOR PROTECTING CONTROLLED LOADS, AND APPARATUS FOR SWITCHING BETWEEN LOADS**
[54] **DISPOSITIF ET CIRCUIT POUR PROTEGER LES CHARGES CONTROLEES ET LES APPAREILS POUR PASSE D'UNE CHARGE A L'AUTRE**
[72] WANG, PENGFEI, CN
[72] ZHOU, XIN, CN
[72] WANG, FANBIN, CN
[72] LIU, CHENGBIN, CN
[73] SAVANT TECHNOLOGIES LLC, US
[86] (3097889)
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[22] 2020-11-03
[30] CN (2019112298902) 2019-12-04

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[13] C
[51] **Int.Cl. G06Q 20/00 (2012.01)**
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[54] **SYSTEMS AND METHODS FOR AIDING TAX COMPLIANCE**
[54] **SYSTEMES ET PROCEDES D'ASSISTANCE A LA CONFORMITE FISCALE**
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[72] MCINTRYE, IRISH, US
[73] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
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[54] **SOLID DOSAGE FORMS WITH HIGH ACTIVE AGENT LOADING**
[54] **FORMES POSOLOGIQUES SOLIDES A CHARGEMENT D'AGENT ACTIF ELEVE**
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[72] MUDIE, DEANNA, BE
[72] SHEPARD, KIMBERLY, BE
[73] CAPSUGEL BELGIUM NV, BE
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[54] **FLUID COLLECTION DEVICES, RELATED SYSTEMS, AND RELATED METHODS**
[54] **DISPOSITIFS DE COLLECTE DE FLUIDE, SYSTEMES ASSOCIES, ET PROCEDES ASSOCIES**
[72] SPECTOR, MARK, US
[73] PUREWICK CORPORATION, US
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[54] **UNIT-DOSE ORAL CARE COMPOSITIONS**
[54] **COMPOSITIONS DE SOINS BUCCO-DENTAIRES A DOSE UNITAIRE**
[72] MAO, MIN, US
[72] BAIG, ARIF ALI, US
[72] GORDON, GREGORY CHARLES, US
[72] PAYNE, MELISSA CHERIE, US
[72] RAUCKHORST, HOLLY BALASUBRAMANIAN, US
[72] SAGEL, PAUL ALBERT, US
[72] SWARTZ, JEANETTE MARIE, US
[72] TROKHAN, PAUL D., US
[72] CROLL, BRIAN PATRICK, US
[72] NYANGIRO, DINAH ACHOLA, US
[72] HAN, KUO C., US
[73] THE PROCTER & GAMBLE COMPANY, US
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[54] **SHOWER PAN INCLUDING MOLDED RIB STRUCTURE HAVING VARYING THICKNESS**
[54] **CUVETTE DE DOUCHE COMPRENANT UNE STRUCTURE DE NERVURE MOULEE DE DIFFERENTES EPAISSEURS**
[72] FERRIS, JEFFREY D., US
[73] DELTA FAUCET COMPANY, US
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[54] **ARTICLE DE CONTENTION**
[72] PLATZ, SASCHA, DE
[72] FRANKENBERG, BERNHARD, DE
[72] BAUER, JOACHIM, DE
[73] BSN-JOBST GMBH, DE
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[54] **MULTIPLE FUNCTION SHOWER SYSTEMS FACILITATING LOW ACTUATION FORCE MODE SWITCHING**
[54] **SYSTEMES DE DOUCHE A FONCTIONS MULTIPLES FACILITANT LA COMMUTATION DE MODE A FAIBLE FORCE D'ACTIONNEMENT**
[72] WALES, JOSHUA DREW, US
[72] LEE, DAVID, US
[73] DELTA FAUCET COMPANY, US
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[87] (3102472)
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[54] **BLOWING AGENT BLENDS**
[54] **MELANGES D'AGENTS GONFLANTS**
[72] KONTOMARIS, KONSTANTINOS, US
[73] THE CHEMOURS COMPANY FC, LLC, US
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[54] **DENTIFRICE FORMULATIONS HAVING SPHERICAL STANNOUS COMPATIBLE SILICA PARTICLES FOR REDUCED RDA**
[54] **FORMULATIONS DE DENTIFRICE COMPRENANT DES PARTICULES SPHERIQUES DE SILICE STANNO-COMPATIBLES POUR UNE RDA REDUITE**
[72] DOLAN, LAWRENCE EDWARD, US
[72] MIDHA, SANJEEV, US
[72] SCHNEIDERMAN, EVA, US
[72] GALLIS, KARL WILLIAM, US
[72] HAGAR, WILLIAM JACKSON, US
[72] NASSIVERA, TERRY WILLIAM, US
[73] THE PROCTER & GAMBLE COMPANY, US
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[54] **CABLES METALLIQUES BI-MODULES**
[72] CORNILLE, RICHARD, FR
[72] BARGUET, HENRI, FR
[72] ROTY, GAEL, FR
[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
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[54] **COMPONENTS FOR MEDICAL CIRCUITS**
[54] **ELEMENTS POUR CIRCUITS MEDICAUX**
[72] GIERKE, TIMOTHY DEE, US
[72] HERMEZ, LAITH ADEEB, NZ
[72] ORCHARD, KIERAN MICHAEL, NZ
[73] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
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[54] **METHOD AND SYSTEM FOR INSTALLING BIRD FLIGHT DIVERTERS**
[54] **METHODE ET SYSTEME POUR INSTALLER DES BARRIERES DE DEVIATION DU VOL DES OISEAUX**
[72] CLARKE, DANIEL JOHN, CA
[72] KRIVELES, ROMAS, CA
[73] FT HOLDINGS INC., CA
[86] (3109306)
[87] (3109306)
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[54] **THZ MEASURING APPARATUS AND THZ MEASURING METHOD FOR DETECTING IMPURITIES IN MEASURED OBJECTS**
[54] **DISPOSITIF DE MESURE THZ ET PROCEDE DE MESURE THZ POUR DETECTER DES DEFAUTS DANS DES OBJETS DE MESURE**
[72] KLOSE, RALPH, DE
[73] INOEX GMBH INNOVATIONEN UND AUSRUSTUNGEN FUR DIE EXTRUSIONSTECHNIK, DE
[85] 2021-03-01
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[25] EN
[54] **UNIQUE IDENTITIES OF ENDPOINTS ACROSS LAYER 3 NETWORKS**
[54] **IDENTITES UNIQUES DE TERMINAUX SUR DES RESEAUX DE COUCHE 3**
[72] PETERSON, ANNIKA LEE LOUISE, US
[72] WONG, EDMUND L., US
[73] CISCO TECHNOLOGY, INC., US
[85] 2021-03-02
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[54] **VIRUS-BASED REPLICON FOR PLANT GENOME EDITING WITHOUT INSERTING REPLICON INTO PLANT GENOME AND USE THEREOF**
[54] **REPLICON A BASE DE VIRUS POUR L'EDITION DE GENOME SANS INSERTION DE REPLICON DANS LE GENOME D'UNE PLANTE, ET SON UTILISATION**
[72] KIM, JAE YEAN, KR
[72] VU, TIEN VAN, KR
[72] KIM, JIHAE, KR
[72] JEONG, SE JEONG, KR
[72] KIM, HYUN JEONG, KR
[72] PARK, SEO-JIN, KR
[72] TRAN, MIL THI, KR
[72] SIVANKALYANI, VELU, KR
[72] SUNG, YEON WOO, KR
[72] DOAN, THI HAI DUONG, KR
[72] PRAMANIK, DIBYAJYOTI, KR
[72] SHELAKE, MAHADEV RAHUL, KR
[72] SON, GEON HUI, KR
[73] INDUSTRY-ACADEMIC COOPERATION FOUNDATION GYEONGSANG NATIONAL UNIVERSITY, KR
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[25] EN
[54] **ZONE ENGINE FOR PROVIDING CONTEXT-AUGMENTED MAP LAYER**
[54] **MOTEUR DE ZONES DESTINE A FOURNIR UNE COUCHE DE CARTE ENRICHIE EN CONTEXTE**
[72] WHITAKER, MATTHEW, US
[72] POWERS, BRADLEY, US
[72] JOHNSON, MICHAEL CHARLES, US
[72] JOHNSON, SEAN, US
[72] MOORE, THOMAS, GB
[73] LOCUS ROBOTICS CORP., US
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[25] EN
[54] **NON-INVASIVE PROCESS FLUID TEMPERATURE INDICATION FOR HIGH TEMPERATURE APPLICATIONS**
[54] **INDICATION NON INVASIVE DE TEMPERATURE DE FLUIDE DE TRAITEMENT POUR DES APPLICATIONS A HAUTE TEMPERATURE**
[72] RUD, JASON H., US
[73] ROSEMOUNT INC, US
[85] 2021-03-23
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[25] EN
[54] **ARTIFICIAL INTELLIGENCE MODELING TO PREDICT ELECTRONIC ACCOUNT DATA**
[54] **MODELISATION PAR INTELLIGENCE ARTIFICIELLE POUR PREVOIR LES DONNEES DE COMPTE ELECTRONIQUE**
[72] NOSRATI, SEYED MASOUD, CA
[72] VAHLIS, EVGENE, CA
[72] SHAHIR, SEYED HAMED YAGHOUBI, CA
[72] ZHAO, BO, CA
[72] LANGBALLE, NICOLE, CA
[72] POON, PETER, CA
[73] BANK OF MONTREAL, CA
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[54] **AUTOMATED ARCHITECTURAL SPECIFICATION GENERATION AND HARDWARE IDENTIFICATION**
[54] **GENERATION AUTOMATISEE DE SPECIFICATIONS ARCHITECTURALES ET IDENTIFICATION DE MATERIEL**
[72] PROSTKO, ROBERT S., US
[72] MARTENS, ROBERT C., US
[72] HEITZMAN, NICK, US
[72] DAY, KRISTIN, US
[72] MADSEN, MARTIN, US
[72] KORNAKER, JASON, US
[72] LANGENBERG, DANIEL, US
[72] EICKHOFF, BRIAN C., US
[72] BAXTER, SCOTT, US
[72] BAUMGARTE, JOSEPH W., US
[72] HOPKINS, BENJAMIN, US
[72] SCHEIB, JACOB, US
[72] KOTTLOWSKI, STEVEN J., US
[73] SCHLAGE LOCK COMPANY LLC, US
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[25] EN
[54] **HUMAN DIETARY SUPPLEMENT AND METHOD FOR TREATING DIGESTIVE SYSTEM AND IMMUNE-RELATED DISORDERS**
[54] **COMPLEMENT ALIMENTAIRE DESTINE A LA CONSOMMATION HUMAINE ET PROCEDE DE TRAITEMENT DE SYSTEME DIGESTIF ET DE TROUBLES LIES A L'IMMUNITE**
[72] ANDERSON, SCOTT, US
[72] HALL, JOHN, US
[72] YOHO, MARK, US
[73] FREEDOM HEALTH, LLC, US
[85] 2021-04-09
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[54] **OUTIL D'ENROULEMENT RAPIDE DE TREUIL DE CHARGEMENT A SANGLES**
[72] JONES, STUART, CA
[73] JONES, STUART, CA
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[54] **ARTICLES MULTICOUCHES DISPERSIBLES DANS L'EAU**
[72] KNIGHT, JONATHON, US
[72] MIRANDA, NATE, US
[73] MONOSOL, LLC, US
[85] 2021-04-21
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[54] **ALERTING, DIAGNOSING, AND TRANSMITTING COMPUTER ISSUES TO A TECHNICAL RESOURCE IN RESPONSE TO A DEDICATED PHYSICAL BUTTON OR TRIGGER**
[54] **ALERTE, DIAGNOSTIC ET TRANSMISSION DE PROBLEMES INFORMATIQUES A UNE RESSOURCE TECHNIQUE EN REPONSE A UN BOUTON OU DECLENCHEUR PHYSIQUE DEDIE**
[72] PERMENTER, ALEXANDER, US
[72] WHEELER, CHRISTOPHER, US
[73] PERMENTER, ALEXANDER, US
[73] WHEELER, CHRISTOPHER, US
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[54] **SYSTEM AND METHOD FOR DETERMINING VEHICLE POSITION BY TRIANGULATION**
[54] **SYSTEME ET METHODE DE DETERMINATION D'UNE POSITION DE VEHICULE PAR TRIANGULATION**
[72] STAATS, ANDREW RYAN, US
[72] BARR, STUART JOHN, US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
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[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR USE WITH AEROSPACE PARTS**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES A UTILISER AVEC DES PIECES AEROSPATIALES**
[72] FLOOD, MITCH, US
[72] BARNHART, TYLER, US
[72] NEWELL, RICHARD PAUL, US
[73] ORIZON AEROSTRUCTURES, LLC, US
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[54] **SYSTEMES DE FOURNITURE DE VAPEUR**
[72] POTTER, MARK, GB
[73] NICOVENTURES TRADING LIMITED, GB
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[54] **DOSETTE DE CAFE A UTILISER DANS UNE MACHINE A CAFE**
[72] BROUWER, GUSTAAF FRANS, NL
[72] DE GRAAF, GERBRAND KRISTIAAN, NL
[72] MOORMAN, CHRISTIAAN J. M., NL
[73] KONINKLIJKE DOUWE EGBERTS B.V., NL
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[54] **FIXATION RACCOURCIE AVEC HAUTEUR DE FILETAGE CONTROLEE LOCALEMENT**
[72] GARVER, MICHAEL A., US
[73] MATHREAD INC., US
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[54] **PREPARATION COMPRENANT UNE DISPERSION DE PHOSPHOLIPIDES ET DE SELS D'ACIDE GRAS**
[72] SCHILLING, MARTIN, DE
[72] GOMEZ, MARIO, DE
[72] SPECKMANN, BODO, DE
[72] BENEDIKT, ANNE, DE
[72] KESSLER, CHRISTIAN, DE
[72] WINDHAB, NORBERT, DE
[72] OCHROMBEL, INES, DE
[73] EVONIK OPERATIONS GMBH, DE
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[54] **BARRE DE LEVAGE**
[72] MORENO, VICTOR, CL
[72] LARA, HECTOR, CL
[72] PINTO, ALONSO, CL
[73] VULCO S.A., CL
[85] 2021-05-27
[86] 2019-12-13 (PCT/IB2019/060751)
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[30] GB (1821262.1) 2018-12-28

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[54] **ELECTROMAGNETIC POSITION MEASUREMENT SYSTEM WITH SENSOR PARASITIC LOOP COMPENSATION**
[54] **SYSTEME DE MESURE D'UNE POSITION ELECTROMAGNETIQUE AVEC COMPENSATION DE LA BOUCLE PARASITE DU CAPTEUR**
[72] ASHE, WESTLEY S., US
[72] BRUNNER, GEORG, DE
[73] NORTHERN DIGITAL, INC., CA
[86] (3121661)
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[22] 2021-06-09
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[25] EN
[54] **METHOD AND APPARATUS FOR TRACKING ONE OR MORE PLANTS AND/OR PLANT BASED PRODUCTS AND/OR TRACKING THE SALE OF PRODUCTS DERIVED FROM THE SAME, UTILIZING RFID TECHNOLOGY**
[54] **PROCEDE ET APPAREIL DE SUIVI D'UNE OU DE PLUSIEURS PLANTES ET/OU DE PRODUITS A BASE DE PLANTES ET/OU DE SUIVI DE LA VENTE DE PRODUITS DERIVES DE CEUX-CI, UTILISANT LA TECHNOLOGIE RFID**
[72] DAGDELEN UYSAL, DILEK, US
[72] WELLS, JEFFREY LANE, US
[73] METRC LLC, US
[86] (3122237)
[87] (3122237)
[22] 2015-06-12
[62] 2,952,024
[30] US (62/011,463) 2014-06-12

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[51] **Int.Cl. G06K 19/07 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRACKING ONE OR MORE PLANTS AND/OR PLANT BASED PRODUCTS AND/OR TRACKING THE SALE OF PRODUCTS DERIVED FROM THE SAME, UTILIZING RFID TECHNOLOGY**
[54] **PROCEDE ET APPAREIL DE SUIVI D'UNE OU DE PLUSIEURS PLANTES ET/OU DE PRODUITS A BASE DE PLANTES ET/OU DE SUIVI DE LA VENTE DE PRODUITS DERIVES DE CEUX-CI, UTILISANT LA TECHNOLOGIE RFID**
[72] DAGDELEN UYSAL, DILEK, US
[72] WELLS, JEFFREY LANE, US
[73] METRC LLC, US
[86] (3122244)
[87] (3122244)
[22] 2015-06-12
[62] 2,952,024
[30] US (62/011,463) 2014-06-12

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[11] **3,123,615**
[13] C
[51] **Int.Cl. A47J 31/06 (2006.01) B65D 81/34 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **PAD WITH A RELATIVELY LARGE OUTLET OPENING COMPRISING A SOLUBLE BEVERAGE PREPARATION PRODUCT FOR USE IN A COFFEE MACHINE**
[54] **DOSETTE AVEC OUVERTURE DE SORTIE RELATIVEMENT GRANDE COMPRENANT UN PRODUIT DE PREPARATION DE BOISSON SOLUBLE POUR UTILISATION DANS UNE MACHINE A CAFE**
[72] BROUWER, GUSTAAF FRANS, NL
[72] DE GRAAFF, GERBRAND KRISTIAAN, NL
[72] MOORMAN, CHRISTIAAN J. M., NL
[73] KONINKLIJKE DOUWE EGBERTS B.V., NL
[86] (3123615)
[87] (3123615)
[22] 2014-04-03
[62] 2,908,574
[30] NL (2010562) 2013-04-03

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[13] C
[51] **Int.Cl. G02B 13/18 (2006.01) G01C 3/14 (2006.01) G02B 27/00 (2006.01) H04N 13/00 (2018.01)**
[25] EN
[54] **IMAGING DEVICE, IMAGE CAPTURING OPTICAL SYSTEM, AND MOVABLE APPARATUS**
[54] **DISPOSITIF D'IMAGERIE, SYSTEME OPTIQUE DE CAPTURE D'IMAGE ET APPAREIL MOBILE**
[72] NAKAMURA, KENTO, JP
[72] SATOH, HIROYUKI, JP
[72] KISHIWADA, JUN, JP
[72] ABE, ISSEI, JP
[73] RICOH COMPANY, LTD., JP
[85] 2021-06-17
[86] 2020-03-03 (PCT/JP2020/008873)
[87] (WO2020/184286)
[30] JP (2019-046771) 2019-03-14

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[13] C
[51] **Int.Cl. H01M 10/052 (2010.01) H01M 10/0568 (2010.01) H01M 10/0569 (2010.01)**
[25] EN
[54] **LIS BATTERY WITH LOW SOLVATING ELECTROLYTE**
[54] **BATTERIE LIS A ELECTROLYTE A FAIBLE SOLVATATION**
[72] VESTERGAARD FRANDSEN, MIKKEL, US
[72] KIM, DAVID, US
[72] ALTHUES, HOLGER, DE
[72] HARTEL, PAUL, DE
[72] ABENDROTH, THOMAS, DE
[72] DORFLER, SUSANNE, DE
[72] SCHUMM, BENJAMIN, DE
[72] KASKEL, STEFAN, DE
[72] WELLER, CHRISTINE, DE
[73] SCEYE SA, CH
[85] 2021-07-07
[86] 2020-01-14 (PCT/EP2020/050821)
[87] (WO2020/148285)
[30] US (62/793,474) 2019-01-17

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[13] C
[51] **Int.Cl. H04L 5/00 (2006.01) H04W 4/06 (2009.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BROADBAND WIRELESS COMMUNICATION FOR MISSION CRITICAL INTERNET OF THINGS (IOT)**
[54] **SYSTEMES ET PROCEDES DE COMMUNICATION SANS FIL A LARGE BANDE POUR L'INTERNET DES OBJETS (IDO) DE MISSIONS CRITIQUES**
[72] SHAHAR, MENASHE, US
[73] ONDAS NETWORKS INC., US
[85] 2021-07-08
[86] 2020-01-10 (PCT/US2020/013179)
[87] (WO2020/146793)
[30] US (62/790,774) 2019-01-10
[30] US (62/912,825) 2019-10-09

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[51] **Int.Cl. C01B 3/02 (2006.01) C25B 1/04 (2021.01)**
[25] EN
[54] **METHOD OF PRODUCING HYDROGEN**
[54] **PROCEDE DE PRODUCTION D'HYDROGENE**
[72] DAWSON, JIN, US
[72] DAWSON, MATTHEW, US
[72] FARANDOS, NICHOLAS, US
[73] UTILITY GLOBAL, INC., US
[85] 2021-07-09
[86] 2020-01-10 (PCT/US2020/013129)
[87] (WO2020/146759)
[30] US (62/875,437) 2019-07-17
[30] US (62/791,629) 2019-01-11
[30] US (62/797,572) 2019-01-28
[30] US (62/798,344) 2019-01-29
[30] US (62/955,443) 2019-01-31
[30] US (62/804,115) 2019-02-11
[30] US (62/805,250) 2019-02-13
[30] US (62/808,644) 2019-02-21
[30] US (62/809,602) 2019-02-23
[30] US (62/814,695) 2019-03-06
[30] US (62/819,289) 2019-03-15
[30] US (62/819,374) 2019-03-15
[30] US (62/824,229) 2019-03-26
[30] US (62/825,576) 2019-03-28
[30] US (62/827,800) 2019-04-01
[30] US (62/834,531) 2019-04-16
[30] US (62/837,089) 2019-04-22
[30] US (62/839,587) 2019-04-26
[30] US (62/840,381) 2019-04-29
[30] US (62/844,127) 2019-05-07
[30] US (62/844,126) 2019-05-07
[30] US (62/847,472) 2019-05-14
[30] US (62/849,269) 2019-05-17
[30] US (62/852,045) 2019-05-23
[30] US (62/856,736) 2019-06-03
[30] US (62/863,390) 2019-06-19
[30] US (62/864,492) 2019-06-20
[30] US (62/866,758) 2019-06-26
[30] US (62/869,322) 2019-07-01
[30] US (62/877,699) 2019-07-23
[30] US (62/888,319) 2019-08-16
[30] US (62/895,416) 2019-09-03
[30] US (62/896,466) 2019-09-05
[30] US (62/899,087) 2019-09-11
[30] US (62/904,683) 2019-09-24
[30] US (62/912,626) 2019-10-08
[30] US (62/925,210) 2019-10-23
[30] US (62/927,627) 2019-10-29
[30] US (62/928,326) 2019-10-30
[30] US (16/674,629) 2019-11-05
[30] US (16/674,657) 2019-11-05
[30] US (16/674,695) 2019-11-05
[30] US (16/674,580) 2019-11-05
[30] US (16/680,770) 2019-11-12
[30] US (62/934,808) 2019-11-13
[30] US (16/684,838) 2019-11-15
[30] US (16/684,864) 2019-11-15
[30] US (16/693,271) 2019-11-23
[30] US (62/941,358) 2019-11-27
[30] US (16/699,453) 2019-11-29
[30] US (16/699,461) 2019-11-29
[30] US (62/944,259) 2019-12-05
[30] US (62/944,259) 2019-12-06

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[13] C
[51] **Int.Cl. H01Q 1/24 (2006.01)**
[25] EN
[54] **EIRP CONTROL METHOD, COMMUNICATIONS APPARATUS, AND COMMUNICATIONS SYSTEM**
[54] **PROCEDE DE COMMANDE DE PIRE, DISPOSITIF DE COMMUNICATION, ET SYSTEME DE COMMUNICATION**
[72] ZHENG, XIAOJUN, CN
[72] GUO, JIANG, CN
[72] CHEN, WEI, CN
[72] ZHU, QIANG, CN
[72] XUE, CHUNLIN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-07-20
[86] 2020-01-22 (PCT/CN2020/073823)
[87] (WO2020/151748)
[30] CN (201910059033.6) 2019-01-22

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[13] C
[51] **Int.Cl. B62D 1/06 (2006.01)**
[25] EN
[54] **STEERING WHEEL COVER**
[54] **COUVRE-VOLANT DE DIRECTION**
[72] MONDRAGON, DINER, US
[72] STROUD, ANNETTE MARIE, US
[72] KRANKKALA, KEN, US
[73] ADC SOLUTIONS AUTO, LLC, US
[85] 2021-07-28
[86] 2020-01-29 (PCT/US2020/015685)
[87] (WO2020/160153)
[30] US (62/798,024) 2019-01-29
[30] US (62/817,733) 2019-03-13
[30] US (16/661,497) 2019-10-23

[11] **3,128,424**
[13] C
[51] **Int.Cl. H04N 19/139 (2014.01)**
[25] EN
[54] **INTERACTIONS BETWEEN IN-LOOP RESHAPING AND INTER CODING TOOLS**
[54] **INTERACTIONS ENTRE DES OUTILS DE REMODELAGE EN BOUCLE ET INTER-CODAGE**
[72] ZHANG, LI, US
[72] ZHANG, KAI, US
[72] LIU, HONGBIN, CN
[72] XU, JIZHENG, US
[72] WANG, YUE, CN
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[73] BYTEDANCE INC., US
[85] 2021-07-30
[86] 2020-02-01 (PCT/CN2020/074136)
[87] (WO2020/156526)
[30] CN (PCT/CN2019/074437) 2019-02-01

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[13] C
[51] **Int.Cl. H04R 27/00 (2006.01) G06F 3/16 (2006.01) G10L 15/22 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR DISTRIBUTED VOICE PROCESSING**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE TRAITEMENT VOCAL DISTRIBUE**
[72] SMITH, CONNOR KRISTOPHER, US
[72] TOLOMEI, JOHN, US
[72] LEE, BETTY, US
[73] SONOS, INC., US
[85] 2021-08-05
[86] 2020-02-07 (PCT/US2020/017150)
[87] (WO2020/163679)
[30] US (16/271,550) 2019-02-08
[30] US (16/271,560) 2019-02-08

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[13] C
[51] **Int.Cl. E21B 47/00 (2012.01) E21B 41/00 (2006.01) E21B 43/12 (2006.01) E21B 47/12 (2012.01)**
[25] EN
[54] **SELECTIVE AUTOMATED POWERING OF DOWNHOLE EQUIPMENT DURING RUN-IN-HOLE OPERATIONS**
[54] **ALIMENTATION AUTOMATISEE SELECTIVE D'EQUIPEMENT DE FOND DE TROU PENDANT DES OPERATIONS DE PASSAGE EN TROU**
[72] PALMGREN, CARL ALBERT, III, US
[72] ASHBAUGH, RYAN BRIDWELL, US
[72] STEWART, MARK DALE, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-08-06
[86] 2020-03-26 (PCT/US2020/025089)
[87] (WO2020/214378)
[30] US (62/836,119) 2019-04-19
[30] US (16/830,940) 2020-03-26

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[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61K 31/53 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **7H-PYRROLO[2,3-D]PYRIMIDINE-4-AMINE DERIVATIVE**
[54] **DERIVE DE 7H-PYRROLO [2,3-D] PYRIMIDINE-4-AMINE**
[72] YAMAMOTO, FUYUKI, JP
[72] MIZUTANI, TAKASHI, JP
[72] KASUGA, HIDEFUMI, JP
[72] FUCHIDA, HIROKAZU, JP
[72] HARA, SHOKI, JP
[72] KOBAYAKAWA, YU, JP
[72] OGINO, YOSHIO, JP
[73] TAIHO PHARMACEUTICAL CO., LTD., JP
[85] 2021-08-12
[86] 2020-02-14 (PCT/JP2020/005684)
[87] (WO2020/166680)
[30] JP (2019-025844) 2019-02-15

[11] **3,131,675**
[13] C
[51] **Int.Cl. H02K 1/18 (2006.01) H02K 15/02 (2006.01)**
[25] EN
[54] **ADHESIVELY-LAMINATED CORE FOR STATOR, METHOD OF MANUFACTURING SAME, AND ELECTRIC MOTOR**
[54] **NOYAU DE STRATIFICATION DE COLLE POUR STATORS ET SON PROCEDE DE FABRICATION, ET MACHINE ELECTRIQUE TOURNANTE**
[72] TAKEDA KAZUTOSHI, JP
[72] FUJII HIROYASU, JP
[72] TAKATANI SHINSUKE, JP
[73] NIPPON STEEL CORPORATION, JP
[85] 2021-08-26
[86] 2019-12-17 (PCT/JP2019/049303)
[87] (WO2020/129946)
[30] JP (2018-235869) 2018-12-17

[11] **3,131,792**
[13] C
[51] **Int.Cl. C07D 487/00 (2006.01) A61K 9/06 (2006.01)**
[25] EN
[54] **SALT OF ALDOSE REDUCTASE INHIBITOR, AND PREPARATION METHOD AND APPLICATION THEREOF**
[54] **SEL D'INHIBITEUR D'ALDOSE REDUCTASE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] YANG, ZHANKUN, CN
[72] YANG, HANYU, CN
[72] LI, PENGFEI, CN
[72] LIU, XIAOPENG, CN
[72] ZHOU, CAIHONG, CN
[72] WANG, JUNLING, CN
[72] LI, CHUNNA, CN
[72] LIU, XIBAO, CN
[73] CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD., CN
[85] 2021-08-27
[86] 2020-02-28 (PCT/CN2020/077233)
[87] (WO2020/173495)
[30] CN (201910152719.X) 2019-02-28

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[51] **Int.Cl. C25B 11/073 (2021.01) B82Y 30/00 (2011.01) C25B 1/55 (2021.01) B01J 37/08 (2006.01) C25B 1/30 (2006.01) H01L 31/0256 (2006.01)**
[25] EN
[54] **Z-SCHEME HETEROSTRUCTURE PHOTOCATALYST,PREPARATION METHOD, AND APPLICATION THEREOF**
[54] **PHOTOCATALYSEUR A HETEROSTRUCTURE EN Z, METHODE DE PREPARATION ET APPLICATION CONNEXE**
[72] ZHANG, XUDONG, CN
[72] LIN, SHIWEI, CN
[72] CHEN, HANDE, CN
[72] FU, JIAN, CN
[72] ZHOU, YILONG, CN
[72] CHEN, BAO, CN
[72] LIN, ZHENGXI, CN
[72] WANG, LINGZHUAN, CN
[72] LIN, HUIYUAN, CN
[72] FU, ZHIHAO, CN
[72] HUANG, XIUCAI, CN
[73] HAINAN UNICAN SCIENCE AND TECHNOLOGY INNOVATION INSTITUTE CO. LTD., CN
[85] 2021-09-24
[86] 2021-05-12 (PCT/CN2021/093269)
[87] (WO2022/198766)
[30] CN (202110321216.8) 2021-03-25

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[51] **Int.Cl. G01G 3/12 (2006.01) G01F 23/20 (2006.01) G01G 3/18 (2006.01) G01G 21/23 (2006.01)**
[25] FR
[54] **SYSTEMS AND METHODS FOR MEASURING THE FILLING LEVEL OF A SILO**
[54] **SYSTEMES ET PROCEDES DE MESURE DU NIVEAU DE REMPLISSAGE D'UN SILO**
[72] DIGIANANTONIO, LUCAS, FR
[72] BOIS, JEAN-JACQUES, FR
[73] NANOLIKE, FR
[85] 2021-10-05
[86] 2020-04-30 (PCT/EP2020/062024)
[87] (WO2020/221857)
[30] FR (FR1904594) 2019-04-30

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[13] C
[51] **Int.Cl. B65D 81/24 (2006.01) B67D 1/04 (2006.01) C12H 1/00 (2006.01)**
[25] EN
[54] **AUTOMATIC PRESERVATIVE GAS REPLENISHING SYSTEM**
[54] **SYSTEME DE REAPPROVISIONNEMENT AUTOMATIQUE DE GAZ CONSERVATEUR**
[72] BAZOBERRY, CARLOS FERNANDO, US
[73] BOSTON WINE DEVICES, LLC, US
[85] 2021-09-20
[86] 2020-03-18 (PCT/US2020/023307)
[87] (WO2020/191020)
[30] US (16/358,666) 2019-03-19

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[51] **Int.Cl. C10B 53/02 (2006.01) C10B 7/10 (2006.01) C10B 47/44 (2006.01) C10B 49/04 (2006.01) C10L 5/44 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR THE MANUFACTURING OF BIOCHAR WITH THERMAL TREATMENT**
[54] **METHODE ET APPAREIL POUR LA FABRICATION DE BIOCHARBON PAR TRAITEMENT THERMIQUE**
[72] TUKIAINEN, SAMPO, FI
[73] CARBOFEX OY, FI
[85] 2021-09-29
[86] 2020-04-07 (PCT/FI2020/050226)
[87] (WO2020/208301)
[30] FI (20195284) 2019-04-08

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[13] C
[51] **Int.Cl. B32B 9/04 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **A COMPOSITE PANEL FOR STRUCTURAL AND DECORATIVE SURFACES**
[54] **PANNEAU COMPOSITE POUR SURFACES STRUCTURALES ET DECORATIVES**
[72] BRITO DA COSTA, CLAUDIA, PT
[72] TAVARES DA SILVA VINHAS, ANA JOAO, PT
[72] SANTOS SILVA MARTINS, JORGE MANUEL, PT
[72] HORA DE CARVALHO, LUISA MARIA, PT
[72] DE MONTENEGRO BAPTISTA MALHEIRO DE MAGALHAES, FERNAO DOMINGOS, PT
[73] UNIVERSIDADE DO PORTO, PT
[73] INSTITUTO POLITECNICO DE VISEU, PT
[73] SURFORMA, S.A., PT
[85] 2021-10-29
[86] 2020-04-24 (PCT/IB2020/053879)
[87] (WO2020/222098)
[30] PT (115478) 2019-04-29

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[13] C
[51] **Int.Cl. H04W 74/0833 (2024.01) H04L 27/26 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONFIGURING RANDOM ACCESS PREAMBLES**
[54] **SYSTEME ET PROCEDE PERMETTANT DE CONFIGURER DES PREAMBULES D'ACCES ALEATOIRE**
[72] ZHANG, CHENCHEN, CN
[72] CAO, WEI, CN
[72] TIAN, KAIBO, CN
[72] YANG, ZHEN, CN
[72] ZHANG, NAN, CN
[73] ZTE CORPORATION, CN
[85] 2021-10-01
[86] 2019-04-04 (PCT/CN2019/081480)
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[51] **Int.Cl. C07D 215/233 (2006.01) A61K 31/47 (2006.01) A61K 31/4709 (2006.01) C07D 401/12 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/00 (2006.01) A61P 17/06 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **QUINOLYL-CONTAINING COMPOUND AND PHARMACEUTICAL COMPOSITION, AND USE THEREOF**
[54] **COMPOSE CONTENANT DU QUINOLYLE, COMPOSITION PHARMACEUTIQUE ET UTILISATION ASSOCIEE**
[72] WU, WEI, CN
[72] ZHU, LI, CN
[72] YANG, YANQING, CN
[72] HU, WEI, CN
[72] ZHANG, HUI, CN
[72] DONG, CHANGXIN, CN
[73] PRIMEGENE (BEIJING) CO., LTD., CN
[85] 2021-10-01
[86] 2020-03-30 (PCT/CN2020/082041)
[87] (WO2020/200160)
[30] CN (201910266681.9) 2019-04-03

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[13] C
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/00 (2006.01)**
[25] EN
[54] **ELECTROSURGICAL VESSEL SEALER HAVING OPPOSED SEALING SURFACES WITH VARYING GAP HEIGHT**
[54] **SCELLEUSE DE VAISSEAUX ELECTROCHIRURGICALE AYANT DES SURFACES DE SCELLAGE OPPOSEES AYANT UNE HAUTEUR D'ESPACE VARIABLE**
[72] EILERS, DEREK, US
[72] WILLIAMS, MASON, US
[73] CONMED CORPORATION, US
[85] 2021-10-15
[86] 2020-04-29 (PCT/US2020/030551)
[87] (WO2020/223405)
[30] US (62/840,437) 2019-04-30

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[51] **Int.Cl. F04C 18/356 (2006.01) F04C 28/26 (2006.01) F04C 29/06 (2006.01)**
[25] EN
[54] **ROTARY COMPRESSOR AND REFRIGERATION CYCLE DEVICE**
[54] **COMPRESSEUR ROTATIF ET DISPOSITIF A CYCLE DE REFRIGERATION**
[72] OZU, MASAO, CN
[72] GAO, BIN, CN
[72] WANG, LING, CN
[73] GUANGDONG MEIZHI COMPRESSOR CO., LTD., CN
[85] 2021-10-19
[86] 2019-11-04 (PCT/CN2019/115399)
[87] (WO2021/035945)
[30] CN (201910785989.4) 2019-08-23
[30] CN (201910785885.3) 2019-08-23

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[51] **Int.Cl. H04N 19/50 (2014.01)**
[25] EN
[54] **METHOD FOR SIGNALING RECTANGULAR SLICE PARTITIONING IN CODED VIDEO STREAM**
[54] **PROCEDE POUR SIGNALEMENT D'UN PARTITIONNEMENT EN TRANCHES RECTANGULAIRES DANS UN FLUX VIDEO CODE**
[72] CHOI, BYEONGDOO, US
[72] LIU, SHAN, US
[72] WENGER, STEPHAN, US
[73] TENCENT AMERICA LLC, US
[85] 2021-10-19
[86] 2021-02-15 (PCT/US2021/018101)
[87] (WO2021/202001)
[30] US (63/003,101) 2020-03-31
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[51] **Int.Cl. G02B 6/255 (2006.01)**
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[54] **SPLICE ASSEMBLY FOR FIBER OPTIC CABLE**
[54] **ENSEMBLE EPISSURE DE CABLE A FIBRE OPTIQUE**
[72] ROSSI, NICK, US
[72] ARTEMIE, EUGEN, US
[73] COTSWORKS, INC., US
[85] 2021-10-20
[86] 2020-05-24 (PCT/US2020/034435)
[87] (WO2020/243028)
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[51] **Int.Cl. G01N 27/72 (2006.01)**
[25] EN
[54] **METAL STRUCTURE EVALUATOR FOR ROLLED STEEL SHEETS, METHOD FOR EVALUATING METAL STRUCTURE OF ROLLED STEEL SHEET, PRODUCTION FACILITY OF STEEL PRODUCT, METHOD FOR MANUFACTURING STEEL PRODUCT, AND METHOD OF QUALITY MANAGEMENT OF STEEL PRODUCT**
[54] **DISPOSITIF D'EVALUATION DE STRUCTURE METALLIQUE DE TOLE D'ACIER LAMINEE, PROCEDE D'EVALUATION DE STRUCTURE METALLIQUE DE TOLE D'ACIER LAMINEE, EQUIPEMENT DE FABRICATION DE MATERIA U D'ACIER, PROCEDE DE FABRICATION DE MATERIAU D'ACIER, ET PROCEDE DE CONTROLE QUALITE DE MATERIAU D'ACIER**
[72] OZEKI, TAKAFUMI, JP
[72] MATSUI, YUTAKA, JP
[72] ADACHI, KENJI, JP
[72] SHIMAMURA, JUNJI, JP
[73] JFE STEEL CORPORATION, JP
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[86] 2020-04-17 (PCT/JP2020/016877)
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[54] **EXTENSIBLE DEPLOYMENT SYSTEM**
[54] **SYSTEME DE DEPLOIEMENT EXTENSIBLE**
[72] BARNEFIHER, GERALD E., US
[72] LAM, WILLIS, US
[72] MASSEY, RICHARD W., US
[72] NGUYEN, NICK T., US
[72] NGUYEN, RYAN, US
[73] CAREFUSION 303, INC., US
[86] (3138091)
[87] (3138091)
[22] 2013-11-12
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[13] C
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/12 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTELLIGENT GAS SOURCE MANAGEMENT AND/OR SYSTEMS AND METHODS FOR DELIVERY OF THERAPEUTIC GAS AND/OR ENHANCED PERFORMANCE VERIFICATION FOR THERAPEUTIC GAS DELIVERY**
[54] **SYSTEMES ET PROCEDES DE GESTION DE SOURCE DE GAZ INTELLIGENTE, ET/OU SYSTEMES ET PROCEDES D'ADMINISTRATION DE GAZ THERAPEUTIQUE ET/OU DE VERIFICATION DE PERFORMANCE AMELIOREE POUR L'ADMINISTRATION DE GAZ THERAPEUTIQUE**
[72] ACKER, JARON M., US
[72] FALLIGANT, JOHN C., US
[72] MILSAP, JEFF, US
[72] ROEHL, ROBIN, US
[72] SCHMIDT, JEFFREY, US
[72] TOLMIE, CRAIG R., US
[73] MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED, IE
[86] (3138339)
[87] (3138339)
[22] 2015-05-11
[62] 2,941,761
[30] US (61/991,032) 2014-05-09
[30] US (61/991,028) 2014-05-09
[30] US (61/991,083) 2014-05-09
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[51] **Int.Cl. G16Z 99/00 (2019.01) G06F 40/279 (2020.01) G06F 40/30 (2020.01) B44D 2/00 (2006.01) G06T 11/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR AUTOMATICALLY CREATING CARTOON IMAGE BASED ON INPUT SENTENCE**
[54] **DISPOSITIF ET METHODE DE CREATION AUTOMATIQUE D'IMAGE DE DESSIN HUMORISTIQUE EN FONCTION D'UNE PHRASE SAISIE**
[72] LEE, HO YOUNG, KR
[72] KIM, GYU CHEOL, KR
[72] CHOI, HO SOP, KR
[73] TOONSQUARE CORP., KR
[86] (3138790)
[87] (3138790)
[22] 2021-11-12
[30] KR (KR10-2021-0099674) 2021-07-29

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

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[13] C
[51] **Int.Cl. G21C 19/10 (2006.01) G21C 19/20 (2006.01)**
[25] EN
[54] **BOILING WATER REACTOR BLADE GUIDE AND EXCHANGE TOOL**
[54] **OUTIL DE GUIDAGE ET D'ECHANGE DE LAME DE REACTEUR A EAU BOUILLANTE**
[72] OSTRANDER, KRISTOFFER, US
[72] WHITLING, ROBERT W., US
[72] SMITH, BRIAN J., US
[73] GE-HITACHI NUCLEAR ENERGY AMERICAS LLC, US
[85] 2021-11-05
[86] 2020-04-30 (PCT/US2020/030730)
[87] (WO2020/231639)
[30] US (16/412,979) 2019-05-15

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[13] C
[51] **Int.Cl. C25B 15/02 (2021.01)**
[25] EN
[54] **METHOD OF OPERATING ELECTROLYSIS APPARATUS**
[54] **PROCEDE DE FONCTIONNEMENT D'UN APPAREIL D'ELECTROLYSE**
[72] OHNO, JUN, JP
[72] UCHINO, YOUSUKE, JP
[73] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2021-11-10
[86] 2020-04-22 (PCT/JP2020/017357)
[87] (WO2020/241129)
[30] JP (2019-103103) 2019-05-31
[30] JP (2019-103106) 2019-05-31

[11] **3,141,228**
[13] C
[51] **Int.Cl. H02P 3/08 (2006.01) B25F 5/00 (2006.01) B25B 13/46 (2006.01)**
[25] EN
[54] **METHOD OF BRAKING A POWER TOOL**
[54] **METHODE DE FREINAGE D'UN OUTIL ELECTRIQUE**
[72] RAJZER, MICHAEL, US
[72] GENZ, JASON, US
[73] SNAP-ON INCORPORATED, US
[86] (3141228)
[87] (3141228)
[22] 2021-12-07
[30] US (17/122,285) 2020-12-15

[11] **3,141,319**
[13] C
[51] **Int.Cl. G06F 9/46 (2006.01) G06F 12/0842 (2016.01) G06F 9/50 (2006.01)**
[25] EN
[54] **REDUCING CACHE INTERFERENCE BASED ON FORECASTED PROCESSOR USE**
[54] **REDUCTION D'INTERFERENCE DE CACHE SUR LA BASE D'UNE UTILISATION DE PROCESSEUR PREVUE**
[72] ROSTYKUS, BENOIT, US
[72] HARTMANN, GABRIEL, US
[73] NETFLIX, INC., US
[85] 2021-11-18
[86] 2020-05-28 (PCT/US2020/034943)
[87] (WO2020/243318)
[30] US (62/855,649) 2019-05-31
[30] US (16/510,756) 2019-07-12

[11] **3,143,883**
[13] C
[51] **Int.Cl. E04F 15/18 (2006.01)**
[25] EN
[54] **DECOUPLING WEB**
[54] **BANDE DE DECOUPLAGE**
[72] KAISER, UWE, DE
[72] STRIEDER, BIRGIT, DE
[72] KARGL, DANIEL, DE
[72] BACHON, THOMAS, DE
[73] EWALD DORKEN AG, DE
[85] 2021-12-16
[86] 2020-06-18 (PCT/EP2020/066913)
[87] (WO2021/004745)
[30] DE (10 2019 004 633.1) 2019-07-05

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[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 50/02 (2015.01) B29C 64/209 (2017.01) B29C 64/232 (2017.01) B29C 64/236 (2017.01) B29C 64/393 (2017.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR PROCESSING AND DISPENSING MATERIAL DURING ADDITIVE MANUFACTURING**
[54] **PROCEDES ET APPAREIL DE TRAITEMENT ET DE DISTRIBUTION D'UN MATERIAU AU COURS D'UNE FABRICATION ADDITIVE**
[72] SUSNJARA, KENNETH J., US
[72] VOTE, NICOLAS, US
[72] GAESSER, ROBERT, US
[72] SMIDDY, BRIAN S., US
[72] VAAL, SCOTT G., US
[73] THERMWOOD CORPORATION, US
[85] 2021-12-16
[86] 2020-06-17 (PCT/US2020/038118)
[87] (WO2020/263652)
[30] US (16/455,877) 2019-06-28

