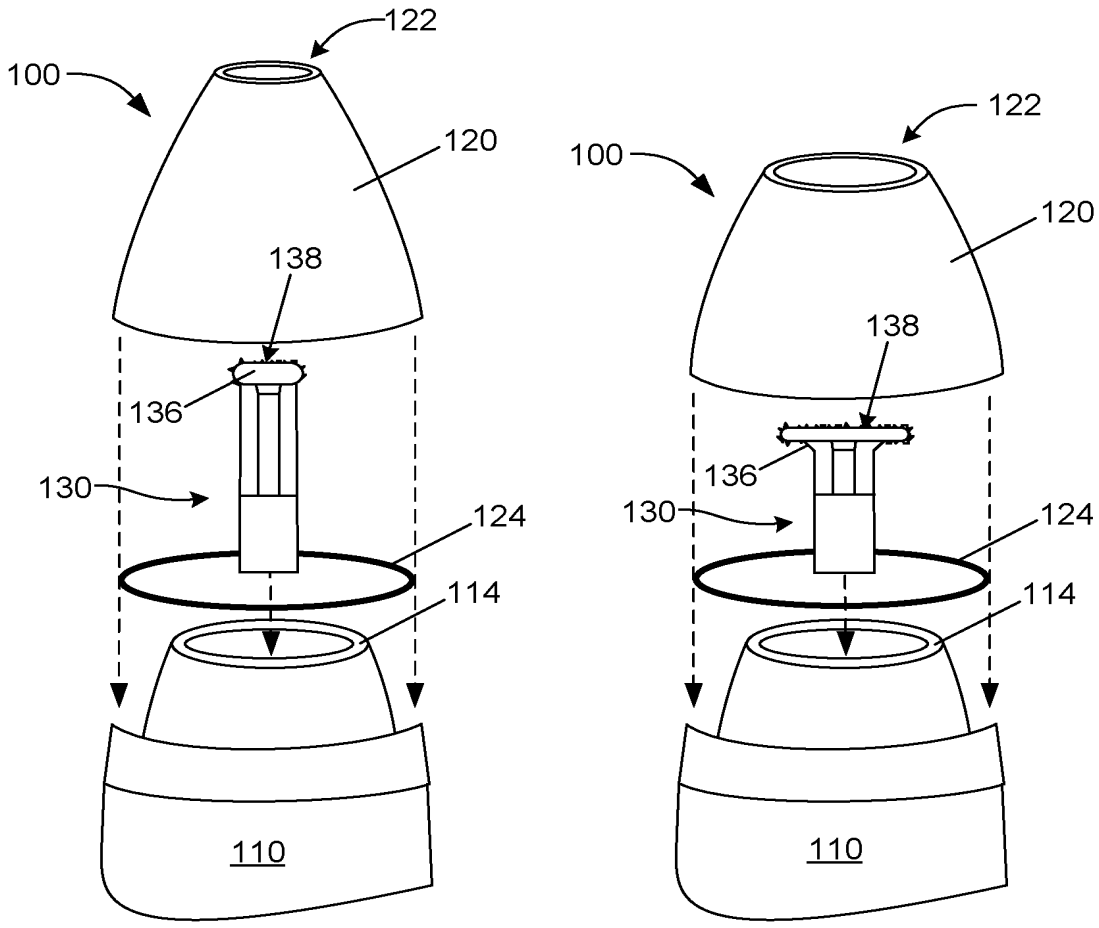


FIG. 2

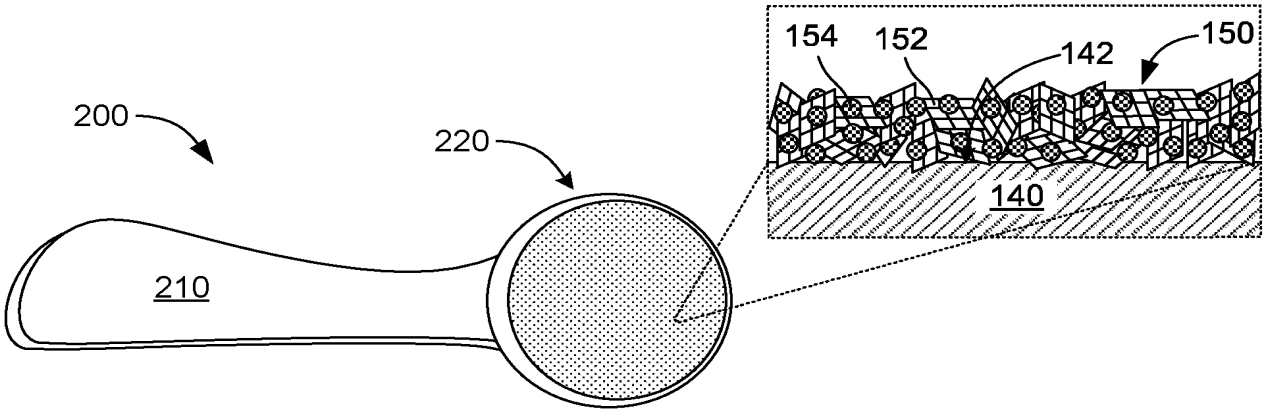


FIG. 3

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

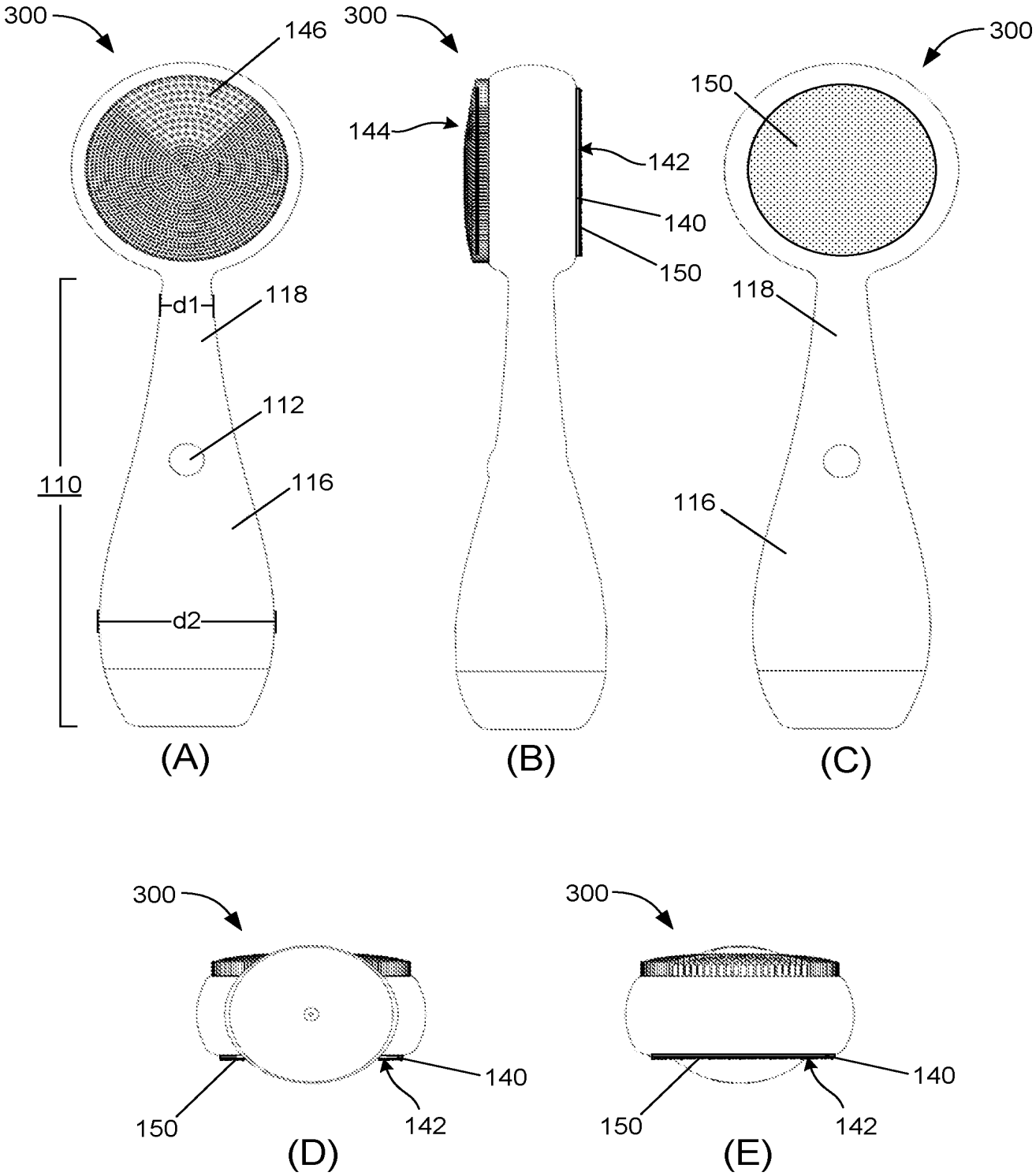


FIG. 4

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

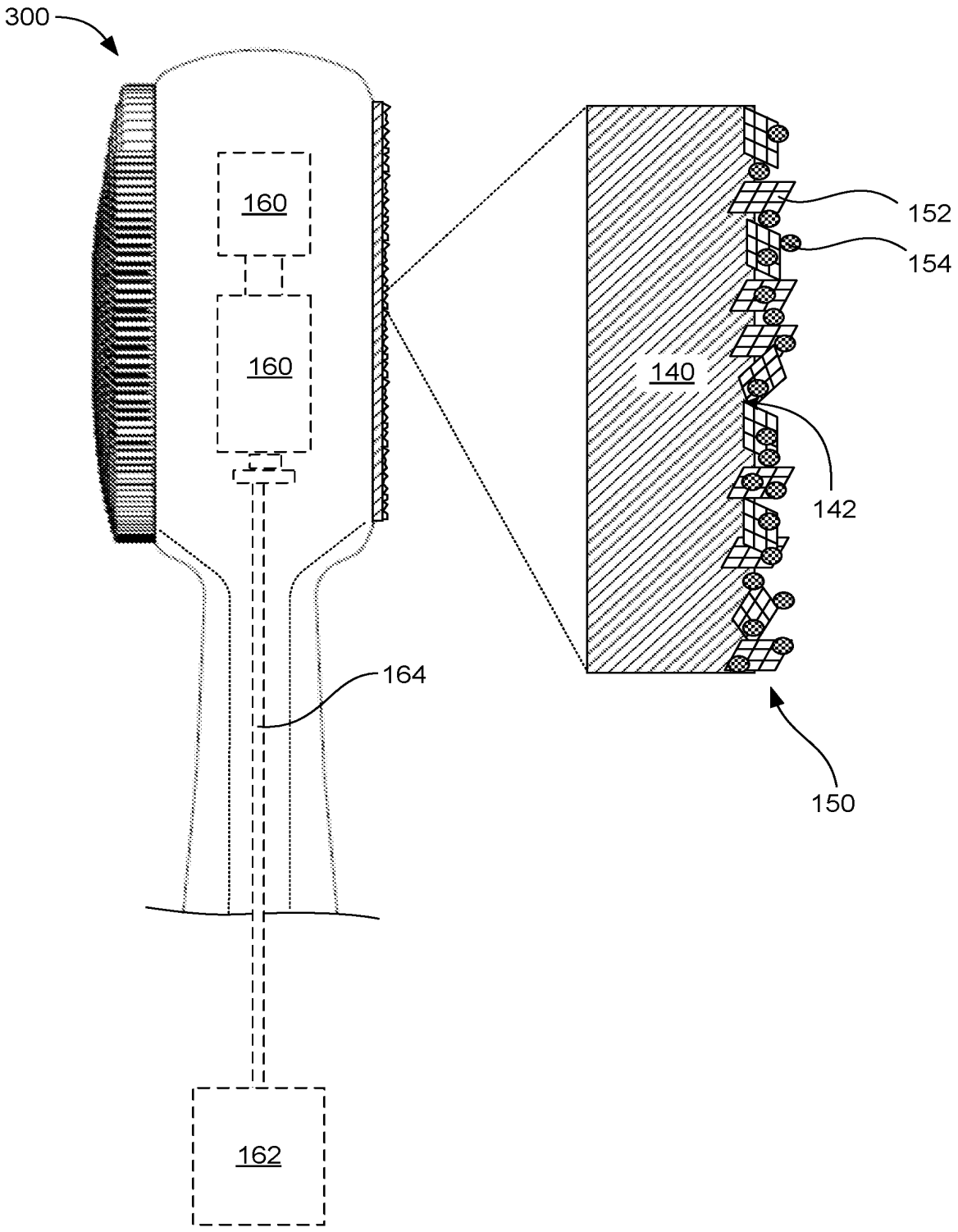


FIG. 5

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

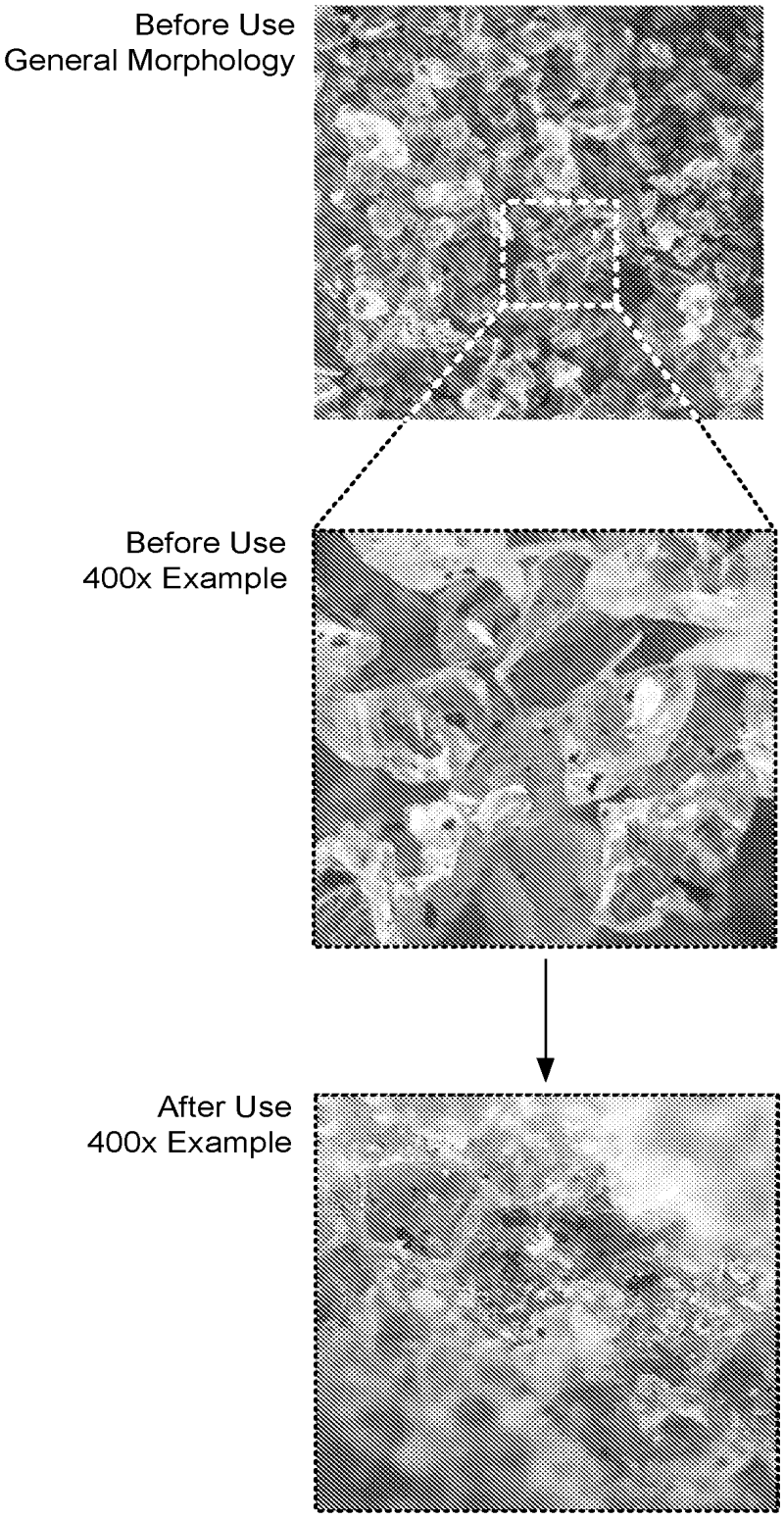


FIG. 6

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: BRENNAN C. SWAIN
JEFFER MANGELS BUTLER & MITCHELL LLP
1900 AVENUE OF THE STARS, 7TH FLOOR
LOS ANGELES, CA 90067