[11] **3,144,059**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/20 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **AUTOMATED CATHETER AND CHEST TUBE DEVICES AND RELATED SYSTEMS**
[54] **DISPOSITIFS DE CATHETER ET DE DRAIN THORACIQUE AUTOMATISES ET SYSTEMES ASSOCIES**
[72] KEELEN, MENGESHA, US
[73] TESSEFI INNOVATIONS, INC., US
[85] 2021-12-20
[86] 2020-06-08 (PCT/US2020/036640)
[87] (WO2020/251893)
[30] US (62/861,165) 2019-06-13
[30] US (62/861,169) 2019-06-13

[11] **3,144,815**
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[51] **Int.Cl. A47L 11/40 (2006.01) A47L 11/10 (2006.01) A47L 11/28 (2006.01) A47L 13/44 (2006.01)**
[25] EN
[54] **CLEANING ROBOT AND CLEANING SYSTEM**
[54] **ROBOT DE NETTOYAGE ET SYSTEME DE NETTOYAGE**
[72] WEIS, NORBERT, DE
[72] HEILAND, MARC, DE
[72] STENGLEIN, CHRISTIAN, DE
[73] CARL FREUDENBERG KG, DE
[85] 2021-12-22
[86] 2020-07-23 (PCT/EP2020/070771)
[87] (WO2021/104689)
[30] DE (10 2019 132 312.6) 2019-11-28

[11] **3,145,292**
[13] C
[51] **Int.Cl. B07B 1/46 (2006.01)**
[25] EN
[54] **APPARATUSES, METHODS, AND SYSTEMS FOR VIBRATORY SCREENING**
[54] **APPAREILS, PROCEDES ET SYSTEMES POUR CRIBLAGE PAR VIBRATIONS**
[72] COLGROVE, JAMES R., US
[72] PERESAN, MICHAEL L., US
[73] DERRICK CORPORATION, US
[85] 2021-12-23
[86] 2020-07-02 (PCT/US2020/040734)
[87] (WO2021/003414)
[30] US (16/460,496) 2019-07-02

[11] **3,146,367**
[13] C
[51] **Int.Cl. G07C 5/08 (2006.01) B60R 1/00 (2022.01) G07C 5/00 (2006.01) G08G 1/16 (2006.01)**
[25] EN
[54] **INFORMATION-ENHANCED OFF-VEHICLE EVENT IDENTIFICATION**
[54] **IDENTIFICATION D'EVENEMENT HORS VEHICULE AMELIOREE PAR DES INFORMATIONS**
[72] KUEHNLE, ANDREAS U., US
[72] TOKMAN, ANDRE, US
[72] MUNCY, MARK, US
[73] BENDIX COMMERCIAL VEHICLE SYSTEMS, LLC, US
[85] 2022-01-06
[86] 2020-07-29 (PCT/US2020/043967)
[87] (WO2021/021865)
[30] US (16/526,820) 2019-07-30

[11] **3,147,469**
[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **RESOURCE MANAGEMENT FOR REPORTING SIGNAL-TO-INTERFERENCE-PLUS-NOISE RATIO**
[54] **GESTION DE RESSOURCES PERMETTANT DE RAPPORTER UN RAPPORT SIGNAL SUR BROUILLAGE PLUS BRUIT**
[72] GAO, BO, CN
[72] LU, ZHAOHUA, CN
[72] LI, YU NGOK, CN
[72] WU, HAO, CN
[72] JIANG, CHUANGXIN, CN
[73] ZTE CORPORATION, CN
[85] 2022-01-14
[86] 2019-07-16 (PCT/CN2019/096130)
[87] (WO2021/007768)

[11] **3,147,487**
[13] C
[51] **Int.Cl. H02J 3/18 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING AN INDUCTIVE REACTIVE POWER BY MEANS OF AN ELECTRICAL LOAD APPARATUS, ELECTRICAL LOAD APPARATUS, AND ELECTROLYSIS APPARATUS**
[54] **PROCEDE DE GENERATION D'UNE ENERGIE REACTIVE INDUCTIVE AU MOYEN D'UN DISPOSITIF DE CONSOMMATEUR ELECTRIQUE, DISPOSITIF DE CONSOMMATEUR ELECTRIQUE ET DISPOSITIF D'ELECTROLYSE**
[72] UTZ, PETER, DE
[73] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-01-14
[86] 2020-05-26 (PCT/EP2020/064509)
[87] (WO2021/008762)
[30] EP (19186743.1) 2019-07-17

[11] **3,147,569**
[13] C
[51] **Int.Cl. F16L 35/00 (2006.01)**
[25] EN
[54] **METHOD OF CONTROLLING HOSES AND PIPES UNDER PRESSURE**
[54] **METHODE DE CONTROLE DE BOYAUX ET DE TUYAUX SOUS PRESSION**
[72] UHRYN, MICHAEL, CA
[73] MAXINUS INC., CA
[86] (3147569)
[87] (3147569)
[22] 2022-02-03

[11] **3,147,908**
[13] C
[51] **Int.Cl. C23F 14/02 (2006.01) C02F 5/00 (2006.01) C07F 11/00 (2006.01) C10G 75/04 (2006.01)**
[25] EN
[54] **OIL SOLUBLE MOLYBDENUM COMPLEXES AS HIGH TEMPERATURE FOULING INHIBITORS**
[54] **COMPLEXES DE MOLYBDENE SOLUBLES DANS L'HUILE SERVANT D'INHIBITEURS D'ENCRASSEMENT A HAUTE TEMPERATURE**
[72] GUL, OMER, US
[72] ZENASNI, OUSSAMA, US
[72] PENNINGTON, JANELLE, US
[73] ECOLAB USA INC., US
[85] 2022-01-18
[86] 2020-07-29 (PCT/US2020/044005)
[87] (WO2021/021888)
[30] US (62/879,877) 2019-07-29

[11] **3,148,594**
[13] C
[51] **Int.Cl. A61B 17/02 (2006.01) A61B 34/20 (2016.01) A61B 34/30 (2016.01) A61B 90/00 (2016.01) A61B 17/24 (2006.01) A61C 1/08 (2006.01)**
[25] EN
[54] **SPLINT DEVICE FORMING A FIDUCIAL MARKER CO-OPERABLE WITH A GUIDANCE SYSTEM OF A ROBOT**
[54] **DISPOSITIF D'ATTELLE FORMANT UN MARQUEUR DE REPERE POUVANT FONCTIONNER AVEC UN SYSTEME DE GUIDAGE DE ROBOT**
[72] MOZES, ALON, US
[72] REEBYE, UDAY, US
[72] SALCEDO, JUAN, US
[72] FITTIPALDI, MAURO, US
[73] NEOCIS INC., US
[85] 2022-01-24
[86] 2020-07-23 (PCT/IB2020/056977)
[87] (WO2021/014408)
[30] US (62/878,240) 2019-07-24

[11] **3,148,999**
[13] C
[51] **Int.Cl. G10L 19/032 (2013.01)**
[25] EN
[54] **AUDIO ENCODERS, AUDIO DECODERS, METHODS AND COMPUTER PROGRAMS ADAPTING AN ENCODING AND DECODING OF LEAST SIGNIFICANT BITS**
[54] **CODEURS AUDIO, DECODEURS AUDIO, PROCEDES ET PROGRAMMES INFORMATIQUES ADAPTANT UN CODAGE ET UN DECODAGE DE BITS LES MOINS SIGNIFICATIFS**
[72] FUCHS, GUILLAUME, DE
[72] GEYERSBERGER, STEFAN, DE
[72] RAVELLI, EMMANUEL, DE
[72] SCHNELL, MARKUS, DE
[72] TOMASEK, ADRIAN, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[86] (3148999)
[87] (3148999)
[22] 2018-11-08
[62] 3,082,282
[30] EP (PCT/EP2017/078959) 2017-11-10

[11] **3,150,318**
[13] C
[51] **Int.Cl. H01G 11/18 (2013.01) H01G 11/10 (2013.01)**
[25] EN
[54] **LIC MODULE**
[54] **MODULE LIC**
[72] OHNO, TATSUYA, JP
[72] ONODERA, TATSUYA, JP
[72] HINO, TAKENORI, JP
[72] KUJIME, YASUNORI, JP
[72] HARADA, YOSHITERU, JP
[72] EZAKI, HIDEAKI, JP
[72] HAYASHI, MASATO, JP
[72] TANG, ISSAC, JP
[72] LAMINETTE, ANTOINE, JP
[72] LINDSTROM, JEREMY, JP
[73] KAWASAKI JUKOGYO KABUSHIKI KAISHA, JP
[85] 2022-03-07
[86] 2019-09-17 (PCT/JP2019/036384)
[87] (WO2021/053718)

[11] **3,151,080**
[13] C
[51] **Int.Cl. H02P 27/08 (2006.01)**
[25] EN
[54] **MEASUREMENT GUIDED OSCILLATION DETECTION FOR MOTOR PROTECTION**
[54] **DETECTION D'OSCILLATIONS GUIDEE PAR MESURE POUR LA PROTECTION DE MOTEURS**
[72] ASHBAUGH, RYAN BRIDWELL, US
[72] BECK, DAVID C., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-03-11
[86] 2019-10-31 (PCT/US2019/059280)
[87] (WO2021/086389)
[30] US (16/669,892) 2019-10-31

[11] **3,151,284**
[13] C
[51] **Int.Cl. G05B 23/02 (2006.01) H04W 12/04 (2021.01) G06F 3/0484 (2022.01) G08C 17/02 (2006.01)**
[25] EN
[54] **UNIDIRECTIONAL FIELD DEVICE DATA TRANSFER**
[54] **TRANSFERT DE DONNEES DE DISPOSITIF DE CHAMP UNIDIRECTIONNEL**
[72] SHIERS, BRET J., US
[72] SWEET, JARED E., US
[72] LAMOTHE, ROSS C., US
[73] ROSEMOUNT INC., US
[85] 2022-03-15
[86] 2020-09-09 (PCT/US2020/049879)
[87] (WO2021/055198)
[30] US (16/576,126) 2019-09-19

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[13] C
[51] **Int.Cl. C04B 7/12 (2006.01) C04B 7/13 (2006.01) C04B 14/26 (2006.01) C04B 28/02 (2006.01)**
[25] EN
[54] **COMPOSITE CEMENT WITH IMPROVED REACTIVITY AND METHOD FOR MANUFACTURING IT**
[54] **CIMENT COMPOSITE A REACTIVITE AMELIOREE ET METHODE DE FABRICATION**
[72] BULLERJAHN, FRANK, DE
[72] BREMSETH, SIGURN KJAER, DE
[72] SKJEGGERUD, KJELL, DE
[72] DIENEMANN, WOLFGANG, DE
[73] HEIDELBERG MATERIALS AG, DE
[86] (3154322)
[87] (3154322)
[22] 2022-04-04
[30] EP (21170683) 2021-04-27

[11] **3,154,778**
[13] C
[51] **Int.Cl. A63C 17/26 (2006.01)**
[25] EN
[54] **A PERSONAL TRANSPORT APPARATUS**
[54] **APPAREIL DE TRANSPORT PERSONNEL**
[72] KOCH, JASON, AU
[72] DE GAYE, DANIEL JAMES, AU
[73] SKATE INNOVATION PTY LTD, AU
[86] (3154778)
[87] (3154778)
[22] 2017-05-10
[62] 3,062,951
[30] AU (2016901746) 2016-05-10
[30] AU (2016903430) 2016-08-29

[11] **3,154,919**
[13] C
[51] **Int.Cl. G06F 16/172 (2019.01)**
[25] EN
[54] **DATA OBJECT IDENTIFICATION GENERATING METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE DE GENERATION D'IDENTIFICATION D'OBJETS DE DONNEES, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] CHEN, FANGYUAN, CN
[72] FAN, MINJIE, CN
[72] TANG, KUNZHOU, CN
[73] 10353744 CANADA LTD., CA
[85] 2022-03-17
[86] 2020-07-30 (PCT/CN2020/105935)
[87] (WO2021/052029)
[30] CN (201910878201.4) 2019-09-17

[11] **3,154,948**
[13] C
[51] **Int.Cl. A61N 5/10 (2006.01)**
[25] EN
[54] **RADIATION THERAPY SYSTEM, AND OPERATION PROCEDURE OF POSITIONING DEVICE THEREOF**
[54] **SYSTEME DE RADIOTHERAPIE, ET METHODE DE FONCTIONNEMENT DE DISPOSITIF DE POSITIONNEMENT DUDIT SYSTEME**
[72] CHEN, WEI-LIN, CN
[72] GONG, QIU-PING, CN
[73] NEUBORON THERAPY SYSTEM LTD., CN
[85] 2022-04-14
[86] 2020-09-28 (PCT/CN2020/118385)
[87] (WO2021/082846)
[30] CN (201911034270.3) 2019-10-29

[11] **3,155,870**
[13] C
[51] **Int.Cl. A61K 8/365 (2006.01) A61K 8/19 (2006.01) A61K 8/21 (2006.01) A61K 8/25 (2006.01) A61K 8/27 (2006.01) A61K 8/44 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **DENTIFRICE COMPOSITIONS FOR TREATMENT OF DENTAL BIOFILM**
[54] **COMPOSITIONS DE DENTIFRICE POUR LE TRAITEMENT D'UN BIOFILM DENTAIRE**
[72] STRAND, ROSS, SG
[72] LI, XIAOXIAO, CN
[72] SHI, YUNMING, CN
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-03-25
[86] 2019-09-30 (PCT/CN2019/109455)
[87] (WO2021/062631)

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[13] C
[51] **Int.Cl. B66F 3/35 (2006.01) B65G 7/02 (2006.01) B66F 11/00 (2006.01)**
[25] EN
[54] **AUXILIARY MOUNTING TOOL FOR THE POSITIONING OF ELEMENTS IN RELATION TO AN ADJACENT FLAT OR PLANE**
[54] **OUTIL DE MONTAGE AUXILIAIRE PERMETTANT LE POSITIONNEMENT D'ELEMENTS PAR RAPPORT A UN PLAN OU PLAT ADJACENT**
[72] DISSING, CLAUS HORNSTRUP, DK
[73] DISSING A/S, DK
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[54] **AUTOMATED FOOD PREPARATION AND PACKAGING SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE PREPARATION ET D'EMBALLAGE D'ALIMENTS AUTOMATISES**
[72] CLAUSSEN, ED, US
[72] LESSARD, GERALD, US
[73] WEST LIBERTY FOODS, L.L.C., US
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[54] **SPIRO COMPOUND SERVING AS ERK INHIBITOR, AND APPLICATION THEREOF**
[54] **COMPOSE SPIRO SERVANT D'INHIBITEUR D'ERK ET SON APPLICATION**
[72] LI, YI, CN
[72] LIU, NING, CN
[72] YU, TAO, CN
[72] WU, CHENGDE, CN
[72] LI, JIAN, CN
[72] CHEN, SHUHUI, CN
[73] D3 BIO (WUXI) CO., LTD., CN
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[54] **PHOTOPOLYMERISABLE RELIEF PRECURSOR WITH ADJUSTABLE SURFACE PROPERTIES**
[54] **PRECURSEUR DE RELIEF PHOTOPOLYMERISABLE AYANT DES PROPRIETES DE SURFACE AJUSTABLES**
[72] BEYER, MATTHIAS, DE
[72] BECKER, ARMIN, DK
[72] WENDLAND, TORBEN, DE
[72] SCHLEGEL, ISABEL, DE
[72] FRONCZKIEWICZ, PETER J, US
[72] WUNDLING, ANJA, DE
[73] XSYS GERMANY GMBH, DE
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[25] EN
[54] **POINT-OF-SALE SYSTEM**
[54] **SYSTEME DE POINT DE VENTE**
[72] EDWARDS, TROY, US
[72] SKOOG, LUCAS, US
[72] BABU, AMISH, US
[72] DOROGUSKER, JESSE, US
[73] BLOCK, INC., US
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[87] (3161148)
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[54] **MOTION SIMULATOR FAULT TOLERANT LOAD CARRYING PIVOT CONNECTION**
[54] **LIAISON PIVOT PORTEUSE DE CHARGE INSENSIBLE AUX DEFAILLANCES DE SIMULATEUR AVEC SYSTEME DE MOUVEMENT**
[72] DEANGELIS, RICHARD, US
[72] DE GRAAF, WILLEM A., NL
[73] MOOG INC., US
[85] 2022-05-16
[86] 2020-11-13 (PCT/US2020/060613)
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[25] EN
[54] **METHOD FOR MANUFACTURING LAMINATED TINPLATE, A LAMINATED TINPLATE PRODUCED THEREBY AND USE THEREOF**
[54] **PROCEDE DE FABRICATION DE FER BLANC STRATIFIE, FER BLANC STRATIFIE PRODUIT PAR CE PROCEDE ET UTILISATION DE CELUI-CI**
[72] PENNING, JAN PAUL, NL
[72] KONDRATIUK, DMITRY, NL
[73] TATA STEEL IJMUIDEN B.V., NL
[85] 2022-06-16
[86] 2020-12-18 (PCT/EP2020/087228)
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[54] **DRY PRODUCT ADDITIVE UNIT**
[54] **UNITE D'ADDITIF DE PRODUIT SEC**
[72] SMITH, JEFF, US
[72] SHARP, BRIAN, US
[72] PAYNE, MARK, US
[73] STEWART & STEVENSON LLC, US
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[87] (3166767)
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[54] **METHODS AND SYSTEMS FOR TREATMENT OF LIMESTONE TO FORM VATERITE**
[54] **PROCEDES ET SYSTEMES POUR LE TRAITEMENT DE CALCAIRE POUR FORMER DE LA VATERITE**
[72] WEISS, MICHAEL JOSEPH, US
[72] GILLIAM, RYAN J., US
[73] ARELAC, INC., US
[85] 2022-08-15
[86] 2021-02-25 (PCT/US2021/019585)
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[25] EN
[54] **SOFT ABSORBENT SHEETS, STRUCTURING FABRICS FOR MAKING SOFT ABSORBENT SHEETS, AND METHODS OF MAKING SOFT ABSORBENT SHEETS**
[54] **FEUILLES ABSORBANTES DOUCES, TISSUS STRUCTURANTS POUR LA FABRICATION DE FEUILLES ABSORBANTES DOUCES, ET PROCEDES DE FABRICATION DE FEUILLES ABSORBANTES DOUCES**
[72] SZE, DANIEL HUE MING, US
[72] FAN, XIAOLIN, US
[72] CHOU, HUNG-LIANG, US
[72] ORIARAN, TAIYE PHILIPS, US
[72] ANAND, FARMINDER SINGH, US
[72] BAUMGARTNER, DEAN JOSEPH, US
[72] MILLER, JOSEPH HENRY, US
[73] GPCP IP HOLDINGS LLC, US
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[54] **METHOD FOR PRODUCING STEEL COMPONENT HAVING LOCALLY SOFTENED PART**
[54] **PROCEDE DE FABRICATION D'ELEMENT EN ACIER DOTE DE SECTION RAMOLLIE LOCALEMENT**
[72] MIZUTA, NAOKI, JP
[73] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2022-08-12
[86] 2021-01-15 (PCT/JP2021/001266)
[87] (WO2021/181866)
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[54] **MULTIPLE SYSTEM PORTS USING A TIME DELAY VALVE**
[54] **ORIFICES DE SYSTEMES UTILISANT UNE VANNE A RETARD TEMPOREL**
[72] NOVELEN, RYAN MICHAEL, US
[72] WILLIAMSON, EDMUND CHRISTOPHER, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-08-23
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[25] EN
[54] **METHODS AND SYSTEMS FOR PROTECTING A SECURED NETWORK**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE PROTEGER UN RESEAU SECURISE**
[72] ROGERS, STEVEN, US
[72] MOORE, SEAN, US
[73] CENTRIPETAL LIMITED, IE
[86] (3171299)
[87] (3171299)
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[54] **OPTIMIZING DOWNHOLE DATA COMMUNICATION WITH AT BIT SENSORS AND NODES**
[54] **OPTIMISATION D'UNE COMMUNICATION DE DONNEES DE FOND DE TROU AVEC DES CAPTEURS DE TREPAN ET DES N.UDS**
[72] DERKACZ, PATRICK R., CA
[72] LOGAN, AARON, CA
[72] LOGAN, JUSTIN C., CA
[72] LIU, JILI, CA
[72] SWITZER, DAVID A., CA
[72] HARRIS, ROBERT, CA
[72] BUTERNOWSKY, BARRY DANIEL, CA
[72] WEST, KURTIS, CA
[73] EVOLUTION ENGINEERING INC., CA
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[54] **PROCESS, METHOD, AND SYSTEM FOR REMOVING HEAVY METALS FROM FLUIDS**
[54] **PROCESSUS, PROCEDE ET SYSTEME POUR ELIMINER DES METAUX LOURDS A PARTIR DE FLUIDES**
[72] COOPER, RUSSELL EVAN, US
[72] O'REAR, DENNIS JOHN, US
[72] YEAN, SUJIN, US
[72] ODUEYUNGBO, SEYI ABIODUN, US
[73] CHEVRON U.S.A. INC., US
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[87] (3171424)
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[25] EN
[54] **PORTABLE LIGHT AND KEYED RECHARGEABLE USB BATTERY**
[54] **LAMPE PORTATIVE ET BATTERIE USB RECHARGEABLE A DETROMPAGE**
[72] SHARRAH, RAYMOND L., US
[72] EICHELBERGER, CLEATIS A., US
[72] BORIS, THOMAS D., US
[73] STREAMLIGHT, INC., US
[85] 2022-09-16
[86] 2022-01-04 (PCT/US2022/011090)
[87] (WO2022/155027)
[30] US (63/136,900) 2021-01-13
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[54] **WATER DIKE**
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[72] GILES, NORMAND, CA
[73] GILES, NORMAND, CA
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[25] EN
[54] **HIGH-QUALITY COKE PRODUCTS**
[54] **PRODUITS DE COKE DE GRANDE QUALITE**
[72] QUANCI, JOHN FRANCIS, US
[72] PERKINS, JONATHAN, US
[73] SUNCOKE TECHNOLOGY AND DEVELOPMENT LLC, US
[85] 2022-10-26
[86] 2021-05-03 (PCT/US2021/030520)
[87] (WO2021/225988)
[30] US (63/019,405) 2020-05-03

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[54] **MAGNETIC DRIVE HAVING A LIQUID-COOLED HIGH TORQUE AND HIGH POWER APPARATUS**
[54] **COMMANDE MAGNETIQUE A COUPLE ELEVE REFROIDI PAR LIQUIDE ET APPAREIL DE GRANDE PUISSANCE**
[72] CORBIN III, PHILIP, US
[72] BRAUN, RICHARD, US
[72] SPARKS, MICHAEL TROY, US
[73] FLUX DRIVE LLC, US
[85] 2022-12-21
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[87] (WO2021/262220)
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[54] **MIXED FLEET CAPABLE LUBRICATING COMPOSITIONS**
[54] **COMPOSITIONS DE LUBRIFICATION CAPABLES DE FLOTTE MIXTE**
[72] GILES, NICHOLAS, US
[72] RITZENTHALER, ABAIGEAL, US
[72] DONHAM, LEAH, US
[73] AFTON CHEMICAL CORPORATION, US
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[87] (3184305)
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[25] EN
[54] **LAUNDER COVER AND COVER SYSTEM AND PROCESSES TO MAKE LAUNDER COVER ASSEMBLIES**
[54] **COUVERCLE DE CHENAL ET SYSTEME DE COUVERCLE ET PROCESSUS POUR FABRIQUER DES ENSEMBLES DE COUVERCLE DE CHENAL DE COULEE**
[72] SCHMIDT, KEVIN GEORGE, US
[72] BARBERA, GUSTAVO, US
[72] JOSHI, ROHIT, US
[73] ENDURO COMPOSITES, INC., US
[85] 2022-12-28
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[25] EN
[54] **APPARATUS AND CONTROL OF A SINGLE OR MULTIPLE SOURCES TO FIRE COUNTERMEASURE EXPENDABLES**
[54] **APPAREIL ET COMMANDE D'UNE SOURCE UNIQUE OU MULTIPLE A DES CONSOMMABLES DE CONTRE-MESURE D'INCENDIE**
[72] BRANCH, JASON H., US
[72] HERB, KARL P., US
[72] PLEMONS, DANNY L., US
[73] BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC., US
[85] 2022-11-29
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[54] **FOLDABLE HANGER**
[54] **CINTRE PLIABLE**
[72] JAKES, BORIS, SK
[72] JAKES, ZDENEK, SK
[73] JAKES, BORIS, SK
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[54] **SELF-LOCKING THREADED CONNECTION PARTIALLY IN NON-LOCKING ENGAGEMENT**
[54] **CONNEXION FILETEE AUTOBLOQUANTE PARTIELLEMENT EN PRISE SANS BLOCAGE**
[72] OTT, WESLEY, FR
[72] VAN GORP, LOGAN, FR
[72] GRANGER, SCOTT, FR
[73] VALLOUREC OIL AND GAS FRANCE, FR
[73] NIPPON STEEL CORPORATION, JP
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[25] EN
[54] **METHODS AND SYSTEMS FOR PRODUCTION OF DOPED CARBON NANOMATERIALS**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION DE NANOMATERIAUX DE CARBONE DOPES**
[72] LICHT, STUART, US
[73] C2CNT LLC, US
[86] (3198973)
[87] (3198973)
[22] 2018-02-21
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[25] EN
[54] **METHODS AND SYSTEMS FOR PRODUCTION OF DOPED CARBON NANOMATERIALS**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION DE NANOMATERIAUX DE CARBONE DOPES**
[72] LICHT, STUART, US
[73] C2CNT LLC, US
[86] (3198982)
[87] (3198982)
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[51] **Int.Cl. G02C 7/02 (2006.01) G02C 7/06 (2006.01) G02C 7/16 (2006.01)**
[25] EN
[54] **SPECTACLE LENS DESIGN, SPECTACLE LENS KIT AND METHOD OF MANUFACTURING A SPECTACLE LENS**
[54] **CONCEPTION DE VERRE DE LUNETTES, KIT DE VERRE DE LUNETTES ET PROCEDE DE FABRICATION D'UN VERRE DE LUNETTES**
[72] BRAUNGER, DIETER, DE
[73] CARL ZEISS VISION INTERNATIONAL GMBH, DE
[85] 2023-05-25
[86] 2021-11-26 (PCT/EP2021/083245)
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[51] **Int.Cl. A23L 2/84 (2006.01) A23L 7/104 (2016.01) A23C 11/10 (2021.01) A23J 1/12 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING A LIQUID FOOD PRODUCT AND LIQUID FOOD PRODUCT OBTAINED THEREOF**
[54] **PROCEDE D'OBTENTION D'UN PRODUIT ALIMENTAIRE LIQUIDE ET PRODUIT ALIMENTAIRE LIQUIDE OBTENU A PARTIR DE CELUI-CI**
[72] ERRA SERRABASA, JOSEP M., ES
[72] NEBRA SOLER, MONTSE, ES
[72] CASTINEIRA BUSQUETS, LAURA, ES
[72] CASARAMONA CODINACH, JORDI, ES
[72] BERNAT PEREZ, NEUS, ES
[72] ABAD SANCHEZ, SERGI, ES
[72] GUTIERREZ MONTERO, ALBA, ES
[73] LIQUATS VEGETALS, SA, ES
[85] 2023-06-16
[86] 2022-08-31 (PCT/EP2022/074154)
[87] (WO2023/099052)
[30] EP (PCT/EP2021/083977) 2021-12-02

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[25] EN
[54] **CONDITION BASED MONITORING OF IRRIGATION**
[54] **SURVEILLANCE D'IRRIGATION BASEE SUR DES CONDITIONS**
[72] SANDERS, RUSSELL, US
[72] PAVELSKI, JEREMIE, US
[72] BUCHBURGER, ROBERT, US
[73] HEARTLAND AG TECH, INC., US
[85] 2023-06-05
[86] 2021-12-22 (PCT/US2021/064900)
[87] (WO2022/140569)
[30] US (63/129,799) 2020-12-23

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[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/158 (2006.01) A61M 5/20 (2006.01) A61M 5/32 (2006.01) A61M 5/42 (2006.01)**
[25] EN
[54] **INFUSION SET AND INSERTER ASSEMBLY SYSTEMS AND METHODS**
[54] **ENSEMBLE DE PERFUSION, SYSTEMES D'ENSEMBLE D'INSERTION ET PROCEDES**
[72] LANIGAN, RICHARD J., US
[72] FERRIS, JOSHUA I., US
[73] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[86] (3208266)
[87] (3208266)
[22] 2020-02-21
[62] 3,126,999
[30] US (62/809,248) 2019-02-22

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[51] **Int.Cl. C08L 23/10 (2006.01)**
[25] EN
[54] **MIXED-PLASTICS-POLYPROPYLENE BLEND**
[54] **MELANGE DE MATIERES PLASTIQUES MIXTES ET DE POLYPROPYLENE**
[72] TRAN, TUAN ANH, AT
[72] LOPES FILIPE, SUSANA, AT
[72] NAGL, ANDREAS, AT
[72] MACHL, DORIS, AT
[72] ROSSLER-CZERMAK, ANDREAS, AT
[73] BOREALIS AG, AT
[85] 2023-09-20
[86] 2022-03-25 (PCT/EP2022/057953)
[87] (WO2022/200588)
[30] EP (21165397.7) 2021-03-26
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[51] **Int.Cl. C10L 9/06 (2006.01) C10B 57/08 (2006.01)**
[25] EN
[54] **OXIDATION DEVICE, OXIDATION METHOD, AND METHOD FOR PRODUCING MODIFIED FUEL**
[54] **DISPOSITIF D'OXYDATION, PROCEDE D'OXYDATION ET PROCEDE POUR LA PRODUCTION DE COMBUSTIBLE MODIFIE**
[72] SEKIMOTO, KENICHI, JP
[72] MORI, EIICHIROH, JP
[73] NIPPON STEEL ENGINEERING CO., LTD., JP
[85] 2023-10-03
[86] 2022-03-15 (PCT/JP2022/011733)
[87] (WO2022/270046)
[30] JP (2021-104606) 2021-06-24

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[25] EN
[54] **APPARATUS, SYSTEM AND METHOD FOR DIRECT CAPTURE OF CARBON-CONTAINING GAS**
[54] **APPAREIL, SYSTEME ET PROCEDE DE CAPTURE DIRECTE DE GAZ CONTENANT DU CARBONE**
[72] LICHT, STUART, US
[72] LICHT, GAD, US
[73] DIRECT AIR CAPTURE, LLC, US
[85] 2023-10-26
[86] 2022-04-26 (PCT/US2022/026365)
[87] (WO2022/232155)
[30] US (63/179,778) 2021-04-26
[30] US (63/305,544) 2022-02-01
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[11] **3,218,837**
[13] C
[51] **Int.Cl. G01N 27/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SMART MATERIAL MONITORING**
[54] **SYSTEME ET PROCEDE PERMETTANT UNE SURVEILLANCE INTELLIGENTE D'UN MATERIAU**
[72] AGOSTINELLI, GREGORY A., CA
[72] HANNA, STEVEN NASHED, US
[72] MIREL, IONUT ALEXANDRU, CA
[73] IDEACURIA INC., CA
[86] (3218837)
[87] (3218837)
[22] 2016-06-10
[62] 2,989,096
[30] US (62/174,918) 2015-06-12

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[11] **3,224,834**
[13] C
[51] **Int.Cl. G01S 13/02 (2006.01) B60W 50/14 (2020.01) H04L 67/12 (2022.01) G07C 5/08 (2006.01)**
[25] EN
[54] **A SYSTEM FOR INSTALLING, OPERATING AND CONFIGURING AFTERMARKET VEHICLE SAFETY SYSTEMS**
[54] **SYSTEME D'INSTALLATION, DE FONCTIONNEMENT ET DE CONFIGURATION DE SYSTEMES DE SECURITE DE VEHICULES AUTOMOBILES APRES VENTE**
[72] WOODFORD, PETER, AU
[73] AUSTRALIAN MITIGATION ENGINEERING DEVELOPMENTS PTY LTD, AU
[85] 2024-01-03
[86] 2022-07-06 (PCT/AU2022/050705)
[87] (WO2023/279158)
[30] AU (2021902058) 2021-07-06

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[13] A1
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[25] EN
[54] **PHOSPHORIC ACID ESTERS, METHOD OF SYNTHETIZING THEM AND USE THEREOF AS DISPERSANTS**
[54] **ESTERS D'ACIDE PHOSPHORIQUE, METHODE DE SYNTHESE ET UTILISATION CONNEXE COMME DISPERSANTS**
[72] MOUSTAFA, ESLAM, EG
[72] ABOULELA, EFFAT, EG
[71] DELTA SPECIALTIES, EG
[22] 2022-10-03
[41] 2024-04-03

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[21] **3,178,281**
[13] A1
[51] **Int.Cl. G08G 9/00 (2006.01) G08G 5/00 (2006.01)**
[25] FR
[54] **COLLABORATIVE NAVIGATION PROCESS FOR VEHICLES WITH NAVIGATION SOLUTIONS WITH DIFFERENT ACCURACIES**
[54] **PROCEDE DE NAVIGATION COLLABORATIVE POUR DES VEHICULES DISPOSANT DE SOLUTIONS DE NAVIGATION DE PRECISIONS DIFFERENTES**
[72] FEYEL, PHILIPPE, FR
[72] ELIE, PHILIPPE, FR
[71] SAFRAN ELECTRONICS & DEFENSE, FR
[71] SAFRAN ELECTRONICS & DEFENSE CANADA, CA
[22] 2022-10-03
[41] 2024-04-03

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[21] **3,178,332**
[13] A1
[51] **Int.Cl. G06Q 90/00 (2006.01) G06Q 50/18 (2012.01)**
[25] EN
[54] **PRIVATE LEGAL SYSTEM**
[54] **SYSTEME JURIDIQUE PRIVE**
[72] WYMAN, BLAKE, CA
[71] WYMAN, BLAKE, CA
[22] 2022-10-04
[41] 2024-04-04

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[21] **3,178,441**
[13] A1
[51] **Int.Cl. H04L 12/00 (2006.01) H04L 41/16 (2022.01) H04L 9/00 (2022.01) H04L 9/32 (2006.01)**
[25] EN
[54] **DATA TRANSMISSION BETWEEN DEVICES**
[54] **TRANSMISSION DE DONNEES ENTRE LES DISPOSITIFS**
[72] NICOLA, WILTEN, CA
[72] GRUBER, AARON, CA
[71] NICOLA, WILTEN, CA
[71] GRUBER, AARON, CA
[22] 2022-10-05
[41] 2024-04-05

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[21] **3,178,514**
[13] A1
[51] **Int.Cl. E06B 9/42 (2006.01) E06B 9/40 (2006.01)**
[25] EN
[54] **ROLL-UP CONTROL DEVICE FOR ROLLER SHADE**
[54] **DISPOSITIF DE COMMANDE D~ENROULEMENT POUR UN STORE A ROULEAU**
[72] WANG, CHIH-YUNG, TW
[71] WANG, CHIH-YUNG, TW
[22] 2022-10-06
[41] 2024-04-06

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[21] **3,178,519**
[13] A1
[51] **Int.Cl. G08B 25/10 (2006.01) G06Q 10/063 (2023.01) G08B 27/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING EMERGENCY RESPONSE AT LARGE-SCALE EVENTS**
[54] **SYSTEME ET METHODE POUR FOURNIR UNE INTERVENTION D~URGENCE A DES EVENEMENTS A GRANDE ECHELLE**
[72] HART, WILLIAM, CA
[72] ROSS, TYLER, CA
[72] STOYANCHEV, KALIN, US
[71] EVENTPREP CANADA INC., CA
[22] 2022-10-05
[41] 2024-04-05

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[21] **3,178,530**
[13] A1
[51] **Int.Cl. A01K 1/03 (2006.01) A01K 1/02 (2006.01) A01K 5/00 (2006.01)**
[25] FR
[54] **REHABILITATION/RELEASE CAGE, NEST BOXES AND RELEASE PROCESS FOR EASTERN GREY SQUIRRELS (SCIURUS CAROLINENSIS)**
[54] **CAGE DE REHABILITATION/RELACHE, BOITES-NIDS ET PROCESSUS DE RELACHE POUR ECUREUILS GRIS (SCIURUS CARFOLINENSIS)**
[72] PAGACZ, DOMINIK, CA
[71] PAGACZ, DOMINIK, CA
[22] 2022-10-05
[41] 2024-04-05

[21] **3,178,562**
[13] A1
[51] **Int.Cl. B60R 1/00 (2022.01)**
[25] EN
[54] **PARKING ASSISTIVE SYSTEM AND METHOD THEREOF**
[54] **SYSTEME ET METHODE D'AIDE AU STATIONNEMENT**
[72] YOON, YONG SAN, CA
[71] YOON, YONG SAN, CA
[22] 2022-10-05
[41] 2024-04-05

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[21] **3,178,693**
[13] A1
[51] **Int.Cl. A61F 11/14 (2006.01) A41D 13/05 (2006.01)**
[25] EN
[54] **EAR COVERING DEVICE**
[54] **DISPOSITIF COUVRE-OREILLE**
[72] PYE, WADE, CA
[71] PYE, WADE, CA
[22] 2022-10-07
[41] 2024-04-06
[30] US (17/938,356) 2022-10-06

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[21] **3,179,677**
[13] A1
[51] **Int.Cl. E06B 9/15 (2006.01) E06B 9/11 (2006.01) E06B 9/34 (2006.01)**
[25] EN
[54] **ROLLING SHUTTER RETRACTABLE STOP BAR**
[54] **BUTEE RETRACTABLE POUR VOLET A ROULEAU**
[72] ZARBECK, CRAIG N., US
[72] AMIL, ORLANDO, US
[71] QUALITAS MANUFACTURING INCORPORATED, US
[22] 2022-10-19
[41] 2024-04-03
[30] US (17/958,588) 2022-10-03

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[21] **3,179,847**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING MULTI-CHANNEL AUTHENTICATION**
[54] **SYSTEME ET METHODE POUR FOURNIR UNE AUTHENTIFICATION MULTICANALE**
[72] LIDDY, JAQUELYN, CA
[72] ALLEN, ROBERT DEAN, CA
[72] HAMMOND, JOEL DAVID, CA
[72] PONNAMANENI, VAMSHIDAR, CA
[72] TEVLIN, RYAN JAMES, CA
[72] SANTOS, SARA SABRINA ALBUEN, CA
[72] JONES, RICHARD, CA
[72] NAICK, BIJOY, CA
[72] HOXHA, BLERINA, CA
[72] KESTAY, MERAD, CA
[72] BOUCHARD, CATHARINE EUGENIE, CA
[72] KUNDLEY, ANIRUDDHA PRAKASH, CA
[72] GREENFIELD, MEREDITH KATHARINE CARTER, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-10-25
[41] 2024-04-05
[30] US (17/960,189) 2022-10-05

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[21] **3,192,964**
[13] A1
[51] **Int.Cl. H05B 47/00 (2020.01) H05B 45/00 (2022.01) H05B 45/20 (2020.01) H05B 47/11 (2020.01) A47G 29/122 (2006.01) H02J 7/35 (2006.01)**
[25] EN
[54] **LUMINAIRE FOR USE WITH A MAILBOX**
[54] **APPAREIL D'ECLAIRAGE POUR BOITE AUX LETTRES**
[72] SHERMAN, DAVID, CA
[71] SHERMAN, DAVID, CA
[22] 2023-03-14
[41] 2024-04-05
[30] US (63/413,289) 2022-10-05

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[21] **3,197,430**
[13] A1
[51] **Int.Cl. H02J 15/00 (2006.01) H02K 1/06 (2006.01)**
[25] EN
[54] **PORTABLE POWER STORAGE DEVICE WITH A SELF-GENERATION AND NANO-CAPACITOR STORAGE STRUCTURE**
[54] **DISPOSITIF DE STOCKAGE DE PUISSANCE PORTATIF COMPRENANT UNE STRUCTURE DE STOCKAGE A AUTOPRODUCTION ET NANOCONDENSATEUR**
[72] JANG, SUK HO, KR
[71] JANG, SUK HO, KR
[22] 2023-04-18
[41] 2024-04-05
[30] KR (10-2022-0126864) 2022-10-05

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[21] **3,199,063**
[13] A1
[51] **Int.Cl. C07C 7/144 (2006.01) A23L 33/10 (2016.01) A23L 33/105 (2016.01) A61K 9/00 (2006.01) A61K 31/01 (2006.01) A61K 31/352 (2006.01)**
[25] EN
[54] **POST EXTRACTION PURIFICATION OF TERPENES**
[54] **EPURATION DE TERPENES APRES L'EXTRACTION**
[72] CAREY, CHAD ARTHUR, US
[71] VAPOR OIL TECHNOLOGY LLC, US
[22] 2023-05-08
[41] 2024-04-05
[30] US (17/990,991) 2022-11-21
[30] US (17/960,682) 2022-10-05

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[21] **3,199,065**
[13] A1
[51] **Int.Cl. C07D 311/80 (2006.01)**
[25] EN
[54] **THIN FILM OXIDATION OF CRYSTALLIZED CANNABIS PRODUCTS**
[54] **OXYDATION DE COUCHE MINCE DE PRODUITS DE CANNABIS CRISTALLISES**
[72] CAREY, CHAD ARTHUR, US
[71] VAPOR OIL TECHNOLOGY LLC, US
[22] 2023-05-08
[41] 2024-04-05
[30] US (17/960,682) 2022-10-05

[21] **3,207,119**
[13] A1
[25] EN
[54] **NUCLEAR REACTOR NEUTRON REFLECTOR**
[54] **REFLECTEUR DE NEUTRONS POUR UN REACTEUR NUCLEAIRE**
[72] LUCAS, TIMOTHY RYAN, US
[72] SAITTA, MICHAEL, US
[72] BEIRNAERT, GWENNAEL, US
[72] VAN STADEN, MARTIN PETER, US
[71] X-ENERGY, LLC, US
[22] 2023-07-20
[41] 2024-04-01
[30] US (17/958.363) 2022-10-01

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[21] **3,207,170**
[13] A1
[51] **Int.Cl. F16K 17/00 (2006.01) B64D 47/00 (2006.01) F16K 21/00 (2006.01)**
[25] EN
[54] **PRESSURE REGULATING SHUT-OFF VALVE**
[54] **ROBINET D'ARRET DE REGULATION DE PRESSION**
[72] MORNACCHI, ANDREA, IT
[72] QUAGLIA, ENRICO, IT
[72] CAPPO, MATTEO, IT
[71] MICROTECNICA S.R.L., IT
[22] 2023-07-11
[41] 2024-04-03
[30] EP (22199392.6) 2022-10-03

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[21] **3,207,176**
[13] A1
[51] **Int.Cl. F16K 17/06 (2006.01) B64D 47/00 (2006.01) F16K 31/06 (2006.01)**
[25] EN
[54] **VALVE ASSEMBLY**
[54] **ASSEMBLAGE DE SOUPAPE**
[72] MEZZINO, GIACOMO, IT
[72] SALVATORIELLO, GIANFRANCO, IT
[71] MICROTECNICA S.R.L., IT
[22] 2023-07-11
[41] 2024-04-04
[30] EP (22425046.4) 2022-10-04

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[21] **3,207,899**
[13] A1
[51] **Int.Cl. B64C 11/20 (2006.01) B29C 70/08 (2006.01) B63H 1/26 (2006.01) B64C 27/473 (2006.01) F01D 5/14 (2006.01)**
[25] EN
[54] **PROPELLER BLADE**
[54] **PALE D'HELICE**
[72] AMAT, PASCAL, FR
[72] PICOT, OLIVIER, FR
[71] RATIER-FIGEAC SAS, FR
[22] 2023-07-28
[41] 2024-04-03
[30] EP (22306464.3) 2022-10-03

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[21] **3,208,165**
[13] A1
[51] **Int.Cl. G06K 7/10 (2006.01) G06V 30/40 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING THE AUTHENTICITY OF AN IDENTITY DOCUMENT**
[54] **METHODES ET SYSTEMES POUR DETERMINER L~AUTHENTICITE D~UN DOCUMENT D~IDENTITE**
[72] RODRIGUEZ, RAPHAEL A., US
[71] RODRIGUEZ, RAPHAEL A., US
[22] 2023-08-02
[41] 2024-04-04
[30] US (17/959,731) 2022-10-04
[30] US (18/096,644) 2023-01-13
[30] US (18/177,989) 2023-03-03

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[21] **3,209,645**
[13] A1
[51] **Int.Cl. B32B 7/02 (2019.01) B32B 9/04 (2006.01) B32B 9/06 (2006.01) B32B 23/06 (2006.01) B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 37/02 (2006.01) B65D 30/08 (2006.01)**
[25] EN
[54] **MULTILAYER PACKAGING MATERIAL AND METHOD FOR MAKING SAME**
[54] **MATERIAU D~EMBALLAGE MULTICOUCHE ET METHODE DE FABRICATION**
[72] MEKONNEN, TIZAZU, CA
[72] ESLAMI, HORMOZ, CA
[71] MEKONNEN, TIZAZU, CA
[71] ESLAMI, HORMOZ, CA
[22] 2023-08-18
[41] 2024-04-06
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[21] **3,209,968**
[13] A1
[51] **Int.Cl. H01P 5/00 (2006.01) H04B 3/14 (2006.01) H04B 3/46 (2015.01)**
[25] EN
[54] **CABLE NETWORK DEVICE WITH LOW LOSS MEASUREMENT PORT**
[54] **DISPOSITIF DE RESEAU DE CABLES DISPOSANT D'UN PORT DE MESURE A FAIBLES PERTES**
[72] ARIESEN, JAN, NL
[72] BOGAJ, PREMTON, NL
[72] LARO, MATTHIJS, NL
[71] TECHNETIX B.V., NL
[22] 2023-08-23
[41] 2024-04-04
[30] GB (2214602.1) 2022-10-04

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[21] **3,210,714**
[13] A1
[51] **Int.Cl. A47G 19/32 (2006.01) A47G 19/26 (2006.01) A47J 47/02 (2006.01) B65D 21/036 (2006.01) B65D 25/28 (2006.01)**
[25] EN
[54] **SERVING DISH COVER**
[54] **COUVERCLE POUR PLAT DE SERVICE**
[72] YEE, TEO SOK, US
[72] VERCRUYSSEN, ALEC, US
[72] LORRE, ARTHUR, US
[71] DART INDUSTRIES INC., US
[22] 2023-08-31
[41] 2024-04-06
[30] US (17/961,503) 2022-10-06

[21] **3,210,761**
[13] A1
[51] **Int.Cl. B64D 31/00 (2024.01) B60K 6/00 (2007.10) B64D 27/00 (2006.01)**
[25] EN
[54] **OVERSPEED AND/OR OVERTORQUE PROTECTION FOR HYBRID ELECTRIC AIRCRAFT PROPULSION SYSTEM**
[54] **PROTECTION CONTRE LA SURVITESSE ET/OU LE SURCOUPLE POUR UN SYSTEME DE PROPULSION D~AERONEF ELECTRIQUE HYBRIDE**
[72] SYED, YUSUF, CA
[72] RICCI, THOMAS TREVOR, CA
[72] JARVO, JAMES ROBERT, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-08-31
[41] 2024-04-04
[30] US (17/937,871) 2022-10-04

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[21] **3,210,921**
[13] A1
[51] **Int.Cl. B32B 27/00 (2006.01) B29C 65/50 (2006.01) B32B 7/12 (2006.01) B32B 13/12 (2006.01) B32B 27/04 (2006.01) B32B 37/10 (2006.01) B32B 37/12 (2006.01) E04B 1/80 (2006.01) E04D 1/20 (2006.01) E04D 1/28 (2006.01)**
[25] EN
[54] **WATER-RESISTANT ROOF COVERBOARD PANELS**
[54] **PANNEAUX DE GARNISSAGE DE TOIT RESISTANTS A L'EAU**
[72] WINTEROWD, JACK G., US
[72] SPENCER, MATTHEW, US
[72] SUPUT, MARKO, US
[72] FISHER, MYA, US
[71] CONTINUUS MATERIALS INTELLECTUAL PROPERY, LLC, US
[22] 2023-09-01
[41] 2024-04-03
[30] US (18/300,047) 2023-04-13
[30] US (63/412,594) 2022-10-03

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[21] **3,213,290**
[13] A1
[51] **Int.Cl. B60R 13/01 (2006.01)**
[25] EN
[54] **TRUCK BED LINER WITH CUSHIONING ELEMENTS**
[54] **DOUBLURE DE CAISSE DE CAMION COMPORTANT DES ELEMENTS COUSSINES**
[72] MASANEK, FREDERICK W., JR., US
[72] BUNDA, ANDRZEJ, US
[71] MACNEIL IP LLC, US
[22] 2023-09-18
[41] 2024-04-04
[30] US (17/959,715) 2022-10-04

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[21] **3,213,499**
[13] A1
[51] **Int.Cl. G06Q 40/03 (2023.01) G06Q 20/24 (2012.01) G06Q 30/06 (2023.01)**
[25] EN
[54] **INTEGRATION OF FINANCING INTO A CUSTOMER SELF-CHECKOUT INVOLVING SCANNING PRODUCTS WITH A USER DEVICE**
[54] **INTEGRATION DU FINANCEMENT DANS UNE CAISSE LIBRE-SERVICE CLIENT COMPRENANT LE BALAYAGE DE PRODUITS AVEC UN DISPOSITIF UTILISATEUR**
[72] GLOVER, ELLEN, US
[72] KARTHIKEYAN, AJAI, US
[72] TANG, NELSON, CA
[71] AFFIRM, INC., US
[22] 2023-09-21
[41] 2024-04-03
[30] US (17/958,641) 2022-10-03

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[21] **3,213,681**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01) F04B 47/00 (2006.01)**
[25] EN
[54] **POWER END MOUNT PLATE**
[54] **PLAQUE DE MONTAGE ELECTRIQUE D'EXTREMITE**
[72] KAY, KONNER CASEY, US
[71] GD ENERGY PRODUCTS, LLC, US
[22] 2023-09-22
[41] 2024-04-03
[30] US (17/958,633) 2022-10-03
[30] US (18/096,901) 2023-01-13

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[21] **3,213,919**
[13] A1
[25] EN
[54] **STOCHASTIC CONTENT CANDIDATE SELECTION FOR CONTENT RECOMMENDATION**
[54] **SELECTION DE CANDIDAT DE CONTENU STOCHASTIQUE POUR UNE RECOMMANDATION DE CONTENU**
[72] BAMBHA, ABHISHEK, US
[72] MAHTO, ROHIT, US
[72] VO, NAM, US
[72] WANG, ZIDONG, US
[72] XIAO, FEI, US
[71] ROKU, INC., US
[22] 2023-09-22
[41] 2024-04-03
[30] US (17/937497) 2022-10-03

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[21] **3,214,089**
[13] A1
[51] **Int.Cl. B65G 47/252 (2006.01) B65G 47/40 (2006.01)**
[25] EN
[54] **SHIFTING, RE-ORIENTING, ORGANIZING, AND/OR ROUTING OBJECTS INCLUDING PARCELS AND PACKAGES**
[54] **DEPLACEMENT, REORIENTATION, ORGANISATION ET/OU ACHEMINEMENT D'OBJETS, Y COMPRIS DES COLIS ET DES PAQUETS**
[72] WOODROUGH, STEPHENS B., JR, US
[72] BROWN, JOSHUA D., US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[22] 2023-09-26
[41] 2024-04-05
[30] US (17/960,631) 2022-10-05

[21] **3,214,143**
[13] A1
[51] **Int.Cl. F17C 7/00 (2006.01) F17C 13/04 (2006.01) F17C 13/06 (2006.01)**
[25] EN
[54] **DEVICE FOR PROTECTING A DEVICE FOR SUPPLYING PRESSURISED FLUID**
[54] **DISPOSITIF DE PROTECTION D'UN DISPOSITIF POUR L'ALIMENTATION DE FLUIDE SOUS PRESSION**
[72] FRENAL, ANTOINE, FR
[72] WIEMER, KLAUS, DK
[72] WINTHER, MORTEN, DK
[72] BANGGAARD STEFFENSEN, KASPER, DK
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[71] MICRO MATIC A/S, DK
[22] 2023-09-26
[41] 2024-04-04
[30] EP (22306475.9) 2022-10-04

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[21] **3,214,207**
[13] A1
[51] **Int.Cl. F16L 3/00 (2006.01) A47F 5/00 (2006.01) H02G 7/05 (2006.01)**
[25] EN
[54] **J-HOOK**
[54] **CROCHET EN J**
[72] CARAMICO, STEVEN M., US
[71] SOUTHWIRE COMPANY, LLC, US
[22] 2023-09-27
[41] 2024-04-03
[30] US (63/378,153) 2022-10-03

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[21] **3,214,260**
[13] A1
[51] **Int.Cl. E04B 2/74 (2006.01)**
[25] EN
[54] **T-SHAPED CORNER BRACKET APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE DE GOUSSET D'ANGLE EN T**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] MOORE, PAIGE BARBARA, US
[72] BERTKE, PATRICK JOSEPH, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-27
[41] 2024-04-03
[30] US (17/958,672) 2022-10-03

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[21] **3,214,261**
[13] A1
[51] **Int.Cl. E04F 13/21 (2006.01) E04F 13/07 (2006.01) E04F 13/26 (2006.01)**
[25] EN
[54] **LOCKING APPARATUS AND SYSTEM**
[54] **APPAREIL ET SYSTEME DE VERROUILLAGE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] MOORE, PAIGE BARBARA, US
[72] BERTKE, PATRICK JOSEPH, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-27
[41] 2024-04-05
[30] US (17/960,220) 2022-10-05

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[21] **3,214,416**
[13] A1
[51] **Int.Cl. G04G 5/00 (2013.01) H05B 47/16 (2020.01)**
[25] EN
[54] **LOCAL TIME DETERMINATION VIA DAYLIGHT SENSING FOR PROGRAMMABLE CONTROL DEVICES**
[54] **DETERMINATION DE L~HEURE LOCALE AU MOYEN DE LA DETECTION DE LA LUMIERE DU JOUR POUR DES DISPOSITIFS A COMMANDE PROGRAMMABLE**
[72] HAMLIN, ROBERT W., US
[72] GROSS, PHILIP S., US
[72] WESTRICK, RICHARD L., JR., US
[72] KELLER, JOHN, US
[71] ABL IP HOLDING LLC, US
[22] 2023-09-28
[41] 2024-04-02
[30] US (63/412,523) 2022-10-02

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[21] **3,214,427**
[13] A1
[25] EN
[54] **SCREW PILE DRIVING APPARATUS**
[54] **APPAREIL D~ENTRAINEMENT DE PIEUX VISSES**
[72] WATTS, COLLIN, CA
[71] WATTS, COLLIN, CA
[22] 2023-09-27
[41] 2024-04-04
[30] US (63/413,024) 2022-10-04

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[21] **3,214,556**
[13] A1
[51] **Int.Cl. E21B 44/06 (2006.01) E21B 23/08 (2006.01) E21B 31/113 (2006.01)**
[25] EN
[54] **EXTENDED REACH AND JARRING TOOL FOR A BOTTOM HOLE ASSEMBLY**
[54] **OUTIL DE BATTAGE A PORTEE ETENDUE POUR UN ASSEMBLAGE DE FOND DE TROU**
[72] MCCLURE, JOHN D., US
[72] STRATTON, ROBERT, US
[72] NYBERG, RYAN, US
[72] AGUILERA, CYNTHIA, US
[72] HUGHES, CHRIS, US
[71] KLX ENERGY SERVICES LLC, US
[22] 2023-09-28
[41] 2024-04-06
[30] US (63/413,775) 2022-10-06
[30] US (63/526,881) 2023-07-14

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[21] **3,214,559**
[13] A1
[51] **Int.Cl. E21B 21/08 (2006.01) E21B 4/02 (2006.01) E21B 7/24 (2006.01)**
[25] EN
[54] **EXTENDED REACH TOOL FOR A BOTTOM HOLE ASSEMBLY**
[54] **OUTIL A PORTEE ETENDUE POUR UN ASSEMBLAGE DE FOND DE TROU**
[72] MCCLURE, JOHN D., US
[72] STRATTON, ROBERT, US
[72] NYBERG, RYAN, US
[71] KLX ENERGY SERVICES LLC, US
[22] 2023-09-28
[41] 2024-04-06
[30] US (63/413,775) 2022-10-06
[30] US (63/526,881) 2023-07-14
[30] US (63/533,795) 2023-08-21

[21] **3,214,625**
[13] A1
[51] **Int.Cl. F16K 15/03 (2006.01) E21B 34/02 (2006.01)**
[25] EN
[54] **TWO-PIN CLAPPER CHECK VALVE**
[54] **CLAPET DE NON-RETOUR COMPRENANT UN CLAPET ARTICULE A DEUX BROCHES**
[72] FULLER, NADIYA V., US
[72] WITKOWSKI, BRIAN C., US
[71] SPM OIL & GAS INC., US
[22] 2023-09-28
[41] 2024-04-06
[30] US (18/456553) 2023-08-28
[30] US (63/378544) 2022-10-06

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[21] **3,214,672**
[13] A1
[51] **Int.Cl. H01M 50/231 (2021.01) H01M 10/637 (2014.01) H01M 50/284 (2021.01) H01M 50/296 (2021.01) H01M 50/503 (2021.01) H01M 50/519 (2021.01)**
[25] EN
[54] **BATTERY MODULE CLAMSHELL**
[54] **DOUBLE COQUE POUR MODULE DE BATTERIE**
[72] TISCHER, ERIC, US
[72] HOLMES, SCOTT, CA
[72] LOCKWOOD, THOMAS, US
[71] OASIS AEROSPACE INC., CA
[22] 2023-09-29
[41] 2024-04-03
[30] US (63/412,720) 2022-10-03

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[21] **3,214,872**
[13] A1
[51] **Int.Cl. F24F 13/08 (2006.01) F04D 3/00 (2006.01) F24F 7/06 (2006.01)**
[25] EN
[54] **VENTILATION FAN**
[54] **VENTILATEUR**
[72] NIKAM, ANUP, US
[72] DARE, TOM, US
[71] BROAN-NUTONE LLC, US
[22] 2023-09-29
[41] 2024-04-06
[30] US (63/413,728) 2022-10-06

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[21] **3,214,886**
[13] A1
[25] EN
[54] **AUTOMATED METHOD AND PLATFORM FOR ANALYSIS OF SHEAR WAVE VELOCITY OF SUBSURFACE MATERIALS**
[54] **METHODE AUTOMATISEE ET PLATEFORME POUR L~ANALYSE DE LA VITESSE D~ONDE DE CISAILLEMENT DE MATERIAUX DE SUBSURFACE**
[72] LETOURNEAU, OLIVIER, CA
[72] DESGAGNE, JANNY, CA
[72] ARSENAULT, JEAN-LUC, CA
[72] CAMPOS HALAS, DANIEL, CA
[71] GEOPHYSIQUE G.P.R. INTERNATIONAL INC., CA
[22] 2023-09-28
[41] 2024-04-03
[30] US (63/378,155) 2022-10-03

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[21] **3,214,978**
[13] A1
[51] **Int.Cl. B60P 3/24 (2006.01) B65D 88/54 (2006.01) B65D 90/02 (2019.01) F17C 1/00 (2006.01)**
[25] EN
[54] **DUAL GAS TRAILER WITH BLADDER SYSTEM**
[54] **REMORQUE A DEUX GAZ COMPRENANT UN SYSTEME DE VESSIE**
[72] WILKS, ZACHARY J., US
[72] DECKARD, MITCHEL R., US
[71] CATERPILLAR INC., US
[22] 2023-09-28
[41] 2024-04-06
[30] US (17/938,554) 2022-10-06

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[21] **3,214,980**
[13] A1
[51] **Int.Cl. F17C 1/00 (2006.01) B65D 88/12 (2006.01) B65D 88/62 (2006.01) F17C 13/00 (2006.01)**
[25] EN
[54] **DUAL GAS TRAILER WITH SLIDING PISTON**
[54] **REMORQUE A DEUX GAZ COMPRENANT UN PISTON COULISSANT**
[72] WILKS, ZACHARY J., US
[72] DECKARD, MITCHEL R., US
[71] CATERPILLAR INC., US
[22] 2023-09-28
[41] 2024-04-06
[30] US (17/938,541) 2022-10-06

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[21] **3,215,010**
[13] A1
[51] **Int.Cl. E03C 1/264 (2006.01) F16L 55/128 (2006.01) F16L 55/24 (2006.01) G01M 3/00 (2006.01)**
[25] EN
[54] **TEST PLUG FOR A PLUMBING SYSTEM**
[54] **BOUCHON D~ESSAI POUR UN SYSTEME DE PLOMBERIE**
[72] COSCARELLA, GABE, CA
[71] COSCARELLA, GABE, CA
[22] 2023-10-02
[41] 2024-04-02
[30] US (63/412,524) 2022-10-02

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[21] **3,215,032**
[13] A1
[51] **Int.Cl. B60R 25/20 (2013.01) G07C 9/27 (2020.01) B60R 25/10 (2013.01) G06Q 10/0631 (2023.01)**
[25] EN
[54] **VEHICLE FLEET AND ACCESS MANAGEMENT SYSTEM**
[54] **FLOTTE DE VEHICULES ET SYSTEME DE GESTION DE L~ACCES**
[72] WOODCOCK, GERALD C., US
[71] WOODCOCK, GERALD C., US
[22] 2023-10-02
[41] 2024-04-04
[30] US (18/240,102) 2023-08-30
[30] US (63/413,226) 2022-10-04

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[21] **3,215,062**
[13] A1
[51] **Int.Cl. B64D 31/00 (2024.01) F01D 11/00 (2006.01) G05D 16/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING A CONDITION OF GAS TURBINE ENGINE SEALS**
[54] **SYSTEMES ET METHODES POUR DETERMINER UNE CONDITION DE JOINTS DE TURBINE A GAZ**
[72] MARCHAND, NICOLAS, CA
[72] WONG, VELDA, CA
[72] FARVARDIN, EHSAN, CA
[72] TRUDEL, BENOIT, CA
[72] SUBRAMANIAN, SRI KRISHNA, CA
[72] ST-LAURENT, GABRIEL, CA
[72] SEAMAN, BENJAMIN Z., CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-02
[41] 2024-04-04
[30] US (17/959,851) 2022-10-04

[21] **3,215,205**
[13] A1
[51] **Int.Cl. H01B 7/14 (2006.01) H01B 9/00 (2006.01)**
[25] EN
[54] **DYNAMIC SUBMARINE POWER CABLE WITH CORRUGATED AND SMOOTH METALLIC WATER BARRIER**
[54] **CABLE D'ALIMENTATION SOUS-MARIN DYNAMIQUE COMPRENANT UNE BARRIERE D'ETANCHEITE METALLIQUE ONDULEE ET LISSE**
[72] TYRBERG, ANDREAS, SE
[72] ERIKSSON, ERIK, SE
[71] NKT HV CABLES AB, SE
[22] 2023-10-03
[41] 2024-04-04
[30] EP (22199612.7) 2022-10-04

[21] **3,215,268**
[13] A1
[51] **Int.Cl. A63B 53/06 (2015.01)**
[25] EN
[54] **PUTTER HEAD AND STRIKE FACE INSERT THEREFOR**
[54] **TETE DE POTTEUR ET PIECE RAPPORTEE DE FACE DE FRAPPE CONNEXE**
[72] BALABAN, MATTHEW, CA
[72] RAFLEWSKI, GARETH, CA
[72] LEFEBVRE, MARC, CA
[72] COWX, SCOTT, CA
[72] COWX, DAVID, CA
[71] BLACKSMITH GOLF COMPANY INC., CA
[22] 2023-10-03
[41] 2024-04-05
[30] US (63/413410) 2022-10-05

[21] **3,215,286**
[13] A1
[51] **Int.Cl. C04B 28/06 (2006.01) C04B 7/32 (2006.01) C04B 22/00 (2006.01) C04B 40/02 (2006.01) C04B 41/00 (2006.01)**
[25] EN
[54] **PACKAGED, DRY, RAPID-HARDENING CEMENTITIOUS MATERIAL FOR CONCRETE REPAIRS IN COLD, FREEZING, AND SUB-ZERO TEMPERATURE CONDITIONS**
[54] **LIANT HYDRAULIQUE COMPACTE, SEC ET A DURCISSEMENT RAPIDE POUR LES REPARATIONS DE BETON DANS DES CONDITIONS DE FROID, DE GEL ET DE TEMPERATURES INFERIEURES A ZERO**
[72] PLATTENBERGER, DAN AUSTIN, US
[71] OLDCASTLE APG, INC., US
[22] 2023-10-03
[41] 2024-04-03
[30] US (63/412,662) 2022-10-03

[21] **3,215,334**
[13] A1
[51] **Int.Cl. E21B 43/01 (2006.01) E21B 33/035 (2006.01)**
[25] EN
[54] **DISPOSITIF JOINT TOURNANT D'UNE INSTALLATION D'EXPLOITATION D'ENERGIE, TYPE PLATEFORME OFFSHORE, ET INSTALLATION COMPORTANT UN TEL DISPOSITIF**
[54] **ROTARY JOINT DEVICE FOR AN ENERGY EXPLOITATION INSTALLATION, OFFSHORE PLATFORM TYPE, AND INSTALLATION COMPRISING SUCH A DEVICE**
[72] MENARDO, PHILIPPE, FR
[72] CAPON, CHARLES, FR
[72] SAINT-MICHEL, LAURENT, FR
[71] ETI GROUP, FR
[22] 2023-10-04
[41] 2024-04-05
[30] FR (2210182) 2022-10-05

[21] **3,215,351**
[13] A1
[51] **Int.Cl. E04D 1/00 (2006.01) E04D 1/12 (2006.01) E04D 1/26 (2006.01)**
[25] EN
[54] **BUNDLES OF ROOFING SHINGLES, AND ASSOCIATED KIT, SYSTEM, AND METHOD**
[54] **PAQUETS DE BARDEAUX DE COUVERTURE ET TROUSSE, SYSTEME ET METHODE CONNEXES**
[72] ELLIS, DAVID, US
[72] ANDERSON, ERIC R., US
[72] ORTIZ ALEMANY, LYAN, US
[72] SOTO, NICHOLAS, US
[72] SIMON, BRIAN, US
[71] BMIC LLC, US
[22] 2023-10-04
[41] 2024-04-04
[30] US (63/413,049) 2022-10-04

[21] **3,215,361**
[13] A1
[25] EN
[54] **SAMPLE PROBE MOUNTED CONDENSERS**
[54] **CONDENSEURS MONTES SUR SONDE D~ECHANTILLONNAGE**
[72] HARRIS, PHILIP C., CA
[72] HARRIS, KEVIN, CA
[71] INSIGHT ANALYTICAL SOLUTIONS INC., CA
[22] 2023-10-04
[41] 2024-04-04
[30] US (63/412,976) 2022-10-04

[21] **3,215,415**
[13] A1
[51] **Int.Cl. F16K 31/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PIEZO VALVES**
[54] **SYSTEMES ET METHODES POUR VANNES PIEZO-ELECTRIQUES**
[72] ROMER, SASCHA, DE
[72] MUELLER, MARC, DE
[71] AVENTICS GMBH, DE
[22] 2023-10-04
[41] 2024-04-04
[30] DE (10 2022 125 517.4) 2022-10-04

[21] **3,215,442**
[13] A1
[51] **Int.Cl. C11D 3/48 (2006.01) A01N 25/30 (2006.01) A01N 35/02 (2006.01) A01N 37/02 (2006.01) A01N 37/04 (2006.01) A01N 37/36 (2006.01) A01P 1/00 (2006.01) C11D 1/08 (2006.01) C11D 1/26 (2006.01) C11D 1/825 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COMPOSITION COMPRISING A MODIFIED ALKYL GLYCOSIDE AND AN ORGANIC ACID**
[54] **COMPOSITION ANTIMICROBIENNE COMPRENANT UN GLYCOSIDE D'ALKYLE MODIFIE ET UN ACIDE ORGANIQUE**
[72] KRIKWOOD, KATHLEEN, US
[72] PEREZ-PRAT VINUESA, EVA MARIA, GB
[71] THE PROCTOR & GAMBLE COMPANY, US
[22] 2023-10-04
[41] 2024-04-05
[30] EP (22199784.4) 2022-10-05
[30] EP (23197667.1) 2023-09-15

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[21] **3,215,446**
[13] A1
[51] **Int.Cl. C11D 3/48 (2006.01) A01N 25/30 (2006.01) A01N 31/02 (2006.01) A01P 1/00 (2006.01) C11D 1/00 (2006.01) C11D 3/37 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COMPOSITION COMPRISING A MODIFIED ALKYL GLYCOSIDE AND AN ALKANEDIOL**
[54] **COMPOSITION ANTIMICROBIENNE COMPRENANT UN GLYCOSIDE D'ALKYLE MODIFIE ET UN ALCANEDIOL**
[72] KIRKWOOD, KATHLEEN, GB
[72] PEREZ-PRAT VINUESA, EVA MARIA, GB
[71] THE PROCTER & GAMBLE COMPANY, US
[22] 2023-10-04
[41] 2024-04-05
[30] EP (22199783.6) 2022-10-05
[30] EP (23181544.0) 2023-06-26

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[21] **3,215,472**
[13] A1
[51] **Int.Cl. A61G 5/10 (2006.01) F04B 33/00 (2006.01)**
[25] EN
[54] **PUMP-ACTION WHEELCHAIR AND CONVERSION KIT**
[54] **FAUTEUIL ROULANT A POMPE ET TROUSSE DE CONVERSION**
[72] JONES, MICHEAL DON, US
[71] JONES, MICHEAL DON, US
[22] 2023-10-04
[41] 2024-04-05
[30] US (63/413,570) 2022-10-05
[30] US (18/369,494) 2023-09-18

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[21] **3,215,495**
[13] A1
[51] **Int.Cl. A63C 19/00 (2006.01) A63C 19/12 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEMS, AND METHODS FOR TURF TRIM STRIP**
[54] **APPAREIL, SYSTEMES ET METHODES POUR UNE BANDE DE BORDURE DE GAZON**
[72] FRAZIER, JOSHUA LELAND, US
[72] SHOOK, JUSTIN, US
[71] SOCCER PARK, LLC DBA URBAN SOCCER PARK, US
[22] 2023-10-04
[41] 2024-04-06
[30] US (17/938,407) 2022-10-06

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[21] **3,215,502**
[13] A1
[51] **Int.Cl. B32B 13/08 (2006.01) E04C 2/04 (2006.01)**
[25] EN
[54] **METHOD OF FORMING A GYPUSM PANEL, METHOD OF ANALYSING A GYPSUM CORE, AND A GYPSUM CORE ANALYSIS TOOL**
[54] **METHODE DE FORMATION D~UN PANNEAU DE GYPSE, METHODE D~ANALYSE D~UNE AME DE GYPSE ET OUTIL D~ANALYSE D~AME DE GYPSE**
[72] LESPIAT, REMI, US
[72] NIZNIK, ARKADIUSZ, PL
[72] JAFFEL, HAMOUDA, FR
[72] DECABOOTER, CELIA, FR
[71] SAINT-GOBAIN PLACO, FR
[22] 2023-10-05
[41] 2024-04-05
[30] EP (22306490.8) 2022-10-05

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[21] **3,215,570**
[13] A1
[51] **Int.Cl. B29B 13/10 (2006.01) B29B 13/02 (2006.01) B29B 13/06 (2006.01) B29B 17/00 (2006.01) C08L 67/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PREPARING EXTRUDER READY POLYETHYLENE TEREPHTALATE**
[54] **METHODE ET APPAREIL POUR PREPARER UN POLYETHYLENE TEREPHTALATE PRET A L'EXTRUSION**
[72] RYDE, RONALD FREDRICK, CA
[71] NETZERO ENTERPRISES INC., CA
[22] 2023-10-04
[41] 2024-04-04
[30] US (63/413,177) 2022-10-04

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[21] **3,215,578**
[13] A1
[51] **Int.Cl. G06V 10/26 (2022.01) G06V 10/70 (2022.01) G06V 10/82 (2022.01) G06V 20/58 (2022.01) G06N 3/09 (2023.01) A47L 11/40 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF SEMANTIC SEGMENTATION FOR A CLEANING DEVICE**
[54] **SYSTEME ET METHODE DE SEGMENTATION SEMANTIQUE POUR UN DISPOSITIF DE NETTOYAGE**
[72] JAHANI, ALI, CA
[72] FAKIH, ADEL, CA
[72] BREDIKHIN, EGOR, CA
[72] CHOI, YOOHEE, CA
[72] RASHEED, UMER, CA
[72] GABA, ABHISHANK, CA
[71] AVIDBOTS CORP, CA
[22] 2023-10-05
[41] 2024-04-05
[30] US (63/413587) 2022-10-05

[21] **3,215,583**
[13] A1
[51] **Int.Cl. B60W 30/08 (2012.01) B60W 30/182 (2020.01) B60W 60/00 (2020.01)**
[25] EN
[54] **OBSTACLE DETECTION FUNCTIONALITY FOR MATERIAL HANDLING VEHICLES BASED ON LOCATION**
[54] **FONCTION DE DETECTION D'OBSTACLE POUR LES VEHICULES DE MANUTENTION EN FONCTION DE L'EMPLACEMENT**
[72] D'ACCOLTI, ANTHONY V., US
[72] MCLACHLAN, ROBERT P., US
[72] MURLI, SATHVIK, US
[71] THE RAYMOND CORPORATION, US
[22] 2023-10-04
[41] 2024-04-04
[30] US (63/413,138) 2022-10-04

[21] **3,215,608**
[13] A1
[51] **Int.Cl. A01H 6/82 (2018.01) A01H 1/02 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **TOMATO HYBRID DRTH2911 AND PARENTS THEREOF**
[54] **TOMATE HYBRIDE DRTH2911 ET PARENTS**
[72] KRIVANEK, ALAN, US
[71] SEMINIS VEGETABLE SEEDS, INC., US
[22] 2023-10-05
[41] 2024-04-06
[30] US (17/961352) 2022-10-06

[21] **3,215,639**
[13] A1
[51] **Int.Cl. B60R 11/00 (2006.01) B60R 9/00 (2006.01)**
[25] EN
[54] **MOUNTING SYSTEM AND KIT FOR MOUNTING AN ACCESSORY ON A VEHICLE**
[54] **SYSTEME DE MONTAGE ET TROUSSE POUR INSTALLER UN ACCESSOIRE SUR UN VEHICULE**
[72] JAILLET-GOSSELIN, PHILIPPE, CA
[72] BESSETTE, FREDERIK, CA
[72] LECLERC, JEAN-MICHEL, CA
[72] PELLERIN, MICHEL, CA
[72] PROVENCHER, MARTIN, CA
[72] BANVILLE, ALEXANDRA, CA
[71] SOUCY INTERNATIONAL INC., CA
[22] 2023-10-06
[41] 2024-04-06
[30] US (63/413,685) 2022-10-06

[21] **3,215,672**
[13] A1
[51] **Int.Cl. H01Q 5/385 (2015.01) H01Q 1/36 (2006.01) H01Q 21/30 (2006.01)**
[25] EN
[54] **SPATIAL BANDPASS STRUCTURE AND ANTENNA COMPRISING SAME**
[54] **STRUCTURE DE BANDE PASSANTE SPATIALE ET ANTENNE LA COMPRENANT**
[72] JOLANI, FARID, US
[72] DADGARPOUR, ABDOLMEHDI, CA
[72] FARZANEH, SADEGH, CA
[72] ZARGHOONI,BEHNAM, CA
[72] VAN BEEK, JACCO, CA
[71] GALTRONICS USA, INC., US
[22] 2023-10-06
[41] 2024-04-06
[30] US (63/378,650) 2022-10-06

[21] **3,215,824**
[13] A1
[51] **Int.Cl. A61K 31/194 (2006.01) A61K 9/08 (2006.01) A61P 1/02 (2006.01) A61P 19/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR TEETH DESENSITIZATION**
[54] **COMPOSITION POUR LA DESENSIBILISATION DENTAIRE**
[72] COX, CHARLES F., CA
[71] ORAL SCIENCE INC., CA
[22] 2023-10-05
[41] 2024-04-05
[30] US (63/413,348) 2022-10-05

[21] **3,215,835**
[13] A1
[51] **Int.Cl. C40B 80/00 (2006.01) C40B 40/00 (2006.01) C40B 50/14 (2006.01)**
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[54] **COMPARTMENTALIZED ARRAYS OF LINKER MOLECULES**
[54] **RESEAUX COMPARTIMENTES DE MOLECULES DE LIAISON**
[72] LI, HUIYAN, CA
[72] AGGARWAL, ROSHAN, CA
[71] UNIVERSITY OF GUELPH, CA
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[25] EN
[54] **SYSTEMS AND METHODS FOR FACILITATING THE CREATION OF DIGITAL LABELS TO SUPPLEMENT PRINTED PHYSICAL LABELS**
[54] **SYSTEMES ET METHODES POUR FACILITER LA CREATION D'ETIQUETTES NUMERIQUE EN SUPPLEMENT AUX ETIQUETTES PHYSIQUES IMPRIMEES**
[72] COLUMBIA, WESLEY, US
[72] SANGHA, AMANDEEP SINGH, US
[72] BLOECHL, ANDREW, US
[72] VAN DAM, ZACHARY, US
[72] BANNOW, NATHAN, US
[71] BRADY WORLDWIDE, INC., US
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[51] **Int.Cl. B01D 21/01 (2006.01) B03D 3/06 (2006.01) C10G 1/04 (2006.01)**
[25] EN
[54] **METHODS FOR MONITORING AND CONTROL OF FLOCCULATED OIL SANDS TAILINGS USING IMAGE CAPTURE**
[54] **METHODES DE SURVEILLANCE ET DE CONTROLE DES RESIDUS DE SABLES BITUMINEUX FLOCULES AU MOYEN DE CAPTURE D~IMAGE**
[72] MIKULA, PAUL, CA
[72] WANG, NAN, CA
[72] BELLO-HAMILTON, ADEOLA, CA
[72] MIKULA, RANDY, CA
[71] SYNCRUDE CANADA LTD. IN TRUST FOR THE OWNERS OF THE SYNCRUDE PROJECT AS SUCH OWNERS EXIST NOW AND IN THE FUTURE, CA
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[54] **AN INSULATION COVER**
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[72] GEREDELI, GOKHAN, TR
[72] CAMLIBEL, MUZAFFER, TR
[71] BASOGLU KABLO VE PROFIL SANAYI VE TICARET ANONIM SIRKETI, TR
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[54] **AEROSOL GENERATING DEVICE AND AEROSOL GENERATING SYSTEM**
[54] **APPAREIL DE GENERATION D'AEROSOL ET SYSTEME DE GENERATION D'AEROSOL**
[72] KIM, DONG SUNG, KR
[72] KIM, YONG HWAN, KR
[72] LIM, HUN IL, KR
[72] KWON, YOUNG BUM, KR
[71] KT&G CORPORATION, KR
[85] 2024-01-19
[86] 2023-09-26 (PCT/KR2023/014930)
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[54] **COMPOSITIONS AND METHODS FOR DETECTING GASTROINTESTINAL PATHOGENS**
[54] **COMPOSITIONS ET PROCEDES DE DETECTION D'AGENTS PATHOGENES GASTRO-INTESTINAUX**
[72] PANUGANTI, SREE DIVYA, US
[71] GEN-PROBE INCORPORATED, US
[85] 2024-01-15
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[54] **RETRACTABLE COVER FOR AUTOMOBILE SERVICE PIT WITH OIL CHANGE MECHANISM, DETENT PIN AND METHOD OF USE**
[54]
[72] RICE, BENJAMIN KEITH JR., US
[72] RICE, BEN KEITH SR., US
[72] RICE, JANISE L., US
[71] RICE, BENJAMIN KEITH JR., US
[71] RICE, BEN KEITH SR., US
[71] RICE, JANISE L., US
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[25] FR
[54] **RUBBER COMPOSITION COMPRISING A POLAR ESTER PLASTICIZER AND A HIGHLY SATURATED ELASTOMER**
[54] **COMPOSITION DE CAOUTCHOUC COMPRENANT UN PLASTIFIANT POLAIRE D'ESTER ET UN ELASTOMERE FORTEMENT SATURE**
[72] FERRAND, THOMAS, FR
[72] ARAUJO DA SILVA, JOSE-CARLOS, FR
[72] PRAS, MAXIME, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
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[25] FR
[54] **ANTI-VIBRATION ARTICLE COMPRISING A RUBBER COMPOSITION**
[54] **ARTICLE ANTIVIBRATOIRE COMPRENANT UNE COMPOSITION DE CAOUTCHOUC**
[72] ARAUJO DA SILVA, JOSE-CARLOS, FR
[72] HIDROT, JEAN-DENIS, FR
[72] CARNIOL, NATACHA, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
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[54] **METHOD FOR DETECTING OBSTACLES**
[54] **PROCEDE DE DETECTION D'OBSTACLES**
[72] CLEON, THOMAS, FR
[72] BUDIN, JOEL, FR
[71] SAFRAN ELECTRONICS & DEFENSE, FR
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[51] **Int.Cl. C08B 37/00 (2006.01) C08L 5/06 (2006.01)**
[25] EN
[54] **SUGAR BEET PECTIN**
[54] **PECTINE DE BETTERAVE A SUCRE**
[72] RIHA-MILOSKOVSKA, ELENA, NL
[72] VREEKER, ROB, NL
[72] KLAASSEN-HESHOF, DIANA, NL
[72] RASHIDI, BEHZAD, NL
[71] COOPERATIE KONINKLIJKE COSUN U.A., NL
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[51] **Int.Cl. A61K 31/352 (2006.01) A61P 35/00 (2006.01) C07D 311/22 (2006.01)**
[25] EN
[54] **ALLOSTERIC CHROMENONE INHIBITORS OF PHOSPHOINOSITIDE 3-KINASE (PI3K) FOR THE TREATMENT OF DISEASE**
[54] **INHIBITEURS CHROMENONES ALLOSTERIQUES DE LA PHOSPHOINOSITIDE 3-KINASE (PI3K) POUR LE TRAITEMENT D'UNE MALADIE**
[72] HICKEY, EUGENE R., US
[72] KESICKI, EDWARD A., US
[71] PETRA PHARMA CORPORATION, US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077329)
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[25] EN
[54] **PET CHEW AND METHOD FOR PRODUCING A PET CHEW**
[54] **ARTICLE A MACHER POUR ANIMAL DE COMPAGNIE ET PROCEDE DE PRODUCTION D'UN ARTICLE A MACHER POUR ANIMAL DE COMPAGNIE**
[72] MULLER-OHL, FELIX JOHANNES GERHARD, NL
[72] OLDENGARM, SANDER HILBERT, NL
[72] KEAN, GREGORY GEORGE, NL
[72] FREIJE, JANJAAP, NL
[71] PARAGON PET PRODUCTS EUROPE B.V., NL
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[86] 2022-09-29 (PCT/NL2022/050544)
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[51] **Int.Cl. C07D 213/04 (2006.01) A61K 31/195 (2006.01) C07C 229/34 (2006.01)**
[25] EN
[54] **COMPOUND AS INHIBITOR OF COMPLEMENT FACTOR D, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF**
[54] **COMPOSE SERVANT D'INHIBITEUR DU FACTEUR D DU COMPLEMENT, COMPOSITION PHARMACEUTIQUE ET UTILISATION ASSOCIEES**
[72] LOU, JUN, CN
[72] WU, JINGKANG, CN
[72] LIU, LI, CN
[72] SUN, YOUYOU, CN
[72] CHEN, YONGKAI, CN
[72] ZHANG, YIHAN, CN
[72] LU, XIAOQIN, CN
[72] ZHOU, FENG, CN
[72] CHEN, YING, CN
[72] ZHANG, LIQIAN, CN
[72] YANG, FAN, CN
[72] WANG, CHAODONG, CN
[71] WUHAN CREATERNA SCIENCE AND TECHNOLOGY CO.,LTD., CN
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[51] **Int.Cl. G01N 27/416 (2006.01) C09D 11/52 (2014.01) G01N 27/30 (2006.01) G01N 27/403 (2006.01)**
[25] EN
[54] **SELF-POWERED CAPILLARY MICROFLUIDIC-BASED ELECTROCHEMICAL BIOSENSING DEVICES, SYSTEMS, AND METHODS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE BIODETECTION ELECTROCHIMIQUE BASES SUR LA MICROFLUIDIQUE CAPILLAIRE AUTO-ALIMENTEE**
[72] SANATI-NEZHAD, AMIR, CA
[72] SALAHANDISH, RAZIEH, CA
[72] KHETANI, SULTAN, CA
[72] HAGHAYEGH, FATEMEH, CA
[71] CRITICAL CARE DX LTD., CA
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[51] **Int.Cl. A61L 2/10 (2006.01)**
[25] EN
[54] **MOVABLE GERMICIDAL ASSEMBLIES FOR DISINFECTION APPARATUSES**
[54] **ENSEMBLES GERMICIDES MOBILES POUR APPAREILS DE DESINFECTION**
[72] RAMANAND, PRAKASH VALENTINO, CA
[72] BARRIOS SIERRA, JOSE MIGUEL, CA
[72] DALVADI, ROMIL HITENBHAI, CA
[71] ANRAM HOLDINGS, CA
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[86] 2022-09-30 (PCT/CA2022/051461)
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[51] **Int.Cl. C03C 8/20 (2006.01) C03C 3/093 (2006.01) C03C 8/02 (2006.01) C03C 8/16 (2006.01) C03C 17/04 (2006.01)**
[25] FR
[54] **ENAMELLED MINERAL SUBSTRATE AND METHOD FOR MAKING SAME**
[54] **SUBSTRAT MINERAL EMAILLE ET METHODE DE FABRICATION D'UN TEL SUBSTRAT**
[72] SEME, CHARLENE, FR
[72] DELAYE, LOIC, FR
[71] EUROKERA S.N.C, FR
[85] 2024-03-28
[86] 2022-10-18 (PCT/EP2022/078994)
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[51] **Int.Cl. G16H 20/40 (2018.01) G16H 30/20 (2018.01) G16H 30/40 (2018.01) G16H 40/40 (2018.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01)**
[25] EN
[54] **SURGICAL SYSTEMS, ANATOMICAL MODELS AND ASSOCIATED METHODS**
[54] **SYSTEMES CHIRURGICAUX, MODELES ANATOMIQUES ET PROCEDES ASSOCIES**
[72] METCALFE, NICK, US
[72] MORELAND, MICHAEL, US
[72] HEWITT, AARON JEROME, US
[72] MORRIS, MICHAEL CHARLES, US
[72] REGO, GEORGE, US
[72] VEGA-SOTO, GIANNA CHRISTINE, US
[72] THOMPSON, TIMOTHY J., US
[71] ARTHREX, INC., US
[85] 2024-03-28
[86] 2022-10-07 (PCT/US2022/046041)
[87] (WO2023/059877)
[30] US (63/253,290) 2021-10-07

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[51] **Int.Cl. C12N 15/86 (2006.01)**
[25] EN
[54] **EBOLA PSEUDOTYPED VECTORS AND METHODS OF USE THEREOF**
[54] **VECTEURS PSEUDOTYPES D'EBOLA ET LEURS METHODES D'UTILISATION**
[72] JOHNSON, PHILIP R., US
[72] PELUSO, RICHARD W., US
[72] RUSSELL, RONNIE M., US
[72] SCHNEPP, BRUCE C., US
[71] INTERIUS BIOTHERAPEUTICS, INC., US
[85] 2024-03-28
[86] 2022-10-14 (PCT/US2022/078092)
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[51] **Int.Cl. C22B 3/06 (2006.01) C22B 3/44 (2006.01) C22B 3/46 (2006.01) C22B 7/00 (2006.01) C22B 15/00 (2006.01) C22B 23/00 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **ALLOY TREATMENT METHOD**
[54] **PROCEDE DE TRAITEMENT D'ALLIAGE**
[72] TAKENOUCHI, HIROSHI, JP
[72] SHOUJI, HIROFUMI, JP
[72] MATSUOKA, ITSUMI, JP
[72] MATSUGI, TAKUMI, JP
[72] SANJO, SHOTA, JP
[72] ASANO, SATOSHI, JP
[72] HEGURI, SHIN-ICHI, JP
[71] SUMITOMO METAL MINING CO., LTD., JP
[85] 2024-03-28
[86] 2022-09-22 (PCT/JP2022/035340)
[87] (WO2023/054159)
[30] JP (2021-159725) 2021-09-29
[30] JP (2021-159496) 2021-09-29
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[51] **Int.Cl. C01B 3/52 (2006.01) C01B 3/02 (2006.01) C01B 3/12 (2006.01) C01B 3/34 (2006.01) C01B 3/56 (2006.01) C01F 11/18 (2006.01)**
[25] EN
[54] **BLUE HYDROGEN PRODUCTION METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION D'HYDROGENE BLEU**
[72] SELF, KYLE, US
[72] SCHNEIDER, JACOB, US
[72] CONSTANTZ, BRENT R., US
[71] BLUE PLANET SYSTEMS CORPORATION, US
[85] 2024-03-28
[86] 2022-09-26 (PCT/US2022/044732)
[87] (WO2023/059470)
[30] US (63/251,795) 2021-10-04