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing *(day/month/year)* OCT 13 2021
Applicant's or agent's file reference 76840-7244	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 21/39586	International filing date *(day/month/year)* 29 June 2021 (29.06.2021)
Applicant THERAGUN, INC.	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

How? Directly to the International Bureau preferably through ePCT, or on paper to:
The International Bureau of WIPO, 34, chemin des Colombettes, 1211 Geneva 20, Switzerland

For more detailed instructions, see the *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Within **22 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	Authorized officer Kari Rodriquez Telephone No. PCT Helpdesk: 571-272-4300

Form PCT/ISA/220 (revised January 2020)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		FOR FURTHER ACTION
76840-7244		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US 21/39586	29 June 2021 (29.06.2021)	29 June 2020 (29.06.2020)
Applicant		
THERAGUN, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

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PGR2025-00013

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 21/39586

A. CLASSIFICATION OF SUBJECT MATTER

IPC - A61H 15/02, A61H 23/00, A61H 23/02, A61H 37/00, A61H 39/00 (2021.01)

CPC - A61H 15/02, A61H 23/00, A61H 23/02, A61H 39/00, A61H 39/002, A61H 2201/0107, A61H 2201/0153, A61H 2201/10, A61H 2201/105, A61H 2201/1635, A61H 2201/1654, A61H 2201/1669, A61H 2201/168, A61H 2201/1685, A61H 2201/5028, A61H 2201/5064, A61H 2201/5066

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
See Search History document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2013/0060176 A1 (Nichols) 7 March 2013 (07.03.2013), entire document, especially Fig 1, Fig 6, Fig 7, Fig 8, Fig 18B, Fig 19, para [0040]-[0043], para [0048], para [0070], para [0075]	1, 2, 4-6, 9, 11-13, 15-17 ----- 3, 7, 8, 10, 14, 18
Y	US 2019/0262607 A1 (Nichols) 29 August 2019 (29.08.2019), entire document, especially Fig 5, Fig 8, para [0029], para [0042]	3, 18
Y	US 2020/0086137 A1 (LG Electronics Inc) 19 March 2020 (19.03.2020), entire document, especially Fig 7, para [0032], para [0094], para [0096], para [0185], para [0187]	7, 8
Y	US 2014/0378555 A1 (Aesthetic Medical Devices LLC) 25 December 2014 (25.12.2014), entire document, especially para [0007], para [0036]	10
Y	US 2015/0305969 A1 (SEB S.A.) 29 October 2015 (29.10.2015), entire document, especially para [0003], para [0155], para [0206], para [0208]	14
A	US 2019/0254922 A1 (Hyper Ice, Inc) 22 August 2019 (22.08.2019), entire document	1-18
A	WO 2019/155210 A2 (Jackson Design Ltd) 15 August 2019 (15.08.2019), entire document	1-18

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"D" document cited by the applicant in the international application
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
02 September 2021	OCT 13 2021
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	Authorized officer Kari Rodriquez Telephone No. PCT Helpdesk: 571-272-4300

Form PCT/ISA/210 (second sheet) (July 2019)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: BRENNAN C. SWAIN
JEFFER MANGELS BUTLER & MITCHELL LLP
1900 AVENUE OF THE STARS, 7TH FLOOR
LOS ANGELES, CA 90067

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	OCT 13 2021

Applicant's or agent's file reference	FOR FURTHER ACTION
76840-7244	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 21/39586	29 June 2021 (29.06.2021)	29 June 2020 (29.06.2020)

International Patent Classification (IPC) or both national classification and IPC

IPC - A61H 15/02, A61H 23/00, A61H 23/02, A61H 37/00, A61H 39/00 (2021.01)

CPC - A61H 15/02, A61H 23/00, A61H 23/02, A61H 39/00, A61H 39/002, A61H 2201/0107, A61H 2201/0153, A61H 2201/10, A61H 2201/105, A61H 2201/1635, A61H 2201/1654, A61H 2201/1669, A61H 2201/168, A61H 2201/1685, A61H 2201/5028, A61H 2201/5064, A61H 2201/5066

Applicant
THERAGUN, INC.

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	02 September 2021	Kari Rodriquez PCT Help Desk Telephone No. 571-272-4300

Form PCT/ISA/237 (cover sheet) (revised January 2019)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 21/39586

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(b)).

3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

a. ☐ forming part of the international application as filed:

☐ in the form of an Annex C/ST.25 text file.

☐ on paper or in the form of an image file.

b. ☐ furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.

c. ☐ furnished subsequent to the international filing date for the purposes of international search only:

☐ in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).

☐ on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 21/39586

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	3, 6-8, 10, 14, 18	YES
	Claims	1-2, 4-5, 9, 11-13, 15-17	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-18	NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims	None	NO

2. Citations and explanations:
Claims 1-2, 4-5, 9, 11-13 and 15-17 lack novelty under PCT Article 33(2) as being anticipated by US 2013/0060176 A1 to Nichols '176.

As to claim 1, Nichols '176 discloses a vibration therapy device comprising:
a housing (see housing 16, Fig 1) that includes a handle portion (see handle portion 18, Fig 1), a head portion (see head portion 22, Fig 1) and a module seat defined on the head portion (see module seat portion 24 of head portion 22, Fig 1),
an electrical source ("electric motor and power supply" - para [0042]),
a motor ("motor" - para [0042] positioned in the housing (motor is mounted within housing 16, para [0042]),
a switch (see control panel 20, Fig 1; control panel contains touch-sensitive switches, para [0041]) for activating the motor (control panel allows user to turn on modes that activate the motor, para [0041]),
a push rod assembly (see push rod assembly 28 showing configuration 28B, Fig 1) operatively connected to the motor (push rod assembly 28 has a drive gear which receives a mechanical drive force from the motor, para [0048]) and configured to reciprocate in response to activation of the motor (push rod assembly 28 is movable for oscillation and vibration in response to the motor, para [0043]), wherein the distal end of the push rod assembly is configured to removably receive a reciprocating attachment thereon (see how end of push rod assembly 28 extending from module seat 24 can receive a reciprocating attachment, Fig 1), and
a therapy module (see therapy modules 14A-14D, Fig 1) removably secured to the module seat (see how various therapy modules 14A-14D can be interchanged and removably secured to module seat 24, Fig 1), wherein the therapy module at least partially surrounds the distal end of the push rod assembly (see how therapy module 14B has end 68B that will surround the distal end of push rod assembly, Fig 6).

As to claim 2, Nichols '176 discloses the vibration therapy device of claim 1 wherein the push rod assembly includes an attachment member (see polygon-shaped spindle 76 attached to drive assembly 28B, Fig 8) that defines the distal end of the push rod assembly (see how polygon-shaped spindle 76 defines the distal end of push rod assembly 28B, Fig 8), wherein the therapy module is coaxial with the distal end of the push rod assembly (see how therapy module 14B receiver end 68B is shaped to be coaxial with the distal end of the push rod assembly when attached, Fig 6), and wherein at least a portion of the attachment member extends into the therapy module (see how receiver 66B is configured to receive the polygon-shaped spindle 76 attachment member, Fig 7).

As to claim 4, Nichols '176 discloses the vibration therapy device of claim 1 wherein the therapy module comprises a ring module (see ring module 34A and cap 43 of a therapy module, Fig 19) that includes a central opening (see central opening of ring module 34A, Fig 19) and an outer surface (see outer surface 43, Fig 19), wherein a reciprocating attachment that includes a contact surface (see reciprocating attachment with base 70, drive assembly 28D, and attached contact surface 30 with facial brush 9, Fig 19) is removably received on the distal end of the push rod assembly (base 70 includes receiver 66B for unshown distal end of push rod assembly 28B extending from the housing, Fig 18B), wherein the contact surface of the reciprocating attachment extends further from the module seat than the outer surface of the ring module (see how contact surface 30 with brushes 9 of the reciprocating attachment extend further distally than outer surface 43 of the ring module, Fig 19).

As to claim 5, Nichols '176 discloses the vibration therapy device of claim 4 wherein a skin treatment member (see facial brush 9 on contact surface 30, Fig 9) is removably secured to the reciprocating attachment (see how facial brush 9 is removably coupled to reciprocating attachment 28D through ring module 43, Fig 19) such that a delivery portion at least partially covers the contact surface (see how facial brushes 9 cover the contact surface 30, Fig 19).

As to claim 9, Nichols '176 discloses the vibration therapy device of claim 2 wherein the therapy module comprises a cap module (see cap module 43, Fig 19) that includes a main body portion (see main body portion 43, Fig 19) and a rear recess (see recess 83, Fig 19), wherein at least a portion of the attachment member extends into the rear recess (see how attachment spindle can extend into recess 83, Fig 19, para [0075]).

As to claim 11, Nichols '176 discloses the vibration therapy device of claim 9 wherein the cap module is configured to be removably secured to the module seat (see how cap module 43 is removably secured to the ring module 34A which is received in the module seat, Fig 19) and the attachment member (see how cap module 43 is removably secured to the attachment spindle through recess 83, Fig 19).

-*-Continued in Supplemental Box-*-

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
-*-Box V.2 - Citations and Explanations-*-

As to claim 12, Nichols '176 discloses a vibration therapy system comprising:
a vibration therapy device that includes
a housing (see housing 16, Fig 1) that includes a handle portion (see handle portion 18, Fig 1), a head portion (see head portion 22, Fig 1) and a module seat defined on the head portion (see module seat portion 24 of head portion 22, Fig 1),
an electrical source ("electric motor and power supply" - para [0042]),
a motor ("motor" - para [0042) positioned in the housing (motor is mounted within housing 16, para [0042]),
a switch (see control panel 20, Fig 1; control panel contains touch-sensitive switches, para [0041]) for activating the motor (control panel allows user to turn on modes that activate the motor, para [0041]), and
a push rod assembly (see push rod assembly 28 showing configuration 28B, Fig 1) operatively connected to the motor (push rod assembly 28 has a drive gear which receives a mechanical drive force from the motor, para [0048]) and configured to reciprocate in response to activation of the motor (push rod assembly 28 is movable for oscillation and vibration in response to the motor, para [0043]), wherein the push rod assembly includes an attachment member (see polygon-shaped spindle 76 attached to drive assembly 28B, Fig 8) that defines the distal end of the push rod assembly (see how polygon-shaped spindle 76 defines the distal end of push rod assembly 28B, Fig 8),
a ring module (see ring module 34A of a therapy module, Fig 19) that includes a central opening (see central opening of ring module 34A, Fig 19) and that is configured to be removably secured to the module seat (see how therapy modules 14A-14D including ring modules are removably secured to module seat 24, Fig 1), wherein when the ring module is removably secured to the module seat, the distal end of the push rod assembly extends into the central opening (see how the central opening of ring module 34A is configured to receive the distal end of the push rod assembly, Fig 19),
a cap module (see cap module 43, Fig 19) that includes a main body portion (see main body portion 43, Fig 19) and a rear recess (see recess 83, Fig 19) and that is configured to be removably secured to the module seat (see how therapy modules 14A-14D including cap modules are removably secured to module seat 24, Fig 1), wherein when the cap module is removably secured to the module seat, the distal end of the push rod assembly extends into the rear recess (see how attachment spindle at distal end of the push rod assembly can extend into recess 83, Fig 19, para [0075]), and
a reciprocating attachment (see reciprocating attachment with base 70, drive assembly 28D, and attached contact surface 30 with facial brush 9, Fig 19) that is configured to be removably received on the attachment member (base 70 includes receiver 66B for unshown attachment member on distal end of push rod assembly 28B extending from the housing, Fig 18B), wherein when the ring module is received on the module seat, the reciprocating attachment extends through the central opening (see how drive assembly 28D of reciprocating attachment extends through the central opening in ring module 34A, Fig 19).

As to claim 13, Nichols '176 discloses the vibration therapy system of claim 12 further comprising a skin treatment member (see facial brush 9 on contact surface 30, Fig 19) that is configured to be removably secured to the reciprocating attachment (see how facial brush 9 is removably coupled to reciprocating attachment 28D through ring module 43, Fig 19) such that a delivery portion at least partially covers a contact surface of the reciprocating attachment (see how facial brushes 9 cover the contact surface 30, Fig 19).

As to claim 15, Nichols '176 discloses a vibration therapy device comprising:
a housing (see housing 16, Fig 1) that includes a handle portion (see handle portion 18, Fig 1) and a head portion (see head portion 22, Fig 1),
an electrical source ("electric motor and power supply" - para [0042]),
a motor ("motor" - para [0042) positioned in the housing (motor is mounted within housing 16, para [0042]),
a switch (see control panel 20, Fig 1; control panel contains touch-sensitive switches, para [0041]) for activating the motor (control panel allows user to turn on modes that activate the motor, para [0041]),
a push rod assembly (see push rod assembly 28 showing configuration 28B, Fig 1) operatively connected to the motor (push rod assembly 28 has a drive gear which receives a mechanical drive force from the motor, para [0048]) and configured to reciprocate in response to activation of the motor (push rod assembly 28 is movable for oscillation and vibration in response to the motor, para [0043]), and
a reciprocating attachment (see reciprocating attachment with base 70, drive assembly 28D, cap 43, and attached skin treatment contact surface 30 with facial brush 9, Fig 19) removably secured to a distal end of the push rod assembly (base 70 includes receiver 66B for unshown distal end of push rod assembly 28B extending from the housing, Fig 18B), wherein the reciprocating attachment includes a contact surface (see attached skin treatment contact surface 30 with facial brush 9, Fig 19), wherein a skin treatment member is removably secured to the reciprocating attachment (see how skin treatment member 30 with facial brush 9 is removably coupled to reciprocating attachment 28D through ring module 43, Fig 19) such that a delivery portion at least partially covers the contact surface (see how facial brushes 9 cover the contact surface 30, Fig 19).