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[51] **Int.Cl. E21B 7/02 (2006.01) E21B 17/16 (2006.01) E21B 21/015 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SUPPORTING A COLLAR REGION OF A BLAST HOLE DURING DRILLING**
[54] **APPAREIL ET PROCEDE POUR SUPPORTER UNE REGION DE COLLIER D'UN TROU DE MINE PENDANT LE FORAGE**
[72] PATCHING, GREGORY, AU
[72] WRIGHT, JONATHAN, AU
[71] AQUIRIAN TECHNOLOGY PTY LTD, AU
[85] 2024-03-28
[86] 2022-09-29 (PCT/AU2022/051166)
[87] (WO2023/049964)
[30] AU (2021903123) 2021-09-29
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[51] **Int.Cl. A61B 5/00 (2006.01) G01N 3/40 (2006.01) G01N 33/483 (2006.01)**
[25] EN
[54] **NON-DESTRUCTIVE PRESSURE-ASSISTED TISSUE STIFFNESS MEASUREMENT APPARATUS**
[54] **APPAREIL DE MESURE DE RIGIDITE DE TISSUS ASSISTE PAR PRESSION NON DESTRUCTIVE**
[72] KIM, JINHO, US
[72] VUNJAK-NOVAKOVIC, GORDANA, US
[72] O'NEILL, JOHN D., US
[72] PINEZICH, MEGHAN, US
[72] GUENTHART, BRANDON A., US
[72] MIR, SEYED MOHAMMAD, US
[72] CHEN, JIAWEN, US
[72] BACCHETTA, MATTHEW, US
[71] TRUSTEES OF THE STEVENS INSTITUTE OF TECHNOLOGY, US
[71] VANDERBILT UNIVERSITY, US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2024-03-28
[86] 2022-09-29 (PCT/US2022/077311)
[87] (WO2023/056395)
[30] US (63/250,123) 2021-09-29

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[13] A1
[51] **Int.Cl. H04L 1/00 (2006.01) H04N 19/30 (2014.01)**
[25] EN
[54] **VIDEO CODEC AWARE RADIO ACCESS NETWORK CONFIGURATION AND UNEQUAL ERROR PROTECTION CODING**
[54] **CONFIGURATION DE RESEAU D'ACCES RADIO SENSIBLE AU CODEC VIDEO ET CODAGE DE PROTECTION CONTRE LES ERREURS INEGALES**
[72] STOICA, RAZVAN-ANDREI, DE
[72] BAGHERI, HOSSEIN, US
[72] NANGIA, VIJAY, US
[71] LENOVO (SINGAPORE) PTE. LTD, SG
[85] 2024-03-28
[86] 2022-12-19 (PCT/IB2022/062500)
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[30] US (17/555,137) 2021-12-17

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[51] **Int.Cl. B65G 1/10 (2006.01) B60P 3/00 (2006.01) B65G 1/04 (2006.01) B65G 1/06 (2006.01) B65G 1/12 (2006.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **AUTONOMOUS VEHICLE DELIVERY AND PACKAGE TRANSFER SYSTEM**
[54] **SYSTEME DE TRANSFERT DE COLIS ET DE LIVRAISON PAR VEHICULE AUTONOME**
[72] NAISH, ADAM, US
[72] SUBRAMANIAN, AZHAGU, US
[72] YOUNG, WARREN, US
[72] LI, YI, CA
[72] VAN GELDER, ALDO, CA
[71] MAGNA INTERNATIONAL INC., CA
[85] 2024-03-28
[86] 2022-10-07 (PCT/US2022/045970)
[87] (WO2023/059842)
[30] US (63/253,744) 2021-10-08
[30] US (63/278,236) 2021-11-11

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[13] A1
[51] **Int.Cl. A63B 21/00 (2006.01) A63B 22/00 (2006.01) A63B 23/02 (2006.01)**
[25] EN
[54] **MULTIPURPOSE EXERCISE BENCH**
[54] **BANC D'EXERCICE POLYVALENT**
[72] NEUHAUS, PETER, US
[72] COBB, TYSON, US
[72] GINES, JEREMY, US
[71] OXEFIT, INC., US
[85] 2024-03-28
[86] 2022-10-12 (PCT/US2022/046357)
[87] (WO2023/064321)
[30] US (63/255,354) 2021-10-13

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[13] A1
[51] **Int.Cl. B65D 47/20 (2006.01) B65D 39/04 (2006.01)**
[25] EN
[54] **DISPENSING TAP EQUIPPED WITH FLEXIBLE INTERNAL VALVE**
[54] **ROBINET DE DISTRIBUTION EQUIPE D'UN CLAPET INTERNE FLEXIBLE**
[72] NINI, DIEGO, IT
[71] VITOP MOULDING S.R.L., IT
[85] 2024-03-28
[86] 2022-08-08 (PCT/IT2022/050225)
[87] (WO2023/058072)
[30] IT (102021000025367) 2021-10-04

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[13] A1
[51] **Int.Cl. B21B 27/02 (2006.01) C23C 4/04 (2006.01)**
[25] EN
[54] **METHOD FOR OPTIMISING THE ROUGHNESS OF A ROLLING MILL ROLL BY MEANS OF HIGH-SPEED THERMAL SPRAYING**
[54] **METHODE D'OPTIMISATION DE LA RUGOSITE D'UN CYLINDRE DE LAMINOIR PAR PROJECTION THERMIQUE A GRANDE VITESSE**
[72] FUENTEVILLA DIAZ, GREGORIO, ES
[71] MECANIZACION INDUSTRIAL ASTILLERO, S.A., ES
[71] FUENTEVILLA DIAZ, GREGORIO, ES
[85] 2024-03-28
[86] 2022-10-03 (PCT/ES2022/070627)
[87] (WO2023/057674)
[30] ES (P202130927) 2021-10-04

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[13] A1
[51] **Int.Cl. C07D 235/04 (2006.01) A61K 31/4184 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **BICYCLIC FUSED RING DERIVATIVE OR SALT THEREOF AND PHARMACEUTICAL COMPOSITION COMPRISING SAME**
[54] **DERIVE DE CYCLE FUSIONNE BICYCLIQUE OU SEL CONNEXE ET COMPOSITION PHARMACEUTIQUE LES COMPRENANT**
[72] KIM, EUN-KYUNG, KR
[72] LIM, CHEOL-HEE, KR
[72] LEE, KANG-YO, KR
[72] CHOI, HYUN-HO, KR
[71] YUHAN CORPORATION, KR
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[30] KR (10-2021-0130916) 2021-10-01

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[51] **Int.Cl. C12N 15/63 (2006.01)**
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[54] **TRANSPOSON COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE TRANSPOSONS ET LEURS PROCEDES D'UTILISATION**
[72] LUCAS, JOSEPH S., US
[72] MADISON, BLAIR B., US
[71] POSEIDA THERAPEUTICS, INC., US
[85] 2024-03-28
[86] 2022-10-04 (PCT/US2022/077544)
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[51] **Int.Cl. G06F 21/62 (2013.01)**
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[54] **SYSTEMS AND METHODS FOR DATA RETENTION AND PURGING**
[54] **SYSTEMES ET PROCEDES DE RETENTION ET DE PURGE DE DONNEES**
[72] SCOPE, NICHOLAS CRAIG, US
[72] RASIN, ALEXANDER, US
[71] SCOPE, NICHOLAS CRAIG, US
[71] RASIN, ALEXANDER, US
[85] 2024-03-28
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[25] EN
[54] **METHOD AND SYSTEM FOR COLLECTING, RECORDING, AND TRANSMITTING CLINICAL INFORMATION WITH USEFULNESS-DRIVEN PROMPTS**
[54] **PROCEDE ET SYSTEME DE COLLECTE, D'ENREGISTREMENT ET DE TRANSMISSION D'INFORMATIONS CLINIQUES AVEC DES INVITES AXEES SUR L'UTILITE**
[72] SEGAL, MICHAEL M., US
[71] SIMULCONSULT, INC., US
[85] 2024-03-28
[86] 2022-09-29 (PCT/US2022/045276)
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[30] US (63/249,675) 2021-09-29

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[54] **MODULATORS OF TRPML, THEIR COMPOSITIONS AND METHODS OF USE**
[54] **MODULATEURS DE TRPML, LEURS COMPOSITIONS ET PROCEDES D'UTILISATION**
[72] IYENGAR, RAJESH R., US
[72] LEE, THOMAS WAI-HO, US
[72] MCCOMAS, CASEY CAMERON, US
[72] SCHMIDT, DARBY R., US
[72] GRAZIOTTO, JOHN J., US
[71] CARAWAY THERAPEUTICS, INC., US
[85] 2024-03-28
[86] 2022-09-29 (PCT/US2022/045210)
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[30] US (63/250,818) 2021-09-30
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[54] **EFFICIENT FAIL OVER TO BACKUP LINK**
[54] **BASCULEMENT EFFICACE VERS UNE LIAISON DE SECOURS**
[72] BRETON, BERNARD, CA
[71] ADAPTIV NETWORKS INC., CA
[85] 2024-03-28
[86] 2022-09-27 (PCT/CA2022/051431)
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[30] US (17/449,495) 2021-09-30

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[54] **IMPRESSION TRAY**
[54] **PORTE-EMPREINTE**
[72] AL MSTREHI, RAFAT, DE
[71] AL MSTREHI, RAFAT, DE
[85] 2024-03-28
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[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **MULTISPECIFIC BINDING AGENTS AGAINST PD-L1 AND CD137 IN COMBINATION WITH ANTI PD-1 ANTIBODIES FOR TREATING CANCERS**
[54] **AGENTS DE LIAISON MULTISPECIFIQUES CONTRE PD-L1 ET CD137 EN COMBINAISON AVEC DES ANTICORPS ANTI-PD-1 POUR LE TRAITEMENT DE CANCERS**
[72] MUIK, ALEXANDER, DE
[72] NURMBERGER, KRISTINA, DE
[72] PENCHEVA, NORA, NL
[72] JURE-KUNKEL, MARIAN, US
[72] SAHIN, UGUR, DE
[71] GENMAB A/S, DK
[71] BIONTECH SE, DE
[71] MSD INTERNATIONAL BUSINESS GMBH, CH
[85] 2024-03-28
[86] 2022-10-05 (PCT/EP2022/077749)
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[30] US (63/253,106) 2021-10-06
[30] US (63/257,901) 2021-10-20

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[54] **DOMESTIC COMPOSTER**
[54] **COMPOSTEUR DOMESTIQUE**
[72] DUPRET, LAETITIA, BE
[72] BIEBUYCK, ADELAIDE, BE
[72] MILANO, FIONA, BE
[72] DEBETENCOURT, SAM, BE
[72] CONVENT, LIONEL, BE
[72] VANDEVENNE, BRECHT, BE
[72] DE CLERCQ, SANDER, BE
[72] KENIS, KAAT, BE
[71] GREENZY, BE
[85] 2024-03-28
[86] 2022-10-05 (PCT/EP2022/077739)
[87] (WO2023/057529)
[30] BE (BE2021/5781) 2021-10-07

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[51] **Int.Cl. H04L 67/00 (2022.01) H04W 4/44 (2018.01) H04L 67/1012 (2022.01) H04L 67/1034 (2022.01) H04L 67/2895 (2022.01)**
[25] EN
[54] **A SYSTEM OF AGGREGATING SERVERS**
[54] **SYSTEME D'AGREGATION DE SERVEURS**
[72] GRUENER, STEN, DE
[72] BRAUN, ROLAND, DE
[71] ABB SCHWEIZ AG, CH
[85] 2024-03-28
[86] 2022-09-16 (PCT/EP2022/075867)
[87] (WO2023/061699)
[30] EP (21202942.5) 2021-10-15
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[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF A COATED CATHODE ACTIVE MATERIAL, AND COATED CATHODE ACTIVE MATERIAL**
[54] **PROCEDE DE FABRICATION D'UN MATERIAU ACTIF DE CATHODE REVETUE, ET MATERIAU ACTIF DE CATHODE REVETUE**
[72] LENNARTZ, MICHAEL, DE
[72] GASTEIGER, HUBERT, DE
[72] HARTMANN, LOUIS, DE
[72] CHING, CHEUCK HIN, DE
[71] BASF SE, DE
[85] 2024-03-28
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[51] **Int.Cl. H04W 8/00 (2009.01) H04W 12/06 (2021.01) H04W 76/12 (2018.01)**
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[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] LI, YONGCUI, CN
[72] CHEN, ZEHAO, CN
[72] NI, HUI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-28
[86] 2022-09-26 (PCT/CN2022/121185)
[87] (WO2023/051427)
[30] CN (202111166464.6) 2021-09-30

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[51] **Int.Cl. A01C 7/06 (2006.01)**
[25] EN
[54] **LIQUID FERTILIZER CONTROL SYSTEMS, METHODS, AND APPARATUS FOR AGRICULTURAL IMPLEMENTS**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE COMMANDE D'ENGRAIS LIQUIDE POUR OUTILS AGRICOLES**
[72] NOLTE, STEVE, US
[72] WILLIAMS, DENNY, US
[71] KINZE MANUFACTURING, INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077319)
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[51] **Int.Cl. C12N 15/11 (2006.01) C12Q 1/6848 (2018.01)**
[25] EN
[54] **TARGETED INHIBITION OF REVERSE TRANSCRIPTION USING ANTISENSE OLIGOS**
[54] **INHIBITION CIBLEE DE LA TRANSCRIPTION INVERSE A L'AIDE D'OLIGOS ANTISENS**
[72] HOROS, RASTISLAV, DE
[72] RAJAKUMAR, TIMOTHY, DE
[72] STEINKRAUS, BRUNO, DE
[72] KAHRAMAN, MUSTAFA, DE
[71] HUMMINGBIRD DIGANOSTICS GMBH, DE
[85] 2024-03-28
[86] 2022-06-28 (PCT/EP2022/067813)
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[51] **Int.Cl. G01W 1/00 (2006.01) G01M 3/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ESTIMATING AN EMISSION RATE OF A SOURCE**
[54] **SYSTEMES ET PROCEDES D'ESTIMATION D'UN TAUX D'EMISSION D'UNE SOURCE**
[72] BOURLON, EVELISE, CA
[72] NICKERSON, NICHOLAS R., CA
[72] GOSSE, COLLEEN M., CA
[72] RISK, DAVID A., CA
[71] EOSENSE INC., CA
[85] 2024-03-28
[86] 2022-10-06 (PCT/CA2022/051475)
[87] (WO2023/056557)
[30] US (63/253,746) 2021-10-08

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[51] **Int.Cl. A61K 31/5578 (2006.01) A61K 45/06 (2006.01) A61P 9/08 (2006.01)**
[25] EN
[54] **INHALED ILOPROST FOR RESCUE TREATMENT AND TREATMENT AS NEEDED IN PULMONARY HYPERTENSION**
[54] **ILOPROST INHALE POUR LE TRAITEMENT AU BESOIN DE L'HYPERTENSION PULMONAIRE**
[72] SEEGER, WERNER, DE
[72] GESSLER, TOBIAS, DE
[71] JUSTUS-LIEBIG-UNIVERSITAT GIESSEN, DE
[85] 2024-03-28
[86] 2021-09-10 (PCT/EP2021/074903)
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[51] **Int.Cl. C12N 15/86 (2006.01) A61K 48/00 (2006.01) C12N 15/85 (2006.01) A61P 27/16 (2006.01)**
[25] EN
[54] **GENE THERAPY DELIVERY COMPOSITIONS AND METHODS FOR TREATING HEARING LOSS**
[54] **COMPOSITIONS D'ADMINISTRATION DE THERAPIE GENIQUE ET METHODES DE TRAITEMENT DE LA PERTE AUDITIVE**
[72] GRIBBLE, KATHERINE DIANE, US
[72] LENZ, DANIELLE R., US
[72] NG, ROBERT, US
[72] CHIANG, HAO, US
[71] AKOUOS, INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077397)
[87] (WO2023/056452)
[30] US (63/251,017) 2021-09-30

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[51] **Int.Cl. G01N 1/28 (2006.01) G01N 1/36 (2006.01) G01N 33/24 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARATION, DETECTION, AND ANALYSIS OF SYNTHETIC POLYMERS USING AUTOMATED MINERALOGY SYSTEMS**
[54] **PROCEDE DE PREPARATION, DE DETECTION ET D'ANALYSE DE POLYMERES SYNTHETIQUES A L'AIDE DE SYSTEMES MINERALOGIQUES AUTOMATISES**
[72] ROGERS, GARETH, FR
[72] MCGARRY, AMY, FR
[71] CGG SERVICES SA, FR
[85] 2024-03-28
[86] 2021-10-14 (PCT/IB2021/000711)
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[51] **Int.Cl. C10M 107/02 (2006.01) C10M 111/04 (2006.01) C10M 169/04 (2006.01) C10M 107/10 (2006.01)**
[25] EN
[54] **FUEL EFFICIENT, SHEAR STABLE AXLE LUBRICANT**
[54] **LUBRIFIANT D'ESSIEU RESISTANT AU CISAILLEMENT, A FAIBLE CONSOMMATION DE CARBURANT**
[72] GOYAL, ARJUN K., US
[72] MOSHER, DONNA MAE, US
[71] BASF SE, DE
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/045311)
[87] (WO2023/055979)
[30] US (63/261,970) 2021-10-01

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[51] **Int.Cl. G01J 3/46 (2006.01) A45D 44/00 (2006.01) G01J 3/52 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHOD FOR SKIN COLOR DETERMINATION**
[54] **SYSTEMES ET PROCEDE DE DETERMINATION DE LA COULEUR DE LA PEAU**
[72] RATTNER, SERGIO, CA
[72] VILIMAS, JUSTINAS, CA
[71] FITSKIN INC., CA
[85] 2024-03-28
[86] 2022-09-29 (PCT/CA2022/051443)
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[30] US (63/249,656) 2021-09-29

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[51] **Int.Cl. C07D 209/36 (2006.01)**
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[54] **DERIVATIVES OF ARYL HYDROCARBON RECEPTOR AGONISTS**
[54] **DERIVES D'AGONISTES DU RECEPTEUR DE L'ARYL-HYDROCARBONE**
[72] DAVIDSON, MATTHEW, US
[72] SAIKI, JULIE, US
[72] LUM, ROBERT, US
[72] SCHOW, STEVEN R., US
[71] AZORA THERAPEUTICS, INC., US
[85] 2024-03-28
[86] 2022-10-07 (PCT/US2022/077815)
[87] (WO2023/060268)
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[51] **Int.Cl. H02J 13/00 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING AN OPTIMAL PLACEMENT OF MEASUREMENT UNITS FOR ESTIMATING THE STATE OF A PHYSICAL POWER DISTRIBUTION GRID**
[54] **PROCEDE DE DETERMINATION D'UN PLACEMENT OPTIMAL D'UNITES DE MESURE PERMETTANT D'ESTIMER L'ETAT D'UN RESEAU DE DISTRIBUTION D'ENERGIE PHYSIQUE**
[72] ALIZADEH-MOUSAVI, OMID, CH
[72] MOUTIS, PANAYIOTIS, US
[71] KRAKEN TECHNOLOGIES LIMITED, GB
[85] 2024-03-28
[86] 2022-09-28 (PCT/IB2022/059216)
[87] (WO2023/057856)
[30] EP (21200782.7) 2021-10-04

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[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01)**
[25] FR
[54] **PROCESS FOR PRODUCING ALCOHOLS BY FERMENTATION**
[54] **PROCEDE DE PRODUCTION D'ALCOOLS PAR FERMENTATION**
[72] CARRIE, MAXIME, FR
[72] VELLY, HELENE, FR
[72] GABELLE, JEAN-CHRISTOPHE, FR
[72] BEN CHAABANE, MOHAMED FADHEL, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2024-03-28
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[51] **Int.Cl. C12P 17/04 (2006.01)**
[25] EN
[54] **BIOCHEMICAL PATHWAY FOR THE PRODUCTION OF TULIPALIN A VIA ITACONIC ACID**
[54] **VOIE BIOCHIMIQUE POUR LA PRODUCTION DE TULIPALINE A PAR L'INTERMEDIAIRE D'ACIDE ITACONIQUE**
[72] NAVE, BARBARA, DE
[72] ZELDER, OSKAR, DE
[72] BREUER, MICHAEL, DE
[72] SUNDARAM, SRIVIDHYA, DE
[72] ERB, TOBIAS, DE
[71] BASF SE, DE
[71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE
[85] 2024-03-28
[86] 2022-09-29 (PCT/EP2022/077180)
[87] (WO2023/052538)
[30] EP (21200581.3) 2021-10-01

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[51] **Int.Cl. B65H 19/18 (2006.01) B65H 59/00 (2006.01)**
[25] EN
[54] **SPLICING APPARATUS AND METHOD FOR A PAPERBOARD PROTECTIVE CORNER MANUFACTURING SYSTEM**
[54] **APPAREIL ET PROCEDE D'EPISSAGE POUR UN SYSTEME DE FABRICATION DE COIN DE PROTECTION EN CARTON**
[72] TARDY, JEAN, CA
[72] LAGOTTE, SAMUEL, CA
[72] DUDOIT, LAURENT, CA
[71] ABZAC CANADA INC., CA
[85] 2024-03-28
[86] 2023-08-31 (PCT/CA2023/051156)
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[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **CYTOTOXICITY-INDUCING THERAPEUTIC AGENT FOR USE IN TREATMENT OF CANCER**
[54] **AGENT THERAPEUTIQUE INDUISANT LA CYTOTOXICITE DESTINE A ETRE UTILISE DANS LE TRAITEMENT DU CANCER**
[72] ISHII, SHINYA, JP
[72] KAMIKAWA, TAKAYUKI, JP
[72] KIMURA, NAOKI, JP
[72] KODAMA, TATSUSHI, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2024-03-28
[86] 2022-09-28 (PCT/JP2022/036060)
[87] (WO2023/054421)
[30] JP (PCT/JP2021/035917) 2021-09-29

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[51] **Int.Cl. B01D 53/76 (2006.01)**
[25] EN
[54] **AEROSOL AND METHOD AND APPARATUS FOR PRODUCING AN AEROSOL**
[54] **AEROSOL PHOTOCATALYTIQUE**
[72] OESTE, FRANZ DIETRICH, DE
[72] ELSWORTH, CLIVE THOMAS, GB
[71] OESTE, FRANZ DIETRICH, DE
[71] ELSWORTH, CLIVE THOMAS, GB
[85] 2024-03-28
[86] 2022-08-09 (PCT/DE2022/100581)
[87] (WO2023/051858)
[30] DE (DE 10 2021 004 929.2) 2021-10-01
[30] GB (2117512.0) 2021-12-03
[30] DE (DE 10 2022 001 364.9) 2022-04-21
[30] DE (DE 10 2022 001 393.2) 2022-04-23
[30] DE (DE 10 2022 001 608.7) 2022-05-08
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[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR DETECTING CEREBROSPINAL FLUID LEAKAGE**
[54] **METHODES ET DISPOSITIFS DE DETECTION DE FUITE DE LIQUIDE CEPHALO-RACHIDIEN**
[72] FLOWER, TODD, US
[72] MATZILEVICH, DAVID, US
[71] INTEGRATED NEUROLOGICS LLC, US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077334)
[87] (WO2023/056410)
[30] US (63/251,180) 2021-10-01

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[51] **Int.Cl. A61K 31/551 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 25/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **DIRECT TRANSDIFFERENTIATION FOR TREATMENT OF NEUROLOGICAL DISEASE**
[54] **TRANSDIFFERENCIATION DIRECTE POUR LE TRAITEMENT DES MALADIES NEUROLOGIQUES**
[72] ZHOU, HAIBO, CN
[72] HU, XINDE, CN
[72] SU, JINLIN, CN
[71] SHANGHAI GENEMAGIC BIOSCIENCES CO., LTD., CN
[85] 2024-03-28
[86] 2022-09-30 (PCT/CN2022/123409)
[87] (WO2023/051802)
[30] CN (202111158620.4) 2021-09-30

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[51] **Int.Cl. B30B 9/12 (2006.01) B30B 9/14 (2006.01) B30B 9/16 (2006.01) B30B 15/34 (2006.01) C11B 1/00 (2006.01) C11B 1/10 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PRESSING**
[54] **PROCEDE ET DISPOSITIF DE PRESSAGE**
[72] VOLTZER, MORITZ, DE
[71] HARBURG-FREUDENBERGER MASCHINENBAU GMBH, DE
[85] 2024-03-28
[86] 2022-08-09 (PCT/DE2022/100579)
[87] (WO2023/057000)
[30] DE (10 2021 125 760.3) 2021-10-05

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[13] A1
[51] **Int.Cl. C09K 8/58 (2006.01) E21B 43/247 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR TREATING HYDRAULICALLY FRACTURED FORMATIONS**
[54] **PROCEDES ET SYSTEMES DE TRAITEMENT DE FORMATIONS FRACTUREES HYDRAULIQUEMENT**
[72] WALLACE, TAD, US
[72] LANGE, KEVIN, US
[72] SZABO, DAVE, US
[72] STARR, SUSAN, US
[72] BALESTRINI, ANDREA, US
[71] WALLACE, TAD, US
[71] LANGE, KEVIN, US
[71] SZABO, DAVE, US
[71] STARR, SUSAN, US
[71] BALESTRINI, ANDREA, US
[85] 2024-03-28
[86] 2021-12-17 (PCT/US2021/063953)
[87] (WO2023/055411)
[30] US (17/488,029) 2021-09-28

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[51] **Int.Cl. A61K 51/10 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **RADIOIMMUNOCONJUGATES TARGETING GRP78 FOR USE IN THE TREATMENT OF CANCER**
[54] **RADIOIMMUNOCONJUGUES CIBLANT GRP78 POUR UNE UTILISATION DANS LE TRAITEMENT DU CANCER**
[72] LUDWIG, DALE L., US
[72] GEOGHEGAN, EILEEN, US
[72] KOTANIDES, HELEN, US
[72] SETH, SANDESH, US
[71] ACTINIUM PHARMACEUTICALS, INC., US
[85] 2024-03-28
[86] 2022-09-28 (PCT/US2022/077188)
[87] (WO2023/056302)
[30] US (63/249,160) 2021-09-28

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[51] **Int.Cl. A61F 11/20 (2022.01)**
[25] EN
[54] **COCHLEA INJECTION DEVICES, SYSTEMS, AND METHODS FOR OTOLOGY**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES D'INJECTION COCHLEAIRE POUR OTOLOGIE**
[72] ERICKSON, SIGNE, US
[72] LEVERING, VRAD, US
[72] DE JUAN, EUGENE, US
[72] AYOOB, ANDREW, US
[71] SPIRAL THERAPEUTICS INC., US
[85] 2024-03-28
[86] 2022-09-27 (PCT/US2022/044846)
[87] (WO2023/055719)
[30] US (63/249,938) 2021-09-29

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[51] **Int.Cl. B64G 1/10 (2006.01)**
[25] EN
[54] **EARTH MONITORING SYSTEM AND METHOD OF MANAGING A SATELLITE CONSTELLATION**
[54] **SYSTEME DE SURVEILLANCE DE LA TERRE ET PROCEDE DE GESTION D'UNE CONSTELLATION DE SATELLITES**
[72] MODRZEWSKI, RAFAL, FI
[72] LAURILA, PEKKA, FI
[72] CHECHILE, IGNACIO, FI
[71] ICEYE OY, FI
[85] 2024-03-28
[86] 2022-09-23 (PCT/EP2022/076590)
[87] (WO2023/052270)
[30] GB (2113949.8) 2021-09-29

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[51] **Int.Cl. A47L 11/30 (2006.01) A47L 7/02 (2006.01) A47L 11/32 (2006.01) A47L 11/33 (2006.01) A47L 11/40 (2006.01) F16K 11/04 (2006.01) F16K 11/07 (2006.01)**
[25] EN
[54] **CLEANING APPARATUS**
[54] **DISPOSITIF DE NETTOYAGE, APPAREIL DE LAVAGE ET ENSEMBLE SOUPAPE DE COMMUTATION**
[72] GUO, SHUWEI, CN
[72] LIU, WEIDONG, CN
[72] HAN, ZHEN, CN
[72] XIA, PENG, CN
[72] WANG, YISONG, CN
[72] WU, CHUNHAO, CN
[72] CHEN, ZHEN, CN
[72] ZHOU, CHUNFENG, CN
[71] TINECO INTELLIGENT TECHNOLOGY CO., LTD., CN
[85] 2024-03-28
[86] 2022-09-02 (PCT/CN2022/116909)
[87] (WO2023/051169)
[30] CN (202111166131.3) 2021-09-30
[30] CN (202123299803.6) 2021-12-24
[30] CN (202111164044.4) 2021-09-30
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[13] A1
[51] **Int.Cl. G01C 11/00 (2006.01) G01S 5/02 (2010.01)**
[25] EN
[54] **PLANT AND/OR VEHICLE LOCATING**
[54] **LOCALISATION D'INSTALLATION ET/OU DE VEHICULE**
[72] GOYAL, SANKET, US
[72] WHITNEY, CHRISTOPHER TRAVIS, US
[71] ZIMENO, INC. DBA MONARCH TRACTOR, US
[85] 2024-03-28
[86] 2021-09-30 (PCT/US2021/052803)
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[51] **Int.Cl. G01C 21/12 (2006.01)**
[25] EN
[54] **VEHICLE ROW FOLLOW SYSTEM**
[54] **SYSTEME DE SUIVI DE RANGEE DE VEHICULES**
[72] VARMA BHUPATIRAJU, RAMA VENKATA SURYA KUMAR, US
[72] KARISHETTI, DEEPAK RAJASEKHAR, US
[72] GATTEN, BENJAMIN M., US
[72] GOYAL, SANKET, US
[71] ZIMENO, INC. DBA MONARCH TRACTOR, US
[85] 2024-03-28
[86] 2021-09-30 (PCT/US2021/052948)
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[51] **Int.Cl. C12M 1/42 (2006.01) G01Q 60/36 (2010.01) G01N 3/317 (2006.01) G01N 3/42 (2006.01) G01N 33/487 (2006.01)**
[25] EN
[54] **METHODS FOR QUANTIFYING THE IMPACT OF SHEAR STRESS ON MAMMALIAN CELL LINES**
[54] **PROCEDES DE QUANTIFICATION DE L'IMPACT D'UNE CONTRAINTE DE CISAILLEMENT SUR DES LIGNEES CELLULAIRES DE MAMMIFERE**
[72] O'SHEA, IAN, US
[72] CROWLEY, JOHN, US
[72] POWER, MARTIN, US
[72] RONAN, ALAN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/045387)
[87] (WO2023/056017)
[30] US (63/251,169) 2021-10-01

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[13] A1
[51] **Int.Cl. C22B 26/12 (2006.01)**
[25] EN
[54] **METHOD FOR EXTRACTING LITHIUM FROM SALT LAKE**
[54] **PROCEDE D?EXTRACTION DE LITHIUM D'UN LAC SALE**
[72] WEI, JIALIANG, CN
[72] LIN, HONGYE, CN
[72] LIAN, JUNLAN, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-28
[86] 2022-12-05 (PCT/CN2022/136482)
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[30] CN (202111630401.1) 2021-12-28

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[51] **Int.Cl. A61K 35/32 (2015.01) C12N 5/077 (2010.01) A61L 27/38 (2006.01) A61P 19/02 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING CARTILAGE AND BONES**
[54] **PROCEDES DE PRODUCTION DE CARTILAGE ET D'OS**
[72] BATEMAN, JOHN, AU
[72] LAMANDE, SHIREEN, AU
[72] NG, ELIZABETH, AU
[71] MURDOCH CHILDREN'S RESEARCH INSTITUTE, AU
[85] 2024-03-28
[86] 2022-10-14 (PCT/AU2022/051242)
[87] (WO2023/060322)
[30] AU (2021903310) 2021-10-14

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[51] **Int.Cl. B65G 47/244 (2006.01) B07C 5/14 (2006.01) B27B 31/04 (2006.01) B65G 47/96 (2006.01)**
[25] EN
[54] **DEFLECTING DEVICE FOR AN ELONGATE ITEM**
[54] **DISPOSITIF DE DEVIATION POUR UN ARTICLE ALLONGE**
[72] KNAPP, FLORIAN, AT
[72] POTSCHER, JULIAN, AT
[71] SPRINGER MASCHINENFABRIK GMBH, AT
[85] 2024-03-28
[86] 2022-10-13 (PCT/EP2022/078487)
[87] (WO2023/066779)
[30] AT (A 50834/2021) 2021-10-20
[30] AT (A 50835/2021) 2021-10-20
[30] AT (A 50126/2022) 2022-02-25

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[13] A1
[51] **Int.Cl. G16C 10/00 (2019.01) G16C 20/30 (2019.01) G16C 60/00 (2019.01)**
[25] EN
[54] **RECYCLING OF PLASTICS BY SOLVENT-TARGETED RECOVERY AND PRECIPITATION ("STRAP")**
[54] **RECYCLAGE DE PLASTIQUES PAR RECUPERATION ET PRECIPITATION CIBLEES PAR SOLVANT (« STRAP »)**
[72] HUBER, GEORGE, US
[72] SANCHEZ-RIVERA, KEVIN, US
[72] VAN-LEHN, REID, US
[72] WALKER, TED, US
[72] ZHOU, PANZHENG, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2024-03-28
[86] 2022-11-18 (PCT/US2022/050363)
[87] (WO2023/091639)
[30] US (63/280,669) 2021-11-18

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[25] EN
[54] **CONVEYING SYSTEM FOR LONGITUDINALLY TRANSPORTING ELONGATE ITEMS**
[54] **SYSTEME DE CONVOYAGE POUR LE TRANSPORT LONGITUDINAL D'ARTICLES ALLONGES**
[72] KNAPP, FLORIAN, AT
[72] POTSCHER, JULIAN, AT
[71] SPRINGER MASCHINENFABRIK GMBH, AT
[85] 2024-03-28
[86] 2022-10-13 (PCT/EP2022/078489)
[87] (WO2023/066781)
[30] AT (A 50834/2021) 2021-10-20
[30] AT (A 50835/2021) 2021-10-20
[30] AT (A 50126/2022) 2022-02-25

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[51] **Int.Cl. G06T 3/40 (2024.01) G06T 5/00 (2024.01) G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMAGE PROCESSING**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DES IMAGES**
[72] CHEN, LIANGYI, CN
[72] LI, HAOYU, CN
[72] ZHAO, WEISONG, CN
[71] PEKING UNIVERSITY, CN
[85] 2024-03-28
[86] 2021-09-30 (PCT/CN2021/122442)
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[51] **Int.Cl. B01D 59/26 (2006.01) G01T 1/36 (2006.01) G21G 1/06 (2006.01)**
[25] EN
[54] **LU-177 RADIOCHEMISTRY SYSTEM AND METHOD**
[54] **PROCEDE ET SYSTEME DE RADIOCHIMIE DU LU-177**
[72] OELSNER, STEPHEN M., US
[72] HUNTER, GARY, US
[72] WIGGINS, BRYAN BLAKE, US
[72] POLICKE, TIMOTHY A., US
[72] GLENN, DAVID J., US
[71] BWXT MEDICAL LTD., CA
[85] 2024-03-28
[86] 2022-10-05 (PCT/IB2022/000574)
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[30] US (63/253,333) 2021-10-07
[30] US (17/959,752) 2022-10-04

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[13] A1
[51] **Int.Cl. F23C 10/18 (2006.01) C01B 32/50 (2017.01) C01B 3/32 (2006.01)**
[25] EN
[54] **ARRANGEMENTS FOR CHEMICAL LOOPING COMBUSTION SYSTEMS**
[54] **AGENCEMENTS POUR SYSTEMES DE COMBUSTION EN BOUCLE CHIMIQUE**
[72] HUGHES, ROBIN, CA
[72] SYMONDS, ROBERT, CA
[72] CHAMPAGNE, SCOTT, CA
[72] LUKA, EMI, CA
[72] BOND, NICOLE, CA
[71] HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES CANADA, CA
[85] 2024-03-28
[86] 2022-10-18 (PCT/CA2022/051535)
[87] (WO2023/065024)
[30] US (63/257,404) 2021-10-19

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[51] **Int.Cl. F28F 3/02 (2006.01)**
[25] EN
[54] **DIRECT HEAT EXCHANGE FILL**
[54] **REMPLISSAGE DIRECT D'ECHANGE DE CHALEUR**
[72] NEVINS, SCOTT, US
[72] HAMILTON, JENNIFER, US
[72] HERWIG, JEFFREY, US
[72] MUMMERT, ELIZA, US
[71] EVAPCO, INC., US
[85] 2024-03-28
[86] 2022-10-03 (PCT/US2022/045531)
[87] (WO2023/056090)
[30] US (63/251,271) 2021-10-01
[30] US (63/251,284) 2021-10-01
[30] US (17/958,812) 2022-10-03

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[51] **Int.Cl. H04B 11/00 (2006.01)**
[25] EN
[54] **SONIC CONDUIT TRACER SYSTEM**
[54] **SYSTEME DE TRACEUR DE CONDUIT SONIQUE**
[72] CHASE, ARNOLD, US
[71] CHASE, ARNOLD, US
[85] 2024-03-28
[86] 2023-04-17 (PCT/US2023/018812)
[87] (WO2024/030165)
[30] US (17/879,158) 2022-08-02

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[51] **Int.Cl. A61K 31/438 (2006.01) A61K 31/513 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY USING A PTPN11 INHIBITOR AND A KRAS G12C INHIBITOR**
[54] **POLYTHERAPIE A L'AIDE D'INHIBITEUR DE PTPN11 ET D'INHIBITEUR DE KRAS G12C**
[72] BELTRAN, PEDRO, US
[72] DAMBKOWSKI, CARL, US
[72] LIM, JUSTIN, US
[72] WADE, ANNA, US
[72] WALLACE, ELI, US
[72] SUN, YUTING, US
[72] KOHL, NANCY, US
[72] MEYERS, BROOKE, US
[72] SINKEVICIUS, KERSTIN, US
[72] STICE, JAMES, US
[72] VAN VEENHUYZEN, DAVID, US
[72] WOOD, LAUREN, US
[72] TWYMAN-SAINT VICTOR, CHRISTINA, US
[72] DING, LINA, US
[72] MORRIS, ERICK, US
[72] LIU, YU, US
[72] MEYER, MATTHEW, US
[71] NAVIRE PHARMA, INC., US
[71] BRIDGEBIO SERVICES, INC., US
[71] BRISTOL-MYERS SQUIBB COMPANY, US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/045391)
[87] (WO2023/056020)
[30] US (63/250,883) 2021-09-30

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[51] **Int.Cl. A61K 31/438 (2006.01) A61K 31/513 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY USING SUBSTITUTED PYRIMIDIN-4(3H)-ONES AND SOTORASIB**
[54] **POLYTHERAPIE A L'AIDE DE PYRIMIDIN-4(3H)-ONES ET DE SOTORASIB**
[72] BELTRAN, PEDRO, US
[72] DAMBKOWSKI, CARL, US
[72] LIM, JUSTIN, US
[72] WADE, ANNA, US
[72] WALLACE, ELI, US
[72] SUN, YUTING, US
[72] KOHL, NANCY, US
[72] MEYERS, BROOKE, US
[72] SINKEVICIUS, KERSTIN, US
[72] STICE, JAMES, US
[72] VAN VEENHUYZEN, DAVID, US
[72] WOOD, LAUREN, US
[71] NAVIRE PHARMA, INC., US
[71] BRIDGEBIO SERVICES, INC., US
[71] AMGEN INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/045413)
[87] (WO2023/056037)
[30] US (63/250,883) 2021-09-30

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[13] A1
[51] **Int.Cl. G06Q 10/00 (2023.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR QUANTIFYING AND/OR VERIFYING OCEAN-BASED INTERVENTIONS FOR SEQUESTERING CARBON DIOXIDE**
[54] **SYSTEMES ET PROCEDES DE QUANTIFICATION ET/OU DE VERIFICATION D'INTERVENTIONS OCEANIQUES DE SEQUESTRATION DU DIOXYDE DE CARBONE**
[72] THOMPSON, ANDREW, US
[72] CHALFIN, MAX, US
[72] MARTIN-FILIPPI, MARGAUX, US
[72] RIES, JUSTIN BAKER, US
[71] RUNNING TIDE TECHNOLOGIES, INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077404)
[87] (WO2023/056459)
[30] US (63/251,321) 2021-10-01

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[13] A1
[51] **Int.Cl. A47C 27/22 (2006.01)**
[25] EN
[54] **ELASTIC PAD, ADDITIONAL ELASTIC PAD LAYER AND FURNITURE**
[54] **COUSSIN ELASTIQUE, COUCHE DE COUSSIN ELASTIQUE SUPPLEMENTAIRE ET MEUBLE**
[72] LENG, LUHAO, CN
[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN
[85] 2024-03-28
[86] 2022-09-15 (PCT/CN2022/119103)
[87] (WO2023/051271)
[30] CN (202111165817.0) 2021-09-30

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[51] **Int.Cl. A61F 13/495 (2006.01)**
[25] EN
[54] **DIAPER WITH COLLECTION POUCH**
[54] **COUCHE AVEC POCHE DE COLLECTE**
[72] STEFU, CRISTIAN, CA
[72] HIDISAN, IOANA MIHAELA, CA
[72] RACINE, REGENT, CA
[71] EASYDAY HEALTH PRODUCTS INC., CA
[85] 2024-03-30
[86] 2023-05-02 (PCT/CA2023/050592)
[87] (WO2023/212809)
[30] US (63/337,491) 2022-05-02

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[13] A1
[51] **Int.Cl. E21B 19/16 (2006.01) E21B 3/02 (2006.01) F16D 1/10 (2006.01)**
[25] EN
[54] **LATCH RELEASE MECHANISM**
[54] **MECANISME DE LIBERATION DE VERROU**
[72] SLACK, MAURICE WILLIAM, CA
[71] NOETIC TECHNOLOGIES INC., CA
[85] 2024-03-30
[86] 2023-04-29 (PCT/CA2023/000010)
[87] (WO2023/212800)
[30] US (17/735,027) 2022-05-02

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[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **BAG AND VALVE FOR ADVANCED RESPIRATORY SUPPORT**
[54] **SAC ET VALVE POUR ASSISTANCE RESPIRATOIRE PERFECTIONNEE**
[72] MERRELL, JONATHAN, US
[72] SCOTT, ADAM, US
[72] FLAGLE, JACOB, US
[72] LANE, DANIEL, US
[71] COMPACT MEDICAL SOLUTIONS LLC, US
[85] 2024-04-01
[86] 2021-11-30 (PCT/US2021/061250)
[87] (WO2023/055407)
[30] US (63/251,373) 2021-10-01
[30] US (17/537,169) 2021-11-29

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[13] A1
[51] **Int.Cl. A61B 17/02 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **SURGICAL RETRACTOR**
[54] **ECARTEUR CHIRURGICAL**
[72] SHIRAZI, LEILA, SE
[71] SHIRAZI, LEILA, SE
[85] 2024-04-01
[86] 2022-10-29 (PCT/SE2022/050988)
[87] (WO2023/075673)
[30] SE (2130291-4) 2021-10-30

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[13] A1
[51] **Int.Cl. A61K 35/744 (2015.01) A23K 10/16 (2016.01) A23L 33/135 (2016.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **NOVEL STRAIN HAVING ANTAGONISM AGAINST PROTEUS MIRABILIS AND EXCELLENT EFFECT ON NEURODEGENERATIVE DISEASE, AND USE THEREOF**
[54] **NOUVELLE SOUCHE PRESENTANT UN ANTAGONISME VIS-A-VIS DE PROTEUS MIRABILIS ET UN EXCELLENT EFFET SUR UNE MALADIE NEURODEGENERATIVE, ET SON UTILISATION**
[72] OH, MYUNG SOOK, KR
[72] HUH, EUGENE, KR
[72] PARK, MYOUNG GYU, KR
[72] JEH, HOON SUNG, KR
[71] METACEN THERAPEUTICS CO., LTD, KR
[85] 2024-04-01
[86] 2022-10-19 (PCT/KR2022/015983)
[87] (WO2023/068819)
[30] KR (10-2021-0139579) 2021-10-19

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[13] A1
[51] **Int.Cl. F25B 17/08 (2006.01) F24F 13/22 (2006.01) F25B 30/04 (2006.01)**
[25] EN
[54] **LATENT ENERGY AND WATER HARVESTING SYSTEM**
[54] **SYSTEME DE COLLECTE D'ENERGIE LATENTE ET D'EAU**
[72] GABIG, DANIEL ALBERT, US
[72] JORE, MATTHEW BERNARD, US
[72] JORE, JAMES DOUGLAS, US
[72] KVAM, MICHAEL ALAN, US
[72] RUIZ, HECTOR, US
[72] JENKS, JEROMY W J, US
[72] BRACEY, TRISTRAM CHARLES RAGLAN, GB
[71] MONTANA TECHNOLOGIES LLC, US
[85] 2024-04-01
[86] 2022-09-30 (PCT/US2022/077316)
[87] (WO2023/056400)
[30] US (63/251,078) 2021-10-01

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[13] A1
[51] **Int.Cl. G01B 7/34 (2006.01) G01N 27/85 (2006.01) G01R 33/00 (2006.01) G01R 33/02 (2006.01) G01V 3/08 (2006.01) G01V 15/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR IDENTIFYING DISCONTINUITY IN WALL OF FERROUS**
[54] **PROCEDE ET APPAREIL POUR IDENTIFICATION DE DISCONTINUITE DANS UNE PAROI D'OBJET FERREUX**
[72] WATTS, KENNETH J, US
[71] UNITED STATES PIPE AND FOUNDRY COMPANY, LLC, US
[85] 2024-04-01
[86] 2022-09-28 (PCT/US2022/045071)
[87] (WO2023/055822)
[30] US (17/490,912) 2021-09-30

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[13] A1
[51] **Int.Cl. A61K 31/4353 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **COMBINATIONS OF KRAS G12D INHIBITORS WITH PI3KA INHIBITORS AND RELATED METHODS OF TREATMENT**
[54] **COMBINAISONS D'INHIBITEURS DE KRAS G12D ET D'INHIBITEURS DE PI3KA ET PROCEDES DE TRAITEMENT ASSOCIES**
[72] HALLIN, JILL, US
[72] CHRISTENSEN, JAMES GAIL, US
[72] BOWCUT, VICKIE, US
[72] OLSON, PETER, US
[71] MIRATI THERAPEUTICS, INC., US
[85] 2024-04-01
[86] 2022-10-04 (PCT/US2022/045619)
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[30] US (63/252,384) 2021-10-05

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[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) A61K 31/4375 (2006.01) C07D 471/06 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES OF KRAS G12D INHIBITORS WITH PAN ERBB FAMILY INHIBITORS**
[54] **POLYTHERAPIES A BASE D'INHIBITEURS DE KRAS G12D ET D'INHIBITEURS DE LA FAMILLE PAN ERBB**
[72] HALLIN, JILL, US
[72] CHRISTENSEN, JAMES GAIL, US
[72] BOWCUT, VICKIE, US
[72] OLSON, PETER, US
[71] MIRATI THERAPEUTICS, INC., US
[85] 2024-04-01
[86] 2022-10-04 (PCT/US2022/045621)
[87] (WO2023/059596)
[30] US (63/252,534) 2021-10-05

[21] **3,233,568**
[13] A1
[51] **Int.Cl. G06F 16/174 (2019.01) G06F 21/60 (2013.01) G06F 16/13 (2019.01) G06F 16/17 (2019.01) G06F 16/172 (2019.01)**
[25] EN
[54] **NETWORK FILE DEDUPLICATION USING DECAYING BLOOM FILTERS**
[54] **DEDUPLICATION DE FICHIERS DE RESEAU A L'AIDE DE FILTRES DE BLOOM DECROISSANTS**
[72] OAKLEY, JONATHAN, US
[72] EDMONDS, JOSEPH, US
[71] MORGAN STANLEY SERVICES GROUP INC., US
[85] 2024-04-01
[86] 2022-10-13 (PCT/US2022/046578)
[87] (WO2023/064475)
[30] US (17/503,252) 2021-10-15

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[13] A1
[51] **Int.Cl. H01M 4/02 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) H01M 4/36 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **POSITIVE ELECTRODE ACTIVE MATERIAL COMPOSITE FOR BATTERY, SECONDARY BATTERY ELECTRODE, AND SECONDARY BATTERY**
[54] **COMPOSITE DE MATERIAU ACTIF D'ELECTRODE POSITIVE POUR BATTERIE, ELECTRODE DE BATTERIE SECONDAIRE ET BATTERIE SECONDAIRE**
[72] AN, WOOHYUN, KR
[72] KIM, SEUNGDOO, KR
[72] LIM, CHANHYUK, KR
[72] LEE, JOOCHEOL, KR
[72] YANG, HWICHAN, KR
[71] DONGJIN SEMICHEM CO., LTD., KR
[85] 2024-04-01
[86] 2022-09-07 (PCT/KR2022/013488)
[87] (WO2023/063588)
[30] KR (10-2021-0137901) 2021-10-15

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[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) A61K 31/4375 (2006.01) C07D 471/06 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES OF KRAS G12D INHIBITORS WITH SOS1 INHIBITORS**
[54] **POLYTHERAPIES A BASE D'INHIBITEURS DE KRAS G12D ET D'INHIBITEURS DE SOS1**
[72] HALLIN, JILL, US
[72] CHRISTENSEN, JAMES GAIL, US
[72] BOWCUT, VICKIE, US
[72] OLSON, PETER, US
[71] MIRATI THERAPEUTICS, INC., US
[85] 2024-04-01
[86] 2022-10-04 (PCT/US2022/045622)
[87] (WO2023/059597)
[30] US (63/252,569) 2021-10-05

[21] **3,233,571**
[13] A1
[51] **Int.Cl. A61K 31/4353 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **COMBINATIONS OF KRAS G12D INHIBITORS WITH IRINOTECAN AND RELATED METHODS OF TREATMENT**
[54] **COMBINAISONS D'INHIBITEURS DE KRAS G12D AVEC DE L'IRINOTECAN ET METHODES DE TRAITEMENT ASSOCIES**
[72] HALLIN, JILL, US
[72] CHRISTENSEN, JAMES GAIL, US
[72] BOWCUT, VICKIE, US
[72] OLSON, PETER, US
[71] MIRATI THERAPEUTICS, INC., US
[85] 2024-04-01
[86] 2022-10-04 (PCT/US2022/045625)
[87] (WO2023/059600)
[30] US (63/252,405) 2021-10-05

[21] **3,233,572**
[13] A1
[51] **Int.Cl. C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **DDR1 AND DDR2 INHIBITORS FOR THE TREATEMENT OF CANCER AND FIBROTIC DISEASES**
[54] **INHIBITEURS DDR1 ET DDR2 POUR LE TRAITEMENT DU CANCER ET DE MALADIES FIBROTIQUES**
[72] BHAMRA, INDER, GB
[72] JONES, CLIFFORD D., GB
[72] VARELA RODRIGUEZ, ANA, GB
[72] GUISOT, NICOLAS E.S., GB
[71] REDX PHARMA PLC, GB
[85] 2024-04-01
[86] 2022-11-03 (PCT/GB2022/052778)
[87] (WO2023/079291)
[30] GB (2115838.1) 2021-11-04

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[13] A1
[51] **Int.Cl. C08K 3/04 (2006.01) C09D 11/52 (2014.01) C08L 75/04 (2006.01)**
[25] EN
[54] **HEATABLE GARMENT, FABRICS FOR SUCH GARMENTS, AND METHODS OF MANUFACTURE**
[54] **VETEMENT CHAUFFANT, TISSUS POUR DE TELS VETEMENTS ET PROCEDE DE FABRICATION**
[72] HOWE, THOMAS HARRY, GB
[72] JONES, ELLIOT OWEN, GB
[71] HAYDALE GRAPHENE INDUSTRIES PLC, GB
[85] 2024-04-01
[86] 2022-10-20 (PCT/EP2022/079288)
[87] (WO2023/067105)
[30] GB (2115023.0) 2021-10-20

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[13] A1
[51] **Int.Cl. A61K 36/07 (2006.01) A23K 20/20 (2016.01) A61K 36/074 (2006.01) A61K 36/47 (2006.01) A61K 36/82 (2006.01) A61K 36/8962 (2006.01)**
[25] EN
[54] **HERBAL COMPOSITION FOR BREAST CANCER PREVENTION**
[54] **COMPOSITION A BASE D'HERBES POUR LA PREVENTION DU CANCER DU SEIN**
[72] MANN KEVEHAZI, LAURA, GB
[71] MANN KEVEHAZI, LAURA, GB
[85] 2024-04-02
[86] 2022-12-16 (PCT/EP2022/086513)
[87] (WO2023/117815)
[30] US (63/292,451) 2021-12-22

[21] **3,233,591**
[13] A1
[51] **Int.Cl. B60L 7/10 (2006.01) H01M 8/04858 (2016.01) B60L 50/75 (2019.01) B60L 58/40 (2019.01)**
[25] EN
[54] **PROGNOSTIC LIMITATION TO FUEL CELL POWER OUTPUT FOR IMPROVED EFFICIENCY IN MOBILE MACHINE**
[54] **LIMITATION PRONOSTIQUE DE LA PUISSANCE FOURNIE PAR UNE PILE A COMBUSTIBLE POUR UNE EFFICACITE AMELIOREE DANS UN ENGIN MOBILE**
[72] LANE, CAMERON THOMAS, US
[71] CATERPILLAR INC., US
[85] 2024-04-02
[86] 2022-09-28 (PCT/US2022/044962)
[87] (WO2023/059486)
[30] US (17/492,986) 2021-10-04

[21] **3,233,592**
[13] A1
[51] **Int.Cl. A61H 19/00 (2006.01)**
[25] EN
[54] **NEGATIVE-PRESSURE MASSAGE DEVICE SPECIALLY USED FOR MEN AND MASSAGE STRUCTURE THEREOF**
[54] **APPAREIL DE MASSAGE A PRESSION NEGATIVE SPECIALEMENT UTILISE PAR LES HOMMES ET SA STRUCTURE DE MASSAGE**
[72] LIU, PO-CHANG, CN
[72] YUAN, LI-PIN, CN
[71] BIBOTING INTERNATIONAL CO., LTD, CN
[71] LIU, PO-CHANG, CN
[71] BIBOTING TRADING (SHANGHAI) CO., LTD, CN
[85] 2024-04-02
[86] 2022-01-19 (PCT/CN2022/072670)
[87] (WO2023/137613)

[21] **3,233,593**
[13] A1
[51] **Int.Cl. B60L 50/60 (2019.01) B60L 53/30 (2019.01) B60L 53/35 (2019.01) B60L 53/62 (2019.01) B60L 53/65 (2019.01) B60L 53/66 (2019.01) B60L 53/68 (2019.01) B60L 58/12 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CHARGING AN ELECTRIC VEHICLE**
[54] **SYSTEME ET PROCEDE DE RECHARGE D'UN VEHICULE ELECTRIQUE**
[72] OTHMAN, JEFFERY, US
[72] CONVERSE, PERRY D., US
[72] BREWER, MICHAEL A., US
[72] BARNICKEL, WILLIAM E., US
[72] VITALE, ANDREW J., US
[71] CATERPILLAR INC., US
[85] 2024-04-02
[86] 2022-09-27 (PCT/US2022/044873)
[87] (WO2023/059481)
[30] US (17/492,895) 2021-10-04

[21] **3,233,594**
[13] A1
[51] **Int.Cl. A61H 19/00 (2006.01)**
[25] EN
[54] **SPECIAL NEGATIVE PRESSURE MASSAGE DEVICE FOR WOMEN AND MASSAGE STRUCTURE THEREOF**
[54] **DISPOSITIF SPECIAL DE MASSAGE PAR PRESSION NEGATIVE POUR FEMME ET STRUCTURE DE MASSAGE CORRESPONDANTE**
[72] YUAN, LI-PIN, CN
[71] BIBOTING INTERNATIONAL CO., LTD, CN
[71] LIU, PO-CHANG, CN
[71] BIBOTING TRADING (SHANGHAI) CO., LTD, CN
[85] 2024-04-02
[86] 2022-01-19 (PCT/CN2022/072671)
[87] (WO2023/137614)

[21] **3,233,595**
[13] A1
[51] **Int.Cl. A61B 90/30 (2016.01) A61F 9/007 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR WIDE ANGLE CHANDELIER ILLUMINATOR**
[54] **PROCEDES ET APPAREILS POUR ILLUMINATION PAR « CHANDELIER » A GRAND ANGLE**
[72] XIANG, QING, US
[72] RYAN, TIMOTHY C., US
[72] YAN, YU, US
[71] ALCON, INC., CH
[85] 2024-04-02
[86] 2022-10-18 (PCT/IB2022/060003)
[87] (WO2023/089407)
[30] US (63/264,183) 2021-11-17

[21] **3,233,597**
[13] A1
[51] **Int.Cl. A61B 90/20 (2016.01) A61B 3/00 (2006.01) A61B 3/13 (2006.01) A61B 3/14 (2006.01)**
[25] EN
[54] **IMAGING APPARATUS WITH MULTIPLE STEREOSCOPIC CAMERAS**
[54] **APPAREIL D'IMAGERIE A CAMERAS STEREOSCOPIQUES MULTIPLES**
[72] MYERS, GILLIAN, US
[72] ASPNES, ERIC, US
[71] ALCON INC., CH
[85] 2024-04-02
[86] 2022-10-07 (PCT/IB2022/059634)
[87] (WO2023/084334)
[30] US (63/277,369) 2021-11-09

[21] **3,233,600**
[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01)**
[25] EN
[54] **SURGICAL IMPLANT DELIVERY WITH DAMPING**
[54] **POSE D'IMPLANT CHIRURGICAL AVEC AMORTISSEMENT**
[72] HOANG, HARLEN, US
[72] WU, YINGHUI, US
[72] SHERRY, R. MITCHELL, US
[72] WENSRICH, DOUGLAS BRENT, US
[72] LI, TUOQI, US
[71] ALCON INC., CH
[85] 2024-04-02
[86] 2022-10-21 (PCT/IB2022/060154)
[87] (WO2023/084344)
[30] US (63/263,948) 2021-11-12

[21] **3,233,602**
[13] A1
[51] **Int.Cl. H01P 1/16 (2006.01) H01P 1/00 (2006.01) H01P 3/20 (2006.01) H01P 5/103 (2006.01)**
[25] EN
[54] **IN-LINE WAVEGUIDE MODE CONVERTER**
[54] **CONVERTISSEUR DE MODE GUIDE D'ONDES EN LIGNE**
[72] TRANQUILLA, JAMES M., CA
[72] CLARK, KENNETH, CA
[71] NUIONIC TECHNOLOGIES (CANADA) INC., CA
[85] 2024-03-22
[86] 2022-09-23 (PCT/CA2022/051417)
[87] (WO2023/044578)
[30] US (63/247,508) 2021-09-23

[21] **3,233,604**
[13] A1
[51] **Int.Cl. A01N 43/40 (2006.01) A01N 37/02 (2006.01) A01N 37/06 (2006.01) A01N 43/713 (2006.01) A01P 7/00 (2006.01)**
[25] EN
[54] **SYNERGISTIC PESTICIDAL COMPOSITIONS AND METHODS FOR DELIVERY OF INSECTICIDAL ACTIVE INGREDIENTS**
[54] **COMPOSITIONS PESTICIDES SYNERGIQUES ET PROCEDES D'ADMINISTRATION D'INGREDIENTS ACTIFS INSECTICIDES**
[72] MANHAS, KARAN, CA
[72] ROZEK, ANNETT, CA
[72] VAN FLEET, ERIC, CA
[71] TERRAMERA, INC., CA
[85] 2024-03-26
[86] 2022-09-26 (PCT/CA2022/051425)
[87] (WO2023/044584)
[30] US (63/248,910) 2021-09-27
[30] US (63/399,167) 2022-08-18

[21] **3,233,606**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/7048 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING ENAVOGLIFLOZIN**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DE L'ENAVOGLIFLOZINE**
[72] HA, SONGYI, KR
[72] KIM, GYOUNGWON, KR
[72] KIM, GWANYOUNG, KR
[72] CHO, SANGEUN, KR
[72] HWANG, ON, KR
[72] PARK, MINHYUNG, KR
[72] LEE, SEOYEO, KR
[72] LEE, HEEWON, KR
[72] YOUN, SEUNGBIN, KR
[71] DAEWOONG PHARMACEUTICAL CO., LTD., KR
[85] 2024-03-25
[86] 2022-09-29 (PCT/KR2022/014640)
[87] (WO2023/055116)
[30] KR (10-2021-0130239) 2021-09-30

[21] **3,233,607**
[13] A1
[51] **Int.Cl. F24F 1/0378 (2019.01) F24F 5/00 (2006.01)**
[25] EN
[54] **TEMPERATURE CONTROL UNIT**
[54] **UNITE DE REGULATION DE TEMPERATURE**
[72] FU, TIMOTHY, US
[72] SUN, NANCY, US
[72] DIPIETRO, DEAN, US
[71] BOOTBOX LABS, INC., US
[85] 2024-03-25
[86] 2022-09-30 (PCT/US2022/077348)
[87] (WO2023/056420)
[30] US (63/262,023) 2021-10-01
[30] US (63/374,882) 2022-09-07

[21] **3,233,608**
[13] A1
[51] **Int.Cl. C23C 16/27 (2006.01) C23C 16/455 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PRODUCING DOPED DIAMOND COATINGS**
[54] **APPAREIL ET PROCEDE DE PRODUCTION DE COUCHES DE DIAMANT DOPE**
[72] STEINMULLER, DETLEF, AT
[72] STEINMULLER-NETHL, DORIS, AT
[72] STEINMULLER, MAXIMILIAN, AT
[71] CARBONCOMPETENCE GMBH, AT
[71] YG-1 CO., LTD., KR
[85] 2024-03-22
[86] 2022-10-21 (PCT/AT2022/060363)
[87] (WO2023/064972)
[30] AT (A 50843/2021) 2021-10-22

[21] **3,233,611**
[13] A1
[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/62 (2006.01)**
[25] EN
[54] **GASEOUS CO2 CAPTURE SYSTEMS FOR IMPROVING CAPTURE PERFORMACE, AND METHODS OF USE THEREOF**
[54] **SYSTEMES DE CAPTURE DE CO2 GAZEUX POUR AMELIORER LES PERFORMANCES DE CAPTURE, ET LEURS PROCEDES D'UTILISATION**
[72] SELF, KYLE, US
[72] SCHNEIDER, JACOB, US
[72] CONSTANTZ, BRENT R., US
[71] BLUE PLANET SYSTEMS CORPORATION, US
[85] 2024-04-02
[86] 2022-09-30 (PCT/US2022/045379)
[87] (WO2023/056011)
[30] US (63/251,313) 2021-10-01

[21] **3,233,612**
[13] A1
[51] **Int.Cl. B23K 23/00 (2006.01) B60K 31/00 (2006.01) B62K 11/14 (2006.01) B62K 23/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ADJUSTABLE MOTORCYCLE THROTTLE LOCK CRUISE CONTROL**
[54] **SYSTEME ET PROCEDE DE REGULATION DE VITESSE DE CROISIERE AJUSTABLE A ACCELERATEUR DE MOTOCYCLETTE**
[72] WINTERS, DAVID JAMES, US
[71] WINTERS, DAVID JAMES, US
[85] 2024-04-02
[86] 2022-09-02 (PCT/US2022/042508)
[87] (WO2023/075931)
[30] US (17/512,516) 2021-10-27

[21] **3,233,615**
[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **SCREENING METHOD FOR RHEUMATOID ARTHRITIS**
[54] **PROCEDE DE CRIBLAGE DE LA POLYARTHRITE RHUMATOIDE**
[72] RISKEDAL, ESPEN, NO
[72] KALLEBERG, KARL TRYGVE, NO
[72] SORAAS, ARNE, NO
[72] HADLEY, CATHRINE LUND, NO
[72] NEUMANN, JANIS FREDERICK, NO
[71] AGE LABS AS, NO
[85] 2024-04-02
[86] 2022-10-04 (PCT/EP2022/077612)
[87] (WO2023/057467)
[30] EP (21200767.8) 2021-10-04

[21] **3,233,616**
[13] A1
[51] **Int.Cl. G01K 13/20 (2021.01) A01K 11/00 (2006.01) A01K 29/00 (2006.01) G01P 15/00 (2006.01) G01K 1/024 (2021.01) G01K 1/08 (2021.01) G01P 1/00 (2006.01) G01P 1/02 (2006.01) G01P 1/07 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF LIVESTOCK MANAGEMENT**
[54] **SYSTEMES ET PROCEDES DE GESTION D'ANIMAUX D'ELEVAGE**
[72] TOKAREV, DENIS, CA
[72] GIRARD, ROBERT KENNETH, CA
[71] SILK WAY SERVICES INC., CA
[85] 2024-03-26
[86] 2022-09-27 (PCT/CA2022/051434)
[87] (WO2023/044588)
[30] US (63/248,974) 2021-09-27

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[13] A1
[51] **Int.Cl. B21D 1/14 (2006.01) G01B 11/00 (2006.01) G01B 11/275 (2006.01)**
[25] EN
[54] **UPGRADED ABUTMENT BENCH**
[54] **BANC DE BUTEE AMELIORE**
[72] MANFREDI, LORENZO FEDERICO MICHAEL, IT
[71] CAR BENCH S.P.A., IT
[85] 2024-04-02
[86] 2022-10-05 (PCT/IB2022/059509)
[87] (WO2023/057924)
[30] IT (102021000026537) 2021-10-06

[21] **3,233,620**
[13] A1
[51] **Int.Cl. E04H 12/18 (2006.01) G01J 3/28 (2006.01) G01N 21/25 (2006.01) G01N 33/00 (2006.01) E04H 12/34 (2006.01) G01N 21/17 (2006.01)**
[25] EN
[54] **MOBILE SYSTEMS FOR MONITORING EMISSIONS**
[54] **SYSTEMES MOBILES POUR SURVEILLER DES EMISSIONS**
[72] ETHERIDGE, JOE, US
[72] KERVICK, KRISTOPHER, US
[71] ENCINO ENVIRONMENTAL SERVICES, LLC, US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/044905)
[87] (WO2023/049514)
[30] US (17/485,762) 2021-09-27

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[13] A1
[51] **Int.Cl. C07D 403/14 (2006.01) A61K 31/437 (2006.01) A61P 29/00 (2006.01) C07D 405/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **BENZIMIDAZOLE AND AZABENZIMIDAZOLE IL-17 INHIBITOR COMPOUNDS**
[54] **COMPOSES BENZIMIDAZOLES ET AZABENZIMIDAZOLES INHIBITEURS DE L'IL-17**
[72] GOLDBERG, STEVEN D., US
[72] BEHENNA, DOUGLAS C., US
[72] LOSKOT, STEVEN A., US
[72] MCCARVER, STEFAN J., US
[72] RHORER, TIMOTHY B., US
[72] SONG, KRISTEN G., US
[72] VALDES, ALEXANDER E., US
[72] WOODS, CRAIG R., US
[72] XUE, XIAOHUA, US
[72] SHIREMAN, BROCK T., US
[72] TANIS, VIRGINIA M., US
[72] GORDON, DEANE, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/076999)
[87] (WO2023/049885)
[30] US (63/248,561) 2021-09-27
[30] US (63/273,395) 2021-10-29

[21] **3,233,624**
[13] A1
[51] **Int.Cl. B32B 33/00 (2006.01) D05C 15/04 (2006.01) D05C 17/02 (2006.01)**
[25] EN
[54] **FABRICS, SURFACE COVERINGS COMPRISING SAME, AND SYSTEMS AND METHODS FOR PRODUCING SAME**
[54] **TISSUS, REVETEMENTS DE SURFACE COMPRENANT CEUX-CI, ET SYSTEMES ET PROCEDES DE PRODUCTION DE CEUX-CI**
[72] FOWLER, GREGORY D., US
[72] MATHIS, MICHAEL, US
[71] SHAW INDUSTRIES GROUP, INC., US
[85] 2024-04-02
[86] 2022-10-07 (PCT/US2022/046086)
[87] (WO2023/059897)
[30] US (63/253,697) 2021-10-08

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[13] A1
[51] **Int.Cl. A61K 31/5025 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **IMIDAZOPYRIDAZINE IL-17 INHIBITOR COMPOUNDS**
[54] **COMPOSES INHIBITEURS DE L'IL-17 TELS QUE L'IMIDAZOPYRIDAZINE**
[72] GOLDBERG, STEVEN D., US
[72] GORDON, DEANE, US
[72] LOSKOT, STEVEN A., US
[72] MCCARVER, STEFAN, US
[72] MEDUNA, STEVEN P., US
[72] SHIREMAN, BROCK T., US
[72] VALDES, ALEXANDER E., US
[72] WU, DONGPEI, US
[72] XUE, XIAOHUA, US
[72] HANNA, LUKE E., US
[72] VENABLE, JENNIFER D., US
[72] BEHENNA, DOUGLAS C., US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/077000)
[87] (WO2023/049886)
[30] US (63/248,563) 2021-09-27
[30] US (63/273,407) 2021-10-29
[30] US (63/371,910) 2022-08-19

[21] **3,233,626**
[13] A1
[51] **Int.Cl. A01G 25/02 (2006.01) A01G 25/16 (2006.01) A01C 23/02 (2006.01) A01C 23/04 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR FILTER AND OVERHANG PLUGGING DETECTION**
[54] **SYSTEME, PROCEDE ET APPAREIL DE DETECTION DE COLMATAGE DE FILTRE ET D?OBSTRUCTION EN SURPLOMB**
[72] DIXON, JOSHUA M., US
[72] KASTL, JOHN, US
[71] VALMONT INDUSTRIES, INC., US
[85] 2024-04-02
[86] 2022-09-26 (PCT/US2022/044664)
[87] (WO2023/059461)
[30] US (63/252,703) 2021-10-06

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[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) A61K 45/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **GIANT ORGANELLES RECOVERY AND USE THEREOF**
[54] **RECUPERATION D'ORGANELLES GEANTES ET UTILISATION DE CELLES-CI**
[72] THIAM, ABDOU RACHID, FR
[72] SANTINHO, ALEXANDRE, FR
[72] FAUGERAS, VINCENT, FR
[71] PARIS SCIENCES ET LETTRES, FR
[71] ECOLE NORMALE SUPERIEURE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] SORBONNE UNIVERSITE, FR
[71] UNIVERSITE PARIS CITE, FR
[85] 2024-04-02
[86] 2022-10-13 (PCT/EP2022/078560)
[87] (WO2023/062149)
[30] EP (21202428.5) 2021-10-13

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[13] A1
[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61P 35/00 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **N-(5-SUBSTITUTED-[(1,3,4-THIADIAZOLYL) OR (THIAZOLYL)])(SUBSTITUTED)CARBOXAMIDE COMPOUNDS AND USE THEREOF FOR INHIBITING HUMAN POLYMERASE THETA**
[54] **COMPOSES N-([(L,3,4-THIADIAZOLYLE) OU (THIAZOLYLE)]-5-SUBSTITUES)CARBOXAMIDE (SUBSTITUE) ET LEUR UTILISATION POUR INHIBER LA POLYMERASE THETA HUMAINE**
[72] LIU, BINGCAN, CA
[72] PERRYMAN, ALEXANDER, CA
[72] MOCHIRIAN, PHILIPPE, CA
[72] GALLANT, MICHEL, CA
[72] BENDAHAN, DAVID, CA
[72] SURPRENANT, SIMON, CA
[72] SZYCHOWSKI, JANEK, CA
[72] DIETRICH, EVELYNE, CA
[72] SOW, BOUBACAR, CA
[72] BUBENIK, MONICA, CA
[71] REPARE THERAPEUTICS INC., CA
[85] 2024-03-26
[86] 2022-09-29 (PCT/CA2022/051446)
[87] (WO2023/050007)
[30] US (63/249,878) 2021-09-29
[30] US (63/316,746) 2022-03-04

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[13] A1
[51] **Int.Cl. B29C 33/42 (2006.01) B29C 48/08 (2019.01) B65D 51/24 (2006.01) G09F 3/02 (2006.01)**
[25] EN
[54] **POLYMERIC ARTICLES WITH ELECTRONIC CODE FORMED THEREON AND PROCESS OF MAKING THE SAME**
[54] **ARTICLES POLYMERES SUR LESQUELS UN CODE ELECTRONIQUE EST FORME ET LEUR PROCEDE DE FABRICATION**
[72] WATERMAN, JARED B., US
[72] EICKHOFF, JONATHAN, US
[72] SCOTT, JENNYE, US
[72] BIRCHLER, KIRK, US
[72] MANN, JEFFREY A., US
[71] BERRY GLOBAL, INC., US
[85] 2024-04-02
[86] 2022-09-29 (PCT/US2022/045217)
[87] (WO2023/055925)
[30] US (63/251,150) 2021-10-01

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[13] A1
[51] **Int.Cl. H02P 21/06 (2016.01) H02P 27/08 (2006.01)**
[25] EN
[54] **MOTOR DEVICE**
[54]
[72] KATSURA, KENSHIRO, JP
[72] JIKUMARU, TAKEHIRO, JP
[72] YAMAGUCHI, KOJI, JP
[72] YAMADA, TATSURO, JP
[71] IHI CORPORATION, JP
[85] 2024-04-02
[86] 2022-11-16 (PCT/JP2022/042626)
[87] (WO2023/095705)
[30] JP (2021-189865) 2021-11-24

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[13] A1
[51] **Int.Cl. A61H 7/00 (2006.01) A61H 39/04 (2006.01)**
[25] EN
[54] **ACUPRESSURE MASSAGE DEVICE**
[54] **DISPOSITIF DE MASSAGE PAR ACUPRESSION**
[72] PARK, MIN GYU, KR
[71] PARK, MIN GYU, KR
[85] 2024-04-02
[86] 2022-08-17 (PCT/KR2022/012299)
[87] (WO2023/068513)
[30] KR (10-2021-0139699) 2021-10-19

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[13] A1
[51] **Int.Cl. B60C 11/12 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL TIRE SIPE**
[54] **LAMELLE DE PNEU TRIDIMENSIONNELLE**
[72] IRWIN, MATTHEW A., US
[72] KOSMAC, KEVIN J., US
[72] NAKAHARA, DAISUKE, US
[71] BRIDGESTONE AMERICAS TIRE OPERATIONS, LLC, US
[85] 2024-04-02
[86] 2022-09-27 (PCT/US2022/077051)
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[30] US (63/252,444) 2021-10-05

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[51] **Int.Cl. A01D 33/12 (2006.01) A01D 43/06 (2006.01) A01D 69/00 (2006.01) A01D 33/14 (2006.01) A01D 75/30 (2006.01)**
[25] EN
[54] **SYSTEM AND APPARATUS FOR PROVIDING DRIVER PACING INFORMATION FOR AGRICULTURAL VEHICLES**
[54] **SYSTEME ET APPAREIL POUR FOURNIR DES INFORMATIONS DE STIMULATION DE CONDUCTEUR POUR VEHICULES AGRICOLES**
[72] DEN BOER, NOLAN, US
[72] BORKOWSKI, COLLIN, US
[72] VAN DE WAERDT, NICHOLAS, US
[72] POST, GRANT, US
[72] FLUIT, STEVEN, US
[71] KOOIMA AG, INC., US
[85] 2024-04-02
[86] 2023-02-07 (PCT/US2023/012484)
[87] (WO2023/154265)
[30] US (63/308,223) 2022-02-09
[30] US (18/165,002) 2023-02-06

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[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 39/39 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C07K 14/47 (2006.01) C07K 14/55 (2006.01) C07K 16/18 (2006.01) C07K 16/44 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **INTERLEUKIN 2 CHIMERIC CONSTRUCTS WITH TARGETING SPECIFICY TO INFLAMED TISSUES**
[54] **CONSTRUCTIONS CHIMERIQUES D'INTERLEUKINE 2 ONT UNE SPECIFICITE DE CIBLAGE VIS-A-VIS DES TISSUS ENFLAMMES**
[72] KLATZMANN, DAVID, FR
[72] TEDGUI, ALAIN, FR
[72] VAZQUEZ, THOMAS, FR
[72] BILLIALD, NICOLAS, FR
[71] ILTOO PHARMA, FR
[71] SORBONNE UNIVERSITE, FR
[71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[85] 2024-04-02
[86] 2022-10-06 (PCT/EP2022/077847)
[87] (WO2023/057588)
[30] EP (21306399.3) 2021-10-06

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[13] A1
[51] **Int.Cl. A61K 35/10 (2015.01) A61K 31/352 (2006.01) A61K 38/06 (2006.01) C07D 311/32 (2006.01) C07D 493/04 (2006.01) C07K 5/037 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING ACUTE ALCOHOL INTAKE**
[54] **COMPOSITIONS ET METHODES POUR TRAITER UNE PRISE D'ALCOOL AIGUE**
[72] WEINKAUF, DAVID, CA
[72] SCOTT, MARK, CA
[72] SCHMIDT, NANCY, CA
[71] NEXT LEVEL HEALTH SCIENCES INC., CA
[85] 2024-04-02
[86] 2022-10-04 (PCT/IB2022/059478)
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[51] **Int.Cl. H01R 13/512 (2006.01) H01R 13/42 (2006.01) H01R 13/52 (2006.01) H01R 24/28 (2011.01) H01R 24/86 (2011.01) H01R 4/36 (2006.01)**
[25] EN
[54] **MODULAR PLUG**
[54] **FICHE MODULAIRE**
[72] GARCIA CANSECO, ERIK, MX
[72] MARTINEZ VELERIO, ELIAS, MX
[72] GARCIA, ALEJANDRO, MX
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2024-04-02
[86] 2022-09-30 (PCT/EP2022/025454)
[87] (WO2023/051956)
[30] US (63/251,669) 2021-10-03

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[13] A1
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 10/0587 (2010.01)**
[25] EN
[54] **ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING SAME**
[54] **ENSEMBLE ELECTRODE ET BATTERIE SECONDAIRE LE COMPRENANT**
[72] LEE, MYUNG AN, KR
[72] RYU, DUK HYUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-02
[86] 2022-10-27 (PCT/KR2022/016602)
[87] (WO2023/075462)
[30] KR (10-2021-0144428) 2021-10-27

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[13] A1
[51] **Int.Cl. H04W 52/02 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD, COMMUNICATION APPARATUS, AND COMMUNICATION SYSTEM**
[54] **PROCEDE DE COMMUNICATION, APPAREIL DE COMMUNICATION ET SYSTEME DE COMMUNICATION**
[72] PAN, QI, CN
[72] HUANG, ZHENGLEI, CN
[72] ZHANG, WANQIANG, CN
[72] LI, YONGCUI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-26
[86] 2022-09-22 (PCT/CN2022/120600)
[87] (WO2023/056843)
[30] CN (202111178674.7) 2021-10-10
[30] CN (202111308873.5) 2021-11-05

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[13] A1
[51] **Int.Cl. H04W 8/08 (2009.01)**
[25] EN
[54] **INFORMATION TRANSMISSION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION D'INFORMATIONS**
[72] LI, YONGCUI, CN
[72] CHEN, ZEHAO, CN
[72] NI, HUI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-26
[86] 2022-09-26 (PCT/CN2022/121186)
[87] (WO2023/051428)
[30] CN (202111163293.1) 2021-09-30

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[13] A1
[51] **Int.Cl. B01D 61/18 (2006.01) B01D 61/22 (2006.01)**
[25] EN
[54] **INTEGRATED SOLUTION FOR PROCESS INTENSIFICATION USING INLINE CONSTANTLY PRESSURIZED TANK: "ICPT"**
[54] **SOLUTION INTEGREE POUR L'INTENSIFICATION DE PROCESSUS A L'AIDE D'UN RESERVOIR A PRESSION CONSTANTE EN LIGNE ("ICPT")**
[72] BALBUENA, BAPTISTE, FR
[72] DELACROIX, SEBASTIEN, FR
[72] HAJJAMI, NARGISSE EL, FR
[72] KASCHUTNIG, PAUL, DE
[72] DURR, JOSSELYN HAAS, FR
[72] TOMIC-SKRBIC, SLADJANA, DE
[71] MERCK PATENT GMBH, DE
[85] 2024-03-26
[86] 2022-09-27 (PCT/EP2022/076836)
[87] (WO2023/052357)
[30] EP (21306336.5) 2021-09-28

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[13] A1
[51] **Int.Cl. C07C 31/02 (2006.01) C07C 43/02 (2006.01) C07C 49/04 (2006.01) C12G 3/00 (2019.01) C12G 3/04 (2019.01)**
[25] EN
[54] **BRANDY REPLICAS**
[54] **REPLIQUES DE BRANDY**
[72] SAAD, DANIEL ASSAD, US
[72] RYO, SAMUEL, SG
[72] BAKER, LUCAS, US
[72] CHUA, MARDONN CARL, US
[72] SMITH, LINDSAY LORETTA, US
[71] AVA FOOD LABS, INC., US
[85] 2024-03-27
[86] 2022-09-28 (PCT/US2022/045041)
[87] (WO2023/055801)
[30] US (63/249,462) 2021-09-28

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[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) C12N 5/0783 (2010.01) C07K 14/52 (2006.01) C07K 14/715 (2006.01)**
[25] EN
[54] **NOVEL IMMUNE REGULATOR**
[54] **NOUVEAU REGULATEUR IMMUNITAIRE**
[72] GOMPELS, URSULA, GB
[71] VIROTHERA LTD, GB
[85] 2024-04-02
[86] 2022-10-06 (PCT/EP2022/077849)
[87] (WO2023/057589)
[30] LU (500712) 2021-10-06

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[13] A1
[51] **Int.Cl. E02F 9/22 (2006.01)**
[25] EN
[54] **MOBILE MACHINE WITH BATTERY POWERED ACTUATOR SYSTEM**
[54] **MACHINE MOBILE AVEC SYSTEME D'ACTIONNEMENT ALIMENTE PAR BATTERIE**
[72] GEIGER, DAVID, US
[71] MOOG INC., US
[85] 2024-03-27
[86] 2022-09-28 (PCT/US2022/045054)
[87] (WO2023/055812)
[30] US (63/249,669) 2021-09-29

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[13] A1
[51] **Int.Cl. G01V 1/40 (2006.01) E21B 7/06 (2006.01) E21B 44/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR EVALUATING BOTTOM HOLE ASSEMBLIES**
[54] **SYSTEME ET PROCEDE D'EVALUATION D'ENSEMBLES DE FOND DE TROU**
[72] YU, YINGWEI, US
[72] JEONG, CHEOLKYUN, US
[72] SHEN, YUELIN, US
[72] CHEN, WEI, US
[72] ZHANG, ZHENGXIN, US
[72] VESSELINOV, VELIZAR, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-27
[86] 2022-09-29 (PCT/US2022/045200)
[87] (WO2023/055913)
[30] US (17/449,399) 2021-09-29

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[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) A61P 35/00 (2006.01) C07K 14/54 (2006.01)**
[25] EN
[54] **ACTIVATABLE CYTOKINE CONSTRUCTS AND RELATED COMPOSITIONS AND METHODS**
[54] **CONSTRUCTIONS DE CYTOKINE ACTIVABLES ET COMPOSITIONS ET PROCEDES ASSOCIES**
[72] CAI, NA, US
[72] WINTER, MICHAEL B., US
[72] PAIDHUNGAT, MADAN M., US
[72] DANIEL, DYLAN L., US
[72] LE SCOLAN, ERWAN, US
[71] CYTOMX THERAPEUTICS, INC., US
[85] 2024-04-02
[86] 2022-10-06 (PCT/US2022/077644)
[87] (WO2023/060156)
[30] US (63/253,939) 2021-10-08
[30] US (63/311,397) 2022-02-17

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[13] A1
[51] **Int.Cl. A61B 1/00 (2006.01) A61B 34/30 (2016.01) A61B 90/50 (2016.01) F16M 11/12 (2006.01)**
[25] EN
[54] **RAIL EXTENSION FOR ROBOTIC-SURGERY DEVICES**
[54] **EXTENSION DE RAIL POUR DISPOSITIFS DE CHIRURGIE ROBOTIQUE**
[72] COHEN, DVIR, IL
[72] LEVINSON, YARON, IL
[72] NACHSHONY, GAL, IL
[72] RON, ADAM, IL
[71] MOMENTIS SURGICAL LTD., IL
[85] 2024-04-02
[86] 2022-10-11 (PCT/IB2022/059717)
[87] (WO2023/062518)
[30] US (63/262,353) 2021-10-11

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[13] A1
[51] **Int.Cl. A61B 5/024 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR HEART RATE DETECTION**
[54] **TECHNIQUES DE DETECTION DE FREQUENCE CARDIAQUE**
[72] SIMILA, HEIDI, FI
[72] ZHANG, XI, FI
[72] VALLIUS, TERO JUHANI, FI
[72] JARVELA, JUSSI PETTERI, FI
[72] SYRJALA, JUHA-PEKKA, FI
[72] HEINONEN, TOMMI, FI
[72] TIKKANEN, PAULI ENSIO, FI
[71] OURA HEALTH OY, FI
[85] 2024-03-27
[86] 2022-09-30 (PCT/US2022/045428)
[87] (WO2023/056048)
[30] US (63/251,086) 2021-10-01
[30] US (17/957,345) 2022-09-30

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[13] A1
[51] **Int.Cl. G06N 3/047 (2023.01) G06N 3/09 (2023.01) G06N 3/0464 (2023.01) G06N 3/048 (2023.01)**
[25] EN
[54] **PARTICLE FLOW TRAINING OF BAYESIAN NEURAL NETWORK**
[54] **ENTRAINEMENT DE FLUX DE PARTICULES DE RESEAU NEURONAL BAYESIEN**
[72] BAKER, SUZANNE M., US
[72] ALLERDT, ANDREW C., US
[72] SALPUKAS, MICHAEL R., US
[72] DAUM, FREDERICK E., US
[71] RAYTHEON COMPANY, US
[85] 2024-03-27
[86] 2022-10-25 (PCT/US2022/047732)
[87] (WO2023/076273)
[30] US (17/509,270) 2021-10-25

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[13] A1
[51] **Int.Cl. G01R 31/66 (2020.01) H04L 67/12 (2022.01) G01R 31/44 (2020.01) G08C 17/02 (2006.01) H05B 39/06 (2006.01) H05B 39/09 (2006.01)**
[25] EN
[54] **DETECTION OF DOWNSTREAM SMART DEVICES**
[54] **DETECTION DE DISPOSITIFS INTELLIGENTS EN AVAL**
[72] GARNER, GREGORY MACK, US
[72] STERN, DAVID, US
[72] WESTERHOFF, DAVID, US
[72] VERHOEVE, DUSTIN, US
[71] ROKU, INC., US
[85] 2024-03-27
[86] 2022-09-21 (PCT/US2022/076780)
[87] (WO2023/056196)
[30] US (17/490,990) 2021-09-30

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[13] A1
[51] **Int.Cl. C11D 1/94 (2006.01) A61K 8/37 (2006.01) A61K 8/42 (2006.01) A61K 8/46 (2006.01) A61Q 5/02 (2006.01) A61Q 19/10 (2006.01) C11D 1/66 (2006.01) C11D 3/00 (2006.01) C11D 11/00 (2006.01) C11D 1/12 (2006.01) C11D 1/90 (2006.01) C11D 1/92 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES**
[72] COTRELL, PHILLIP LORAINE, US
[71] INNOSPEC ACTIVE CHEMICALS LLC, US
[85] 2024-04-02
[86] 2022-10-06 (PCT/GB2022/052535)
[87] (WO2023/057767)
[30] US (63/259,897) 2021-10-06
[30] GB (2115485.1) 2021-10-28

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[13] A1
[51] **Int.Cl. B65D 81/32 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **CARTRIDGE FOR A DISPENSING DEVICE**
[54] **CARTOUCHE POUR UN DISPOSITIF APPLICATEUR**
[72] AYRLE, THOMAS, DE
[72] WILLNER, RALF, DE
[72] ULRICH, NICOLAS, DE
[72] DONNER, TOBIAS, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-04-02
[86] 2022-11-16 (PCT/EP2022/082080)
[87] (WO2023/099211)
[30] EP (21211200.7) 2021-11-30

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/64 (2006.01) A61P 3/00 (2006.01) A61P 3/10 (2006.01) A61P 19/00 (2006.01) A61P 19/02 (2006.01) A61P 19/06 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **NOVEL SUBSTITUTED SULFONYLUREA COMPOUNDS AS INHIBITORS OF INTERLEUKIN-1 ACTIVITY**
[54] **NOUVEAUX COMPOSES DE SULFONYLUREE SUBSTITUES EN TANT QU'INHIBITEURS DE L'ACTIVITE DE L'INTERLEUKINE-1**
[72] ZHANG, HONGJIAN, US
[72] CHEN, PING, CN
[72] JIANG, FEI, CN
[72] SUN, PEIHUA, CN
[71] VIVA STAR BIOSCIENCES (SUZHOU) CO., LTD., CN
[85] 2024-03-27
[86] 2022-09-27 (PCT/US2022/077120)
[87] (WO2023/056264)
[30] CN (PCT/CN2021/121548) 2021-09-29

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[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/12 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANT DISEASE RESISTANCE GENES AGAINST STEM RUST AND METHODS OF USE**
[54] **GENES DE RESISTANCE AUX MALADIES DES PLANTES DIRIGES CONTRE LA ROUILLE NOIRE ET PROCEDES D'UTILISATION**
[72] YU, GUOTAI, SA
[72] WULFF, BRANDE BRUCE HERTEL, SA
[71] THE SAINSBURY LABORATORY, GB
[85] 2024-03-27
[86] 2022-09-28 (PCT/US2022/077129)
[87] (WO2023/056269)
[30] US (63/250,413) 2021-09-30
[30] US (63/357,055) 2022-06-30