As to claim 16, Nichols '176 discloses the vibration therapy device of claim 15 wherein the reciprocating attachment includes a groove defined therein (see outer groove in reciprocating attachment 76A, Fig 19) wherein at least a portion of the skin treatment member is received in the groove (see skin treatment portion 66B, Fig 18B; see how skin treatment portion 66B is received within groove of attachment 76A, Fig 19).

As to claim 17, Nichols '176 discloses the vibration therapy device of claim 16 wherein the skin treatment member includes a main body portion (see main body portion 30, Fig 19) that, together with the delivery portion (see delivery portion 9, Fig 19), defines an attachment recess (see attachment recess 66B, Fig 18B), wherein at least one ridge member extends inwardly from the main body portion into the attachment recess (see outer ridge members of 66B, Fig 18B) and is received in the groove on the reciprocating attachment (outer ridge members of 66B are received in the outer groove in the reciprocating attachment portion 76A, Fig 19).

-*-Continued in next Supplemental Box-*-

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
-*-Supplemental Box - Box V.2 - Citations and Explanations-*-

Claim 6 lacks an inventive step under PCT Article 33(3) as being obvious over Nichols '176.

As to claim 6, Nichols '176 discloses the vibration therapy device of claim 4 but does not explicitly teach wherein the ring module includes a plurality of LED's therein. Nichols does teach where a variety of therapy modules can be used including LED light-emiting (para [0040]). Accordingly, it would have been obvious to a person having ordinary skill in the art to modify the therapy ring module to include a plurality of LEDs in order to provide an additional therapy method using the same module head.

Claims 3 and 18 lack an inventive step under PCT Article 33(3) as being obvious over Nichols '176 in view of US 2019/0262607 A1 to Nichols '607.

As to claim 3, Nichols '176 discloses the vibration therapy device of claim 2 wherein the therapy module is in electrical communication with the electrical source (the control panel 20 activates the motor to activate the attached therapy module mode, para [0041), but does not explicitly teach wherein the module seat includes a first electrical connector, and wherein the therapy module includes a second electrical connector in electrical communication with the first electrical connector. Nichols '176 does not provide details of the electrical communication between the therapy module and electrical source.
Nichols '607 further teaches a vibration therapy device comprising a handle housing (see handle housing 16, Fig 5), a head housing (see head housing 22, Fig 5), and a module seat (see dashed line module seat at left end of head housing, Fig 5) for receiving a therapy module (see therapy modules 14A and 14B which can be received in the module seat portion of housing 22, Fig 5). Nichols '607 further teaches where the therapy module is in electrical communication with an electrical source by comprising a first electrical connector in the module seat (electrical contact pads are provided within the module seat receptacle 24, para [0029]) and a second electrical connector in the therapy module (the therapy module comprises corresponding electrical pads, para [0029]) in electrical communication (the electrical contact pads of the module seat 24 and therapy module 14 are interconnected, para [0029]) in order to provide the electrical communication between the therapy module and electrical source (the electrical contact pads provide electrical power to the therapy module, para [0029]).

As to claim 18, Nichols '176 discloses the vibration therapy device of claim 15 but does not explicitly teach wherein the delivery portion includes a lotion thereon. Nichols '176 does teach where facial brushes are attached to the delivery portion (para [0070]) but does not explicitly mention using lotion with the facial brushes.
Nichols '607 teaches where a removable skin treatment member (see skin treatment member 60, Fig 8) includes a lotion ("lotions" - para [0042]) and a collar overlapping the rim (see collar 76, Fig 8) to prevent the lotion from contaminating the housing of the vibration therapy device (para [0042]). Accordingly, it would have been obvious to a person having ordinary skill in the art to modify the skin treatment member of Nichols '176 to include a lotion with the delivery portion as taught by Nichols '607 in order to provide a more therapeutic massage using the facial brushes to apply a lotion.

Claims 7 and 8 lack an inventive step under PCT Article 33(3) as being obvious over Nichols '176 in view of US 2020/0086137 A1 to LG Electronics Inc (hereinafter 'LG').

As to claim 7, Nichols '176 discloses the vibration therapy device of claim 6 but does not explicitly teach wherein the LEDs are configured to operate at a treatment level only when the outer surface is less than a predetermined distance from an operating surface.
LG further teaches a handheld LED therapy device comprising a handle portion (see handle portion 50, Fig 7) and a head portion (see head portion 20, Fig 7) configured to attach with an LED module (see therapy module 220 with LEDs 223 surrounding the head portion, Fig 7) where the LEDs are configured to operate only when the head of the device is less than a predetermined distance from the skin (see sensors 557 and 558, Fig 7; the on condition for the LED module is only satisfied when sensors determine the device is within a predetermined distance from the skin, para [0185], para [0187]) in order to prevent light from being unnecessarily radiated (para [0032]). Accordingly, it would have been obvious to a person having ordinary skill in the art to modify the LED therapy module of Nichols '176 to only operate when the outer surface is less than a predetermined distance from the skin as taught by LG so that energy is not wasted unnecessarily irradiating light away from the treatment surface.

As to claim 8, Nichols '176 and LG teach the vibration therapy device of claim 7 but neither explicitly teaches wherein the ring module further comprises at least first and second proximity sensors that are positioned approximately 180 from one another within the ring module, wherein the first and second proximity sensors are each configured to activate the LEDs at the treatment level when the outer surface of the ring module is less than the predetermined distance from the operating surface.
LG does teach where the ring module can include a proximity sensor (a proximity sensor 557 may be provided on the LED therapy module 222, para [0094]) in order to more accurately determine the distance from the treatment surface to the skin (para [0094]), where a gyro sensor can be provided to determine the orientation (para [0096]), and where the sensors are configured to activate the LED therapy when the head of the therapy device is less than a predetermined distance from the operating surface (the on condition for the LED module is only satisfied when sensors determine the device is within a predetermined distance from the skin, para [0185]). Providing duplicate parts is within the ordinary skill of one in the art. Accordingly, it would have been obvious to use two proximity sensors positioned approximately180 from one another in the LED therapy module of Nichols '176 and LG so that the on condition is only satisfied when the ring module is in a relatively flat orientation within a predetermined distance from the skin.

-*-Continued in next Supplemental Box-*-

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
-*-Supplemental Box - Box V.2 - Citations and Explanations-*-

Claim 10 lacks an inventive step under PCT Article 33(3) as being obvious over Nichols '176 in view of US 2014/0378555 A1 to Aesthetic Medical Devices LLC (hereinafter 'Aesthetic').

As to claim 10, Nichols '176 discloses the vibration therapy device of claim 9 but does not explicitly teach wherein the cap module includes an anode and a cathode and is configured to provide micro-current therapy. Nichols does teach where a variety of therapy modules can be used including micro-current emitting ones (para [0040]).
Aesthetic further teaches a vibration therapy device comprising a vibration modality ("vibration modality" - para [0007]) and a micro-current modality including an anode (a larger ring electrode is the anode, para [0007]) and a cathode (a smaller ring electrode is the cathode, para [0007]) where the concentric ring configuration is used to optimally target specific muscles for toning and/or drug delivery (para [0036]).
Accordingly, it would have been obvious to a person having ordinary skill in the art to modify the cap module of Nichols '176 to have a distal contact surface comprising an anode surrounding a cathode in order to optimally target specific muscles when using the micro-current module.

Claim 14 lacks an inventive step under PCT Article 33(3) as being obvious over Nichols '176 in view of US 2015/0305969 A1 to SEB S.A. (hereinafter 'SEB').

As to claim 14, Nichols '176 discloses the vibration therapy system of claim 12 but does not explicitly teach wherein when the ring module is received on the module seat the attachment member can be reciprocated, and wherein when the cap module is received on the module seat the attachment member cannot be reciprocated. Nichols '176 does teach where a variety of different treatment heads with different modalities can be used with the device (a variety of treatment heads including, sponge, LED, micro-current emitting, and others are expected, para [0040]).
SEB also teaches a vibration therapy system with different therapy module heads (different types of massaging heads can be attached to the body of the appliance, para [0003]) and where the appliance behavior differs depending on which head is attached (performance and characteristics of the appliance are optimized to adapt to the function of the type of massage head attached, para [0003]). A first phase of using the massage appliance includes using a therapy mode to prepare the skin for massage without reciprocation (massage appliance has a mode to prepare the skin for massage, para [0206]), after completion the massage appliance then indicates that the head should be changed (after a certain interval the appliance indicates when the head must be changed, para [0208]), and then the reciprocating mode is chosen (the tapping head is recommended next, para [0208]). SEB further teaches where the drive unit of the massage appliance is controlled differently depending on the head attached (the drive unit has distinguishing means connected to the control unit designed to read the identification means on the massage head to operate the appliance based on the head attached, para [0155]).
Accordingly, it would have been obvious to a person having ordinary skill in the art to modify the drive system of Nichols '176 to comprise distinguishing means to operate the appliance depending on the head attached as taught by SEB so that when the cap module is attached to the ring module, the drive system does not reciprocate based on identification of the cap module and the ring module is used to prepare the skin for massage, and when the cap module is removed from the ring module, the drive system is configured to reciprocate to provide a tapping massage mode with the reciprocating attachment.

Claims 1-18 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used by industry.

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

SEARCH HISTORY

Application Number	PCT/US 21/39586
Search Conducted By	JBT
Search Approved By	SCL

CPC/IPC Classifications Searched	CPC - A61H 15/02, A61H 23/00, A61H 23/02, A61H 39/00, A61H 39/002, A61H 2201/0107, A61H 2201/0153, A61H 2201/10, A61H 2201/105, A61H 2201/1635, A61H 2201/1654, A61H 2201/1669, A61H 2201/168, A61H 2201/1685, A61H 2201/5028, A61H 2201/5064, A61H 2201/5066 IPC(8) - A61H 15/02, A61H 23/00, A61H 23/02, A61H 37/00, A61H 39/00 (2021.01)
Date Conducted	02 September 2021 (02.09.2021)

Documentation Searched	CPC - A61H 15/02, A61H 23/00, A61H 23/02, A61H 39/00, A61H 39/002, A61H 2201/0107, A61H 2201/0153, A61H 2201/10, A61H 2201/105, A61H 2201/1635, A61H 2201/1654, A61H 2201/1669, A61H 2201/168, A61H 2201/1685, A61H 2201/5028, A61H 2201/5064, A61H 2201/5066 IPC(8) - A61H 15/02, A61H 23/00, A61H 23/02, A61H 37/00, A61H 39/00 (2021.01) USPC - 601/15, 601/17, 601/21, 601/101, 601/107, 601/108
Search Terms Used	**percuss*, reciproc*, linear, massag*, handle, electric*, battery, motor, rod, shaft, module, attach*, LED, light, electric*, current, therapy, treatment%, face, facial, proximity, position, distance, sensor%, electrode%, lotion%, treat*, ring, cap, anode, cathode**
Date Conducted	02 September 2021 (02.09.2021)

Electronic Database Searched	PatBase
Files Searched	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW

Date Conducted	02 September 2021 (02.09.2021)

Search Logic:

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Search 2: CPC=(A61H 15/02 or A61H 23/00 or A61H 23/02 or A61H 39/00 or A61H 39/002 or A61H 2201/0107 or A61H 2201/0153 or A61H 2201/10 or A61H 2201/105 or A61H 2201/1635 or A61H 2201/1654 or A61H 2201/1669 or A61H 2201/168 or A61H 2201/1685 or A61H 2201/5028 or A61H 2201/5064 or A61H 2201/5066) (Results 25403)
Search 3: UC=(601/15 or 601/17 or 601/21 or 601/101 or 601/107 or 601/108) (Results 1435)
Search 4: 1 or 2 or 3 (Results 78902)
Search 5: 4 and FT=((percuss* or reciproc* or linear) NEAR massag*) (Results 1245)
Search 6: 5 and FT=handle (Results 280)
Search 7: 6 and FT=((electric* or battery) NEAR motor) (Results 121)
Search 8: 7 and FT=(rod or shaft) (Results 104)
Search 9: 8 and FT=((massag* or module) NEAR attach*) (Results 37)
Search 10: 9 and FT=((LED or light or electric* or current) NEAR (therapy or treatment%)) (Results 6)
Search 11: 10 and FT=(face or facial) (Results 3)
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Search 13: 12 and FT=electrode% (Results 1)
Search 14: 13 and FT=lotion% (Results 0)
Search 15: 9 and FT=lotion% (Results 3)
Search 16: 10 not 11 (Results 3)
Search 17: 9 and FT=LED (Results 7)
Search 18: 9 and FT=(skin NEAR treat*) (Results 6)
Search 19: 18 and FT=ring (Results 1)
Search 20: 17 and FT=ring (Results 5)
Search 21: 20 and FT=cap (Results 1)
Search 22: 21 and FT=(anode or cathode or electrode) (Results 1)
Search 23: 22 and FT=lotion (Results 0)
Search 24: CTB 21 or CTF 21 (Results 112)
Search 25: 24 and FT=lotion (Results 1)

Search 1: PN=(US2013046212 AA) (Results 1)
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Search 3: 2 and FT=(reciproc* or percuss*) (Results 34)
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Search 5: PN=(WO14080103 A2) (Results 1)
Search 6: CTB 5 or CTF 5 (Results 102)
Search 7: 6 and FT=(proximity NEAR sens*) (Results 2)

Electronic Database Searched	Google
Files Searched	Google Web
Date Conducted	02 September 2021 (02.09.2021)

Search Logic:
percussive massage multiple modes About 10,800,000 results percussive massage with light therapy About 8,920,000 results percussive massage with micro-current therapy About 8,710,000 results

Electronic Database Searched	Google
Files Searched	Patents (US Patents/Published Applications, EPO publications, International, China, Germany, Canada)
Date Conducted	02 September 2021 (02.09.2021)
Search Logic:	
percussive massage interchangeable therapy About 972 results facial microcurrent anode cathode About 285 results	

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-03-25
First Named Inventor	Wersland, Jason
Art Unit	tbd
Examiner Name	not yet assigned
Attorney Docket Number	76840-5199

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	26	7305269	B2	2007-12-04	Cook	
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	3	20150283025	A1	2015-10-08	Ledany	
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	6	20170128130	A1	2017-05-11	Giraud	
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	14	20080125835	A1	2008-05-29	Laurent	
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	25	20080103563	A1	2008-05-01	Powell	
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	Examiner Name	not yet assigned
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	59	20200237604	A1	2020-07-30	Truong	
	60	20150224020	A1	2015-08-13	Flyash	
	61	20200129372	A1	2020-04-30	Tseng	
	62	20040030325	A1	2004-02-12	Cahir	
	63	20140219701	A1	2014-08-07	Eberlein	
	64	20170202732	A1	2017-07-20	Nichols	
	65	20190262607	A1	2019-08-29	Nichols	
	66	20200280680	A1	2020-09-03	Nichols	
	67	20210128402	A1	2021-05-06	Dai	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-03-25
	First Named Inventor	Wersland, Jason
	Art Unit	tbd
	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

	68	20200179220	A1	2020-06-11	Jablow	
	69	20180168318	A1	2018-06-21	Streeter	
	70	20180031090	A1	2018-02-01	Wong	
	71	20180031089	A1	2018-02-01	Wong	
	72	20170189670	A1	2017-07-06	Brunson	
	73	20150297393	A1	2015-10-22	McGushion	
	74	20150265825	A1	2015-09-24	Miller	
	75	20150119771	A1	2015-04-30	Roberts	
	76	20140276255	A1	2014-09-18	McGushion	
	77	20140128780	A1	2014-05-08	Kennedy	
	78	20130046212	A1	2013-02-21	Nichols	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-03-25
	First Named Inventor	Wersland, Jason
	Art Unit	tbd
	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

	79	20110106067	A1	2011-05-05	Geva	
	80	20110040235	A1	2011-02-17	Castel	
	81	20100274329	A1	2010-10-28	Bradley	
	82	20100274162	A1	2010-10-28	Evans	
	83	20100137752	A1	2010-06-03	Heine	
	84	20100121419	A1	2010-05-13	Douglas	
	85	20080103563	A1	2008-05-01	Powell	
	86	20070213698	A1	2007-09-13	Altshuler	
	87	20120310124	A1	2012-12-06	Zhang	
	88	20200352317	A1	2020-11-12	Yeates	
	89	20200352306	A1	2020-11-12	Um	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-03-25
	First Named Inventor	Wersland, Jason
	Art Unit	tbd
	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

	90	20200093945	A1	2020-03-26	Jeong	
	91	20190388707	A1	2019-12-26	Shenfarber	
	92	20160184162	A1	2016-06-30	Grez	
	93	20140371637	A1	2014-12-18	Lee	
	94	20130060176	A	2013-03-07	Nichols	
	95	20200086137	A1	2020-03-19	Yoo	
	96	20140378555	A1	2014-12-25	Hung	
	97	20150305969	A1	2015-10-29	Giraud	
	98	20190254922	A1	2019-08-22	Marton	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-03-25
	First Named Inventor	Wersland, Jason
	Art Unit	tbd
	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

	1	2020163738	WO					
	2	2019097291	WO					
	3	2020252440	WO					
	4	2020028329	WO					
	5	2019150887	WO					
	6	2020159727	WO					
	7	2020154177	WO					
	8	2019155210	WO	A2	2019-08-15	Jackson		

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	International Search Report and Written Opinion issued in PCT/US21/39586	

If you wish to add additional non-patent literature document citation information please click the Add button Add

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-03-25
	First Named Inventor	Wersland, Jason
	Art Unit	tbd
	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-03-25
	First Named Inventor	Wersland, Jason
	Art Unit	tbd
	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/brennan c. swain/	Date (YYYY-MM-DD)	2022-03-25
Name/Print	Brennan C. Swain	Registration Number	43175

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :C46910

Sale Accounting Date:03/30/2022

Sale Item Reference Number	Effective Date
17705300	03/26/2022

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20223T051504845	1051	LATE FILING FEE FOR OATH OR DECLARATION	$160.00	Deposit Account

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 17/705,300

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	18 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1				x 480 =	480
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	2300

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/705,300	03/26/2022	Jason Wersland	76840-5199

CONFIRMATION NO. 2416

24574
JEFFER, MANGELS, BUTLER & MITCHELL, LLP
1900 AVENUE OF THE STARS, 7TH FLOOR
LOS ANGELES, CA 90067

INFORMAL NOTICE

OC000000132834533

Date Mailed: 03/31/2022

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Jason Wersland
  Benjamin Nazarian
  Jaime Sanchez Solana
  Eduardo Merino
  Bill Webb
  Alex Zhu
  Richard Tang

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/hchin/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/705,300	03/26/2022	3784	2460	76840-5199	18	4

CONFIRMATION NO. 2416

24574
JEFFER, MANGELS, BUTLER & MITCHELL, LLP
1900 AVENUE OF THE STARS, 7TH FLOOR
LOS ANGELES, CA 90067

FILING RECEIPT

OC000000132834532

Date Mailed: 03/31/2022

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Jason Wersland, Los Angeles, CA;
Benjamin Nazarian, Los Angeles, CA;
Jaime Sanchez Solana, Los Angeles, CA;
Eduardo Merino, Los Angeles, CA;
Bill Webb, San Francisco, CA;
Alex Zhu, Xiamen City, CHINA;
Richard Tang, Shenzhen, CHINA;

Applicant(s)

Therabody, Inc., Los Angeles, CA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 17/361,966 06/29/2021
which claims benefit of 63/133,530 01/04/2021
and claims benefit of 63/065,348 08/13/2020
and claims benefit of 63/045,365 06/29/2020

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Hyperice IP Subco Ex. 2014 - Page 483
Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/30/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/705,300**

Projected Publication Date: 07/07/2022

Non-Publication Request: No

Early Publication Request: No

Title

VIBRATING THERAPY SYSTEM AND DEVICE

Preliminary Class

482

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

Hyperice IP Subco Ex. 2014 - Page 484
Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/705,300	03/26/2022	Jason Wersland	76840-5199	2416

24574 7590 05/03/2022

JEFFER, MANGELS, BUTLER & MITCHELL, LLP
1900 AVENUE OF THE STARS, 7TH FLOOR
LOS ANGELES, CA 90067

EXAMINER	
CENTRAL, DOCKET	

ART UNIT	PAPER NUMBER
OPAP	

NOTIFICATION DATE	DELIVERY MODE
05/03/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@jmbm.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 17/705,300	**Applicant(s)** Wersland et al.	
	Examiner CHERYL P GIBSON BAYLOR	**Art Unit** OPET	**AIA (FITF) Status** Yes

1. THE REQUEST FILED 26 March 2022 IS **GRANTED** .

   The above-identified application has met the requirements for prioritized examination
   - A. ☑ for an original nonprovisional application (Track I).
   - B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:
   - A. filing a **petition for extension of time** to extend the time period for filing a reply;
   - B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;
   - C. filing a **request for continued examination** ;
   - D. filing a notice of appeal;
   - E. filing a request for suspension of action;
   - F. mailing of a notice of allowance;
   - G. mailing of a final Office action;
   - H. completion of examination as defined in 37 CFR 41.102; or
   - I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-03-25
First Named Inventor	Wersland, Jason
Art Unit	tbd
Examiner Name	not yet assigned
Attorney Docket Number	76840-5199

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10252051	B2	2019-04-09	Nichols	
	2	10737107	B2	2020-08-11	Ledany	
	3	9272141	B2	2016-03-01	Nichols	
	4	9872813	B2	2018-01-23	Giraud	
	5	10016337	B2	2018-07-10	Roberts	
	6	10278888	B2	2019-05-07	Sabattier	
	7	10511777	B2	2019-12-17	Nichols	
	8	1955863		1934-04-24	Schmidt	

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	Attorney Docket Number	76840-5199

	9	10661072	B2	2020-05-26	Kern	
	10	6535761	65	2003-03-18	Bernabei	
	11	8945104	65	2015-02-03	Boone, III	
	12	10137054	65	2018-11-27	Giraud	
	13	2183726		1939-12-19	Sommer	
	14	10307330	B1	2019-06-04	Sedic	
	15	9386837	B2	2016-07-12	Geva	
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	17	8540702	B2	2013-09-24	Ely	
	18	9808646	B2	2017-11-07	Piergallini	
	19	10625093	B2	2020-04-21	Shenfarber	

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	20	10821299	B1	2020-11-03	Shenfarber	
	21	7282036	B2	2007-10-16	Masuda	
	22	9084587	B2	2015-07-21	Eckhouse	
	23	7532926	B2	2009-05-12	Bernabei	
	24	6743215	B2	2004-06-01	Bernabei	
	25	8105322	B2	2012-01-31	Ely	
	26	7305269	B2	2007-12-04	Cook	
	27	6766199	B2	2004-07-20	Cook	
	28	8906009	B2	2014-12-09	Nebrigic	
	29	9023021	B2	2015-05-05	Behrakis	
	30	7376460	B2	2008-05-20	Bernabei	

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	31	9042993	B2	2015-05-26	Cook	
	32	9585687	B2	2017-03-07	Tenenbaum	
	33	10285722	B2	2019-05-14	Favie	
	34	8655448	B2	2014-02-18	Cook	
	35	8523791	B2	2013-09-03	Castel	
	36	9925006	B2	2018-03-27	Behrakis	
	37	7083580	B2	2006-08-01	Bernabei	
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	39	7010343	B2	2006-03-07	Bernabei	
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	42	8182473	B2	2012-05-22	Altshuler	
	43	5103809		1992-04-14	DeLuca	
	44	8382690	B2	2013-02-26	Yoon	
	45	4858600		1989-08-22	Gross	
	46	9278045	B2	2016-03-08	Scerbo	
	47	10881577	B2	2021-01-05	Hashimoto	
	48	10695508	B2	2020-06-30	Lorberbaum	
	49	10518097	B2	2019-12-31	Grez	
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	52	7258675	B2	2007-08-21	Nichols	

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	53	8157753	B2	2012-04-17	Nichols	
	54	8696605	B2	2014-04-15	Nichols	
	55	9272141	B2	2016-03-01	Nichols	
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	64	D765982	S	2016-09-13	Nichols	
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	66	7014639	B2	2006-03-21	Walneck	
	67	10758452	B2	2020-09-01	Wersland	
	68	6524329	B1	2003-02-25	Benedict	
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	3	20150283025	A1	2015-10-08	Ledany	
	4	20200280680	A1	2020-09-03	Nichols	
	5	20200253811	A1	2020-08-13	Alexander	
	6	20170128130	A1	2017-05-11	Giraud	
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	8	20100274162	A1	2010-10-28	Evans	
	9	20080014011	A1	2008-01-17	Rossen	
	10	20130012851	A1	2013-01-10	Fahmie	
	11	20180185236	A1	2018-07-05	Levi	
	12	20140323927	A1	2014-10-30	Kim	

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	13	20190240110	A1	2019-08-08	Sedic	
	14	20080125835	A1	2008-05-29	Laurent	
	15	20120109041	A1	2012-05-03	Munz	
	16	20100312157	A1	2010-12-09	Yan	
	17	20150100002	A1	2015-04-09	Choi	
	18	20170049278	A1	2017-02-23	Thomassen	
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	22	20170072175	A1	2017-03-16	Batiste	
	23	20170056685	A1	2017-03-02	Harvey	

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	25	20080103563	A1	2008-05-01	Powell	
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	27	20080215123	A1	2008-09-04	Maricle	
	28	20070239142	A1	2007-10-11	Altshuler	
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	31	20070198004	A1	2007-08-23	Altshuler	
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	33	20070213698	A1	2007-09-13	Altshuler	
	34	20080275532	A1	2008-11-06	Yamazaki	

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	36	20200113322	A1	2020-04-16	Balestrini	
	37	20070179573	A1	2007-08-02	Laurent	
	38	20100274329	A1	2010-10-28	Bradley	
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	42	20080193493	A1	2008-05-01	Rhoades	
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	44	20050043653	A1	2005-02-24	Trimmer	
	45	20080065176	A1	2008-03-13	Zhang	

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	46	20100121419	A1	2010-03-13	Douglas	
	47	20200038673	A1	2020-02-06	Yildirim	
	48	20170238686	A1	2017-08-24	Sanchez Martinez	
	49	20180133470	A1	2018-05-17	Park	
	50	20190343712	A1	2019-11-14	Cheng	
	51	20200288843	A1	2020-09-17	Verheem	
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	54	20160324719	A1	2016-11-10	Badmus	
	55	20200237085	A1	2020-07-30	Miller	
	56	20150045702	A1	2015-02-12	Lin	

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	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

	57	20140336540	A1	2014-11-13	Chen	
	58	20200268594	A1	2020-08-27	Pepe	
	59	20200237604	A1	2020-07-30	Truong	
	60	20150224020	A1	2015-08-13	Flyash	
	61	20200129372	A1	2020-04-30	Tseng	
	62	20040030325	A1	2004-02-12	Cahir	
	63	20140219701	A1	2014-08-07	Eberlein	
	64	20170202732	A1	2017-07-20	Nichols	
	65	20190262607	A1	2019-08-29	Nichols	
	66	20200280680	A1	2020-09-03	Nichols	
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	68	20200179220	A1	2020-06-11	Jablow	
	69	20180168318	A1	2018-06-21	Streeter	
	70	20180031090	A1	2018-02-01	Wong	
	71	20180031089	A1	2018-02-01	Wong	
	72	20170189670	A1	2017-07-06	Brunson	
	73	20150297393	A1	2015-10-22	McGushion	
	74	20150265825	A1	2015-09-24	Miller	
	75	20150119771	A1	2015-04-30	Roberts	
	76	20140276255	A1	2014-09-18	McGushion	
	77	20140128780	A1	2014-05-08	Kennedy	
	78	20130046212	A1	2013-02-21	Nichols	

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	79	20110106067	A1	2011-05-05	Geva	
	80	20110040235	A1	2011-02-17	Castel	
	81	20100274329	A1	2010-10-28	Bradley	
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	88	20200352317	A1	2020-11-12	Yeates	
	89	20200352306	A1	2020-11-12	Um	

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	90	20200093945	A1	2020-03-26	Jeong	
	91	20190388707	A1	2019-12-26	Shenfarber	
	92	20160184162	A1	2016-06-30	Grez	
	93	20140371637	A1	2014-12-18	Lee	
	94	20130060176	A	2013-03-07	Nichols	
	95	20200086137	A1	2020-03-19	Yoo	
	96	20140378555	A1	2014-12-25	Hung	
	97	20150305969	A1	2015-10-29	Giraud	
	98	20190254922	A1	2019-08-22	Marton	

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	1	2020163738	WO					
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	7	2020154177	WO					
	8	2019155210	WO	A2	2019-08-15	Jackson		

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	Examiner Name	not yet assigned
	Attorney Docket Number	76840-5199

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/brennan c. swain/	Date (YYYY-MM-DD)	2022-03-25
Name/Print	Brennan C. Swain	Registration Number	43175

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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/CHRISTOPHER E MILLER/ 06/08/2022

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PALM INTRANET

Day : Friday
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Inventor Name Search

Enter the first few letters of the Inventor's Last Name.
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Last Name	First Name	
Solana	Jaime	Search

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Additionally, enter the first few letters of the Inventor's First name.