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[13] A1
[51] **Int.Cl. C08K 3/04 (2006.01) C08L 7/00 (2006.01) C08L 91/00 (2006.01)**
[25] FR
[54] **RUBBER COMPOSITION COMPRISING A POLAR PLASTICIZER AND A HIGHLY SATURATED ELASTOMER**
[54] **COMPOSITION DE CAOUTCHOUC COMPRENANT UN PLASTIFIANT POLAIRE ET UN ELASTOMERE FORTEMENT SATURE**
[72] FERRAND, THOMAS, FR
[72] ARAUJO DA SILVA, JOSE-CARLOS, FR
[72] PRAS, MAXIME, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
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[51] **Int.Cl. B31B 70/26 (2017.01)**
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[54] **METHOD FOR PRODUCING PAPER SACKS AND PAPER SACKS**
[54] **PROCEDE DE PRODUCTION DE SACS EN PAPIER, ET SACS EN PAPIER**
[72] MELZER, MAX, DE
[71] MONDI AG, AT
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[51] **Int.Cl. C10L 1/16 (2006.01) C10L 1/196 (2006.01) C10L 1/197 (2006.01) C10L 1/224 (2006.01) C10L 7/00 (2006.01) C10L 10/14 (2006.01) C10L 10/16 (2006.01)**
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[54] **IMPROVEMENTS IN FUELS**
[54] **AMELIORATIONS DE CARBURANTS**
[72] LENNON, JASON ALLEN, US
[72] DANIELS, DAVID ARTHUR, US
[71] INNOSPEC FUEL SPECIALTIES LLC, US
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[25] EN
[54] **CONTAINER HANDLES FOR LIFTING A CONTAINER IN AN INVERTED ORIENTATION**
[54] **POIGNEES DE RECIPIENT POUR SOULEVER UN RECIPIENT DANS UN SENS INVERSE**
[72] DAVIS, LUKE, GB
[71] LOADHOG LIMITED, GB
[85] 2024-04-02
[86] 2022-10-17 (PCT/IB2022/059937)
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[30] GB (2115063.6) 2021-10-21
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[51] **Int.Cl. B01D 53/14 (2006.01)**
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[54] **GAS CAPTURE SYSTEM COMPRISING A HEAT PUMP USING A LIQUID SORBENT WITH COMBINED TEMPERATURE AND PRESSURE SWINGS**
[54] **SYSTEME DE CAPTURE DE GAZ COMPRENANT UNE POMPE A CHALEUR UTILISANT UN SORBANT LIQUIDE AVEC DES OSCILLATIONS DE TEMPERATURE ET DE PRESSION COMBINEES**
[72] ZAABOUT, ABDELGHAFOUR, NO
[72] CLOETE, SCHALK, NO
[72] DHOKE, CHAITANYA, NO
[72] KVAMSDAL, HANNE, NO
[71] SINTEF TTO AS, NO
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[86] 2022-10-03 (PCT/EP2022/077443)
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[51] **Int.Cl. A61K 31/46 (2006.01) A61K 47/32 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING SIALORRHEA**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT DE LA SIALORRHEE**
[72] YELLEPEDDI, VENKATA K, US
[72] MURPHY, NANCY ALICE, US
[72] GHANDEHARI, HAMIDREZA S., US
[72] MUNTZ, HARLAN R., US
[72] YATHAVAN, BHUVANESH KUMAR, US
[72] WATT, KEVIN, US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2024-04-02
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[30] US (63/274,350) 2021-11-01

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[25] EN
[54] **METHOD FOR THE PRODUCTION OF SYNTHETIC JET FUEL**
[54] **PROCEDE DE PRODUCTION DE CARBUREACTEUR SYNTHETIQUE**
[72] AGEE, KENNETH L., US
[72] PARKER, JENNIFER, US
[71] EMERGING FUELS TECHNOLOGY, INC., US
[85] 2024-04-02
[86] 2022-10-03 (PCT/US2022/045525)
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[30] US (17/492,324) 2021-10-01

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[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **BISPECIFIC CD16A BINDERS**
[54] **LIANTS DE CD16A BISPECIFIQUES**
[72] KOCH, JOACHIM, DE
[72] PAHL, JENS, DE
[72] ROSS, THORSTEN, DE
[72] SIEGLER, JANA-JULIA, DE
[72] DULAT, HOLGER, DE
[71] AFFIMED GMBH, DE
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[87] (WO2023/078968)
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[51] **Int.Cl. C07K 16/10 (2006.01) C07K 19/00 (2006.01) C12N 15/70 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **RECOMBINANT FUSION PROTEIN DERIVED FROM HR REGION OF S2 PROTEIN OF SARS-COV-2 AND APPLICATION OF RECOMBINANT FUSION PROTEIN**
[54] **PROTEINE DE FUSION RECOMBINANTE DERIVEE DE LA REGION HR DE LA PROTEINE S2 DU SRAS-COV-2 ET APPLICATION DE LA PROTEINE DE FUSION RECOMBINEE**
[72] PANG, WEI, CN
[72] ZHENG, YONGTANG, CN
[72] HE, WENQIANG, CN
[72] HE, XIAOYAN, CN
[72] LUO, RONGHUA, CN
[72] LU, YING, CN
[72] SHEN, FAN, CN
[71] ETERNIVAX BIOMEDICAL, INC, CN
[85] 2024-04-02
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[25] EN
[54] **VIRAL PARTICLES RETARGETED TO SKELETAL MUSCLE**
[54] **PARTICULES VIRALES RECIBLEES SUR LE MUSCLE SQUELETTIQUE**
[72] SABIN, LEAH, US
[72] STEC, MICHAEL, US
[72] MURPHY, ANDREW J., US
[72] KYRATSOUS, CHRISTOS, US
[72] MOLLER-TANK, SVEN, US
[72] SAMAI, POULAMI, US
[71] REGENERON PHARMACEUTICALS, INC., US
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[51] **Int.Cl. A61B 5/22 (2006.01)**
[25] EN
[54] **COMPUTATIONAL APPROACHES TO ASSESSING CENTRAL NERVOUS SYSTEM FUNCTIONALITY USING A DIGITAL TABLET AND STYLUS**
[54] **APPROCHES DE CALCUL POUR EVALUER UNE FONCTIONNALITE DU SYSTEME NERVEUX CENTRAL (SNC) A L'AIDE D'UNE TABLETTE NUMERIQUE ET D'UN STYLET**
[72] LANGTON, JOHN, US
[72] BATES, DAVID, US
[72] TOBYNE, SEAN, US
[72] GOMES-OSMAN, JOYCE, US
[72] PASCUAL-LEONE, ALVARO, US
[72] JANNATI, ALI, US
[72] DHAMNE, SAMEER, US
[71] LINUS HEALTH, INC., US
[85] 2024-04-02
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[51] **Int.Cl. B01J 19/12 (2006.01) B01J 35/00 (2024.01) C01B 3/04 (2006.01) C01B 3/56 (2006.01)**
[25] EN
[54] **AMMONIA-BASED PHOTOCATALYTIC REACTOR SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE REACTEUR PHOTOCATALYTIQUE A BASE D'AMMONIAC**
[72] KHATIWADA, SUMAN, US
[72] SHAH, SHREYA, US
[72] GARDEZI, SYED ALI, US
[72] CHAPMAN, JONATHAN MORRIS, US
[72] ROBATJAZI, HOSSEIN, US
[72] GLOSE, MORGAN, US
[71] SYZYGY PLASMONICS INC., US
[85] 2024-04-02
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[51] **Int.Cl. C12P 7/06 (2006.01) C12P 7/28 (2006.01)**
[25] EN
[54] **FLEXIBLE PRODUCT SEPARATION AND RECOVERY**
[54] **SEPARATION ET RECUPERATION DE PRODUIT SOUPLE**
[72] GAO, ALLAN HAIMING, US
[72] CONRADO, ROBERT JOHN, US
[72] COOMBES, JOSS ANTON, US
[72] BOURDAKOS, NICHOLAS, US
[71] LANZATECH, INC., US
[85] 2024-04-02
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[51] **Int.Cl. B29C 64/135 (2017.01) B29C 64/264 (2017.01) B29C 64/268 (2017.01) B29C 64/273 (2017.01) B29C 64/286 (2017.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR LITHOGRAPHY-BASED GENERATIVE MANUFACTURING OF A THREE-DIMENSIONAL COMPONENT**
[54] **PROCEDE ET DISPOSITIF DE FABRICATION GENERATIVE A BASE DE LITHOGRAPHIE D'UN COMPOSANT TRIDIMENSIONNEL**
[72] GRUBER, PETER, AT
[71] UPNANO GMBH, AT
[85] 2024-04-02
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[30] EP (21020496.2) 2021-10-06

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[51] **Int.Cl. A01N 1/02 (2006.01)**
[25] EN
[54] **ORGAN PRESERVATION SYSTEM WITH AUTOMATIC PRIMING AND AIR REMOVAL**
[54] **SYSTEME DE CONSERVATION DES ORGANES AVEC AMORCAGE AUTOMATIQUE ET EVACUATION DE L'AIR**
[72] JONES, LAWRENCE R., US
[72] MERTE, KENNETH E., US
[72] WRIGHT, DAVID W., US
[71] BRIDGE TO LIFE LTD., US
[85] 2024-04-02
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[51] **Int.Cl. C01B 17/64 (2006.01) C05D 9/02 (2006.01)**
[25] EN
[54] **METHODS FOR THE PRODUCTION OF THIOSULFATES VIA SALT METATHESIS**
[54] **METHODES DE PRODUCTION DE THIOSULFATES PAR METATHESE DE SELS**
[72] FAIRWEATHER, THOMAS DAVID, US
[72] HOJJATIE, MICHAEL, US
[72] FRANCO, JORGE, US
[71] TESSENDERLO GROUP NV, BE
[85] 2024-04-02
[86] 2022-10-03 (PCT/EP2022/077482)
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[30] EP (21200780.1) 2021-10-04

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[13] A1
[51] **Int.Cl. A61K 31/74 (2006.01) A61K 47/56 (2017.01) A61K 47/59 (2017.01) A61K 47/69 (2017.01)**
[25] EN
[54] **MNO NANOMATERIAL BASED INHIBITORS OF INFLAMMATION AND CANCER METASTASIS**
[54] **INHIBITEURS D'INFLAMMATION ET DE METASTASE DE CANCER A BASE DE NANOMATERIAUX MNO**
[72] LEONG, KAM W., US
[72] ZHONG, YILING, US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[71] NEWSOUTH INNOVATIONS PTY LIMITED, AU
[85] 2024-04-02
[86] 2022-09-30 (PCT/US2022/077427)
[87] (WO2023/056470)
[30] US (63/250,311) 2021-09-30
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[51] **Int.Cl. A61K 38/21 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01) C07K 16/00 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **ACTIVATABLE CYTOKINE CONSTRUCTS AND COMBINATION METHODS**
[54] **CONSTRUCTIONS DE CYTOKINE ACTIVABLES ET PROCEDES DE COMBINAISON**
[72] BEREZHNOY, ALEXEY YEVGENYEVICH, US
[72] LAPUYADE, NICOLE G., US
[72] CAI, NA, US
[72] WINTER, MICHAEL B., US
[72] WONG, KENNETH, US
[72] PAIDHUNGAT, MADAN M., US
[72] DANIEL, DYLAN L., US
[72] LE SCOLAN, ERWAN, US
[71] CYTOMX THERAPEUTICS, INC., US
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[30] US (63/253,893) 2021-10-08
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[51] **Int.Cl. B65G 21/20 (2006.01) F16G 9/00 (2006.01) F16H 19/06 (2006.01)**
[25] EN
[54] **ACTUATOR FOR ADJUSTABLE CONVEYOR GUIDERAIL**
[54] **ACTIONNEUR POUR RAIL DE GUIDAGE DE TRANSPORTEUR REGLABLE**
[72] FYE, STEPHEN C., US
[72] COTTON, AARON, US
[72] LAYNE, JAMES L., US
[71] SPAN TECH LLC, US
[85] 2024-04-02
[86] 2022-11-16 (PCT/US2022/050054)
[87] (WO2023/091453)
[30] US (63/279,914) 2021-11-16

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[51] **Int.Cl. A23L 27/30 (2016.01) A23L 29/30 (2016.01) A21D 2/18 (2006.01) A23L 2/60 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **SWEETENER FORMULATIONS**
[54] **FORMULATIONS D'EDULCORANT**
[72] TSIVION, DAVID, IL
[72] BITAN, LIRON, IL
[72] LAHAV, NAAMA, IL
[72] TRACHTENBERG, ALEXANDER, IL
[72] FATTAL, MORAN, IL
[71] INCREDO LTD., IL
[85] 2024-04-02
[86] 2022-10-06 (PCT/IB2022/059568)
[87] (WO2023/057956)
[30] US (63/262,172) 2021-10-06
[30] US (63/253,133) 2021-10-07
[30] IB (PCT/IB2022/050065) 2022-01-05
[30] IB (PCT/IB2022/057310) 2022-08-05

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[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/30 (2016.01) A23L 29/25 (2016.01)**
[25] EN
[54] **SWEETENER CONCENTRATE FORMULATIONS**
[54] **FORMULATIONS DE CONCENTRE D'EDULCORANT**
[72] TSIVION, DAVID, IL
[72] BITAN, LIRON, IL
[72] LAHAV, NAAMA, IL
[72] TRACHTENBERG, ALEXANDER, IL
[72] FATTAL, MORAN, IL
[71] DOUXMATOK LTD., IL
[85] 2024-04-02
[86] 2022-10-06 (PCT/IB2022/059574)
[87] (WO2023/057960)
[30] US (63/262,176) 2021-10-06

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[13] A1
[51] **Int.Cl. H01Q 15/24 (2006.01) H01Q 1/40 (2006.01)**
[25] EN
[54] **LOW-COST HIGHER ORDER FLOQUET STRUCTURE INTEGRATED MEANDER LINE POLARIZER AND RADOME**
[54] **POLARISEUR A LIGNE EN MEANDRE INTEGRE A STRUCTURE DE FLOQUET D'ORDRE SUPERIEUR A FAIBLE COUT ET RADOME**
[72] BUCKLEY, MICHAEL, US
[72] KOMANDURI, VARADA RAJAN, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2024-04-02
[86] 2022-10-11 (PCT/US2022/077898)
[87] (WO2023/064763)
[30] US (63/262,434) 2021-10-12
[30] US (18/045,651) 2022-10-11

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[51] **Int.Cl. A23L 27/30 (2016.01) A23L 29/30 (2016.01) A21D 2/18 (2006.01) A23L 2/60 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **SWEETENER FORMULATIONS**
[54] **FORMULATIONS D'EDULCORANT**
[72] TSIVION, DAVID, IL
[72] BITAN, LIRON, IL
[71] INCREDO LTD., IL
[85] 2024-04-02
[86] 2022-10-07 (PCT/IB2022/059586)
[87] (WO2023/057966)
[30] US (63/253,133) 2021-10-07
[30] IB (PCT/IB2022/050065) 2022-01-05
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[30] IB (PCT/IB2022/057310) 2022-08-05

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[51] **Int.Cl. G01N 33/566 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR THE MANAGEMENT OF ANTIBIOTIC ADMINISTRATION**
[54] **PROCEDE DE GESTION D'ADMINISTRATION D'ANTIBIOTIQUES**
[72] DURAND, NICOLAS, CH
[72] MARKI, IWAN, CH
[72] BENNINGA, ROMY, CH
[72] VAN DEN BOGAARD, PATRICK, CH
[72] VENTURA, FRANCOIS, CH
[71] ABIONIC SA, CH
[85] 2024-04-02
[86] 2021-11-25 (PCT/IB2021/060988)
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[51] **Int.Cl. C08G 18/08 (2006.01) C08G 18/42 (2006.01) C08L 75/06 (2006.01)**
[25] EN
[54] **WATER-BASED PRIMER-SURFACER AND USES THEREOF**
[54] **APPRET SURFACANT A BASE D'EAU ET SES UTILISATIONS**
[72] ZHAO, WEI, US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2024-04-02
[86] 2022-10-06 (PCT/US2022/077659)
[87] (WO2023/064698)
[30] US (63/255,026) 2021-10-13

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[13] A1
[51] **Int.Cl. A61K 31/714 (2006.01) C07F 15/06 (2006.01)**
[25] EN
[54] **A COBALT-CONTAINING ACIDIC AMINO ACID COMPLEX AND ITS USE FOR TREATING CANCER**
[54] **COMPLEXE D'ACIDES AMINES ACIDE CONTENANT DU COBALT ET SON UTILISATION POUR LE TRAITEMENT DU CANCER**
[72] LI, I-CHEN, CN
[72] CHEN, CHI-JUNG, CN
[71] AMELIO BIOTECH CO., LTD., CN
[85] 2024-04-02
[86] 2022-09-30 (PCT/CN2022/123300)
[87] (WO2023/056898)
[30] US (63/252,232) 2021-10-05

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[51] **Int.Cl. C07D 277/46 (2006.01) C07C 233/65 (2006.01) C07D 207/456 (2006.01) C07D 209/08 (2006.01) C07D 213/30 (2006.01) C07D 213/64 (2006.01) C07D 213/75 (2006.01) C07D 231/12 (2006.01) C07D 231/18 (2006.01) C07D 231/40 (2006.01) C07D 235/14 (2006.01) C07D 249/08 (2006.01) C07D 249/14 (2006.01) C07D 263/46 (2006.01) C07D 271/10 (2006.01)**
[25] EN
[54] **HERBICIDES AND USE THEREOF**
[54] **HERBICIDES ET LEUR UTILISATION**
[72] DOTAN, NESLY, IL
[72] BLOCH, ITAI, IL
[72] GAL, MAAYAN, IL
[72] COHEN, ELAD, IL
[72] BEN-SHUSHAN SHELLY, ROTEM, IL
[72] AMRAM, EYTAN, IL
[71] PROJINI AGCHEM LTD, IL
[85] 2024-04-02
[86] 2022-10-10 (PCT/IL2022/051075)
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[30] US (63/254,193) 2021-10-11

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[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/10 (2020.01) A24F 40/42 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01) A24F 40/51 (2020.01) A24F 40/53 (2020.01) A24F 40/60 (2020.01) A24F 40/70 (2020.01)**
[25] EN
[54] **AEROSOL GENERATING DEVICE**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] LEE, JONGSUB, KR
[72] PARK, SANGKYU, KR
[72] CHUNG, WOOSEOK, KR
[72] CHO, BYUNGSUNG, KR
[72] HAN, DAENAM, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-02
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[87] (WO2023/068738)
[30] KR (10-2021-0139801) 2021-10-19
[30] KR (10-2022-0025356) 2022-02-25

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[51] **Int.Cl. A61K 31/728 (2006.01) A61L 27/20 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **INJECTION CONTAINER FILLED WITH AN AQUEOUS INJECTABLE COMPOSITION**
[54] **RECIPIENT D'INJECTION REMPLI D'UNE COMPOSITION INJECTABLE CONTENANT DE L'EAU**
[72] REESE, SVEN, DE
[71] ALBOMED GMBH, DE
[85] 2024-04-02
[86] 2022-10-17 (PCT/EP2022/078815)
[87] (WO2023/066856)
[30] DE (10 2021 126 946.6) 2021-10-18

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[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01) A24F 40/30 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01) A24F 40/51 (2020.01) A24F 40/60 (2020.01) A24F 40/65 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING DEVICE AND OPERATION METHOD THEREOF**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SON PROCEDE DE FONCTIONNEMENT**
[72] CHO, BYUNGSUNG, KR
[72] KIM, MINKYU, KR
[72] PARK, JUEON, KR
[72] LEE, JONGSUB, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-02
[86] 2022-10-19 (PCT/KR2022/015910)
[87] (WO2023/068783)
[30] KR (10-2021-0139780) 2021-10-19
[30] KR (10-2022-0004280) 2022-01-11

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[51] **Int.Cl. G06F 16/13 (2019.01) G06F 21/32 (2013.01) G06F 21/44 (2013.01) G06F 21/62 (2013.01) G06F 21/72 (2013.01) G06F 21/78 (2013.01) G06F 21/86 (2013.01) G06F 16/182 (2019.01) H04L 9/08 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **A DEVICE AND SYSTEM FOR THE SECURE STORAGE OF DATA IN A DISTRIBUTED MANNER**
[54] **DISPOSITIF ET SYSTEME POUR LE STOCKAGE SECURISE DE DONNEES DE MANIERE DISTRIBUEE**
[72] ELBAUM, HECTOR, AU
[71] NEW CLOUD DYNAMICS PTY LTD, AU
[85] 2024-04-02
[86] 2022-10-19 (PCT/AU2022/051258)
[87] (WO2023/064986)
[30] AU (2021254561) 2021-10-19
[30] AU (PCT/AU2021/051222) 2021-10-20

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[13] A1
[51] **Int.Cl. A61K 39/39 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CANCER AND THE PHARMACEUTICAL COMPOSITIONS THEREOF**
[54] **METHODES DE TRAITEMENT DU CANCER ET COMPOSITIONS PHARMACEUTIQUES ASSOCIEES**
[72] XIAO, SA, CN
[72] DING, MURAN, CN
[72] ZHANG, YONG, CN
[72] ZHUO, SHI, CN
[72] MAK, NGA SZE AMANDA, US
[72] KHALILI, JAHAN, US
[72] ZHU, HAI, US
[72] ZHU, YI, CN
[71] SYSTIMMUNE, INC., US
[85] 2024-04-02
[86] 2022-10-03 (PCT/US2022/077490)
[87] (WO2023/056485)
[30] US (63/251,664) 2021-10-03

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[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/20 (2020.01) A24F 40/30 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01) A24F 40/51 (2020.01) A24F 40/57 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING DEVICE**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] CHO, BYUNGSUNG, KR
[72] PARK, SANGKYU, KR
[72] LEE, JONGSUB, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-02
[86] 2022-10-19 (PCT/KR2022/015920)
[87] (WO2023/068789)
[30] KR (10-2021-0139782) 2021-10-19
[30] KR (10-2021-0139784) 2021-10-19
[30] KR (10-2021-0173228) 2021-12-06
[30] KR (10-2021-0173229) 2021-12-06

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[13] A1
[51] **Int.Cl. B65D 77/22 (2006.01) F16K 15/14 (2006.01) F16K 24/04 (2006.01) F16K 31/126 (2006.01)**
[25] EN
[54] **PRESSURE RELIEF VALVE WITH HIGH PRESSURE OPENING AND CLOSING FUNCTIONALITY**
[54] **SOUPAPE DE DECHARGE DOTEE D'UNE FONCTIONNALITE D'OUVERTURE ET DE FERMETURE A HAUTE PRESSION**
[72] HOFFMAN, KARL K., US
[72] LARSEN, ROBERT C. JR., US
[72] RIVIERA, JENINE, US
[71] PLITEK, L.L.C., US
[85] 2024-04-02
[86] 2021-10-04 (PCT/US2021/053398)
[87] (WO2023/059308)

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[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/20 (2020.01) A24F 40/46 (2020.01) A24F 40/51 (2020.01) A24F 40/57 (2020.01) H02M 1/00 (2007.10)**
[25] EN
[54] **AEROSOL-GENERATING DEVICE AND OPERATION METHOD THEREOF**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SON PROCEDE DE FONCTIONNEMENT**
[72] CHO, BYUNGSUNG, KR
[72] PARK, SANGKYU, KR
[72] LEE, JONGSUB, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-02
[86] 2022-10-19 (PCT/KR2022/015928)
[87] (WO2023/068793)
[30] KR (10-2021-0139789) 2021-10-19
[30] KR (10-2021-0139791) 2021-10-19
[30] KR (10-2022-0012614) 2022-01-27
[30] KR (10-2022-0012615) 2022-01-27

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[13] A1
[51] **Int.Cl. A63D 5/04 (2006.01)**
[25] EN
[54] **INTERACTION OF AUDIO, VIDEO, EFFECTS AND ARCHITECTURAL LIGHTING WITH BOWLING SCORING SYSTEM AND METHODS OF USE**
[54] **INTERACTION D'AUDIO, DE VIDEO, D'EFFETS ET D'ECLAIRAGE ARCHITECTURAL AVEC LE SYSTEME DE COMPTAGE DE POINTS DE JEU DE QUILLES, ET PROCEDES D'UTILISATION**
[72] BOVINO, MICHAEL J., US
[72] JULIANO, ANDREW, US
[72] ESPOSITO, GENNARO, US
[71] DFX: SOUND VISION, US
[85] 2024-04-02
[86] 2022-10-06 (PCT/US2022/077685)
[87] (WO2023/060183)
[30] US (17/495,403) 2021-10-06

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[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/20 (2020.01) A24F 40/46 (2020.01) A24F 40/51 (2020.01) A24F 40/53 (2020.01) A24F 40/60 (2020.01) H02M 1/00 (2007.10)**
[25] EN
[54] **AEROSOL-GENERATING DEVICE AND OPERATION METHOD THEREOF**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SON PROCEDE DE FONCTIONNEMENT**
[72] JUNG, HYUNGJIN, KR
[72] PARK, JUEON, KR
[72] KIM, TAEHUN, KR
[72] HAN, JUNGHO, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-02
[86] 2022-10-12 (PCT/KR2022/015435)
[87] (WO2023/068644)
[30] KR (10-2021-0140622) 2021-10-20
[30] KR (10-2022-0022212) 2022-02-21

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[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/20 (2020.01) A24F 40/42 (2020.01) A24F 40/51 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING DEVICE**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] CHO, BYUNGSUNG, KR
[72] LEE, JONGSUB, KR
[72] PARK, SANGKYU, KR
[72] CHUNG, WOOSEOK, KR
[72] HAN, DAENAM, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-02
[86] 2022-10-19 (PCT/KR2022/015937)
[87] (WO2023/068797)
[30] KR (10-2021-0140331) 2021-10-20
[30] KR (10-2022-0042167) 2022-04-05

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[13] A1
[51] **Int.Cl. G01N 33/487 (2006.01) A61P 1/16 (2006.01) G01N 33/92 (2006.01)**
[25] EN
[54] **TREATMENT WITH ILEAL BILE ACID TRANSPORTER (IBAT) INHIBITORS FOR INCREASED EVENT-FREE SURVIVAL (EFS)**
[54] **TRAITEMENT AVEC DES INHIBITEURS DE TRANSPORTEUR D'ACIDE BILIAIRE ILEAL (IBAT) POUR UNE SURVIE SANS EVENEMENT (EFS)ACCRUE**
[72] VIG, PAMELA, US
[72] GARNER, WILL, US
[71] MIRUM PHARMACEUTICALS, INC., US
[85] 2024-04-02
[86] 2022-11-04 (PCT/US2022/048978)
[87] (WO2023/081370)
[30] US (63/276,480) 2021-11-05
[30] US (63/315,762) 2022-03-02

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[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) A61P 21/00 (2006.01) C07H 21/00 (2006.01) C12N 15/11 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR LIVER-SPECIFIC EXPRESSION OF FOLLISTATIN**
[54] **COMPOSITIONS ET PROCEDES POUR L'EXPRESSION SPECIFIQUE AU FOIE DE LA FOLLISTATINE**
[72] SCHOLZ, MATTHEW REIN, US
[72] LEWIS, JOHN DAVID, CA
[71] OISIN BIOTECHNOLOGIES, INC., US
[85] 2024-04-02
[86] 2022-09-30 (PCT/US2022/045468)
[87] (WO2023/056070)
[30] CA (PCT/CA2021/051377) 2021-10-01

[21] **3,233,730**
[13] A1
[51] **Int.Cl. C12N 5/078 (2010.01)**
[25] EN
[54] **DERIVATION OF HEPATOCYTES AND HEMATOPOIETIC PROGENITORS FROM HUMAN EMBRYONIC STEM CELLS**
[54] **DERIVATION D'HEPATOCYTES ET DE PROGENITEURS HEMATOPOIETIQUES A PARTIR DE CELLULES SOUCHES EMBRYONNAIRES HUMAINES**
[72] SENGUPTA, SRIKUMAR, US
[72] THOMSON, JAMES, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2024-04-02
[86] 2022-10-11 (PCT/US2022/046295)
[87] (WO2023/064284)
[30] US (63/254,830) 2021-10-12

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[13] A1
[51] **Int.Cl. A61K 31/4709 (2006.01) C07C 209/52 (2006.01) C07D 215/40 (2006.01) C07C 211/33 (2006.01)**
[25] EN
[54] **SYNTHESIS OF MAVORIXAFOR AND INTERMEDIATES THEREOF**
[54] **SYNTHESE DE MAVORIXAFOR ET DE SES INTERMEDIAIRES**
[72] HANSELMANN, ROGER, US
[72] BRANDS, KAREL MARIE JOSEPH, IT
[71] X4 PHARMACEUTICALS, INC., US
[85] 2024-04-02
[86] 2022-10-07 (PCT/US2022/046094)
[87] (WO2023/059903)
[30] US (63/262,225) 2021-10-07

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[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07K 16/40 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TARGETED CATALYTIC COMPLEMENT-ACTIVATING MOLECULES AND METHODS OF USE THEREOF**
[54] **MOLECULES D'ACTIVATION DE COMPLEMENT CATALYTIQUE CIBLEES ET PROCEDES D'UTILISATION ASSOCIES**
[72] ALI, MOHAMMED YOUSSIF IBRAHIM, US
[72] DEMOPULOS, GREGORY A., US
[72] DOULAMI, CHRISTIANA, US
[72] SCHWAEBLE, HANS-WILHELM, US
[72] YABUKI, MUNEHISA, US
[71] OMEROS CORPORATION, US
[85] 2024-04-02
[86] 2022-10-06 (PCT/US2022/077663)
[87] (WO2023/060167)
[30] US (63/253,211) 2021-10-07

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[13] A1
[51] **Int.Cl. A61K 51/10 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **EGFRVIII-TARGETED COMPOUNDS AND USES THEREOF**
[54] **COMPOSES CIBLANT EGFRVIII ET LEURS UTILISATIONS**
[72] GRINSHTEIN, NATALIE, US
[72] METCALF, JULIE, CA
[72] DUFFY, IAN R., CA
[72] TURNBULL, WILLIAM LESLIE, CA
[72] MARCIL, ANNE, CA
[72] JARAMILLO, MARIA, CA
[72] SULEA, TRAIAN, CA
[72] MORENO, MARIA, CA
[72] WU, CUNLE, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[71] FUSION PHARMACEUTICALS INC., CA
[85] 2024-03-27
[86] 2021-09-29 (PCT/CA2021/051360)
[87] (WO2023/049985)

[21] **3,233,734**
[13] A1
[51] **Int.Cl. C09K 11/07 (2006.01)**
[25] EN
[54] **MOISTURE RESISTANT CHEMILUMINESCENT MARKING SYSTEMS AND COMPOSITIONS**
[54] **SYSTEMES ET COMPOSITIONS DE MARQUAGE CHIMILUMINESCENT RESISTANT A L'HUMIDITE**
[72] JACOB, LINDA ANNE, US
[72] GELO, JOSEPH, US
[71] CYALUME TECHNOLOGIES, INC., US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/077794)
[87] (WO2023/060259)
[30] US (63/253,368) 2021-10-07

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[13] A1
[51] **Int.Cl. H04W 12/03 (2021.01)**
[25] EN
[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] HU, LI, CN
[72] LI, HE, CN
[72] WU, RONG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-27
[86] 2022-09-28 (PCT/CN2022/122165)
[87] (WO2023/051614)
[30] CN (202111155030.6) 2021-09-29

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[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61B 18/00 (2006.01) A61N 1/05 (2006.01)**
[25] EN
[54] **TREATMENT OF HYPERTENSION**
[54] **TRAITEMENT DE L'HYPERTENSION**
[72] FORSELL, PETER, SE
[71] IMPLANTICA PATENT LTD, SE
[85] 2024-03-27
[86] 2022-08-26 (PCT/EP2022/073833)
[87] (WO2023/031056)
[30] EP (PCT/EP2021/073893) 2021-08-30
[30] SE (2250220-7) 2022-02-18

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[13] A1
[51] **Int.Cl. C07D 403/10 (2006.01) C07D 257/04 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING SARTAN ACTIVE COMPOUNDS HAVING A TETRAZOLE RING**
[54] **PROCEDE DE PREPARATION DE COMPOSES ACTIFS DE TYPE SARTAN AYANT UN CYCLE TETRAZOLE**
[72] CRUCIANI, PAUL, FR
[72] GALIBOURG, ISABELLE, FR
[72] GRIMAUD, BERNARD, FR
[71] SANOFI, FR
[85] 2024-03-27
[86] 2022-09-26 (PCT/EP2022/076728)
[87] (WO2023/052309)
[30] EP (21306383.7) 2021-10-01

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[13] A1
[51] **Int.Cl. A61B 17/17 (2006.01) A61F 2/30 (2006.01) A61F 2/38 (2006.01) A61F 2/46 (2006.01) A61B 17/16 (2006.01)**
[25] EN
[54] **PATELLAR IMPLANT**
[54] **IMPLANT ROTULIEN**
[72] JULIN, JOHAN, SE
[72] BRATT, INGRID, SE
[72] RYD, LEIF, SE
[72] FLODSTROM, KATARINA, SE
[71] EPISURF IP-MANAGEMENT AB, SE
[85] 2024-03-27
[86] 2022-09-27 (PCT/EP2022/076802)
[87] (WO2023/046982)
[30] SE (2151180-3) 2021-09-27

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[13] A1
[51] **Int.Cl. A61B 17/15 (2006.01) A61B 17/17 (2006.01) A61F 2/30 (2006.01) A61F 2/42 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **METATARSAL IMPLANT**
[54] **IMPLANT METATARSIEN**
[72] RYD, LEIF, SE
[72] JULIN, JOHAN, SE
[71] EPISURF IP-MANAGEMENT AB, SE
[85] 2024-03-27
[86] 2022-09-27 (PCT/EP2022/076803)
[87] (WO2023/046983)
[30] SE (2151181-1) 2021-09-27

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[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) C12Q 1/6827 (2018.01)**
[25] EN
[54] **MICROSATELLITE MARKERS**
[54] **MARQUEURS MICROSATELLITES**
[72] BURN, JOHN, GB
[72] JACKSON, MICHAEL STEWART, GB
[72] SANTIBANEZ-KOREF, FRANCISCO MAURO, GB
[72] GALLON, RICHARD, GB
[71] CANCER RESEARCH TECHNOLOGY LIMITED, GB
[85] 2024-03-27
[86] 2022-10-03 (PCT/GB2022/052500)
[87] (WO2023/052795)
[30] GB (2114136.1) 2021-10-01

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[13] A1
[51] **Int.Cl. C07F 9/74 (2006.01) A61K 31/00 (2006.01) A61P 1/16 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **HALOGENATED PHENYLARSINE OXIDE COMPOUND AND APPLICATION THEREOF**
[54] **COMPOSE D'OXYDE DE PHENYLARSINE HALOGENE ET SON UTILISATION**
[72] HUANG, FUDE, CN
[72] HONG, FENG, CN
[72] WANG, WENAN, CN
[72] ZHANG, JIANGANG, CN
[72] XIE, YUYU, CN
[72] ZHANG, HAO, CN
[72] JIAO, CHANGPING, CN
[72] CAO, LUXIANG, CN
[72] ZHENG, LINAN, CN
[72] HUANG, CHANGDE, CN
[72] HOU, LIJUAN, CN
[72] MA, LIPING, CN
[72] LU, JINLIAN, CN
[72] FANG, LI, CN
[72] AN, PEIYUN, CN
[71] NUO-BETA PHARMACEUTICAL TECHNOLOGY (SHANGHAI) CO., LTD., CN
[85] 2024-03-28
[86] 2022-09-30 (PCT/CN2022/123419)
[87] (WO2023/051805)
[30] CN (202111162542.5) 2021-09-30

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[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/485 (2020.01)**
[25] EN
[54] **ABSORBENT CONTAINING MOUTHPIECE FOR AEROSOL DELIVERY DEVICE**
[54] **EMBOUT BUCCAL CONTENANT UN ABSORBANT POUR UN DISPOSITIF D'ADMINISTRATION D'AEROSOL**
[72] SHORT, JASON M., US
[72] HUBBARD, SAWYER A., US
[71] RAI STRATEGIC HOLDINGS, INC., US
[85] 2024-03-27
[86] 2022-09-29 (PCT/IB2022/059319)
[87] (WO2023/053072)
[30] US (17/449,690) 2021-10-01

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[13] A1
[51] **Int.Cl. C01F 11/18 (2006.01) B01D 53/62 (2006.01) B01D 53/75 (2006.01) B01D 53/78 (2006.01)**
[25] EN
[54] **METHOD FOR FIXING CARBON DIOXIDE, METHOD FOR PRODUCING CALCIUM CARBONATE, AND METHOD FOR UTILIZING WASTE GYPSUM BOARD**
[54] **PROCEDE DE FIXATION DE DIOXYDE DE CARBONE, PROCEDE DE PRODUCTION DE CARBONATE DE CALCIUM, ET PROCEDE D'UTILISATION DE PANNEAUX DE GYPSE USAGES**
[72] KIKUCHI, SADATO, JP
[72] NAKAMURA, SHOGO, JP
[72] OIZUMI, RISA, JP
[72] KONISHI, MASAYOSHI, JP
[72] HIGA, MITSURU, JP
[72] TANIGUCHI, IKUO, JP
[71] SUMITOMO OSAKA CEMENT CO., LTD., JP
[71] YAMAGUCHI UNIVERSITY, JP
[71] KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, JP
[85] 2024-03-27
[86] 2022-09-26 (PCT/JP2022/035627)
[87] (WO2023/054239)
[30] JP (2021-161854) 2021-09-30

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[13] A1
[51] **Int.Cl. A61K 51/10 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **EGFRVIII-TARGETED COMPOUNDS AND USES THEREOF**
[54] **COMPOSES CIBLANT EGFRVIII ET LEURS UTILISATIONS**
[72] GRINSHTEIN, NATALIE, US
[72] METCALF, JULIE, CA
[72] DUFFY, IAN R., CA
[72] TURNBULL, WILLIAM LESLIE, CA
[72] MARCIL, ANNE, CA
[72] JARAMILLO, MARIA, CA
[72] SULEA, TRAIAN, CA
[72] MORENO, MARIA, CA
[72] WU, CUNLE, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[71] FUSION PHARMACEUTICALS INC., CA
[85] 2024-03-28
[86] 2022-09-29 (PCT/CA2022/051447)
[87] (WO2023/050008)
[30] CA (PCT/CA2021/051360) 2021-09-29

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[13] A1
[51] **Int.Cl. B65D 51/00 (2006.01)**
[25] FR
[54] **CLOSURE CAP FOR A MEDICAL DEVICE, SAID CAP BEING SUITABLE FOR MAGNETIC GRIP**
[54] **CAPUCHON DE FERMETURE POUR UN DISPOSITIF MEDICAL, ADAPTE A UNE PREHENSION MAGNETIQUE**
[72] SIRCOULOMB, PASCAL, FR
[72] REY, GAETAN, FR
[72] CLAVEL, MAXIME, FR
[72] PELLET, STEPHANIE, FR
[72] YONNET, JEAN-PAUL, FR
[72] DE BORTOLI, MARC, FR
[72] MALAQUIN, LINDA, FR
[72] TENAUD, PHILIPPE, FR
[71] A RAYMOND ET CIE, FR
[85] 2024-04-03
[86] 2022-08-24 (PCT/EP2022/073601)
[87] (WO2023/088587)
[30] FR (FR2112141) 2021-11-17

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[13] A1
[51] **Int.Cl. E04B 1/19 (2006.01) A63H 33/10 (2006.01) F16B 7/04 (2006.01) F16B 12/38 (2006.01)**
[25] EN
[54] **HYBRID JOINT ASSEMBLY**
[54] **ENSEMBLE JOINT HYBRIDE**
[72] KONGSHAUG, RUNE, NO
[71] PRODUKTIF NORWAY AS, NO
[85] 2024-03-27
[86] 2022-09-29 (PCT/NO2022/050224)
[87] (WO2023/055243)
[30] NO (20211173) 2021-09-30

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[13] A1
[51] **Int.Cl. B26B 21/40 (2006.01)**
[25] EN
[54] **CONSUMER APPLIANCE**
[54] **APPAREIL DE CONSOMMATION**
[72] HABERMANN, JUDITH, DE
[72] TESSMANN, ALEXANDER, DE
[72] BRUENING, HAUKE, DE
[71] THE GILLETTE COMPANY LLC, US
[85] 2024-03-27
[86] 2022-09-29 (PCT/US2022/077210)
[87] (WO2023/056320)
[30] US (17/492,094) 2021-10-01

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[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61P 9/10 (2006.01) C07H 21/00 (2006.01) A61K 31/7115 (2006.01) A61K 31/7125 (2006.01) A61K 31/713 (2006.01)**
[25] EN
[54] **PREKALLIKREIN-MODULATING COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE MODULATION DE LA PREKALLICREINE ET LEURS PROCEDES D'UTILISATION**
[72] LI, ZHEN, US
[72] ZHU, RUI, US
[72] ZHOU, ZHIQING (JOEL), US
[72] FULTZ, KIMBERLY, US
[72] STUDER, SEAN, US
[71] ADARX PHARMACEUTICALS, INC., US
[85] 2024-03-27
[86] 2022-09-30 (PCT/US2022/077381)
[87] (WO2023/056440)
[30] US (63/252,554) 2021-10-05
[30] US (63/251,571) 2021-10-01
[30] US (63/270,504) 2021-10-21
[30] US (63/283,175) 2021-11-24
[30] US (63/287,969) 2021-12-09

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[13] A1
[51] **Int.Cl. B01J 8/24 (2006.01) C07C 1/20 (2006.01)**
[25] EN
[54] **SHORT CONTACT REACTOR, AND SYSTEM AND PROCESS USING THE SAME IN PREPARATION OF ETHYLENE AND PROPYLENE FROM METHANOL**
[54] **REACTEUR A CONTACT COURT, ET SYSTEME ET PROCEDE D'UTILISATION DE CELUI-CI DANS LA PREPARATION D'ETHYLENE ET DE PROPYLENE A PARTIR DE METHANOL**
[72] LI, XIAOHONG, CN
[72] QI, GUOZHEN, CN
[72] YU, ZHINAN, CN
[72] PENG, FEI, CN
[72] WANG, HONGTAO, CN
[72] ZHENG, YIJUN, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
[85] 2024-03-27
[86] 2022-09-28 (PCT/CN2022/121966)
[87] (WO2023/051566)
[30] CN (202111150391.1) 2021-09-29

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[13] A1
[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/511 (2006.01) A61F 13/512 (2006.01)**
[25] EN
[54] **ABSORBENT ARTICLE**
[54] **ARTICLE ABSORBANT**
[72] BLOMSTROM, PHILIP, SE
[72] PALMQVIST, LISA, SE
[72] KNOS, ANNA, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2024-04-03
[86] 2022-05-02 (PCT/EP2022/061693)
[87] (WO2023/057096)
[30] EP (PCT/EP2021/077900) 2021-10-08
[30] EP (PCT/EP2021/077906) 2021-10-08

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[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] LU, SHAOZHONG, CN
[72] GUO, ZHIHENG, CN
[72] SUN, YUE, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-28
[86] 2022-09-23 (PCT/CN2022/121083)
[87] (WO2023/051417)
[30] CN (202111162151.3) 2021-09-30

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[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) A45D 8/00 (2006.01)**
[25] EN
[54] **GUIDE DEVICE FOR TRANSCRANIAL LIGHT AND TRANSCRANIAL LIGHT REGULATION APPARATUS**
[54] **ENSEMBLE DE REPARTITION DE CHEVEUX, DISPOSITIF DE REPARTITION DE CHEVEUXET APPAREIL DE REGULATION DE LUMIERE TRANSCRANIENNE**
[72] WANG, DAIFA, CN
[71] DANYANG HUICHUANG MEDICAL EQUIPMENT CO., LTD., CN
[85] 2024-04-03
[86] 2021-10-27 (PCT/CN2021/126700)
[87] (WO2023/065381)
[30] CN (202111217554.3) 2021-10-19

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[13] A1
[51] **Int.Cl. B65H 31/30 (2006.01) B65H 31/24 (2006.01) H01M 10/04 (2006.01)**
[25] EN
[54] **CONVEYING FACILITY FOR CONVEYING CELL STACKS FORMED BY SEGMENTS FOR THE ENERGY CELL-PRODUCING INDUSTRY, CELL STACK PRODUCTION SYSTEM, AND METHOD FOR PROVIDING CELL STACKS**
[54] **INSTALLATION DE TRANSPORT POUR LE TRANSPORT DE PILES DE CELLULES FORMEES PAR DES SEGMENTS POUR L'INDUSTRIE DE PRODUCTION DE CELLULES ENERGETIQUES, SYSTEME DE FABRICATION DE PILE DE CELLULES CORRESPONDANT ET PROCEDES DE PREPARATION DE TELLES PILES DE CELLULES**
[72] GOGEL, PATRICK, DE
[72] KREYSERN, JAN, DE
[72] WAGNER, MARCUS, DE
[72] KLEINE WACHTER, MICHAEL, DE
[72] MEINKE, KARSTEN, DE
[72] HOFMANN, NILS, DE
[72] FOLGER, MANFRED, DE
[71] KORBER TECHNOLOGIES GMBH, DE
[85] 2024-03-26
[86] 2022-09-28 (PCT/EP2022/076993)
[87] (WO2023/052430)
[30] DE (10 2021 211 070.3) 2021-10-01

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[13] A1
[51] **Int.Cl. B32B 7/12 (2006.01) B32B 15/08 (2006.01) B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/36 (2006.01) B32B 27/40 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **BIODEGRADABLE LAMINATING FILM**
[54] **FILM DE STRATIFICATION BIODEGRADABLE**
[72] SCHICK, MICHAEL BERNHARD, DE
[72] LOHMANN, JEROME, DE
[72] WITT, TIMO BENJAMIN, DE
[72] BLOSS, FRANK, DE
[71] BASF SE, DE
[85] 2024-03-27
[86] 2022-09-27 (PCT/EP2022/076843)
[87] (WO2023/052360)
[30] EP (21199555.0) 2021-09-28

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[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/52 (2006.01)**
[25] EN
[54] **MUTATED SULFOTRANSFERASES AND USES THEREOF**
[54] **SULFOTRANSFERASES MUTEES ET LEURS UTILISATIONS**
[72] DEPLACE, AYMERIC, FR
[72] MONZA, EMANUELE, ES
[72] PANIGADA, DAVIDE, FR
[72] STEINMETZ, ANKE, FR
[71] SANOFI, FR
[85] 2024-03-27
[86] 2022-09-29 (PCT/EP2022/077092)
[87] (WO2023/052488)
[30] EP (21306357.1) 2021-09-30