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Nazarian	Benjamin	Search

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Bibliographic Data

Application No: 17/705,300

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /CHRISTOPHER E MILLER/ Examiner's Signature | Initials

Title: VIBRATING THERAPY SYSTEM AND DEVICE

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/26/2022	601	3785	76840-5199
RULE			

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Alex Zhu, Xiamen City, CHINA

Richard Tang, Shenzhen, CHINA

CONTINUING DATA

This application is a CIP of 17361966 06/29/2021 PAT 11331244

17361966 has PRO of 63133530 01/04/2021

17361966 has PRO of 63065348 08/13/2020

17361966 has PRO of 63045365 06/29/2020

yes, CEM 6/9/2022

FOREIGN APPLICATIONS

none, CEM 6/9/2022

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03/30/2022

STATE OR COUNTRY

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Enter the first few letters of the Inventor's Last Name.
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Last Name	First Name	
Zhu	Alex	Search

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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PGR2025-00013

		984"|"20130085556"|"20140261380"|"20160238040").PN.					
L36	200	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:17 PM

		US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or						

		US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-					

		4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$).did.					
L37	6	(("20130060176") or ("20200086137") or ("20140378555") or ("20150305969") or ("20190254922") or ("20190155210")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/27 11:38 AM
L38	204	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/27 11:41 AM

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PGR2025-00013

		US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or					

		US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or						

		US-20130060176-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-					

		4858600-$ or US-1772501-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$).did.					
L39	25	("20050075149" | "20060058714" | "20060253051" | "20070123808" | "20080119913" | "20080243039" | "20090177125" | "20090312691" | "20100049177" | "20100121419" | "20100210993" | "20100292746" | "20110098781" | "20110106067" | "20110184499" | "6026828" | "6443915" | "7384405" | "7748070").PN. OR ("10252051").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 04:38 PM
L40	40	("2183726"|"20090287195"|"20120121309"|"8375485"|"20100069898"|"20070260295"|"20070206986"|"20080172045"|"20090234423"|"20090088824"|"5358503"|"20110092863"|"20090048557"|"20110106067"|"20100312314"|"1228669"|"20080154162"|"20120209357"|"20050207148"|"20090048557"|"20110040235"|"20040000316"|"20030009158"|"20060287616"|"20080014011"|"6010264"|"6911010"|"7866840"|"20050135867"|"20090262516"|"5363045"|"7014639"|"5176130"|"5698866"|"20060287696"|"7896908"|"20110091265"|"20130144364"|"6221095").P	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 08:25 PM

		N.					
L41	62	("20130046212"|"20140114116"|"20150150599"|"20080214968"|"20110143286"|"20100081858"|"20060253051"|"20090005631"|"20120209357"|"20140128780"|"20150045702"|"5382222"|"5632720"|"6461377"|"20040030370"|"20060047330"|"20090088824"|"20100121419"|"20110144410"|"6746473"|"20040106842"|"20050131497"|"20070179333"|"20080172045"|"7803104"|"20070185553"|"20140088337"|"20070027411"|"20110040235"|"6979300"|"20050015030"|"20070073198"|"20070073366"|"20080262394"|"20160158568"|"20020115903"|"20070083074"|"8936542"|"20040260210"|"20100049177"|"20110133872"|"20140194668"|"20090048557"|"20090270779"|"20090287195"|"20140100410"|"5782858"|"20080246573"|"20100179456"|"6126589"|"6123657"|"20050070977"|"20090234423"|"20110106067"|"8257242"|"20050045189"|"20110032960"|"20130030506"|"6001055"|"6544164"|"6558310"|"9126034").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 08:41 PM
L42	338	a61h15/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:03 PM
L43	41681	a61h$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:42 PM
L44	1495	L43 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular head)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:43 PM
L45	676	L43 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:47 PM

		annular circular)					
L46	821	L43 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:47 PM
L47	663	a61n1/328.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:56 PM
L48	45	L47 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:56 PM
L49	39	("10314762" | "10357425" | "10492984" | "10561574" | "10702448" | "20060293711" | "20090270915" | "20140031866" | "20150005682" | "20150107383" | "20150182415" | "20160354277" | "20180008512" | "20180168913" | "20180200141" | "20180263845" | "20190209424" | "20190254921" | "20200261307" | "20200261310" | "20200276079" | "20200289365" | "20200330321" | "20200352820" | "20200352821" | "20200405574" | "4088128" | "4513737" | "4549535" | "4726430" | "4790296" | "4841955" | "5656017" | "6228042" | "6616621" | "6682496" | "8826547" | "9889066").PN. OR ("10993874").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 12:09 AM
L50	319	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 12:12 AM

		US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or					

		US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or						

		US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or						

		US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-					

		10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US-					

		2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$).did.					
L51	3	((16/258283) or (14/758347)).APP.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/29 01:47 PM
L52	622	(US-20200237085-$ or US-20150182290-$ or US-20160192814-$ or US-20150202114-$ or US-20150182246-$ or US-20130281894-$ or US-20120109041-$ or US-20100145242-$ or US-20200038673-$ or US-20180168318-$ or US-20160184175-$ or US-20160339219-$ or US-20160339218-$ or US-20160184177-$ or US-20160184176-$ or US-20150182078-$ or US-20180360203-$ or US-20180295980-$ or US-20160184162-$ or US-20200253811-$ or US-20200085684-$ or US-20150182415-$ or US-20140194900-$ or US-20190142691-$ or US-20190060159-$ or US-20180193219-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:50 PM

		$).did. or (US-20170172834-$ or US-20160058651-$ or US-20160331106-$ or US-20160074641-$ or US-20080306417-$ or US-20150297393-$ or US-20150305923-$ or US-20140276255-$ or US-20130085556-$ or US-20120165708-$ or US-20110040235-$ or US-20070179414-$ or US-20060211961-$ or US-20050107724-$ or US-20200315904-$ or US-20200222276-$ or US-20160213558-$ or US-20200170399-$ or US-20200154874-$ or US-20200038530-$ or US-20190191937-$ or US-20170332850-$ or US-20180361437-$ or US-20180140813-$ or US-20170367543-$ or US-20170367471-$ or US-20170360648-$).did. or (US-20170238686-$ or US-20170224098-$ or US-20170172837-$ or US-20170150851-$ or US-20150360014-$ or US-20160183743-$ or US-20150305969-$ or US-20140202493-$ or US-20150224020-$ or US-20150173998-$ or US-20150164733-$ or US-20150141884-$ or US-20140330289-$ or US-20140276281-$ or US-20030165550-$ or US-20060058714-$ or US-20060135319-$ or US-20040147984-$ or US-20200093945-$ or US-20190008718-$ or US-20180185236-$ or US-20180015299-$ or US-20160331308-$ or US-20170135894-$ or US-20160113836-$ or US-20160030279-$ or US-20150272774-$).did. or (US-20150150745-$ or US-20150119771-$ or US-					

		20140221737-$ or US-20120065556-$ or US-20090163984-$ or US-20080014011-$ or US-20070206986-$ or US-20060155225-$ or US-20060129072-$ or US-20060100558-$ or US-20050209537-$ or US-20050203445-$ or US-20050059909-$ or US-20020072693-$ or US-20030149381-$ or US-20030125648-$ or US-20020169398-$ or US-20170056685-$ or US-20160120375-$ or US-20160045081-$ or US-20150359324-$ or US-20150189980-$ or US-20150165179-$ or US-20150150754-$ or US-20120136289-$ or US-20090198159-$ or US-20090048557-$).did. or (US-20060122631-$ or US-20040171970-$ or US-20150173996-$ or US-20100198119-$ or US-20090177125-$ or US-20050277950-$ or US-20040015139-$ or US-20190126061-$ or US-20170367761-$ or US-20170035649-$ or US-20150265457-$ or US-20140128780-$ or US-20130197405-$ or US-20120209363-$ or US-20120209154-$ or US-20110009783-$ or US-20090088824-$ or US-20050049526-$ or US-20030009116-$ or US-20090222072-$ or US-20060258962-$ or US-20030014096-$ or US-20020086204-$ or US-20130085421-$ or US-20100274162-$ or US-20090270779-$ or US-20090043293-$).did. or (US-20040091663-$ or US-20030120185-$ or US-20030116452-$ or US-20130231594-$ or US-20130172792-$ or US-					

		20130012848-$ or US-20120265108-$ or US-20120172771-$ or US-20070287938-$ or US-20060235341-$ or US-20060060184-$ or US-20150057579-$ or US-20120265106-$ or US-20070129654-$ or US-20050085749-$ or US-20030100936-$ or US-20200100936-$ or US-20200069936-$ or US-20190290531-$ or US-20180214340-$ or US-20170189670-$ or US-20170181924-$ or US-20160074275-$ or US-20140309662-$ or US-20110270140-$ or US-20100087762-$ or US-20100056964-$).did. or (US-20080195001-$ or US-20070255187-$ or US-20070239086-$ or US-20070191745-$ or US-20040249322-$ or US-20040143199-$ or US-20040087881-$ or US-20040082983-$ or US-20210045521-$ or US-20200237604-$ or US-20060175909-$ or US-20200187635-$ or US-20200000294-$ or US-20200000293-$ or US-20170150810-$ or US-20180098615-$ or US-20180031090-$ or US-20180031089-$ or US-20170194849-$ or US-20170194848-$ or US-20160183670-$ or US-20160190902-$ or US-20160183671-$ or US-20160095413-$ or US-20160037902-$ or US-20150333609-$ or US-20150174387-$).did. or (US-20150065927-$ or US-20140367131-$ or US-20140305458-$ or US-20140096786-$ or US-20140088522-$ or US-20080262397-$ or US-20200411161-$ or US-20200405047-$ or US-					

		20200352317-$ or US-20200323337-$ or US-20190101170-$ or US-20200093252-$ or US-20180169682-$ or US-20200037747-$ or US-20200037746-$ or US-20200037745-$ or US-20190298036-$ or US-20190098976-$ or US-20190098975-$ or US-20190098974-$ or US-20190029411-$ or US-20190001503-$ or US-20180288160-$ or US-20180280233-$ or US-20180279762-$ or US-20180242711-$ or US-20180092449-$).did. or (US-20180042361-$ or US-20170326020-$ or US-20170189286-$ or US-20170189227-$ or US-20170188695-$ or US-20170119144-$ or US-20170014299-$ or US-20160324373-$ or US-20160206087-$ or US-20160184171-$ or US-20160015150-$ or US-20150265825-$ or US-20140366288-$ or US-20080138138-$ or US-20080255484-$ or US-20080087296-$ or US-20050020948-$ or US-20190239631-$ or US-20190014899-$ or US-20190008332-$ or US-20180361137-$ or US-20160270821-$ or US-20150257521-$ or US-20170347789-$ or US-20170119220-$ or US-20170071321-$ or US-20170042386-$).did. or (US-20160287034-$ or US-20160128461-$ or US-20150305487-$ or US-20150305486-$ or US-20150173842-$ or US-20140373003-$ or US-20140135665-$ or US-20130060176-$ or US-20130023901-$ or US-20120233798-$ or US-20120165710-$ or US-					

		20110044750-$ or US-20120037184-$ or US-20090083917-$ or US-20050278877-$ or US-20050278876-$ or US-20050199265-$ or US-20040210175-$ or US-20180093106-$ or US-20140303695-$ or US-20140261380-$ or US-20180361167-$ or US-20180352934-$ or US-20160184173-$ or US-20160129274-$ or US-20110220634-$ or US-20110200381-$).did. or (US-20200360178-$ or US-20080141681-$ or US-20210196504-$ or US-20190192873-$ or US-20200368062-$ or US-20180214304-$ or US-20190175396-$ or US-20190167330-$ or US-20130331914-$ or US-20180369064-$ or US-20080188915-$ or US-20080132976-$ or US-20150238349-$ or US-20160262930-$ or US-20160238040-$ or US-20140005759-$ or US-20150119962-$ or US-20140221880-$ or US-20130281893-$ or US-20120172956-$ or US-20120172955-$ or US-20120150268-$ or US-20200232720-$ or US-20200129327-$ or US-20080264464-$ or US-20080203080-$ or US-20080168605-$).did. or (US-20080086063-$ or US-20070225781-$ or US-20050209663-$ or US-20060135911-$ or US-20050149153-$ or US-20050131504-$ or US-20040249427-$ or US-20020107543-$ or US-20190148617-$ or US-20190133213-$ or US-20190117447-$ or US-20190106878-$ or US-20190101337-$ or US-20160223269-$ or US-					

		20140087105-$ or US-20120079647-$ or US-20040024438-$ or US-20080168595-$ or US-20080140166-$ or US-20060064147-$ or US-20040186541-$).did. or (US-10013875-$ or US-9386843-$ or US-2424699-$ or US-3699952-$ or US-9132058-$ or US-9032576-$ or US-7749178-$ or US-7384377-$ or US-5551949-$ or US-6730050-$ or US-6312397-$ or US-5072724-$ or US-9895285-$ or US-7481783-$ or US-6811539-$ or US-6511446-$ or US-5902256-$ or US-5462515-$ or US-5429585-$ or US-4884560-$ or US-4722326-$ or US-4702235-$ or US-4640284-$ or US-4604993-$ or US-4396011-$ or US-4291685-$).did. or (US-3710785-$ or US-1777151-$ or US-1844247-$ or US-2540792-$ or US-3467080-$ or US-3733634-$ or US-3775800-$ or US-3864779-$ or US-3968789-$ or US-4027348-$ or US-4397055-$ or US-4404965-$ or US-10722424-$ or US-10667985-$ or US-9642768-$ or US-9066844-$ or US-7644589-$ or US-5662593-$ or US-5131384-$ or US-4203431-$ or US-5423102-$ or US-5725483-$ or US-7695207-$ or US-7211057-$ or US-4526163-$ or US-					

		4724563-$ or US- 4799280-$).did. or (US- 4858600-$ or US- 5353461-$ or US- 5471695-$ or US- 5687442-$ or US- 5891063-$ or US- 5956792-$ or US- 5974615-$ or US- 6032313-$ or US- 6090085-$ or US- 9138257-$ or US- 7572238-$ or US- 7469703-$ or US- 7384405-$ or US- 7157816-$ or US- 5300095-$ or US- 4691693-$ or US- 4520799-$ or US- 3503395-$ or US- 2787998-$ or US- 10307330-$ or US- 9962284-$ or US- 7147610-$ or US- 6711750-$ or US- 6567696-$ or US- 6416534-$ or US- 6409748-$ or US- 6102875-$).did. or (US- 5918590-$ or US- 4685442-$ or US- 1703811-$ or US- 8777881-$ or US- 4010742-$ or US- 5725484-$ or US- 5577997-$ or US- 5176130-$ or US- 4577625-$ or US- 4427001-$ or US- 4086922-$ or US- 8372130-$ or US- 5775344-$ or US- 5327886-$ or US- 4925743-$ or US- 4559047-$ or US- 3804077-$ or US- 3298368-$ or US- 2698617-$ or US- 2385501-$ or US- 1911027-$ or US- 1714693-$ or US- 10188549-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8921746-$).did. or (US- 8882378-$ or US- 8864401-$ or US-					

		8715210-$ or US- 8620451-$ or US- 7959369-$ or US- 7322945-$ or US- 7128722-$ or US- 6648904-$ or US- 5556468-$ or US- 5690608-$ or US- 5336159-$ or US- 4920956-$ or US- 4787373-$ or US- 4655232-$ or US- 4441487-$ or US- 4087675-$ or US- 8523791-$ or US- 5989286-$ or US- 5131383-$ or US- 4944297-$ or US- 4745909-$ or US- 4502469-$ or US- 3382866-$ or US- 2809630-$ or US- 2638527-$ or US- 1840981-$ or US- 1634316-$).did. or (US- 7465296-$ or US- 7112178-$ or US- 6499485-$ or US- 5251620-$ or US- 4681095-$ or US- 10441496-$ or US- 10098808-$ or US- 9675516-$ or US- 8226699-$ or US- 6336907-$ or US- 6013042-$ or US- 8641702-$ or US- 10314763-$ or US- 8484788-$ or US- 10849421-$ or US- 9919437-$ or US- 7386906-$ or US- 9993059-$ or US- 9763508-$ or US- 8740917-$ or US- 8469909-$ or US- 5927289-$ or US- 5218955-$ or US- D864577-$ or US- 10426692-$ or US- 10058351-$ or US- 10058168-$).did. or (US-9596928-$ or US- 9578998-$ or US- D767897-$ or US- 9351559-$ or US- D715558-$ or US- 10080428-$ or US-					

		9474358-$ or US- 10856648-$ or US- 10736413-$ or US- 10681975-$ or US- 10603799-$ or US- 10588400-$ or US- 10531729-$ or US- 10518097-$ or US- 10349731-$ or US- 10194742-$ or US- 10182642-$ or US- 10021964-$ or US- 9925113-$ or US- 9801448-$ or US- 9380860-$ or US- 9301657-$ or US- 9107486-$ or US- 8966710-$ or US- 6170108-$ or US- 4476602-$ or US- 4158246-$).did. or (US- 6001070-$ or US- 6758826-$ or US- 9066778-$ or US- 9883982-$ or US- 5520617-$ or US- 3610232-$ or US- 2526190-$ or US- 7244237-$ or US- 6679857-$ or US- 2709432-$ or US- 2985166-$ or US- 6074413-$ or US- 5484366-$ or US- 7077858-$ or US- 4846176-$ or US- 5618275-$ or US- 5588161-$ or US- 5163446-$ or US- 5323778-$ or US- 9029736-$ or US- 6523354-$ or US- 10470922-$ or US- 9132031-$ or US- 6017337-$ or US- 6074414-$ or US- 5800490-$ or US- 4889970-$).did. or (US- 3967627-$).did. or (US- 3413973-$ or US- 3382866-$ or US- 3370583-$ or US- 2795224-$ or US- 2472385-$ or US- 2424699-$ or US- 2285105-$ or US- 1844247-$ or US- 1664009-$ or US-				

		2540792-$ or US-3467080-$ or US-1974031-$ or US-3503395-$ or US-2985166-$ or US-2261385-$ or US-2154428-$ or US-2097455-$ or US-2067979-$ or US-1703811-$ or US-2490074-$ or US-1969042-$ or US-1951776-$ or US-1905750-$ or US-1772501-$ or US-1731504-$ or US-3298368-$).did. or (US-2698617-$ or US-2385501-$ or US-2183726-$ or US-2176736-$ or US-2023412-$ or US-RE19043-$ or US-1947042-$ or US-1911027-$ or US-1714693-$ or US-1380986-$ or US-2809630-$ or US-2638527-$ or US-2546095-$ or US-2515524-$ or US-2021732-$ or US-1840981-$ or US-1833105-$ or US-1634316-$ or US-2787261-$ or US-2448797-$ or US-2208729-$ or US-1820895-$ or US-2465250-$ or US-2526190-$ or US-2709432-$ or US-2787998-$ or US-2593875-$).did. or (US-3154926-$).did.					
L53	663	a61n1/328.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:56 PM
L54	308	L53 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4 treatment therapy)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:56 PM
L55	105	L52 and (led diode light laser infrared IR	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:56 PM

		phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4 treatment therapy)					
L56	15	("20130171083"|"20120207532"|"20120282199"|"20150327653"|"20170049212"|"8734772"|"8591133"|"20110184334"|"20120109041"|"20130317416"|"20150139924"|"9456678"|"20030180690"|"20130131575"|"20120024308").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:00 PM
L57	396	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:20 PM

		20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-					

		20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-					

		20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-					

		20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-					

		20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-					

		5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-					

		1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L58	21	("20080139981"|"4669452"|"5183034"|"5899868"|"20090210027"|"5352188"|"20070270727"|"5063911"|"5065743"|"5356369"|"7153282"|"20030009116"|"20140309565"|"5103809"|"20140163437"|"0854983"|"3710785"|"6010467"|"6267738"|"20090240176"). PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:22 PM
L59	405	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:26 PM

		20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-					

		20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-					

		20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-					

		20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-					

		20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-					

		1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-					

		5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L60	29	(US-20110040235-$ or US-20040147984-$ or US-20090177125-$ or US-20090088824-$ or US-20090048557-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20190262607-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20140088668-$ or US-20130131559-$ or US-20200411161-$ or US-20200405047-$ or US-20200323337-$ or US-20200253811-$ or US-20180168318-$ or US-20170056685-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150119771-$).did. or (US-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:26 PM

		20140202493-$).did. or (US-5176130-$ or US-2490074-$).did.					
L61	2114	a61h2201/10.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:26 PM
L62	2869	a61n5/0616.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:27 PM
L63	660	a61n1/328.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:27 PM
L64	5246	L61 L62 L63	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:27 PM
L65	1242	L64 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet light?emitting) with (ring annular circular circle circumferen$4 detachab$4 removab$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:28 PM
L67	1192	L65 not L59	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:28 PM
L68	1152	L67 not (@ad>="20200629")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:28 PM
L69	1097	L68 and (skin massag$4 beauty)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:29 PM
L70	411	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:33 PM

		20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-					

		20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-					

		20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-					

		20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-					

		20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-					

		10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US-					

		2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L71	64	L70 and (proximity distance skin) near4 (sens$4 detect$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:34 PM
L72	53	("20040210277"|"20060030908"|"20070185553"|"20090240310"|"5233283"|"5259380"|"5420768"|"20070185553"|"20030167080"|"20050149150"|"20050261750"|"20070129778"|"20070191822"|"5783909"|"6239442"|"D576284"|"20050055070"|"20050283211"|"20060265030"|"20080052872"|"6210426"|"6	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 04:33 PM

		443978"|"6875225"|"20060184214"|"5920075"|"6063108"|"6221095"|"6283956"|"7201765"|"D575407"|"20080140164"|"20040244138"|"20050228463"|"20050234383"|"20060212025"|"20070032843"|"20070231193"|"20080103563"|"20080140164"|"6663659"|"20060129209"|"20060236496"|"20060293727"|"20070106347"|"20070167999"|"20080004611"|"5500009"|"5634711"|"5728090"|"RE40403"|"20060009822"|"4952369"|"7014639"|"20050065579"|"3970856").PN.					
L73	50	("4232678" | "4787373" | "4930504" | "5259380" | "5551949" | "5660836" | "5755752" | "6009876" | "6019482" | "6030374" | "6053906" | "6120497" | "6149644" | "6264652" | "6283956" | "6309387" | "6312397" | "6312450" | "6398753" | "6443915" | "6569109" | "6629971" | "6663659" | "6676655" | "6702837").PN. OR ("7014639").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 04:53 PM
L74	58	(US-20200085675-$ or US-20210128402-$ or US-20180031090-$ or US-20180031089-$ or US-20150265825-$ or US-20150297393-$ or US-20140276255-$ or US-20180295980-$ or US-20110040235-$ or US-20100121419-$ or US-20150045702-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20190126061-$ or US-20180168318-$ or US-20150360014-$ or US-20150119771-$ or US-20100274162-$ or US-20080103563-$ or US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 07:11 PM

		US-20200352820-$ or US-20210169733-$ or US-20200069510-$).did. or (US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$ or US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$).did. or (US-7014639-$ or US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$).did.					
L75	14	(US-20200179220-$ or US-20190350793-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20150119771-$ or US-20140128780-$ or US-20130046212-$ or US-20110040235-$ or US-20100121419-$).did. or (US-7014639-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 07:25 PM
L76	2	(("10857064") or ("10945915")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/30 03:31 PM
L77	2	(("6524329") or ("6974224")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/30 03:32 PM
L78	1	("10758452").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/30 03:35 PM

L79	431	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:44 PM

		US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or						

		US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or					

		US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or						

		US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or						

		US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-					

		6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US-					

		9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$ or US-9782604-$ or US-9592405-$ or US-7479136-$ or US-6702837-$ or US-6019482-$ or US-5551949-$ or US-6875225-$ or US-6974224-$ or US-6524329-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L80	41681	a61h$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:45 PM
L81	114530	a61n$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:45 PM
L82	32068	a46b$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:46 PM
L83	183250	L80 L81 L82	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:46 PM
L84	74	L83 and (proximity near4 (detect$4 sens$4)) near7 ("180" "180.deg.")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:46 PM
L85	74	L83 and (proximity near4 (detect$4 sens$4)) near7 ("180" "180.deg." "180.deg"$2)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:47 PM
L86	484	L83 and (proximity near4 (detect$4 sens$4)) near7 ("180" "180.deg." "180.deg"$2 degree second)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:49 PM
L87	410	L86 not L85	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:50 PM
L88	41681	a61h$.cpc.	(US-PGPUB; USPAT;	OR	ON	ON	2021/10/31

			USOCR)				01:11 PM
L89	114530	a61n$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L90	32068	a46b$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L91	183250	L88 L89 L90	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L92	103	L91 and (proximity near4 (detect$4 sens$4)) near7 (pair)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L93	448	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 09:57 PM

		20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-					

		20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-					

		20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or					

		US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or						

		US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$).did. or (US-10714953-$ or US-					

		6965375-$ or US- 6245890-$ or US- 7425947-$ or US- 10945915-$ or US- 10940081-$ or US- 10702448-$ or US- 10758452-$ or US- 10617588-$ or US- 10959911-$ or US- 10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US-				

		10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US-				

		3467080-$ or US-2490074-$ or US-2424699-$).did.					
L94	73	L93 and (electrode microcurrent micro?current)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 09:57 PM
L95	72	L94 not (@ad>="20200629")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 09:58 PM
L96	1	("7384405").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/31 10:01 PM
L97	1	("20120165710").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/31 10:01 PM
L98	65	(US-20200085675-$ or US-20210128402-$ or US-20180031090-$ or US-20180031089-$ or US-20150265825-$ or US-20150297393-$ or US-20140276255-$ or US-20140194790-$ or US-20180295980-$ or US-20170189670-$ or US-20110040235-$ or US-20110106067-$ or US-20100121419-$ or US-20150045702-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20100274329-$ or US-20100137752-$ or US-20190126061-$ or US-20180168318-$ or US-20150360014-$ or US-20150119771-$ or US-20100274162-$ or US-20080103563-$ or US-20070213698-$).did. or (US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 10:31 PM

		20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$ or US-20180149437-$).did. or (US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$).did. or (US-10511777-$ or US-7014639-$ or US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$).did.					
L99	17	(US-20200179220-$ or US-20190350793-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20150119771-$ or US-20140128780-$ or US-20130046212-$ or US-20110040235-$ or US-20100274329-$ or US-20100137752-$ or US-20100121419-$ or US-20070213698-$).did. or (US-7014639-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 10:42 PM
L100	16	(US-20200179220-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20150119771-$ or US-20140128780-$ or US-20130046212-$ or US-20110040235-$ or US-20100274329-$ or US-20100137752-$ or US-20100121419-$ or US-20070213698-$).did. or (US-7014639-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 10:57 PM

		$).did.					
L101	49	L98 not L100	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 11:06 PM
L102	2	(("20160367425") or ("20170027798")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/01 01:37 AM
L103	449	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 05:03 PM

		20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or					

		US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or						

		US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or					

		US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or					

		US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-						

		10758452-$ or US- 10617588-$ or US- 10959911-$ or US- 10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US-				

		5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US- 3467080-$ or US- 2490074-$ or US- 2424699-$).did.					
L104	155	L103 and (lotion oil	(US-PGPUB; USPAT;	OR	ON	ON	2021/11/03

		cosmetic)	USOCR)				05:27 PM
L105	2	(("20150119771") or ("20100121419")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/03 06:01 PM
L106	1	("20190015294").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/03 09:35 PM
L107	1	("20070213698").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/03 10:07 PM
L108	449	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 11:43 PM

		20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-					

		20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or					

		US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or					

		US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or					

		US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-					

		10945915-$ or US- 10940081-$ or US- 10702448-$ or US- 10758452-$ or US- 10617588-$ or US- 10959911-$ or US- 10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US-				

		7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US- 3467080-$ or US- 2490074-$ or US-				

		2424699-$).did.					
L109	88	L108 and (prevent$4 lock$4) with (cap cover attachment module)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 11:43 PM
L110	124	L108 and (prevent$4 lock$4) with (rotation reciprocat$4 tapping movement motion cap cover attachment module)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 11:43 PM
L111	126	L108 and (prevent$4 lock$4 cannot stop$4) with (rotation reciprocat$4 tapping movement motion cap cover)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 11:48 PM
L112	138	L108 and (prevent$4 lock$4 cannot stop$4 restrain$4 clamp$4) with (rotation reciprocat$4 tapping movement motion cap cover ring)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 12:18 AM
L113	144	L108 and (prevent$4 lock$4 cannot stop$4 restrain$4 clamp$4) with (rotation reciprocat$4 tapping movement motion cap cover collar ring)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 12:48 AM
L114	144	L108 and (prevent$4 lock$4 cannot stop$4 restrain$4 clamp$4) with (rotation reciprocat$4 tapping movement motion cap cover collar ring lid)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 01:22 AM
L115	353	L108 and (prevent$4 lock$4 cannot stop$4 restrain$4 clamp$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 01:39 AM
L116	988	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:04 AM
L117	16604647	"6"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:04 AM
L118	470	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:04 AM
L119	111	a61h2023/002.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:06 AM
L120	232	a61h23/008.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:06 AM
L121	2341	a61h23/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:06 AM
L122	128	a61h23/06.cpc.	(US-PGPUB; USPAT;	OR	ON	ON	2021/11/04

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PGR2025-00013

			USOCR)				11:06 AM
L123	988	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L124	16604647	"6"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L125	470	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L126	111	a61h2023/002.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L127	232	a61h23/008.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L128	2341	a61h23/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L129	128	a61h23/06.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:10 AM
L130	988	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L131	470	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L132	111	a61h2023/002.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L133	232	a61h23/008.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L134	2341	a61h23/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L135	128	a61h23/06.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L136	3619	L130 L131 L132 L133 L134 L135	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L137	1925	L136 and (lock$4 stop$4 restrain$4 clamp$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:12 AM
L138	560	L136 and (prevent$4 cannot limit) near5 (reciprocat$4 tap$4 movement motion move moving translat$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:13 AM
L139	2067	L137 L138	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:16 AM
L140	2	(("20130261516") or ("20170007498")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/04 11:18 AM
L141	667	L136 and (prevent$4 cannot limit restrict$4) near5 (reciprocat$4 tap$4 movement motion move moving translat$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 11:31 AM
L142	1	("20170027798").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/04 02:54 PM
L143	988	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM