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[13] A1
[51] **Int.Cl. A61B 5/11 (2006.01) A63B 24/00 (2006.01) G09B 5/00 (2006.01) G09B 7/00 (2006.01) G09B 19/00 (2006.01)**
[25] EN
[54] **ENHANCED CLASSROOM APPLICATIONS, METHODS, AND SYSTEMS USING SENSOR RELAYS INCLUDING SOLAR AND VIRTUAL EMBODIMENTS**
[54] **SYSTEMES, PROCEDES ET APPLICATIONS AMELIORES DE SALLE DE CLASSE UTILISANT DES RELAIS DE CAPTEURS COMPRENANT DES MODES DE REALISATION SOLAIRES ET VIRTUELS**
[72] CLARKE, JAMES, US
[72] OHANYERENWA, CHIEDO, US
[72] CLARKE, JOHN, US
[72] MILLER, DAVID KYLE, US
[72] KINTER, SAUL, US
[71] FORWARD ENTERTAINMENT & TECHNOLOGY, LLC, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045715)
[87] (WO2023/059670)
[30] US (63/252,604) 2021-10-05

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[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **CANCER THERAPY TARGETING NKG2A**
[54] **THERAPIE ANTICANCEREUSE CIBLANT NKG2A**
[72] ANDERSEN, DANIEL, DK
[72] LAUGEL, BRUNO, FR
[72] MELANDER, EVA MARIA CARLSEN, SE
[72] NANCY-PORTEBOIS, VANESSA, FR
[72] OCANA FERNANDEZ, ALBERTO, ES
[72] PIERRAT, MARIE-JEANNE, FR
[72] UHLENBROCK, FRANZISKA KATHARINA, DK
[71] LES LABORATOIRES SERVIER, FR
[85] 2024-03-27
[86] 2022-10-03 (PCT/EP2022/077455)
[87] (WO2023/057381)
[30] EP (21306386.0) 2021-10-04

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[13] A1
[51] **Int.Cl. G01P 21/02 (2006.01) G01S 19/52 (2010.01) B61L 25/02 (2006.01) G01P 7/00 (2006.01)**
[25] FR
[54] **METHOD FOR ESTIMATING THE SPEED OF A RAIL VEHICLE AND ASSOCIATED INERTIAL MEASUREMENT UNIT**
[54] **PROCEDE D'ESTIMATION DE LA VITESSE D'UN VEHICULE FERROVIAIRE ET CENTRALE INERTIELLE ASSOCIEE**
[72] VEILLARD, DAMIEN, FR
[72] BARRAUD, ALAIN, FR
[71] MEGGITT (SENSOREX), FR
[85] 2024-03-27
[86] 2022-10-25 (PCT/EP2022/079783)
[87] (WO2023/083604)
[30] FR (FR2112026) 2021-11-15

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[13] A1
[51] **Int.Cl. C25C 1/12 (2006.01) C25D 3/38 (2006.01) C25D 21/04 (2006.01)**
[25] EN
[54] **ACID MIST SUPPRESSION IN COPPER ELECTROWINNING**
[54] **SUPPRESSION DE BROUILLARD ACIDE DANS L'EXTRACTION ELECTROLYTIQUE DE CUIVRE**
[72] SANDOVAL, SCOT PHILIP, US
[72] TALLMAN, STANBERG LEE, US
[72] SANDERS, WILLIAM DUANE, US
[72] GEBREHIWOT, EPHREM LEMLEM, US
[72] TYAB, ARON, US
[71] FREEPORT MINERALS CORPORATION, US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/046030)
[87] (WO2023/059872)
[30] US (63/253,349) 2021-10-07
[30] US (63/297,842) 2022-01-10

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[13] A1
[51] **Int.Cl. E21D 9/00 (2006.01) E21D 9/06 (2006.01)**
[25] EN
[54] **METHOD FOR MONITORING OVERBURDEN DURING EXCAVATION IN SOIL AND AN EXCAVATION DEVICE**
[54] **PROCEDE DE SURVEILLANCE DE TERRAIN DE RECOUVREMENT LORS DE L'EXPLOITATION DU SOL PAR TAILLE CHASSANTE, ET DISPOSITIF D'EXPLOITATION PAR TAILLE CHASSANTE**
[72] UFFMANN, HANS-PETER, DE
[71] HERRENKNECHT AG, DE
[85] 2024-03-28
[86] 2022-09-09 (PCT/DE2022/100666)
[87] (WO2023/051865)
[30] DE (10 2021 125 286.5) 2021-09-29

[21] **3,233,775**
[13] A1
[51] **Int.Cl. B65D 65/46 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **A BEVERAGE CAPSULE COMPRISING A BARRIER LINER ATTACHED TO A PULP BODY**
[54] **CAPSULE DE BOISSON COMPRENANT UN REVETEMENT BARRIERE FIXE A UN CORPS DE PATE**
[72] HAUSMANN, MICHAEL KARLHEINZ, CH
[72] BOURG, VIOLETTE CATHERINE MARGUERITE, FR
[72] ZIMMER, JOHANNES, CH
[72] DANNENBERG, CHRISTINA FRIEDERIKE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-03
[86] 2022-10-10 (PCT/EP2022/078007)
[87] (WO2023/061891)
[30] EP (21202831.0) 2021-10-15

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G01J 3/00 (2006.01) G01N 21/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ASSISTING DERMATOLOGICAL DIAGNOSIS**
[54] **PROCEDE ET APPAREIL D'AIDE AU DIAGNOSTIC DERMATOLOGIQUE**
[72] IHNS, JURGEN, US
[71] IHNS, JURGEN, US
[85] 2024-04-03
[86] 2022-09-23 (PCT/US2022/044588)
[87] (WO2023/049384)
[30] US (63/248,468) 2021-09-25

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[13] A1
[51] **Int.Cl. H01M 50/514 (2021.01) H01M 50/107 (2021.01) H01M 50/213 (2021.01) H01M 50/531 (2021.01) H01M 50/55 (2021.01) H01M 50/559 (2021.01)**
[25] EN
[54] **BATTERY MODULE**
[54] **MODULE DE BATTERIE**
[72] PHAN, VU, US
[71] ENNOVI INDUSTRIES, INC., US
[85] 2024-04-03
[86] 2022-10-11 (PCT/US2022/046248)
[87] (WO2023/064254)
[30] US (63/254,187) 2021-10-11

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[13] A1
[51] **Int.Cl. A61F 5/44 (2006.01) A61F 5/443 (2006.01) A61F 5/445 (2006.01) A61F 5/449 (2006.01)**
[25] EN
[54] **STOMA TEMPLATE AND METHOD OF FABRICATING A CUSTOM OSTOMY SKIN BARRIER**
[54] **GABARIT DE STOMIE ET PROCEDE DE FABRICATION D'UNE BARRIERE CUTANEE POUR STOMIE PERSONNALISEE**
[72] WINES, JAMES P., US
[71] HOLLISTER INCORPORATED, US
[85] 2024-04-03
[86] 2022-08-31 (PCT/US2022/042160)
[87] (WO2023/064049)
[30] US (63/254,239) 2021-10-11

[21] **3,233,779**
[13] A1
[51] **Int.Cl. E21B 34/06 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **DUAL STRING GAS INJECTION SYSTEM WITH FLOW CONTROL**
[54] **SYSTEME D'INJECTION DE GAZ A CHAINE DOUBLE AVEC REGULATION DE DEBIT**
[72] BROWN, DONAVAN, US
[72] KOSSA, EDWARD, US
[72] BISSET, STEPHEN, US
[72] SHIRK, TYLER, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2024-04-03
[86] 2022-10-06 (PCT/US2022/045896)
[87] (WO2023/059796)
[30] US (63/253,116) 2021-10-06

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[13] A1
[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/511 (2006.01) A61F 13/512 (2006.01)**
[25] EN
[54] **ABSORBENT ARTICLE**
[54] **ARTICLE ABSORBANT**
[72] BLOMSTROM, PHILIP, SE
[72] PALMQVIST, LISA, SE
[72] KNOS, ANNA, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2024-04-03
[86] 2021-10-08 (PCT/EP2021/077900)
[87] (WO2023/057075)

[21] **3,233,781**
[13] A1
[51] **Int.Cl. G16H 20/70 (2018.01)**
[25] EN
[54] **MENTAL HEALTH INTERVENTION USING A VIRTUAL ENVIRONMENT**
[54] **INTERVENTION SUR LA SANTE MENTALE A L'AIDE D'UN ENVIRONNEMENT VIRTUEL**
[72] ROBINSON, NOAH, US
[72] GOLDS, CALLUM, US
[72] NETTERVILLE, TANNER, US
[71] VANDERBILT UNIVERSITY, US
[71] INNERWORLD, INC., US
[85] 2024-04-03
[86] 2022-10-04 (PCT/US2022/045651)
[87] (WO2023/059620)
[30] US (63/251,844) 2021-10-04

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[13] A1
[51] **Int.Cl. B01D 5/00 (2006.01) C01F 5/00 (2006.01) C22B 5/04 (2006.01) C22B 9/02 (2006.01) C22B 9/04 (2006.01) C22B 19/18 (2006.01) C22B 26/22 (2006.01) F28B 1/00 (2006.01) F28D 5/00 (2006.01) F28D 21/00 (2006.01)**
[25] EN
[54] **A METHOD FOR CONTINUOUS PRODUCTION OF MAGNESIUM METAL BY METALLOTHERMIC REDUCTION OF MAGNESIUM BEARING ORE AND CONDENSATION OF LIQUID MAGNESIUM**
[54] **PROCEDE DE PRODUCTION CONTINUE DE MAGNESIUM METALLIQUE PAR REDUCTION METALLOTHERMIQUE DE MINERAI DE MAGNESIUM ET CONDENSATION DE MAGNESIUM LIQUIDE**
[72] CHUBUKOV, BORIS A., US
[72] SQUANDA, NICHOLAS, US
[72] PALUMBO, AARON W., US
[71] BIG BLUE TECHNOLOGIES, INC., US
[85] 2024-04-03
[86] 2022-11-14 (PCT/US2022/079825)
[87] (WO2023/091896)
[30] US (63/279,845) 2021-11-16

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[13] A1
[51] **Int.Cl. B01J 8/00 (2006.01) B01J 8/02 (2006.01) B01J 8/06 (2006.01)**
[25] FR
[54] **FIXED-BED TUBULAR REACTOR COMPRISING A SEPARATIVE MEMBRANE**
[54] **REACTEUR TUBULAIRE A LIT FIXE COMPORTANT UNE MEMBRANE SEPARATIVE**
[72] DUCROS, FREDERIC, FR
[72] CHAMPON, ISABELLE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-04-03
[86] 2022-10-03 (PCT/FR2022/051863)
[87] (WO2023/057711)
[30] FR (FR2110519) 2021-10-05

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[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01) B82Y 5/00 (2011.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NANOTECHNOLOGY FOR CHEMOTHERAPY DRUG CAPTURE**
[54] **NANOTECHNOLOGIE DE CAPTURE DE MEDICAMENT DE CHIMIOTHERAPIE**
[72] SHEIKHI, AMIR, US
[72] KHADEMHOSSEINI, ALIREZA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] THE PENN STATE RESEARCH FOUNDATION, US
[85] 2024-04-03
[86] 2022-10-04 (PCT/US2022/045628)
[87] (WO2023/059602)
[30] US (63/253,250) 2021-10-07

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[13] A1
[51] **Int.Cl. C07C 67/39 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR AN OXIDATIVE ESTERIFICATION REACTOR**
[54] **PROCEDE POUR UN REACTEUR D'ESTERIFICATION OXYDATIVE**
[72] CHAKRABARTI, REETAM, US
[72] LIMBACH, KIRK W., US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045719)
[87] (WO2023/059673)
[30] US (63/253,558) 2021-10-08

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[13] A1
[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/30 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01N 45/00 (2006.01) A01N 47/24 (2006.01) A01N 59/20 (2006.01) A01P 3/00 (2006.01) A01P 21/00 (2006.01)**
[25] EN
[54] **PHYTOSTEROL-BASED AGRICULTURAL COMPOSITION AND THEIR USE.**
[54] **COMPOSITION AGRICOLE A BASE DE PHYTOSTEROL ET SON UTILISATION.**
[72] MOLIN, AYMERIC, FR
[72] VILLETTE, SOLANGE, FR
[72] BOUSSIRON, CHARLENE, FR
[71] ELICIT PLANT, FR
[85] 2024-04-03
[86] 2022-10-07 (PCT/EP2022/077984)
[87] (WO2023/057640)
[30] EP (21306420.7) 2021-10-08

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[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01)**
[25] EN
[54] **CONFIGURING AN ARRANGEMENT TO GENERATE TREATMENT FLUID FOR RENAL REPLACEMENT THERAPY**
[54] **CONFIGURATION D'UN AGENCEMENT DESTINE A GENERER UN FLUIDE DE TRAITEMENT POUR UN TRAITEMENT SUBSTITUTIF DE L'INSUFFISANCE RENALE**
[72] FORS, JONAS, SE
[72] HERTZ, THOMAS, SE
[71] BAXTER HEALTHCARE SA, CH
[71] BAXTER INTERNATIONAL INC., US
[85] 2024-04-03
[86] 2022-09-15 (PCT/EP2022/075676)
[87] (WO2023/057187)
[30] SE (2151218-1) 2021-10-05

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[13] A1
[51] **Int.Cl. H01M 50/533 (2021.01) H01M 50/107 (2021.01) H01M 50/167 (2021.01) H01M 50/213 (2021.01) H01M 50/446 (2021.01) H01M 50/449 (2021.01) H01M 50/538 (2021.01)**
[25] EN
[54] **ELECTRODE ASSEMBLY, CYLINDRICAL BATTERY CELL, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **ENSEMBLE ELECTRODE, ELEMENT DE BATTERIE CYLINDRIQUE, ET BLOC-BATTERIE ET VEHICULE LE COMPRENANT**
[72] LEE, MYUNG-AN, KR
[72] RYU, DUK-HYUN, KR
[72] WOO, JAE-YOUNG, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-03
[86] 2022-10-17 (PCT/KR2022/015768)
[87] (WO2023/063808)
[30] KR (10-2021-0137939) 2021-10-15
[30] KR (10-2021-0175085) 2021-12-08
[30] KR (10-2022-0089239) 2022-07-19

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[13] A1
[51] **Int.Cl. C07C 67/39 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR LOW BYPRODUCT FORMATION FROM AN OXIDATIVE ESTERIFICATION REACTOR WITH BASE ADDITION**
[54] **PROCEDE UTILISANT UNE ADDITION DE BASE POUR QU'UN REACTEUR D'ESTERIFICATION OXYDATIVE FORME PEU DE SOUS-PRODUITS**
[72] LIMBACH, KIRK W., US
[72] WALKER, JUSTIN, US
[72] CHAKRABARTI, REETAM, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045720)
[87] (WO2023/059674)
[30] US (63/253,559) 2021-10-08

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[13] A1
[51] **Int.Cl. C08F 8/32 (2006.01) C08F 220/18 (2006.01) C09D 15/00 (2006.01) C09D 133/06 (2006.01)**
[25] EN
[54] **USE OF AQUEOUS POLYMER COMPOSITIONS AS STAINS FOR POROUS MATERIALS**
[54] **UTILISATION DE COMPOSITIONS POLYMERES AQUEUSES EN TANT QUE TEINTURES POUR MATERIAUX POREUX**
[72] BALK, ROELOF, DE
[72] LOHMEIJER, BASTIAAN, DE
[72] WAGNER, OLIVER, DE
[72] ROSCHMANN, KONRAD, DE
[71] BASF SE, DE
[85] 2024-04-03
[86] 2022-09-26 (PCT/EP2022/076667)
[87] (WO2023/057249)
[30] EP (21200699.3) 2021-10-04

[21] **3,233,792**
[13] A1
[51] **Int.Cl. C07C 45/50 (2006.01) C07C 45/75 (2006.01) C07C 47/02 (2006.01) C07C 47/22 (2006.01) C07C 67/39 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR METHYL METHACRYLATE PRODUCTION**
[54] **PROCEDE DE PRODUCTION DE METHACRYLATE DE METHYLE**
[72] LIMBACH, KIRK W., US
[72] CHAKRABARTI, REETAM, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045721)
[87] (WO2023/059675)
[30] US (63/253,560) 2021-10-08

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[13] A1
[51] **Int.Cl. B01J 21/06 (2006.01) B01J 23/52 (2006.01) B01J 35/00 (2024.01) C07C 67/39 (2006.01)**
[25] EN
[54] **PROCESS AND CATALYST FOR OXIDATIVE ESTERIFICATION WITH LONG-LIFE CATALYST**
[54] **PROCEDE ET CATALYSEUR POUR L'ESTERIFICATION OXYDATIVE AVEC UN CATALYSEUR A LONGUE DUREE DE VIE**
[72] LIMBACH, KIRK W., US
[72] FRICK, CHRISTOPHER D., US
[72] LEE, WEN -SHENG, US
[72] SUSSMAN, VICTOR J., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045723)
[87] (WO2023/059677)
[30] US (63/253,556) 2021-10-08

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[13] A1
[51] **Int.Cl. C07C 45/75 (2006.01) C07C 47/22 (2006.01) C07C 67/39 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR METHYL METHACRYLATE PRODUCTION**
[54] **PROCEDE DE PRODUCTION DE METHACRYLATE DE METHYLE**
[72] LIMBACH, KIRK W., US
[72] CHAKRABARTI, REETAM, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045724)
[87] (WO2023/059678)
[30] US (63/253,561) 2021-10-08

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[13] A1
[51] **Int.Cl. A01N 43/90 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **IMIDAZO[1,2-A]PYRIDINE DERIVATIVES**
[54] **DERIVES D'IMIDAZO[1,2-A]PYRIDINE**
[72] JEANMART, STEPHANE ANDRE MARIE, CH
[72] BLUM, MATHIAS, CH
[72] LUMBROSO, ALEXANDRE FRANCO JEAN CAMILLE, CH
[72] GERMAIN, NICOLAS, CH
[72] POULIOT, MARTIN, CH
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-04-03
[86] 2022-10-06 (PCT/EP2022/077777)
[87] (WO2023/061838)
[30] EP (21202562.1) 2021-10-14
[30] EP (22183563.0) 2022-07-07

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[13] A1
[51] **Int.Cl. B60K 17/02 (2006.01) F16H 57/031 (2012.01) F16H 57/037 (2012.01) B60K 17/04 (2006.01) F16H 3/089 (2006.01) F16H 57/02 (2012.01)**
[25] EN
[54] **ELECTRIC DRIVE SYSTEM FOR A MOTOR VEHICLE, IN PARTICULAR FOR A CAR**
[54] **SYSTEME D'ENTRAINEMENT ELECTRIQUE POUR UN VEHICULE AUTOMOBILE, EN PARTICULIER POUR UNE VOITURE AUTOMOBILE**
[72] STROELIN, MARC, DE
[72] LUCKMANN, JENS, DE
[72] SCHNEIDER, MARTIN, DE
[71] DAIMLER TRUCK AG, DE
[85] 2024-04-03
[86] 2022-11-16 (PCT/EP2022/082140)
[87] (WO2023/088970)
[30] DE (10 2021 005 711.2) 2021-11-18

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[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **AN ONCOLYTIC VIRUS VECTOR CODING FOR INTERLEUKIN-7 (IL-7) POLYPEPTIDE**
[54] **VECTEUR VIRAL ONCOLYTIQUE CODANT POUR UN POLYPEPTIDE D'INTERLEUKINE-7 (IL-7)**
[72] KUDLING, TATIANA, FI
[72] HEMMINKI, AKSELI, FI
[72] CLUBB, JAMES, FI
[72] QUIXABEIRA, DAFNE, FI
[72] HAVUNEN, RIIKKA, FI
[71] TILT BIOTHERAPEUTICS OY, FI
[85] 2024-04-03
[86] 2022-10-04 (PCT/FI2022/050662)
[87] (WO2023/057687)
[30] FI (20216026) 2021-10-04

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[13] A1
[51] **Int.Cl. C25B 9/00 (2021.01) H01M 8/2432 (2016.01) H01M 8/2475 (2016.01) H01M 8/248 (2016.01) H01M 8/249 (2016.01) H01M 8/12 (2016.01)**
[25] FR
[54] **SYSTEM FOR CONDITIONING A PLURALITY OF STACKS OF HIGH-TEMPERATURE SOEC/SOFC SOLID OXIDE CELLS**
[54] **SYSTEME DE CONDITIONNEMENT D'UNE PLURALITE D'EMPILEMENTS DE CELLULES A OXYDES SOLIDES DE TYPE SOEC/SOFC A HAUTE TEMPERATURE SUPERPOSES**
[72] MOUGIN, JULIE, FR
[72] DI IORIO, STEPHANE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-04-03
[86] 2022-10-05 (PCT/FR2022/051881)
[87] (WO2023/057720)
[30] FR (FR2110517) 2021-10-05

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[13] A1
[51] **Int.Cl. C07C 67/39 (2006.01) C07C 1/24 (2006.01) C07C 11/04 (2006.01) C07C 45/50 (2006.01) C07C 45/75 (2006.01) C07C 47/22 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR METHYL METHACRYLATE PRODUCTION FROM ETHANOL**
[54] **PROCEDE DE PRODUCTION DE METHACRYLATE DE METHYLE A PARTIR D'ETHANOL**
[72] LIMBACH, KIRK W., US
[72] CHAKRABARTI, REETAM, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045725)
[87] (WO2023/059679)
[30] US (63/253,563) 2021-10-08

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[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/78 (2006.01) G01N 31/22 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR DETECTION OF CHEMICALS USING OPTICAL SENSORS**
[54] **APPAREIL ET PROCEDES DE DETECTION DE PRODUITS CHIMIQUES A L'AIDE DE CAPTEURS OPTIQUES**
[72] GILLANDERS, ROSS N, GB
[72] GLACKIN, JAMES ME, GB
[72] TURNBULL, GRAHAM, GB
[72] SAMUEL, IFOR DAVID WILLIAM, GB
[71] UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS, GB
[85] 2024-04-03
[86] 2022-10-11 (PCT/GB2022/052575)
[87] (WO2023/062357)
[30] GB (2114557.8) 2021-10-12

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[13] A1
[51] **Int.Cl. C07C 67/39 (2006.01) C07C 45/75 (2006.01) C07C 47/22 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR ALKYL METHACRYLATE PRODUCTION**
[54] **PROCEDE DE PRODUCTION DE METHACRYLATE D'ALKYLE**
[72] CHAKRABARTI, REETAM, US
[72] LIMBACH, KIRK W., US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045727)
[87] (WO2023/059680)
[30] US (63/253,564) 2021-10-08

[21] **3,233,802**
[13] A1
[51] **Int.Cl. H04L 51/212 (2022.01) H04W 4/12 (2009.01) H04W 12/126 (2021.01) H04W 12/128 (2021.01) H04M 3/22 (2006.01) H04M 3/42 (2006.01) H04M 3/436 (2006.01) H04M 7/00 (2006.01) H04L 9/40 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTING SMS PARAMETERS MANIPULATION**
[54] **PROCEDE ET SYSTEME DESTINES A DETECTER LA MANIPULATION DE PARAMETRES SMS**
[72] OKHRIMENKO, SERGEI, RU
[71] AB HANDSHAKE CORPORATION, US
[85] 2024-04-03
[86] 2022-10-13 (PCT/US2022/046573)
[87] (WO2023/069302)
[30] US (17/504,025) 2021-10-18

[21] **3,233,803**
[13] A1
[51] **Int.Cl. C07C 67/39 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR LOW BYPRODUCT FORMATION OF METHYL METHACRYLATE FROM AN OXIDATIVE ESTERIFICATION REACTOR**
[54] **PROCEDE DE FORMATION A FAIBLE SOUS-PRODUIT DE METHACRYLATE DE METHYLE A PARTIR D'UN REACTEUR D'ESTERIFICATION OXYDATIVE**
[72] LIMBACH, KIRK W., US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045729)
[87] (WO2023/059682)
[30] US (63/253,566) 2021-10-08

[21] **3,233,804**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/20 (2018.01) A61B 7/00 (2006.01) A61B 7/04 (2006.01)**
[25] EN
[54] **COMPUTER-ASSISTED SYSTEM AND METHOD OF HEART MURMUR CLASSIFICATION**
[54] **SYSTEME ASSISTE PAR ORDINATEUR ET PROCEDE DE CLASSIFICATION DE SOUFFLES CARDIAQUES**
[72] CHEN, ROBERT, CA
[72] DHILOON, SANTOKH, CA
[72] IQBAL, MOHAMMED SHAMEER, CA
[71] KARDIO DIAGNOSTIX INC., CA
[85] 2024-04-03
[86] 2023-09-01 (PCT/CA2023/051161)
[87] (WO2024/044858)
[30] CA (3171784) 2022-09-01

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[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **SEQUENCING OF VIRAL DNA FOR PREDICTING DISEASE RELAPSE**
[54] **SEQUENCAGE D'ADN VIRAL POUR PREDIRE LA RECHUTE D'UNE MALADIE**
[72] LO, YUK-MING DENNIS, CN
[72] CHAN, KWAN CHEE, CN
[72] LAM, WAI KEI, CN
[72] CHAN, CHIU TUNG, CN
[71] THE CHINESE UNIVERSITY OF HONG KONG, CN
[71] GRAIL, INC., US
[85] 2024-04-03
[86] 2022-09-29 (PCT/CN2022/122509)
[87] (WO2023/056884)
[30] US (63/251,985) 2021-10-04

[21] **3,233,806**
[13] A1
[51] **Int.Cl. B61L 23/04 (2006.01) B61L 25/02 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING A RELATIVE POSITION INDICATION IN A TRACK**
[54] **PROCEDE DE DETERMINATION D'UNE INDICATION DE POSITION RELATIVE DANS UNE PISTE**
[72] STUNTNER, BENJAMIN, AT
[72] HARTL, DANIEL, AT
[71] TRACK MACHINES CONNECTED GESELLSCHAFT M.B.H., AT
[85] 2024-04-03
[86] 2022-11-22 (PCT/EP2022/082875)
[87] (WO2023/099292)
[30] AT (A 50963/2021) 2021-12-01

[21] **3,233,808**
[13] A1
[51] **Int.Cl. C03B 5/173 (2006.01)**
[25] EN
[54] **INCLUDING SMALL AESTHETIC BUBBLES IN GLASS ARTICLES**
[54] **INCLUSION DE PETITES BULLES ESTHETIQUES DANS DES ARTICLES EN VERRE**
[72] SWILER, DAN, US
[72] GODSIL, AMANDA, US
[72] COOPER, SCOTT, US
[72] CASTILLO, JOSE GARAY, US
[72] GONZALES, ENRIQUE, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045779)
[87] (WO2023/059718)
[30] US (63/254,023) 2021-10-08

[21] **3,233,809**
[13] A1
[51] **Int.Cl. A61K 35/14 (2015.01) C12N 5/078 (2010.01) C12N 15/113 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01) C12N 15/10 (2006.01) C12N 15/12 (2006.01) C12N 15/54 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **MODIFIED IMMUNE CELLS AND METHODS OF USE THEREOF**
[54] **CELLULES IMMUNITAIRES MODIFIEES ET LEURS METHODES D'UTILISATION**
[72] DINIZ DE CARVALHO, DANIEL, CA
[72] LOO YAU, HELEN, CA
[72] ETTAYEBI, ILIAS, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2024-04-03
[86] 2022-10-05 (PCT/IB2022/059520)
[87] (WO2023/057931)
[30] US (63/253,001) 2021-10-06

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[13] A1
[51] **Int.Cl. A41D 1/00 (2018.01) A41D 1/04 (2006.01) G06F 1/16 (2006.01) G08B 21/02 (2006.01) G08B 25/01 (2006.01)**
[25] EN
[54] **EMERGENCY SITUATION DETECTION AND RESPONSE BASED ON PROTECTIVE EQUIPMENT SENSOR DATA**
[54] **DETECTION ET REPONSE DE SITUATION D'URGENCE BASEES SUR DES DONNEES DE CAPTEUR D'EQUIPEMENT DE PROTECTION**
[72] ADEEL, MUHAMMAD, US
[72] GUZIK, THOMAS, US
[71] GETAC CORPORATION, TW
[71] WHP WORKFLOW SOLUTIONS, INC., US
[85] 2024-04-03
[86] 2022-10-04 (PCT/US2022/045678)
[87] (WO2023/059641)
[30] US (17/494,692) 2021-10-05

[21] **3,233,811**
[13] A1
[51] **Int.Cl. E21B 33/127 (2006.01) C09K 8/52 (2006.01) E21B 33/12 (2006.01) E21B 43/27 (2006.01)**
[25] EN
[54] **FLUID SYSTEMS FOR EXPANDING SHAPE MEMORY POLYMERS AND REMOVING WATER-BASED FILTER CAKES**
[54] **SYSTEMES DE FLUIDE POUR DILATER DES POLYMERES A MEMOIRE DE FORME ET ELIMINER LES GATEAUX DE BOUES A BASE D'EAU**
[72] CASTILLO, DORIANNE A., US
[72] MESA, SEBASTIAN, US
[72] ARIAS, DIEGO, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/046017)
[87] (WO2023/059866)
[30] US (63/253,681) 2021-10-08

[21] **3,233,814**
[13] A1
[51] **Int.Cl. H01M 10/655 (2014.01) H01M 10/613 (2014.01) H01M 10/625 (2014.01)**
[25] EN
[54] **BATTERY MODULE, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **MODULE DE BATTERIE ET BLOC-BATTERIE ET VEHICULE LE COMPRENANT**
[72] KIM, SEUNG-JOON, KR
[72] CHI, HO-JUNE, KR
[72] KIM, KYUNG-WOO, KR
[72] SHIN, EUN-GYU, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-03
[86] 2022-12-21 (PCT/KR2022/021003)
[87] (WO2023/121318)
[30] KR (10-2021-0187838) 2021-12-24

[21] **3,233,815**
[13] A1
[51] **Int.Cl. A01K 11/00 (2006.01) A01K 29/00 (2006.01) G06F 13/00 (2006.01) G06Q 10/00 (2023.01) G06Q 50/00 (2024.01)**
[25] EN
[54] **A METHOD FOR REAL TIME IDENTITY DETERMINATION OF, AND MATCHING RELATED, ENTITIES AND A SYSTEM FOR MATCHING RELATED ENTITIES**
[54] **PROCEDE DE DETERMINATION, ET D'APPARIEMENT ASSOCIE, D'IDENTITES EN TEMPS REEL ET SYSTEME D'APPARIEMENT D'ENTITES ASSOCIEES**
[72] SANDNES, JAN IVAR, NO
[71] REALTIMEID AS, NO
[85] 2024-04-03
[86] 2022-10-03 (PCT/NO2022/050225)
[87] (WO2023/059202)
[30] NO (20211199) 2021-10-06

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[13] A1
[51] **Int.Cl. H01M 50/593 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **BATTERIE CYLINDRIQUE, ET BLOC-BATTERIE ET VEHICULE COMPRENANT CELLE-CI**
[72] LIM, JAE-WON, KR
[72] JO, MIN-KI, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-03
[86] 2022-10-21 (PCT/KR2022/016197)
[87] (WO2023/068887)
[30] KR (10-2021-0142185) 2021-10-22

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[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 15/023 (2021.01) C25B 15/027 (2021.01) C25B 15/031 (2021.01)**
[25] EN
[54] **A SYSTEM FOR AN ELECTROCHEMICAL PROCESS AND A METHOD FOR PREVENTING DEGRADATION OF ELECTRODES**
[54] **SYSTEME POUR PROCESSUS ELECTROCHIMIQUE ET PROCEDE POUR EMPECHER LA DEGRADATION D'ELECTRODES**
[72] KOPONEN, JOONAS, FI
[72] KRIMER, ANTON, FI
[72] LIUKKONEN, OLLI, FI
[71] NEOVOLT OY, FI
[85] 2024-04-03
[86] 2022-09-22 (PCT/FI2022/050636)
[87] (WO2023/057683)
[30] FI (20216033) 2021-10-06

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[13] A1
[51] **Int.Cl. G06T 9/00 (2006.01) H04N 19/13 (2014.01) H04N 19/184 (2014.01) H04N 19/593 (2014.01) H04N 19/91 (2014.01) G06T 9/40 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR POINT CLOUD COMPRESSION USING HYBRID DEEP ENTROPY CODING**
[54] **PROCEDE ET APPAREIL DE COMPRESSION DE NUAGE DE POINTS A L'AIDE D'UN CODAGE D'ENTROPIE PROFONDE HYBRIDE**
[72] LODHI, MUHAMMAD ASAD, US
[72] PANG, JIAHAO, US
[72] TIAN, DONG, US
[71] INTERDIGITAL VC HOLDINGS, INC., US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045790)
[87] (WO2023/059727)
[30] US (63/252,482) 2021-10-05

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[13] A1
[51] **Int.Cl. C08L 95/00 (2006.01) C04B 22/06 (2006.01) C04B 26/26 (2006.01) C08J 3/20 (2006.01) C08K 3/22 (2006.01)**
[25] FR
[54] **CO2-TRAPPING BITUMINOUS COMPOSITIONS MODIFIED BY INCORPORATION OF ALKALI METAL HYDROXIDE, ASSOCIATED METHODS AND USES**
[54] **COMPOSITIONS BITUMINEUSES MODIFIEES PAR INCORPORATION D'HYDROXYDE ALCALIN ET PIEGEANT DU CO2, PROCEDES ET UTILISATIONS ASSOCIES**
[72] ZHU, JEANNE, FR
[71] TOTALENERGIES ONETECH, FR
[85] 2024-04-03
[86] 2022-10-06 (PCT/FR2022/051884)
[87] (WO2023/057723)
[30] FR (FR2110676) 2021-10-08

[21] **3,233,821**
[13] A1
[51] **Int.Cl. F16B 15/06 (2006.01) E04B 1/76 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR FASTENING A COMPONENT TO A SUBSTRATE**
[54] **PROCEDE ET DISPOSITIF DE FIXATION D'UN COMPOSANT SUR UNE STRUCTURE DE SUPPORT**
[72] GUELTEKIN, FURKAN, CH
[72] BARRAFON GOMEZ, MARC, CH
[72] DOMANI, GUENTER, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-04-03
[86] 2022-11-17 (PCT/EP2022/082254)
[87] (WO2023/099231)
[30] EP (21211270.0) 2021-11-30

[21] **3,233,823**
[13] A1
[51] **Int.Cl. G01F 11/00 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **INTEGRATED DOSE COUNTER**
[54] **COMPTEUR DE DOSES INTEGRE**
[72] COSTELLA, STEPHEN, CA
[72] MEYER, ADAM, CA
[72] ALIZOTI, NERITAN, CA
[72] DEMARAIS, JAKE, CA
[72] PATEL, ATIN, CA
[72] BASIL, JOVIN, CA
[71] TRUDELL MEDICAL INTERNATIONAL, CA
[85] 2024-04-03
[86] 2022-09-29 (PCT/IB2022/059308)
[87] (WO2023/057864)
[30] US (63/251,991) 2021-10-04
[30] US (17/954,066) 2022-09-27

[21] **3,233,824**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 38/00 (2006.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **IONIC LIQUIDS FOR DRUG DELIVERY**
[54] **LIQUIDES IONIQUES POUR L'ADMINISTRATION DE MEDICAMENTS**
[72] MITRAGOTRI, SAMIR, US
[72] KIM, JAYOUNG, US
[72] CURRERI, ALEXANDER M., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/045977)
[87] (WO2023/059846)
[30] US (63/253,623) 2021-10-08

[21] **3,233,825**
[13] A1
[51] **Int.Cl. A61K 35/747 (2015.01) A61P 25/02 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **CONSUMPTION OF GLUTAMATE AND FORMATION OF GABA BY LACTIPLANTIBACILLUS PLANTARUM**
[54] **CONSOMMATION DE GLUTAMATE ET FORMATION DE GABA PAR LACTIPLANTIBACILLUS PLANTARUM**
[72] OUWEHAND, ARTHUR, FI
[72] JENSEN, HENRIK MAX, DK
[72] MOROVIC, WESLEY WILLIAM, US
[72] PATTERSON, ELAINE, FI
[71] INTERNATIONAL N&H DENMARK APS, DK
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[51] **Int.Cl. A61F 13/511 (2006.01) A61F 13/512 (2006.01)**
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[54] **ABSORBENT ARTICLE**
[54] **ARTICLE ABSORBANT**
[72] BLOMSTROM, PHILIP, SE
[72] PALMQVIST, LISA, SE
[72] KNOS, ANNA, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2024-04-03
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[51] **Int.Cl. A63H 1/02 (2006.01) A63H 1/20 (2006.01)**
[25] EN
[54] **TOY SPINNING TOPS AND LAUNCHING DEVICES**
[54] **TOUPIES JOUETS ET DISPOSITIFS DE LANCEMENT**
[72] HACSI, JAMES SCOTT, US
[72] BENSUSSAN, BERNARD, US
[72] BUTLER, JEFFREY, US
[72] DEAR, DAVID, US
[71] MELISSA & DOUG, LLC, US
[85] 2024-04-03
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[51] **Int.Cl. C25B 9/70 (2021.01) C25B 9/19 (2021.01) C25B 9/77 (2021.01)**
[25] EN
[54] **FRAME FOR PEM ELECTROLYTIC CELLS AND PEM ELECTROLYTIC CELL STACKS FOR THE PRODUCTION OF HIGH-PRESSURE HYDROGEN BY MEANS OF DIFFERENTIAL PRESSURE ELECTROLYSIS**
[54] **CADRE POUR CELLULES ELECTROLYTIQUES A PEM ET EMPILEMENT DE CELLULES ELECTROLYTIQUES A PEM POUR LA PRODUCTION D'HYDROGENE HAUTE PRESSION PAR ELECTROLYSE A PRESSION DIFFERENTIELLE**
[72] LENTZ, KARL-HEINZ, DE
[72] BORGARDT, ELENA, DE
[71] IGAS ENERGY GMBH, DE
[85] 2024-04-03
[86] 2022-10-12 (PCT/EP2022/078404)
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[51] **Int.Cl. G01K 1/26 (2006.01) G01L 9/00 (2006.01) G01L 19/00 (2006.01)**
[25] EN
[54] **PRESSURE MEASURING CELL HAVING EVALUATION ELECTRONICS AND 4-20 MA INTERFACE**
[54] **CELLULE DE MESURE DE PRESSION AVEC ELECTRONIQUE D'EVALUATION ET INTERFACE 4-20 MA**
[72] MELLERT, MARTIN, DE
[72] WELLER, BERNHARD, DE
[72] HUBER, JOCHEN, DE
[71] VEGA GRIESHABER KG., DE
[85] 2024-04-03
[86] 2022-10-17 (PCT/EP2022/078839)
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[51] **Int.Cl. C25B 9/70 (2021.01) C25B 9/17 (2021.01) C25B 9/60 (2021.01) C25B 9/77 (2021.01)**
[25] EN
[54] **FRAMES FOR ELECTROCHEMICAL CELLS AND STACK TYPE DEVICES**
[54] **CADRE POUR CELLULES ELECTROCHIMIQUES ET DISPOSITIFS DE TYPE A EMPILEMENT**
[72] LENTZ, KARL-HEINZ, DE
[72] BORGARDT, ELENA, DE
[71] IGAS ENERGY GMBH, DE
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[86] 2022-10-12 (PCT/EP2022/078416)
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[51] **Int.Cl. B01F 23/232 (2022.01) B01F 23/20 (2022.01) B01F 23/237 (2022.01) B01F 25/452 (2022.01)**
[25] EN
[54] **A METHOD AND AN APPARATUS FOR MAKING A TREATMENT SOLUTION AND FOR PROVIDING SAID TREATMENT SOLUTION TO A BIOLOGICAL SYSTEM**
[54] **PROCEDE ET APPAREIL DE FABRICATION D'UNE SOLUTION DE TRAITEMENT ET DE FOURNITURE DE LADITE SOLUTION DE TRAITEMENT A UN SYSTEME BIOLOGIQUE**
[72] ALBERTELLI, ROBERTO, IT
[71] SWISS.318 SAGL, CH
[85] 2024-04-03
[86] 2022-10-07 (PCT/IB2022/059641)
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[51] **Int.Cl. A42B 3/12 (2006.01)**
[25] EN
[54] **IMPACT PROTECTION SYSTEMS**
[54] **SYSTEMES DE PROTECTION CONTRE LES IMPACTS**
[72] YOUNG, MICHAEL D., US
[71] 100% SPEEDLAB, LLC, US
[85] 2024-04-03
[86] 2022-10-06 (PCT/US2022/077716)
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[51] **Int.Cl. G01T 1/02 (2006.01)**
[25] EN
[54] **DYNAMIC DOSE ANALYSIS FOR DOSIMETER**
[54] **ANALYSE DE DOSE DYNAMIQUE POUR DOSIMETRE**
[72] ALAGARSAMY, SIVA, US
[71] THERMO SCIENTIFIC PORTABLE ANALYTICAL INSTRUMENTS INC., US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/077565)
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[51] **Int.Cl. C07F 9/06 (2006.01) C07H 15/18 (2006.01) C07H 21/00 (2006.01)**
[25] EN
[54] **POLYHYDROXYLATED CYCLOPENTANE DERIVATIVES AND METHODS OF USE**
[54] **DERIVES DE CYCLOPENTANE POLYHYDROXYLES ET PROCEDES D'UTILISATION**
[72] WANG, WEIMIN, US
[72] CAI, XIAOCHUAN, US
[71] SANEGENE BIO USA INC., US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/045748)
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[51] **Int.Cl. E21B 7/20 (2006.01) E21B 7/28 (2006.01) E21B 10/26 (2006.01)**
[25] EN
[54] **EXPANDING DRILL DEVICE**
[54] **DISPOSITIF DE FORAGE A EXPANSION**
[72] ZUR LINDE, LUTZ, DE
[72] ENGEL, TOBIAS, DE
[71] HERRENKNECHT AG, DE
[85] 2024-04-03
[86] 2022-10-03 (PCT/EP2022/077488)
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[30] DE (10 2021 125 909.6) 2021-10-06

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[51] **Int.Cl. G01N 21/952 (2006.01) H01M 50/107 (2021.01)**
[25] EN
[54] **DEVICE FOR INSPECTING LATERAL SURFACE OF CYLINDRICAL BATTERY**
[54] **DISPOSITIF D'INSPECTION DE SURFACE LATERALE D'UNE PILE CYLINDRIQUE**
[72] KIM, TAE YOUNG, KR
[72] HONG, SEUNG GYUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-03
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[51] **Int.Cl. H04W 4/06 (2009.01)**
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[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] LI, MENG, CN
[72] GE, CUILI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-04-03
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[13] A1
[51] **Int.Cl. C08L 67/04 (2006.01) C08L 67/02 (2006.01) C08L 97/02 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **BIODEGRADABLE POLYMER BASED BIOCOMPOSITES**
[54] **BIOCOMPOSITES A BASE DE POLYMERE BIODEGRADABLES**
[72] MEKONNEN, TIZAZU H., CA
[72] GUPTA, ARVIND, CA
[71] CTK RESEARCH AND DEVELOPMENT CANADA LTD., CA
[85] 2024-04-03
[86] 2022-10-19 (PCT/CA2022/051543)
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[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01) H04L 67/50 (2022.01)**
[25] EN
[54] **SECURITY INTELLIGENCE PLATFORM ARCHITECTURE AND FUNCTIONALITY**
[54] **ARCHITECTURE ET FONCTIONNALITE DE PLATEFORME DE RENSEIGNEMENT DE SECURITE**
[72] SCOTT, SEAN, US
[72] HUBBACH, JEFF, US
[71] LOGRHYTHM, INC., US
[85] 2024-04-03
[86] 2022-09-02 (PCT/US2022/075936)
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[30] US (63/262,596) 2021-10-15
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[51] **Int.Cl. G01R 21/06 (2006.01)**
[25] EN
[54] **CONTROLLING PULSED OPERATION OF A POWER SUPPLY DURING A POWER OUTAGE**
[54] **COMMANDE DE FONCTIONNEMENT PULSE D'ALIMENTATION ELECTRIQUE PENDANT UNE PANNE DE COURANT**
[72] BUSEKRUS, DOUG, US
[71] LANDIS+GYR INNOVATIONS, INC., US
[85] 2024-04-03
[86] 2022-10-18 (PCT/US2022/046956)
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[30] US (17/506,528) 2021-10-20

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[13] A1
[51] **Int.Cl. H02K 9/28 (2006.01) H01R 39/48 (2006.01) H01R 39/38 (2006.01)**
[25] FR
[54] **SUCTION SYSTEM FOR EFFICIENTLY SUCKING UP THE DUST OF A ROTATING ELECTRIC MACHINE IN A POLLUTED ENVIRONMENT**
[54] **SYSTEME D'ASPIRATION EFFICACE DES POUSSIERES D'UNE MACHINE ELECTRIQUE TOURNANTE EN ENVIRONNEMENT POLLUE**
[72] BOREL, GREGORY, FR
[72] NATHMANN, MICHAEL, DE
[71] MERSEN FRANCE AMIENS SAS, FR
[71] MERSEN OSTERREICH HITTISAU GES.M.B.H., AT
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[87] (WO2023/067290)
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[51] **Int.Cl. C08L 1/10 (2006.01) C08K 3/22 (2006.01) C08K 5/053 (2006.01) C08K 5/092 (2006.01) C08L 1/12 (2006.01)**
[25] EN
[54] **MELT PROCESSABLE CELLULOSE ESTER COMPOSITIONS COMPRISING ALKALINE FILLER**
[54] **COMPOSITIONS D'ESTER DE CELLULOSE POUVANT ETRE TRAITEES A L'ETAT FONDU COMPRENANT UNE CHARGE ALCALINE**
[72] CLENDENNEN, STEPHANIE KAY, US
[72] EBRAHIMI, HAMID, US
[71] EASTMAN CHEMICAL COMPANY, US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/045979)
[87] (WO2023/059848)
[30] US (63/262,254) 2021-10-08