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L144	470	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L145	111	a61h2023/002.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L146	232	a61h23/008.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L147	2341	a61h23/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L148	128	a61h23/06.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L149	3619	L143 L144 L145 L146 L147 L148	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L150	1925	L149 and (lock$4 stop$4 restrain$4 clamp$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L151	560	L149 and (prevent$4 cannot limit) near5 (reciprocat$4 tap$4 movement motion move moving translat$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L152	2067	L150 L151	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L153	606	L152 and (prevent$4 cannot limit lock$4 stop$4 restrain$4 restrict$4 clamp$4) near5 (lid cover cap plate head attach$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:00 PM
L154	692	L152 and (prevent$4 cannot limit lock$4 stop$4 restrain$4 restrict$4 clamp$4) near5 (lid cover cap plate head attach$4 collar ring)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 03:01 PM
L155	1	("20150045192").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/04 03:58 PM
L156	2	(("20150119771") or ("20100121419")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/04 04:03 PM
L157	1	(16/206703).APP.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/04 05:02 PM
L158	61	(US-20210195713-$ or US-20210187765-$ or US-20210154091-$ or US-20200275758-$ or US-20200237604-$ or US-20200215350-$ or US-20200170399-$ or US-20150182078-$ or US-20150182290-$ or US-20160331106-$ or US-20160256017-$ or US-20160128461-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 05:02 PM

		US-20140202493-$ or US-20110311296-$ or US-20160045081-$ or US-20180361437-$ or US-20160270821-$ or US-20150257521-$ or US-20180295980-$ or US-20090177125-$ or US-20080172112-$ or US-20080131834-$ or US-20070123808-$ or US-20050278876-$ or US-20050277950-$ or US-20180242711-$).did. or (US-20180092449-$ or US-20170119144-$ or US-20170071321-$ or US-20140366288-$ or US-20110138563-$ or US-20210196557-$ or US-20140194900-$ or US-20170367543-$ or US-20170202732-$ or US-20140336540-$ or US-20140309662-$ or US-20100222719-$ or US-20100145398-$ or US-20080167590-$ or US-20080125682-$ or US-20080125680-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20160184162-$ or US-20140107543-$ or US-20110041864-$ or US-20180325328-$ or US-20060285910-$).did. or (US-11076685-$ or US-4166473-$ or US-6029304-$ or US-9386843-$ or US-10966514-$ or US-9032576-$ or US-5725483-$ or US-4463485-$ or US-4203431-$ or US-5647841-$).did. or (WO-0156529-$ or CH-618857-$ or CH-616075-$ or CH-585047-$).did. or (WO-2015084962-$ or WO-2005006538-$ or US-20090177125-$ or US-20190029411-$ or EP-2700331-$).did.					

L159	61	(US-20210195713-$ or US-20210187765-$ or US-20210154091-$ or US-20200275758-$ or US-20200237604-$ or US-20200215350-$ or US-20200170399-$ or US-20150182078-$ or US-20150182290-$ or US-20160331106-$ or US-20160256017-$ or US-20160128461-$ or US-20140202493-$ or US-20110311296-$ or US-20160045081-$ or US-20180361437-$ or US-20160270821-$ or US-20150257521-$ or US-20180295980-$ or US-20090177125-$ or US-20080172112-$ or US-20080131834-$ or US-20070123808-$ or US-20050278876-$ or US-20050277950-$ or US-20180242711-$).did. or (US-20180092449-$ or US-20170119144-$ or US-20170071321-$ or US-20140366288-$ or US-20110138563-$ or US-20210196557-$ or US-20140194900-$ or US-20170367543-$ or US-20170202732-$ or US-20140336540-$ or US-20140309662-$ or US-20100222719-$ or US-20100145398-$ or US-20080167590-$ or US-20080125682-$ or US-20080125680-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20160184162-$ or US-20140107543-$ or US-20110041864-$ or US-20180325328-$ or US-20060285910-$).did. or (US-11076685-$ or US-4166473-$ or US-6029304-$ or US-9386843-$ or US-10966514-$ or US-9032576-$ or US-5725483-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 08:56 PM

		4463485-$ or US-4203431-$ or US-5647841-$).did. or (WO-0156529-$ or CH-618857-$ or CH-616075-$ or CH-585047-$).did. or (WO-2015084962-$ or WO-2005006538-$ or US-20090177125-$ or US-20190029411-$ or EP-2700331-$).did.					
L160	30	L159 and (lock$4 stop$4 restrain$4 clamp$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/04 08:56 PM
L161	1	("20190015294").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/04 09:51 PM
L162	29	(US-20200085675-$ or US-20210128402-$ or US-20180031090-$ or US-20180031089-$ or US-20150265825-$ or US-20150297393-$ or US-20140276255-$ or US-20140194790-$ or US-20180295980-$ or US-20170189670-$ or US-20110040235-$ or US-20110106067-$ or US-20100121419-$ or US-20150045702-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20100274329-$ or US-20100137752-$ or US-20190126061-$ or US-20180168318-$ or US-20150360014-$ or US-20150119771-$ or US-20100274162-$ or US-20080103563-$ or US-20070213698-$).did. or (US-20150045192-$).did. or (US-10511777-$ or US-7014639-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/11/04 10:06 PM
L163	22	(US-20210128402-$ or US-20200179220-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20170189670-$ or US-20150297393-$ or US-20150265825-$ or US-20150119771-$ or US-20140276255-$ or	(US-PGPUB; USPAT)	OR	ON	ON	2021/11/04 10:07 PM

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		US-20140128780-$ or US-20130046212-$ or US-20110106067-$ or US-20110040235-$ or US-20100274329-$ or US-20100274162-$ or US-20100137752-$ or US-20100121419-$ or US-20080103563-$ or US-20070213698-$).did. or (US-10511777-$ or US-7014639-$).did.					
L164	1	("20120310124").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/05 02:48 PM
L165	518	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/22 04:37 PM

		20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-					

		20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-					

		20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-					

		20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or					

		(US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or					

		US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or						

		US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or					

		(US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$ or US-9782604-$ or US-9592405-$ or US-7479136-$ or US-6702837-$ or US-6019482-$ or US-5551949-$ or US-6875225-$ or US-6974224-$ or US-6524329-$ or US-6221095-$ or US-4561440-$ or US-7384405-$ or US-10272011-$ or US-5067480-$ or US-4716890-$).did. or (US-11076685-$ or US-10966514-$ or US-9386843-$ or US-5725483-$ or US-					

		5647841-$ or US-4203431-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$).did.					
L166	4	(("20150119771") or ("20190015294") or ("20100121419") or ("20120310124")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 11:03 AM
L167	1	(17/361966).APP.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 12:19 PM
L168	518	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:16 AM

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		20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-					

		20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-					

		20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-					

		20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-					

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		20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-					

		20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-					

		4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$ or US-9782604-$ or US-9592405-$ or US-7479136-$ or US-6702837-$ or US-6019482-$ or US-5551949-$ or US-6875225-$ or US-6974224-$ or US-					

		6524329-$ or US-6221095-$ or US-4561440-$ or US-7384405-$ or US-10272011-$ or US-5067480-$ or US-4716890-$).did. or (US-11076685-$ or US-10966514-$ or US-9386843-$ or US-5725483-$ or US-5647841-$ or US-4203431-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$).did.					
L169	5	(US-20200179220-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$).did.	(US-PGPUB)	OR	ON	ON	2022/02/15 12:17 AM
L170	1	("4397055").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/15 12:20 AM
L171	145	("10252051"|"10737107"|"1955863"|"20080014011"|"20080125835"|"20130012851"|"20140219701"|"20170202732"|"20200113322"|"7305269"|"8105322"|"9272141"|"9386837"|"9872813"|"D803572"|"20100137752"|"20100274162"|"20130046212"|"20150265825"|"10016337"|"10285722"|"20040147984"|"20070179573"|"20080103563"|"20080215123"|"20110184499"|"20120065555"|"20140288364"|"20150045702"|"20150	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:21 AM

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

		100002"|"20150283025 "|"20170072175"|"2017 0238686"|"2018013347 0"|"20190262607"|"202 00038673"|"202002888 43"|"4858600"|"510380 9"|"7010343"|"8696605" |"9579250"|"201001214 19"|"20070213698"|"20 140128780"|"20170189 670"|"20180168318"|"7 014639"|"10124165"|"1 0137054"|"10307330"|" 10383486"|"10625093"| "20080119913"|"20120 109041"|"20140135798 "|"20150224020"|"2018 0015299"|"2020025381 1"|"20200390468"|"202 10001148"|"2183726"|" 6748266"|"7083580"|"7 204832"|"7471979"|"81 57753"|"8182473"|"865 5448"|"D693932"|"D736 399"|"10511777"|"1069 5508"|"10881577"|"200 40030325"|"200500436 53"|"20070198004"|"20 070213696"|"20090234 338"|"20140323927"|"2 0170049278"|"2017012 8130"|"20180185236"|" 20200129372"|"202002 37085"|"7282036"|"850 6506"|"9925006"|"2010 0274329"|"2012031012 4"|"20180031090"|"102 78888"|"20070038206"| "20100274162"|"20100 274329"|"20200280680 "|"6766199"|"6980854"|" 8945104"|"9808646"|"1 0376659"|"10661072"|" 10821299"|"200702391 42"|"20070239143"|"20 100121419"|"20100312 157"|"20140336540"|"2 0160324719"|"2019034 3712"|"7258675"|"7376 460"|"8906009"|"90230 21"|"9042993"|"200801 03563"|"20110106067"| "20140276255"|"20150 297393"|"20070213698 "|"20080065176"|"2009 0287195"|"2017005668 5"|"20190240110"|"202 00215351"|"202002376						

		04"|"6535761"|"6743215"|"8523791"|"8540702"|"9084587"|"9278045"|"D764173"|"D765982"|"20110040235"|"20150119771"|"20210128402"|"10511777"|"10518097"|"20080103560"|"20080193493"|"20080275532"|"20090043293"|"20200268594"|"7532926"|"8382690"|"9585687"|"20180031089"|"20200179220").PN.					
L172	23	(US-20210128402-$ or US-20180031090-$ or US-20180031089-$ or US-20150265825-$ or US-20150297393-$ or US-20140276255-$ or US-20170189670-$ or US-20110040235-$ or US-20110106067-$ or US-20100121419-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20100274329-$ or US-20100137752-$ or US-20180168318-$ or US-20150119771-$ or US-20100274162-$ or US-20080103563-$ or US-20070213698-$ or US-20120310124-$).did. or (US-10511777-$ or US-7014639-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/15 12:21 AM
L173	0	L172 not L171	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:21 AM
L174	78	("2484471" | "3270360" | "3661018" | "3699952" | "4084280").PN. OR ("4397055").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:23 AM
L175	9	("6349442"|"4355545"|"10731716"|"20160183671"|"2808828"|"6140723"|"10087996"|"4397055").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:25 AM
L176	13	("6349442"|"5321865"|"20160183671"|"4273458"|"2808828"|"8087116"|"6140723"|"3491279"|"2548411"|"4397055").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:26 AM
L177	15740163	L176 no L175	(US-PGPUB; USPAT;	OR	ON	ON	2022/02/15

			USOCR)				12:26 AM
L178	7	L176 not L175	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:26 AM
L179	524	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:36 AM

		(US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or						

		US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or						

		US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or						

		US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or						

		US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or						

		US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-					

		10758452-$ or US- 10617588-$ or US- 10959911-$ or US- 10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US-					

		5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US-					

		1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$).did.					
L180	299	a46b2200/102.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:38 AM
L181	0	a45d.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:39 AM
L182	4717	a45d34/04,041,042.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:39 AM
L183	4997	L180 L182	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:40 AM
L184	430	L183 and (reciprocat$4 tap tapped tapping)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/15 12:40 AM
L185	1	("20050138740").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/15 12:47 AM
L186	542	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/26 08:53 PM

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		20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-					

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		5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US-					

		5103809-$ or US-3710785-$ or US-9782604-$ or US-9592405-$ or US-7479136-$ or US-6702837-$ or US-6019482-$ or US-5551949-$ or US-6875225-$ or US-6974224-$ or US-6524329-$ or US-6221095-$ or US-4561440-$ or US-7384405-$ or US-10272011-$ or US-5067480-$ or US-4716890-$).did. or (US-11076685-$ or US-10966514-$ or US-9386843-$ or US-5725483-$ or US-5647841-$ or US-4203431-$ or US-4397055-$ or US-8028707-$ or US-7793419-$ or US-3699952-$ or US-2548411-$ or US-9801448-$ or US-7063476-$ or US-5073058-$ or US-4991749-$ or US-4930923-$ or US-4883380-$ or US-4723860-$ or US-4171171-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$).did.					
L187	542	(US-20210244611-$ or US-20210244610-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:18 PM

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		US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or					

		US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or						

		US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or						

		US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or						

		US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or						

		US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or						

		US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-					

		10945915-$ or US- 10940081-$ or US- 10702448-$ or US- 10758452-$ or US- 10617588-$ or US- 10959911-$ or US- 10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US-				

		7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US-				

		5073058-$ or US-4991749-$ or US-4930923-$ or US-4883380-$ or US-4723860-$ or US-4171171-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$).did.					
L188	3	(("20150119771") or ("20100121419") or ("20180031090")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/28 10:22 PM
L189	250	L187 and (detach$4 attach$4 remov$4) with (membrane cap layer capping skin cushion$4 cosmetic$4 lotion)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:33 PM
L190	347	L187 and (detach$4 attach$4 remov$4) with (membrane cap layer capping skin cushion$4 cosmetic$4 lotion cover$3 applicator surface)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:37 PM
L191	347	L187 and (detach$4 attach$4 remov$4) with (membrane cap layer capping skin cushion$4 cosmetic$4 lotion cover$3 applicator surface medicine medicament)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:38 PM
L192	348	L187 and (detach$4 attach$4 remov$4) with (membrane cap layer capping skin cushion$4 cosmetic$4 lotion cover$3 applicator surface medicine	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:39 PM

		medicament disposable hygien$4)					
L193	333	L192 not (@ad>="20200629")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:41 PM
L194	349	L187 and (detach$4 attach$4 remov$4) with (membrane cap layer capping skin cushion$4 cosmetic$4 lotion cover$3 applicator surface medicine medicament disposable hygien$4 pad padded padding antimicrobial anti?microb$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:50 PM
L195	334	L194 not (@ad>="20200629")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:52 PM
L196	145	("10252051"|"10737107"|"1955863"|"20080014011"|"20080125835"|"20130012851"|"20140219701"|"20170202732"|"20200113322"|"7305269"|"8105322"|"9272141"|"9386837"|"9872813"|"D803572"|"20100137752"|"20100274162"|"20130046212"|"20150265825"|"10016337"|"10285722"|"20040147984"|"20070179573"|"20080103563"|"20080215123"|"20110184499"|"20120065555"|"20140288364"|"20150045702"|"20150100002"|"20150283025"|"20170072175"|"20170238686"|"20180133470"|"20190262607"|"20200038673"|"20200288843"|"4858600"|"5103809"|"7010343"|"8696605"|"9579250"|"20100121419"|"20070213698"|"20140128780"|"20170189670"|"20180168318"|"7014639"|"10124165"|"10137054"|"10307330"|"10383486"|"10625093"|"20080119913"|"20120109041"|"20140135798"|"20150224020"|"20180015299"|"20200253811"|"20200390468"|"20210001148"|"2183726"|"6748266"|"7083580"|"7204832"|"7471979"|"81	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:58 PM