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/22 (2006.01) A63B 21/00 (2006.01) A63B 21/008 (2006.01) A63B 24/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING ENDURANCE OF A MUSCLE GROUP**
[54] **SYSTEME ET PROCEDE DE DETERMINATION D'ENDURANCE D'UN GROUPE MUSCULAIRE**
[72] KEISER, DENNIS L., US
[71] KEISER CORPORATION, US
[85] 2024-04-03
[86] 2022-10-06 (PCT/US2022/077698)
[87] (WO2023/060196)
[30] US (63/253,521) 2021-10-07

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[51] **Int.Cl. A62C 3/16 (2006.01) F24F 5/00 (2006.01) F24F 13/30 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **AIR CONDITIONER USING WATER VAPOR REFRIGERANT FOR MODULAR DATA CENTER AND DATA CENTER COMPRISING SAME**
[54] **CLIMATISEUR UTILISANT UN REFRIGERANT A VAPEUR D'EAU POUR UN CENTRE DE DONNEES MODULAIRE ET CENTRE DE DONNEES COMPRENANT CE DERNIER**
[72] YANG, JIANGUO, CN
[72] LI, XIAOLONG, CN
[72] XIE, WEIBO, CN
[72] ZHANG, JILONG, CN
[72] WANG, QUANJIANG, CN
[72] CHEN, XIMOU, CN
[72] ZHOU, CHENGJUN, CN
[72] KANG, JIANHUI, CN
[71] BEIJING JINGKELUN ENGINEERING DESIGN AND RESEARCH INSTITUTE CO., LTD., CN
[85] 2024-04-03
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[87] (WO2023/226299)
[30] CN (202210586820.8) 2022-05-27

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[13] A1
[51] **Int.Cl. B01F 25/433 (2022.01)**
[25] EN
[54] **ADAPTER AND METHOD OF MIXING CONSTITUENTS OF A PHARMACEUTICAL COMPLEX VIA AN ADAPTER**
[54] **ADAPTATEUR ET PROCEDE DE MELANGE DE CONSTITUANTS D'UN COMPLEXE PHARMACEUTIQUE PAR L'INTERMEDIAIRE D'UN ADAPTATEUR**
[72] LEE, CLAUDIA, US
[72] SULLIVAN, MICHAEL, US
[72] KUMAR, RAJIV, US
[72] DELVECCHIO, DANIEL E., US
[72] GUTHLEIN, JAMES, US
[71] WEST PHARMACEUTICAL SERVICES, INC., US
[85] 2024-04-03
[86] 2022-10-04 (PCT/US2022/045696)
[87] (WO2023/059657)
[30] US (63/251,880) 2021-10-04

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[13] A1
[51] **Int.Cl. C07D 277/58 (2006.01)**
[25] EN
[54] **AN IMPROVED PROCESS FOR THE PREPARATION OF NITAZOXANIDE AND INTERMEDIATES THEREOF**
[54] **PROCEDE AMELIORE POUR PREPARER DU NITAZOXANIDE ET DE SES INTERMEDIAIRES**
[72] SOMAPPA, SASIDHAR BALAPPA, IN
[72] VALMIKI, PRAVEEN KUMAR, IN
[72] DURUGAPPA, BASAVARAJA, IN
[71] COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGN. OF SOC. ACT (ACT XXI OF 1860), IN
[85] 2024-04-03
[86] 2022-09-21 (PCT/IN2022/050843)
[87] (WO2023/058046)
[30] IN (202111045217) 2021-10-05

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[13] A1
[51] **Int.Cl. G21C 3/54 (2006.01) G21C 19/48 (2006.01) G21C 19/50 (2006.01)**
[25] EN
[54] **A METHOD OF ADJUSTING OXOACIDITY**
[54] **PROCEDE D'AJUSTEMENT DE L'OXOACIDITE**
[72] SILVIOLI, LUCA, DK
[72] LOVSHALL-JENSEN, ASK EMIL, DK
[72] SEYEDI, MAHLA, DK
[72] AMPHLETT, JAMES, DK
[72] COOPER, DANIEL JOHN, DK
[72] BHATTACHARYA, BIYASH, DK
[71] SEABORG APS, DK
[85] 2024-04-03
[86] 2022-10-07 (PCT/EP2022/077931)
[87] (WO2023/057622)
[30] EP (21201498.9) 2021-10-07

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[13] A1
[51] **Int.Cl. B01J 8/02 (2006.01) B01J 8/06 (2006.01)**
[25] FR
[54] **FIXED-BED TUBULAR REACTOR COMPRISING A MAKE-UP CHAMBER**
[54] **REACTEUR TUBULAIRE A LIT FIXE COMPORTANT UNE CHAMBRE D'APPOINT**
[72] DUCROS, FREDERIC, FR
[72] CHAMPON, ISABELLE, FR
[72] CHAISE, ALBIN, FR
[72] BEDEL, LAURENT, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-04-03
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[87] (WO2023/057710)
[30] FR (FR2110518) 2021-10-05

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[13] A1
[51] **Int.Cl. E06B 9/266 (2006.01) B31D 3/02 (2006.01) E06B 9/262 (2006.01)**
[25] EN
[54] **ASSEMBLY OF CELLULAR WINDOW BLINDS WITH UV CURE ADHESIVE**
[54] **ENSEMBLE DE STORES A FENETRE CELLULAIRE AVEC ADHESIF DURCISSANT AUX UV**
[72] ZITTING, LORIN K., US
[71] ZITTING, LORIN K., US
[85] 2024-04-03
[86] 2022-10-25 (PCT/US2022/078627)
[87] (WO2023/076879)
[30] US (63/271,295) 2021-10-25

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[51] **Int.Cl. C08L 1/10 (2006.01) C08K 3/22 (2006.01) C08K 5/053 (2006.01) C08K 5/092 (2006.01) C08L 1/12 (2006.01)**
[25] EN
[54] **ARTICLES CONTAINING MELT PROCESSABLE CELLULOSE ESTER COMPOSITIONS COMPRISING ALKALINE FILLER**
[54] **ARTICLES CONTENANT DES COMPOSITIONS D'ESTER DE CELLULOSE POUVANT ETRE TRAITEES PAR FUSION COMPRENANT UNE CHARGE ALCALINE**
[72] CLENDENNEN, STEPHANIE KAY, US
[72] FANG, YICHEN, US
[71] EASTMAN CHEMICAL COMPANY, US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/045975)
[87] (WO2023/059845)
[30] US (63/262,256) 2021-10-08

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[13] A1
[51] **Int.Cl. A47L 13/22 (2006.01) A47L 11/34 (2006.01) A47L 11/40 (2006.01)**
[25] EN
[54] **STEAM CLEANING APPARATUS**
[54] **APPAREIL DE NETTOYAGE A LA VAPEUR**
[72] AHMED, FARIHA, US
[72] REDMAN, JOSHUA, US
[72] HUTCHINSON, PETER, US
[72] LAYEVSKY, DMITRY, US
[72] KEENE, ANDREW, US
[72] XU, KAI, CN
[72] VRDOLJAK, OGNJEN, CA
[72] TAN, QUEENA, US
[72] FENG, DEVIN, CN
[72] LI, JUNPING, US
[72] YAO, MING, CN
[72] WANG, TAO, US
[72] ZOU, HUI, US
[72] LI, YONGGANG, US
[72] BARKER, DAVID T., GB
[72] CHEN, HELIANG, CN
[72] GU, JIBING, US
[72] QIN, MINGLIANG, US
[72] LU, ZHENGZHOU, US
[72] LIU, LEI, US
[71] SHARKNINJA OPERATING LLC, US
[85] 2024-04-03
[86] 2022-04-22 (PCT/US2022/025873)
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[30] US (63/178,932) 2021-04-23
[30] US (63/220,272) 2021-07-09

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[13] A1
[51] **Int.Cl. B01D 53/00 (2006.01) C02F 1/52 (2006.01) C02F 3/12 (2006.01) C02F 3/28 (2006.01) C02F 11/04 (2006.01) C02F 11/12 (2019.01) C02F 11/20 (2006.01)**
[25] EN
[54] **SYSTEM FOR PRODUCING BIOGAS USING MIXED LIQUID OF DIGESTIVE FLUID TREATED WATER AND ORGANIC DRY SUBSTANCE**
[54] **SYSTEME DE PRODUCTION DE BIOGAZ AU MOYEN D'UN LIQUIDE MELANGE D'EAU TRAITEE DE FLUIDE DIGESTIF ET DE SUBSTANCE ORGANIQUE SECHE**
[72] NA, MIN SOO, KR
[71] NA, MIN SOO, KR
[85] 2024-04-03
[86] 2022-10-18 (PCT/KR2022/015829)
[87] (WO2023/075265)
[30] KR (10-2021-0142550) 2021-10-25

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/30 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01) A24F 40/57 (2020.01) H05B 3/74 (2006.01)**
[25] EN
[54] **CARTRIDGE AND AEROSOL-GENERATING DEVICE INCLUDING THE SAME**
[54] **CARTOUCHE ET DISPOSITIF DE GENERATION D'AEROSOL COMPRENANT CELLE-CI**
[72] KIM, TAEHUN, KR
[72] PARK, JUEON, KR
[72] JUNG, HYUNGJIN, KR
[72] HAN, JUNGHO, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-03
[86] 2022-10-14 (PCT/KR2022/015645)
[87] (WO2023/068676)
[30] KR (10-2021-0140612) 2021-10-20
[30] KR (10-2022-0019691) 2022-02-15
[30] KR (10-2022-0059802) 2022-05-16

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[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PREDICTING SPERM QUALITY**
[54] **PROCEDES ET SYSTEMES POUR PREDIRE LA QUALITE DU SPERME**
[72] MILLER, RYAN, US
[72] BROGAARD, KRISTIN, US
[72] OLSON, ANDREW, US
[71] INHERENT BIOSCIENCES, INC., US
[85] 2024-04-03
[86] 2022-10-05 (PCT/US2022/077583)
[87] (WO2023/060109)
[30] US (63/252,732) 2021-10-06
[30] US (63/291,536) 2021-12-20

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[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/485 (2020.01) A24F 40/51 (2020.01)**
[25] EN
[54] **DEVICE FOR GENERATING AEROSOL**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] KIM, TAEHUN, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-03
[86] 2022-10-12 (PCT/KR2022/015422)
[87] (WO2023/068637)
[30] KR (10-2021-0141248) 2021-10-21

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[25] EN
[54] **AEROSOL-GENERATING DEVICE**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] LEE, JAEMIN, KR
[72] RYU, HANSEUL, KR
[72] PARK, SANGKYU, KR
[72] AN, HWIKYEONG, KR
[72] HAN, DAENAM, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-03
[86] 2022-10-12 (PCT/KR2022/015412)
[87] (WO2023/075218)
[30] KR (10-2021-0147015) 2021-10-29
[30] KR (10-2022-0042168) 2022-04-05

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[51] **Int.Cl. H01M 4/64 (2006.01) H01M 10/0525 (2010.01) H01M 50/534 (2021.01) H01M 4/66 (2006.01) H01M 4/70 (2006.01)**
[25] FR
[54] **DRY-PROCESSED INSULATING FILM FOR ELECTRODE EDGES**
[54] **FILM ISOLANT EN VOIE SECHE POUR RIVES D'ELECTRODES**
[72] ADAMCZYK, EVAN, FR
[72] DE ALMEIDA, ANDRE, FR
[72] PERISSE, JULIE, FR
[71] AUTOMOTIVE CELLS COMPANY SE, FR
[85] 2024-04-03
[86] 2022-10-12 (PCT/EP2022/078417)
[87] (WO2023/062089)
[30] FR (FR2110909) 2021-10-14

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[51] **Int.Cl. A61M 11/02 (2006.01)**
[25] EN
[54] **BREATH-POWERED NASAL DEVICES FOR TREATMENT OF TRAUMATIC BRAIN INJURY (TBI), INCLUDING CONCUSSION, AND METHODS AND METHODS**
[54] **DISPOSITIFS NASAUX ALIMENTES PAR LA RESPIRATION POUR LE TRAITEMENT D'UNE LESION CEREBRALE TRAUMATIQUE (TBI), COMPRENANT UNE COMMOTION, ET PROCEDES**
[72] VANLANDINGHAM, JACOB, US
[72] LEWANDOSKI, MICHAEL, US
[72] STOWELL, KELLY M., US
[72] LUCAS, JONATHAN, US
[72] COCHRAN, TRAVIS, US
[71] ODYSSEY HEALTH, INC., US
[71] VANLANDINGHAM, JACOB, US
[71] LEWANDOSKI, MICHAEL, US
[71] STOWELL, KELLY M., US
[71] LUCAS, JONATHAN, US
[71] COCHRAN, TRAVIS, US
[85] 2024-04-03
[86] 2022-10-19 (PCT/US2022/000020)
[87] (WO2023/069126)
[30] US (63/257,117) 2021-10-19

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[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/465 (2020.01) A24F 40/51 (2020.01)**
[25] EN
[54] **DEVICE FOR GENERATING AEROSOL AND MANUFACTURING METHOD WITH THE SAME**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SON PROCEDE DE FABRICATION**
[72] AN, HWIKYEONG, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-03
[86] 2022-10-12 (PCT/KR2022/015414)
[87] (WO2023/068635)
[30] KR (10-2021-0141247) 2021-10-21

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[25] EN
[54] **TREATMENT METHODS FOR ALS PATIENTS**
[54] **METHODES DE TRAITEMENT POUR PATIENTS ATTEINTS DE SLA**
[72] AZHIR, ARASTEH, US
[72] MCGRATH, MICHAEL S., US
[72] FORREST, BRUCE D., US
[72] PRICE, LEAH, IL
[71] NEUVIVO, INC., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-04-03
[86] 2022-10-04 (PCT/US2022/077557)
[87] (WO2023/060097)
[30] US (63/252,061) 2021-10-04
[30] US (63/301,476) 2022-01-20
[30] US (63/302,000) 2022-01-21

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[51] **Int.Cl. A24D 1/02 (2006.01) A24D 1/20 (2020.01) A24F 40/465 (2020.01) D21H 19/04 (2006.01)**
[25] EN
[54] **CIGARETTE AND DEVICE FOR GENERATING AEROSOL WITH THE SAME**
[54] **CIGARETTE ET DISPOSITIF POUR GENERER UN AEROSOL AVEC CELLE-CI**
[72] LEE, JAEMIN, KR
[71] KT&G CORPORATION, KR
[85] 2024-04-03
[86] 2022-10-12 (PCT/KR2022/015425)
[87] (WO2023/075222)
[30] KR (10-2021-0147014) 2021-10-29
[30] KR (10-2022-0026723) 2022-03-02

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[51] **Int.Cl. A61K 31/519 (2006.01) A61P 9/00 (2006.01) C07D 487/04 (2006.01) C07D 487/06 (2006.01) C07D 498/14 (2006.01) C07D 498/16 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **PYRIMIDINE TRICYCLIC DERIVATIVE AND PHARMACEUTICAL APPLICATION THEREOF**
[54] **DERIVE TRICYCLIQUE DE PYRIMIDINE ET SON APPLICATION PHARMACEUTIQUE**
[72] LUO, YUNFU, CN
[72] ZHANG, GUOLI, CN
[72] LI, SHAOLONG, CN
[72] GE, WEIZHI, CN
[72] CHEN, SHUHUI, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2024-04-03
[86] 2022-10-13 (PCT/CN2022/125047)
[87] (WO2023/061432)
[30] CN (202111565306.8) 2021-12-20
[30] CN (202211160959.2) 2022-09-22
[30] CN (202111194177.6) 2021-10-13

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[13] A1
[51] **Int.Cl. A61K 35/22 (2015.01) A61P 13/12 (2006.01)**
[25] EN
[54] **TREATMENT OF KIDNEY DISEASE**
[54] **TRAITEMENT DE MALADIES RENALES**
[72] BERTRAM, TIMOTHY A., KY
[72] JAIN, DEEPAK, US
[71] BERTRAM, TIMOTHY A., KY
[71] JAIN, DEEPAK, US
[85] 2024-04-03
[86] 2022-10-14 (PCT/US2022/078153)
[87] (WO2023/064925)
[30] US (63/255,885) 2021-10-14
[30] US (63/307,801) 2022-02-08
[30] US (63/321,204) 2022-03-18

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[13] A1
[51] **Int.Cl. H04L 12/10 (2006.01)**
[25] EN
[54] **COAXIAL CABLE ADAPTER FOR DISTRIBUTING A COMPOSITE ETHERNET/POWER SIGNAL TO POWER OVER ETHERNET DEVICES**
[54] **ADAPTATEUR DE CABLE COAXIAL POUR LA DISTRIBUTION D'UN SIGNAL COMPOSITE ETHERNET/D'ALIMENTATION A DES DISPOSITIFS A ALIMENTATION PAR ETHERNET**
[72] BARANY, DAVID A., US
[72] HART, THOMAS, US
[71] PPC BROADBAND, INC., US
[85] 2024-04-03
[86] 2022-10-13 (PCT/US2022/046579)
[87] (WO2023/064476)
[30] US (63/255,260) 2021-10-13

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[13] A1
[51] **Int.Cl. G16H 50/70 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6886 (2018.01) C12Q 1/6888 (2018.01) G16B 30/10 (2019.01) G01N 33/559 (2006.01)**
[25] EN
[54] **METAEPIGENOMICS-BASED DISEASE DIAGNOSTICS**
[54] **DIAGNOSTICS DE MALADIES BASES SUR LA METAEPIGENOMIQUE**
[72] ADAMS, EDDIE, US
[72] WANDRO, STEPHEN, US
[72] FRARACCIO, SERENA, US
[72] SINGH-TAYLOR, AKANKSHA, US
[71] MICRONOMA, INC., US
[85] 2024-04-03
[86] 2022-10-07 (PCT/US2022/046126)
[87] (WO2023/059922)
[30] US (63/253,655) 2021-10-08

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[13] A1
[51] **Int.Cl. H01M 50/30 (2021.01) H01M 50/358 (2021.01) H01M 50/367 (2021.01)**
[25] EN
[54] **BATTERY AND ELECTRICAL DEVICE**
[54] **BATTERIE ET DISPOSITIF ELECTRIQUE**
[72] KE, JIANHUANG, CN
[72] CHEN, XIAOBO, CN
[72] LI, YAO, CN
[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN
[85] 2024-04-03
[86] 2022-11-30 (PCT/CN2022/135702)
[87] (WO2023/245989)
[30] CN (PCT/CN2022/100760) 2022-06-23

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[13] A1
[51] **Int.Cl. C23C 22/56 (2006.01) C23F 11/18 (2006.01)**
[25] EN
[54] **COMPOSITIONS, SYSTEMS AND METHODS FOR TREATING A SUBSTRATE**
[54] **COMPOSITIONS, SYSTEMES ET PROCEDES DE TRAITEMENT D'UN SUBSTRAT**
[72] CHARI, KRISHNAN, US
[72] MORRIS, ERIC LEON, US
[71] PRC-DESOTO INTERNATIONAL, INC., US
[85] 2024-04-03
[86] 2022-10-27 (PCT/US2022/078770)
[87] (WO2023/076990)
[30] US (63/272,554) 2021-10-27
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[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **TREATMENT OF MAST CELL RELATED DISORDERS**
[54] **TRAITEMENT DE TROUBLES LIES AUX MASTOCYTES**
[72] PARK, SANG GYU, KR
[72] KIM, KWANG-HYEOK, KR
[71] NOVELTY NOBILITY INC., KR
[85] 2024-04-03
[86] 2022-10-06 (PCT/KR2022/015064)
[87] (WO2023/059113)
[30] KR (10-2021-0133123) 2021-10-07

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **E-LIQUID COLLECTION DRY-BURNING PREVENTION ATOMIZER, AND ELECTRONIC CIGARETTE**
[54] **ATOMISEUR A PREVENTION DE COMBUSTION A SEC ET COLLECTE DE E-LIQUIDE, ET CIGARETTE ELECTRONIQUE**
[72] LIU, TUANFANG, CN
[71] LIU, TUANFANG, CN
[85] 2024-04-03
[86] 2023-02-03 (PCT/CN2023/074375)
[87] (WO2023/169110)
[30] CN (202210228082.X) 2022-03-08
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[51] **Int.Cl. E21B 17/02 (2006.01) E21B 47/017 (2012.01) E21B 17/07 (2006.01) E21B 17/10 (2006.01) E21B 25/16 (2006.01) E21B 31/18 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **"SHOCK ABSORBER FOR A DOWNHOLE TOOL, AND RUNNING GEAR FOR DOWNHOLE SURVEYING "**
[54] **« AMORTISSEUR POUR OUTIL DE FOND, ET TRAIN ROULANT POUR INSPECTION DE TROU DE FOND »**
[72] MOKARAMIAN, AMIR, AU
[72] REILLY, JAMES BARRY, AU
[72] JAVORKA, MARIAN, AU
[71] REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, AU
[85] 2024-04-04
[86] 2022-11-22 (PCT/AU2022/051396)
[87] (WO2023/092173)
[30] AU (2021903774) 2021-11-23

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[51] **Int.Cl. B22F 1/05 (2022.01) B22F 1/102 (2022.01) B22F 1/145 (2022.01) B22F 1/16 (2022.01) C22C 33/02 (2006.01) H01F 1/24 (2006.01) H01F 1/26 (2006.01) H01F 1/33 (2006.01) H01F 3/08 (2006.01) H01F 41/02 (2006.01)**
[25] EN
[54] **A FERROMAGNETIC POWDER COMPOSITION AND A METHOD FOR OBTAINING THEREOF**
[54] **COMPOSITION DE POUDRE FERROMAGNETIQUE ET SON PROCEDE D'OBTENTION**
[72] ZHOU, YE, SE
[72] SKARMAN, BJORN, SE
[72] JONSSON, CHRISTIAN, SE
[72] BRASH, BENJAMIN, SE
[72] HELLSEN, ANN-CATHRIN, SE
[71] HOGANAS AB (PUBL), SE
[85] 2024-03-28
[86] 2022-10-17 (PCT/EP2022/078826)
[87] (WO2023/062242)
[30] EP (21202965.6) 2021-10-15

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[51] **Int.Cl. E04F 15/10 (2006.01) B32B 5/00 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **FRAMED (MODULAR) PLASTIC COMPOSITE**
[54] **NOUVEAU REVETEMENT DE SOL MOULE**
[72] CHEN, JUN, CN
[71] 10957402 CANADA INC., CA
[71] CHENG, GANG, CN
[85] 2024-01-30
[86] 2022-06-29 (PCT/CN2022/102104)
[87] (WO2023/216388)
[30] CN (202210519305.8) 2022-05-12

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[13] A1
[51] **Int.Cl. A61M 5/32 (2006.01)**
[25] EN
[54] **METHOD INVOLVING A NEEDLE-BASED DEVICE WITH A SAFETY MECHANISM IMPLEMENTED THEREIN**
[54] **PROCEDE APPLICABLE A UN DISPOSITIF A BASE D'AIGUILLES AVEC MECANISME DE SECURITE IMPLANTE DANS CELUI-CI**
[72] MOLEDA, JAROSLAW, PL
[71] MEDIVENA SP. Z O.O., PL
[85] 2024-04-04
[86] 2022-10-06 (PCT/IB2022/059572)
[87] (WO2023/057959)
[30] US (17/494,904) 2021-10-06

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[51] **Int.Cl. C07D 401/14 (2006.01) A01N 43/54 (2006.01) A01N 43/56 (2006.01) C07D 403/06 (2006.01)**
[25] EN
[54] **HERBICIDAL IMIDAZOLE COMPOUNDS**
[54] **COMPOSES IMIDAZOLE HERBICIDES**
[72] DALE, SUZANNA, GB
[72] ELVES, PHILIP MICHAEL, GB
[72] KINGSTON, CHARLES WILLIAM FREDERICK, GB
[72] MORRIS, JAMES ALAN, GB
[72] WATKIN, SAMUEL VAUGHAN, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-04-04
[86] 2022-10-13 (PCT/EP2022/078500)
[87] (WO2023/066783)
[30] GB (2114863.0) 2021-10-18

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[51] **Int.Cl. A61K 38/20 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IL-2 PRODRUG**
[54] **PROMEDICAMENT D'IL-2**
[72] SALMERON-GARCIA, JOSE ANDRES, US
[72] WINSTON, WILLIAM, US
[72] HICKLIN, DANIEL, US
[72] SEIDEL-DUGAN, CYNTHIA, US
[72] BRODKIN, HEATHER, US
[72] NIRSCHL, CHRISTOPHER, US
[72] CAFARELLI, TIZIANA, US
[71] WEREWOLF THERAPEUTICS, INC., US
[85] 2024-04-04
[86] 2022-10-07 (PCT/US2022/077772)
[87] (WO2023/060242)
[30] US (63/253,964) 2021-10-08
[30] US (63/290,941) 2021-12-17
[30] US (63/328,524) 2022-04-07

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[51] **Int.Cl. B60L 7/22 (2006.01) B60L 58/33 (2019.01)**
[25] EN
[54] **WORK VEHICLE**
[54] **VEHICULE DE CHANTIER**
[72] HOSHINO, YUTA, JP
[71] KOMATSU LTD., JP
[85] 2024-04-04
[86] 2022-12-09 (PCT/JP2022/045449)
[87] (WO2023/106397)
[30] JP (2021-200388) 2021-12-09

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[13] A1
[51] **Int.Cl. A61B 3/00 (2006.01) A61B 3/12 (2006.01) A61B 3/135 (2006.01)**
[25] EN
[54] **VITREORETINAL VISUALIZATION FOR OPHTHALMIC PROCEDURES**
[54] **VISUALISATION VITREO-RETINIENNE POUR DES PROCEDURES OPHTALMIQUES**
[72] CHARLES, STEVEN T., US
[71] ALCON INC., CH
[85] 2024-04-04
[86] 2022-10-03 (PCT/IB2022/059435)
[87] (WO2023/089395)
[30] US (63/281,293) 2021-11-19

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[13] A1
[51] **Int.Cl. B60L 53/80 (2019.01) H04W 4/02 (2018.01) G06Q 10/04 (2023.01) G06Q 10/06 (2023.01) H04W 4/44 (2018.01) G05D 1/00 (2024.01) G08G 1/00 (2006.01)**
[25] EN
[54] **OPTIMAL ENERGY STORAGE UTILIZATION**
[54] **UTILISATION OPTIMALE DE STOCKAGE D'ENERGIE**
[72] PERSSON, ANDERS, SE
[72] MALM, PATRIK, SE
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE
[85] 2024-04-04
[86] 2022-09-16 (PCT/SE2022/050816)
[87] (WO2023/059239)
[30] SE (2151241-3) 2021-10-08

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[13] A1
[51] **Int.Cl. A01B 69/04 (2006.01) A01B 79/00 (2006.01)**
[25] FR
[54] **AUTONOMOUS AGRICULTURAL ROBOT COMPRISING A CROP PROTECTION DEVICE**
[54] **ROBOT AGRICOLE AUTONOME COMPRENANT UN DISPOSITIF DE PROTECTION DE CULTURES**
[72] ANDREU, JOAN, FR
[72] JUNG, FRANCK, FR
[72] MOINDRAULT, DENIS, FR
[72] MATHIEU, BRUNO, FR
[72] SEGUINEAU, CEDRIC, FR
[72] SEVERAC, GAETAN, FR
[71] NAIO-TECHNOLOGIES, FR
[85] 2024-04-04
[86] 2022-10-04 (PCT/EP2022/077499)
[87] (WO2023/057408)
[30] FR (FR2110534) 2021-10-05

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[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/24 (2006.01) A61L 2/26 (2006.01)**
[25] EN
[54] **UVC SANITIZING BAG**
[54] **SAC DE DESINFECTION UVC**
[72] NAPIER-RODEN, CHRISTYNE, US
[71] NAPIER-RODEN, CHRISTYNE, US
[85] 2024-04-04
[86] 2022-07-22 (PCT/US2022/038005)
[87] (WO2023/004110)
[30] US (63/224,785) 2021-07-22

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[13] A1
[51] **Int.Cl. A61B 90/50 (2016.01)**
[25] EN
[54] **LOAD BALANCING ARM FOR MEDICAL DEVICE SUPPORT SYSTEM**
[54] **BRAS D'EQUILIBRAGE DE CHARGE POUR SYSTEME DE SUPPORT DE DISPOSITIF MEDICAL**
[72] PICHLER, JERIME JOSEF, US
[71] AMERICAN STERILIZER COMPANY, US
[85] 2024-04-04
[86] 2022-10-10 (PCT/US2022/046160)
[87] (WO2023/069269)
[30] US (63/256,713) 2021-10-18

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[13] A1
[51] **Int.Cl. A61K 47/18 (2017.01) A61K 47/68 (2017.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS OF EFRUXIFERMIN**
[54] **COMPOSITIONS PHARMACEUTIQUES D'EFRUXIOL**
[72] DIMITROVA, MARIANA N., US
[72] ROLPH, TIMOTHY P., US
[71] AKERO THERAPEUTICS, INC., US
[85] 2024-04-04
[86] 2022-10-12 (PCT/US2022/077968)
[87] (WO2023/064808)
[30] US (63/255,286) 2021-10-13

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[13] A1
[51] **Int.Cl. A61K 31/10 (2006.01) A61P 31/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR ACUTE AND CHRONIC WOUNDS**
[54] **COMPOSITIONS POUR PLAIES AIGUES ET CHRONIQUES**
[72] BIGNOZZI, CARLO ALBERTO, IT
[72] COGO, ALBERTO, IT
[72] QUINT, BERTUS JOZEF, NL
[71] DEBX MEDICAL HOLDING B.V., NL
[85] 2024-04-04
[86] 2022-06-27 (PCT/EP2022/067593)
[87] (WO2023/057098)
[30] IT (102021000025541) 2021-10-07

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[51] **Int.Cl. A61B 3/11 (2006.01) A61B 3/113 (2006.01) A61B 3/14 (2006.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **MULTIMODAL METHOD AND SYSTEM FOR EVALUATING AND IMPROVING NEUROMOTOR CONTROL ABILITY**
[54] **PROCEDE MULTIMODAL ET SYSTEME D'EVALUATION ET D'AMELIORATION DE LA CAPACITE DE COMMANDE NEUROMOTRICE**
[72] MCGRATH, ELIZABETH, AU
[71] PRISM NEURO PTY LTD, AU
[85] 2024-04-04
[86] 2022-10-05 (PCT/AU2022/051188)
[87] (WO2023/056512)
[30] AU (2021903207) 2021-10-07

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[13] A1
[51] **Int.Cl. A61B 3/16 (2006.01) A61B 5/0507 (2021.01) A61B 5/03 (2006.01) A61B 8/10 (2006.01)**
[25] EN
[54] **HAND-HELD RADAR SYSTEM TO MEASURE INTRAOCULAR PRESSURE AND TO ASSESS EYE DISEASES AND METHOD THEREFOR**
[54] **SYSTEME RADAR PORTATIF POUR MESURER LA PRESSION INTRAOCULAIRE ET POUR EVALUER DES MALADIES OCULAIRES ET PROCEDE ASSOCIE**
[72] KASEVICH, RAYMOND STANLEY, US
[72] GROSSMAN, MARK, US
[72] EDSON, MICHAEL, US
[71] NATURAL EYE CARE, INC., US
[85] 2024-04-04
[86] 2022-10-04 (PCT/US2022/045642)
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[54] **METHOD FOR PREPARING PREFILLED SYRINGE FORMULATION**
[54] **PROCEDE DE PREPARATION D'UNE FORMULATION DE SERINGUE PRE-REMPLIE**
[72] ARAI, KENGO, JP
[72] HIRAYAMA, KAZUNORI, JP
[72] EGAMI, KIICHI, JP
[72] FUKUDA, MASAKAZU, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
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[54] **MULTIVALENT INFLUENZA VACCINES**
[54] **VACCINS MULTIVALENTS CONTRE LA GRIPPE**
[72] ALEFANTIS, TIMOTHY, US
[72] BARRO, MARIO, US
[72] BYERS, ANTHONY, US
[72] DAVIDSON, PHILIP, US
[72] GIEL-MOLONEY, MARYANN, US
[72] GILBERT, PHILIPPE-ALEXANDRE, US
[72] KLEANTHOUS, HAROLD, US
[72] NAIK, ARMAGHAN, US
[72] PUGACHEV, KONSTANTIN, US
[72] SRIDHAR, SARANYA, US
[72] WARREN, WILLIAM, US
[72] ZELDOVICH, KONSTANTIN, US
[71] SANOFI PASTEUR INC., US
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[86] 2022-10-07 (PCT/US2022/045992)
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[54] **MESEMBRINE DERIVATIVES**
[54] **DERIVES DE MESEMBRINE**
[72] KIRKLAND, JUSTIN, US
[71] KIRKLAND, JUSTIN, US
[85] 2024-04-04
[86] 2022-10-18 (PCT/US2022/047047)
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[54] **POWER GRAPH CONVOLUTIONAL NETWORK FOR EXPLAINABLE MACHINE LEARNING**
[54] **RESEAU CONVOLUTIF DE GRAPHE DE PUISSANCE A DES FINS D'APPRENTISSAGE AUTOMATIQUE POUVANT ETRE EXPLIQUE**
[72] DU PREEZ, WARREN, US
[72] HUANG, BOWEN, US
[71] EQUIFAX INC., US
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[25] EN
[54] **METHODS FOR DETECTING MICROORGANISMS**
[54] **PROCEDE DE DETECTION DE MICRO-ORGANISMES**
[72] DUKAN, SAM, FR
[72] DUMONT, AUDREY, FR
[72] GRAC, EDITH, FR
[72] MULLER, ALEXANDRE, FR
[71] DIAMIDEX, FR
[85] 2024-04-04
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[54] **DATA COMPRESSION TECHNIQUES FOR MACHINE LEARNING MODELS**
[54] **TECHNIQUES DE COMPRESSION DE DONNEES POUR MODELES D'APPRENTISSAGE AUTOMATIQUE**
[72] GUO, BO, US
[72] BONDUGULA, RAJKUMAR, US
[71] EQUIFAX INC., US
[85] 2024-04-04
[86] 2022-10-06 (PCT/US2022/077637)
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[54] **METHOD FOR REJUVENATING GLIAL PROGENITOR CELLS AND REJUVENATED GLIAL PROGENITOR CELLS PER SE**
[54] **METHODE DE RAJEUNISSEMENT DES CELLULES PROGENITRICES GLIALES ET CELLULES PROGENITRICES GLIALES RAJEUNIES EN TANT QUE TELLES**
[72] GOLDMAN, STEVEN A., US
[72] MARIANI, JOHN, US
[72] HUYNH, NGUYEN P.T., US
[71] UNIVERSITY OF ROCHESTER, US
[85] 2024-04-04
[86] 2022-10-16 (PCT/US2022/078182)
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[54] **AGRICULTURAL INPUT AND ASSOCIATED METHODS FOR PROTECTING AND FOR STIMULATING THE GROWTH OF A PLANT**
[54] **INTRANT AGRICOLE ET PROCEDES DE PROTECTION ET DE STIMULATION DE LA CROISSANCE D'UNE PLANTE ASSOCIES**
[72] PICAUD, THIERRY, BE
[71] MEDINBIO, BE
[85] 2024-04-04
[86] 2022-10-05 (PCT/EP2022/077747)
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[25] EN
[54] **INTEGRATED SYSTEMS AND METHODS FOR COMBINING METHANOTROPHIC BACTERIAL BIOMASS PRODUCTION AND METHANATION PROCESS**
[54] **SYSTEMES ET PROCEDES INTEGRES DE COMBINAISON DE PRODUCTION DE BIOMASSE BACTERIENNE METHANOTROPHE ET DE PROCESSUS DE METHANATION**
[72] SHAW, ALAN, US
[72] GIVER, LORRAINE JOAN, US
[71] CALYSTA, INC., US
[85] 2024-04-04
[86] 2022-12-05 (PCT/US2022/080940)
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[54] **MICRO-ENCAPSULATION**
[72] TAYLOR, PHILIP, GB
[72] LINDSAY, CHRISTOPHER IAN, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-04-04
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[54] **METHOD FOR PRODUCING MILK LIKE PRODUCTS**
[54] **PROCEDE DE PRODUCTION DE PRODUITS DE TYPE LAIT**
[72] HALLER, CORINNE, FR
[72] CHAMBRIN, BRICE, CH
[72] BIANCHI, ARIANNA, CH
[72] MASHINCHIAN, OMID, CH
[72] KRAUS, MARINE, CH
[72] DESTAILLATS, FREDERIC, CH
[72] YART, LUCILE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
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[54] **INTRAUTERINE CONTRACEPTIVE DEVICE**
[54] **DISPOSITIF CONTRACEPTIF INTRA-UTERIN**
[72] KATZ, BOB H., US
[72] SCHREIFELS, MARY JO, US
[72] PETERS, KEVIN, US
[71] SEBELA VLC LIMITED, BM
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[54] **SPATIAL RENDERING OF AUDIO ELEMENTS HAVING AN EXTENT**
[54] **RENDU SPATIAL D'ELEMENTS AUDIO AYANT UNE ETENDUE**
[72] MORADI ASHOUR, CHAMRAN, SE
[72] FALK, TOMMY, SE
[72] DE BRUIJN, WERNER, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
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[54] **CRISPY BANANA SNACK PRODUCTS**
[54] **PRODUITS DE GRIGNOTAGE CROUSTILLANTS A LA BANANE**
[72] ZHANG, GUOPENG, CA
[72] SANDOVAL, ERIKA, CA
[72] AHMAD, SHAFIQUE, CA
[72] KNIGHTS, BRADEN, CA
[71] ENWAVE CORPORATION, CA
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[25] EN
[54] **SYSTEMS AND METHODS FOR ELECTRIC PROCESSING**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT ELECTRIQUE**
[72] LEIS, MATHEW, US
[72] CARDINAL, CHRISTOPHER J.-P., US
[72] DAMES, ENOCH, US
[72] DASAPPA, SHRUTHI, US
[72] HOERMANN, ALEXANDER, US
[71] MONOLITH MATERIALS, INC., US
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[86] 2022-09-30 (PCT/US2022/045451)
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[54] **COATING COMPOSITION**
[54] **COMPOSITION DE REVETEMENT**
[72] FEOLA, ROLAND, AT
[72] ETZ, OLIVER, DE
[72] MAROH, BORIS, SI
[71] ALLNEX AUSTRIA GMBH, AT
[85] 2024-04-04
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[51] **Int.Cl. A61K 51/04 (2006.01) C07B 59/00 (2006.01) C07F 5/00 (2006.01)**
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[54] **METHOD FOR THE PREPARATION OF A COMPOSITION COMPRISING DISSOLVED [18F]FLUORIDE AND COMPOSITION OBTAINABLE BY THE METHOD**
[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION COMPRENANT DU FLUORURE [18F] DISSOUS ET COMPOSITION POUVANT ETRE OBTENUE AU MOYEN DU PROCEDE**
[72] DI CARLO, DANIEL, DE
[72] WESTER, HANS-JURGEN, DE
[71] TECHNISCHE UNIVERSITAT MUNCHEN, DE
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[86] 2022-10-31 (PCT/EP2022/080357)
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[54] **METHOD AND DEVICE FOR EXTRACTION**
[54] **PROCEDE ET DISPOSITIF D'EXTRACTION**
[72] VOLTZER, MORITZ, DE
[71] HARBURG-FREUDENBERGER MASCHINENBAU GMBH, DE
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[54] **TEMPERATURE-CONTROLLED DELIGNIFICATION OF BIOMASS**
[54] **DELIGNIFICATION DE BIOMASSE A TEMPERATURE CONTROLEE**
[72] WEISSENBERGER, MARKUS, CA
[72] YOUSSEF, EMHEMMED, CA
[72] PAGELS, MARKUS, CA
[71] SIXRING INC., CA
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[54] **METHODS AND MATERIALS FOR BIOSYNTHESIS OF MOGROSIDE COMPOUNDS**
[54] **PROCEDES ET MATIERES POUR LA BIOSYNTHESE DE COMPOSES MOGROSIDES**
[72] HOUGHTON-LARSEN, JENS, DK
[72] KRZYSTANEK, KATARZYNA, CH
[72] SEMMLER, ANGELIKA, DK
[72] HANSEN, IVER KLAVS RIISHEDE, DK
[72] DAMKIAER, SOREN, CH
[72] LIU, GARY, CH
[72] LIU, YAOQUAN, US
[72] HANSEN, JORGEN, DK
[72] KUMAR, SATHISH, IN
[72] MURALI, MUTHUSWAMY PANCHAPAGESA, IN
[72] RASMUSSEN, NINA NICOLINE, DK
[71] EVOLVA SA, XX
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[54] **COMPOSITIONS AND METHODS FOR INHIBITING THE ACTIVITY OF LAR FAMILY PHOSPHATASES**
[54] **COMPOSITIONS POUR LE TRAITEMENT DES BLESSURES NEURALES PAR L'INHIBITION DE L'ACTIVITE DES PHOSPHATASES DE LA FAMILLE LAR**
[72] LANG, BRADLEY T., US
[72] CREGG, JARED M., US
[72] SILVER, JERRY, US
[72] WANG, YI-LAN, US
[71] CASE WESTERN RESERVE UNIVERSITY, US
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[54] **PROCEDE DE PREPARATION DE SUGAMMADEX**
[72] LAMBERTO, DAVID J., US
[72] AVALLE, PAOLO, CH
[72] CODAN, LORENZO, CH
[72] LARPENT, PATRICK, CH
[72] SCHOELL, JOCHEN, CH
[72] NEUHAUS, JEFFREY S., US
[71] MERCK SHARP & DOHME LLC, US
[71] WERTHENSTEIN BIOPHARMA GMBH, CH
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[54] **FLUID CARTRIDGE FOR A PLURAL COMPONENT SPRAYER**
[54] **CARTOUCHE DE FLUIDE POUR PULVERISATEUR DE PLUSIEURS COMPOSANTS**
[72] ROSS, DANIEL P., US
[72] TIX, JOSEPH E., US
[72] STEWART, SAMUEL R., US
[72] WEINBERGER, MARK T., US
[72] PELLIN, CHRISTOPHER J., US
[72] VELGERSDYK, JEFFREY N., US
[72] BOSAK, JACK A., US
[72] WHITEOAK, JACOB R., US
[71] GRACO MINNESOTA INC., US
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[54] **PULSE-BASED BREAD CRUMB, COATING AND PRE-DUST ANALOG PROCESS FOR MANUFACTURING THE SAME**
[54] **MIETTES DE PAIN, ENROBAGES, PATES D`ADHERENCE ET PROCEDE ANALOGIQUE POUR LEUR FABRICATION**
[72] TULBEK, MEHMET, CA
[72] VITALE, DAVIDE, CA
[72] KNUDSON, LES, CA
[72] BARTSCH, ERIC, CA
[71] AGT FOOD AND INGREDIENTS INC., CA
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[54] **METHOD FOR PURIFYING ANTIBODY HAVING LOW ISOELECTRIC POINT**
[54] **PROCEDE DE PURIFICATION D'ANTICORPS A FAIBLE POINT ISOELECTRIQUE**
[72] UEDA, YASUFUMI, JP
[72] KOBAYASHI, SHOHEI, JP
[72] YANAGITA, SATOKO, JP
[72] KAWASE, TAKUO, JP
[72] FUKUNAGA, MASAHIRO, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
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[54] **A MEMBRANE ASSEMBLY**
[54] **SYSTEME DE MEMBRANE**
[72] BROUNS, DERK SERVATIUS GERTRUDA, NL
[72] JANSSEN, PAUL, NL
[72] KAMALI, MOHAMMAD REZA, NL
[72] PETER, MARIA, NL
[72] VAN DER ZANDE, WILLEM JOAN, NL
[72] VAN ZWOL, PIETER-JAN, NL
[72] VLES, DAVID FERDINAND, NL
[72] VOORTHUIJZEN, WILLEM-PIETER, NL
[71] ASML NETHERLANDS B.V., NL
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[54]
[72] MORIKAWA, DAVID TARO, CA
[72] JOHANNESSON, MARK, CA
[71] ATS CORPORATION, CA
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[54] **VACCIN ADN ENV PLUS RAPPEL AVEC PROTEINE CONTRE LE VIH-1**
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[72] MUTHUMANI, KARUPPIAH, US
[72] WISE, MEGAN, US
[72] YAN, JIAN, US
[72] BRODERICK, KATE, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[71] INOVIO PHARMACEUTICALS, INC., US
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[54] **METHODS AND SYSTEMS FOR PRODUCING PRESSWARE**
[54] **METHODES ET SYSTEMES POUR PRODUIRE DES PRODUITS PRESSES**
[72] CHUN, VICTOR L., US
[72] BROWN, STEFFEN, US
[72] EICHBAUER, PHILIP, US
[71] BROWN LLC, US
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