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		57753"|"8182473"|"865 5448"|"D693932"|"D736 399"|"10511777"|"1069 5508"|"10881577"|"200 40030325"|"200500436 53"|"20070198004"|"20 070213696"|"20090234 338"|"20140323927"|"2 0170049278"|"2017012 8130"|"20180185236"|" 20200129372"|"202002 37085"|"7282036"|"850 6506"|"9925006"|"2010 0274329"|"2012031012 4"|"20180031090"|"102 78888"|"20070038206"| "20100274162"|"20100 274329"|"20200280680 "|"6766199"|"6980854"|" 8945104"|"9808646"|"1 0376659"|"10661072"|" 10821299"|"200702391 42"|"20070239143"|"20 100121419"|"20100312 157"|"20140336540"|"2 0160324719"|"2019034 3712"|"7258675"|"7376 460"|"8906009"|"90230 21"|"9042993"|"200801 03563"|"20110106067"| "20140276255"|"20150 297393"|"20070213698 "|"20080065176"|"2009 0287195"|"2017005668 5"|"20190240110"|"202 00215351"|"202002376 04"|"6535761"|"674321 5"|"8523791"|"8540702" |"9084587"|"9278045"|" D764173"|"D765982"|"2 0110040235"|"2015011 9771"|"20210128402"|" 10511777"|"10518097"| "20080103560"|"20080 193493"|"20080275532 "|"20090043293"|"2020 0268594"|"7532926"|"8 382690"|"9585687"|"20 180031089"|"20200179 220").PN.					
L197	7	(US-20200009010-$ or US-20160184162-$ or US-20200352317-$ or US-20200237604-$ or US-20200352306-$ or US-20190388707-$).did. or (US-4397055-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/28 10:58 PM

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L198	6	L197 not L196	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/02/28 10:58 PM
L199	1	("20120165710").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/28 11:26 PM
L200	542	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/03 09:49 PM

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		20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or						

		US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or						

		US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or						

		US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or					

		US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or						

		US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or						

		US-20110270274-$ or US-20040249320-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-					

		7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US-					

		4397055-$ or US-8028707-$ or US-7793419-$ or US-3699952-$ or US-2548411-$ or US-9801448-$ or US-7063476-$ or US-5073058-$ or US-4991749-$ or US-4930923-$ or US-4883380-$ or US-4723860-$ or US-4171171-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$).did.					
L201	327	(reciprocat$4 percuss$4 oscillat$4).clm. with (electric$4 light) with (detach$4 removab$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/04 10:58 AM
L207	1	("20140371637").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/04 02:52 PM
L208	7	("2014/0371637").URPN.	(USPAT)	OR	ON	ON	2022/03/04 02:56 PM
L209	28	("20030083720" | "20030163068" | "20040006332" | "20050070827" | "20060247742" | "20080282437" | "20100004570" | "20100049177" | "20110138556" | "20110251523" | "20120109043" | "20120265274" | "20130046212" | "20140128780" | "20140163437" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/04 03:51 PM

		"20140371637" | "20150133832" | "20150351999" | "20150360024" | "20160074641" | "20160121108" | "3467080" | "3585990" | "5176130" | "7914523" | "9987185").PN. OR ("10307330").URPN.					
L210	1020	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/04 03:51 PM
L211	9	(US-20160074641-$ or US-20150360024-$ or US-20150351999-$ or US-20150133832-$ or US-20140371637-$ or US-20140163437-$ or US-20140128780-$ or US-20130046212-$ or US-20120265274-$).did.	(US-PGPUB)	OR	ON	ON	2022/03/04 03:52 PM
L212	7	(US-20160184162-$ or US-20200352317-$ or US-20200093945-$ or US-20200352306-$ or US-20190388707-$ or US-20140371637-$).did. or (US-4397055-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/05 10:58 PM
L213	545	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/05 11:12 PM

		$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-					

		20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-					

		20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-					

		20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-					

		20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-					

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PGR2025-00013

		20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-					

		20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-					

		10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-					

		9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$).did. or (US-3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US- 3467080-$ or US-				

		2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$).did.					
L217	3	(("20170027735") or ("20050059908") or ("20150190249")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/30 09:55 PM
L218	636	(US-20200237085-$ or US-20150182290-$ or US-20160192814-$ or US-20150202114-$ or US-20150182246-$ or US-20130281894-$ or US-20120109041-$ or US-20100145242-$ or US-20200038673-$ or US-20180168318-$ or US-20160184175-$ or US-20160339219-$ or US-20160339218-$ or US-20160184177-$ or US-20160184176-$ or US-20150182078-$ or US-20180360203-$ or US-20180295980-$ or US-20160184162-$ or US-20200253811-$ or US-20200085684-$ or US-20150182415-$ or US-20140194900-$ or US-20190142691-$ or US-20190060159-$ or US-20180193219-$).did. or (US-20170172834-$ or US-20160058651-$ or US-20160331106-$ or US-20160074641-$ or US-20080306417-$ or US-20150297393-$ or US-20150305923-$ or US-20140276255-$ or US-20130085556-$ or US-20120165708-$ or US-20110040235-$ or US-20070179414-$ or US-20060211961-$ or US-20050107724-$ or US-20200315904-$ or US-20200222276-$ or US-20160213558-$ or US-20200170399-$ or US-20200154874-$ or US-20200038530-$ or US-20190191937-$ or US-20170332850-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/31 10:37 AM

		20180361437-$ or US-20180140813-$ or US-20170367543-$ or US-20170367471-$ or US-20170360648-$).did. or (US-20170238686-$ or US-20170224098-$ or US-20170172837-$ or US-20170150851-$ or US-20150360014-$ or US-20160183743-$ or US-20150305969-$ or US-20140202493-$ or US-20150224020-$ or US-20150173998-$ or US-20150164733-$ or US-20150141884-$ or US-20140330289-$ or US-20140276281-$ or US-20030165550-$ or US-20060058714-$ or US-20060135319-$ or US-20040147984-$ or US-20200093945-$ or US-20190008718-$ or US-20180185236-$ or US-20180015299-$ or US-20160331308-$ or US-20170135894-$ or US-20160113836-$ or US-20160030279-$ or US-20150272774-$).did. or (US-20150150745-$ or US-20150119771-$ or US-20140221737-$ or US-20120065556-$ or US-20090163984-$ or US-20080014011-$ or US-20070206986-$ or US-20060155225-$ or US-20060129072-$ or US-20060100558-$ or US-20050209537-$ or US-20050203445-$ or US-20050059909-$ or US-20020072693-$ or US-20030149381-$ or US-20030125648-$ or US-20020169398-$ or US-20170056685-$ or US-20160120375-$ or US-20160045081-$ or US-20150359324-$ or US-20150189980-$ or US-20150165179-$ or US-20150150754-$ or US-20120136289-$ or US-					

		20090198159-$ or US-20090048557-$).did. or (US-20060122631-$ or US-20040171970-$ or US-20150173996-$ or US-20100198119-$ or US-20090177125-$ or US-20050277950-$ or US-20040015139-$ or US-20190126061-$ or US-20170367761-$ or US-20170035649-$ or US-20150265457-$ or US-20140128780-$ or US-20130197405-$ or US-20120209363-$ or US-20120209154-$ or US-20110009783-$ or US-20090088824-$ or US-20050049526-$ or US-20030009116-$ or US-20090222072-$ or US-20060258962-$ or US-20030014096-$ or US-20020086204-$ or US-20130085421-$ or US-20100274162-$ or US-20090270779-$ or US-20090043293-$).did. or (US-20040091663-$ or US-20030120185-$ or US-20030116452-$ or US-20130231594-$ or US-20130172792-$ or US-20130012848-$ or US-20120265108-$ or US-20120172771-$ or US-20070287938-$ or US-20060235341-$ or US-20060060184-$ or US-20150057579-$ or US-20120265106-$ or US-20070129654-$ or US-20050085749-$ or US-20030100936-$ or US-20200100936-$ or US-20200069936-$ or US-20190290531-$ or US-20180214340-$ or US-20170189670-$ or US-20170181924-$ or US-20160074275-$ or US-20140309662-$ or US-20110270140-$ or US-20100087762-$ or US-20100056964-$).did. or (US-20080195001-$ or					

		US-20070255187-$ or US-20070239086-$ or US-20070191745-$ or US-20040249322-$ or US-20040143199-$ or US-20040087881-$ or US-20040082983-$ or US-20210045521-$ or US-20200237604-$ or US-20060175909-$ or US-20200187635-$ or US-20200000294-$ or US-20200000293-$ or US-20170150810-$ or US-20180098615-$ or US-20180031090-$ or US-20180031089-$ or US-20170194849-$ or US-20170194848-$ or US-20160183670-$ or US-20160190902-$ or US-20160183671-$ or US-20160095413-$ or US-20160037902-$ or US-20150333609-$ or US-20150174387-$).did. or (US-20150065927-$ or US-20140367131-$ or US-20140305458-$ or US-20140096786-$ or US-20140088522-$ or US-20080262397-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20190101170-$ or US-20200093252-$ or US-20180169682-$ or US-20200037747-$ or US-20200037746-$ or US-20200037745-$ or US-20190298036-$ or US-20190098976-$ or US-20190098975-$ or US-20190098974-$ or US-20190029411-$ or US-20190001503-$ or US-20180288160-$ or US-20180280233-$ or US-20180279762-$ or US-20180242711-$ or US-20180092449-$).did. or (US-20180042361-$ or US-20170326020-$ or US-20170189286-$ or US-20170189227-$ or						

		US-20170188695-$ or US-20170119144-$ or US-20170014299-$ or US-20160324373-$ or US-20160206087-$ or US-20160184171-$ or US-20160015150-$ or US-20150265825-$ or US-20140366288-$ or US-20080138138-$ or US-20080255484-$ or US-20080087296-$ or US-20050020948-$ or US-20190239631-$ or US-20190014899-$ or US-20190008332-$ or US-20180361137-$ or US-20160270821-$ or US-20150257521-$ or US-20170347789-$ or US-20170119220-$ or US-20170071321-$ or US-20170042386-$).did. or (US-20160287034-$ or US-20160128461-$ or US-20150305487-$ or US-20150305486-$ or US-20150173842-$ or US-20140373003-$ or US-20140135665-$ or US-20130060176-$ or US-20130023901-$ or US-20120233798-$ or US-20120165710-$ or US-20110044750-$ or US-20120037184-$ or US-20090083917-$ or US-20050278877-$ or US-20050278876-$ or US-20050199265-$ or US-20040210175-$ or US-20180093106-$ or US-20140303695-$ or US-20140261380-$ or US-20180361167-$ or US-20180352934-$ or US-20160184173-$ or US-20160129274-$ or US-20110220634-$ or US-20110200381-$).did. or (US-20200360178-$ or US-20080141681-$ or US-20210196504-$ or US-20190192873-$ or US-20200368062-$ or US-20180214304-$ or US-20190175396-$ or					

		US-20190167330-$ or US-20130331914-$ or US-20180369064-$ or US-20080188915-$ or US-20080132976-$ or US-20150238349-$ or US-20160262930-$ or US-20160238040-$ or US-20140005759-$ or US-20150119962-$ or US-20140221880-$ or US-20130281893-$ or US-20120172956-$ or US-20120172955-$ or US-20120150268-$ or US-20200232720-$ or US-20200129327-$ or US-20080264464-$ or US-20080203080-$ or US-20080168605-$).did. or (US-20080086063-$ or US-20070225781-$ or US-20050209663-$ or US-20060135911-$ or US-20050149153-$ or US-20050131504-$ or US-20040249427-$ or US-20020107543-$ or US-20190148617-$ or US-20190133213-$ or US-20190117447-$ or US-20190106878-$ or US-20190101337-$ or US-20160223269-$ or US-20140087105-$ or US-20120079647-$ or US-20040024438-$ or US-20080168595-$ or US-20080140166-$ or US-20060064147-$ or US-20040186541-$ or US-20200397611-$ or US-20190201072-$ or US-20190104774-$ or US-20170273821-$ or US-20090264971-$ or US-20210236859-$).did. or (US-20200050248-$ or US-20090287195-$ or US-20110202048-$ or US-20030163176-$ or US-20160346162-$).did. or (US-10013875-$ or US-9386843-$ or US-2424699-$ or US-3699952-$ or US-					

		9132058-$ or US- 9032576-$ or US- 7749178-$ or US- 7384377-$ or US- 5551949-$ or US- 6730050-$ or US- 6312397-$ or US- 5072724-$ or US- 9895285-$ or US- 7481783-$ or US- 6811539-$ or US- 6511446-$ or US- 5902256-$ or US- 5462515-$ or US- 5429585-$ or US- 4884560-$ or US- 4722326-$ or US- 4702235-$ or US- 4640284-$ or US- 4604993-$ or US- 4396011-$ or US- 4291685-$).did. or (US- 3710785-$ or US- 1777151-$ or US- 1844247-$ or US- 2540792-$ or US- 3467080-$ or US- 3733634-$ or US- 3775800-$ or US- 3864779-$ or US- 3968789-$ or US- 4027348-$ or US- 4397055-$ or US- 4404965-$ or US- 10722424-$ or US- 10667985-$ or US- 9642768-$ or US- 9066844-$ or US- 7644589-$ or US- 5662593-$ or US- 5131384-$ or US- 4203431-$ or US- 5423102-$ or US- 5725483-$ or US- 7695207-$ or US- 7211057-$ or US- 4526163-$ or US- 4724563-$ or US- 4799280-$).did. or (US- 4858600-$ or US- 5353461-$ or US- 5471695-$ or US- 5687442-$ or US- 5891063-$ or US- 5956792-$ or US- 5974615-$ or US- 6032313-$ or US- 6090085-$ or US-				

		9138257-$ or US- 7572238-$ or US- 7469703-$ or US- 7384405-$ or US- 7157816-$ or US- 5300095-$ or US- 4691693-$ or US- 4520799-$ or US- 3503395-$ or US- 2787998-$ or US- 10307330-$ or US- 9962284-$ or US- 7147610-$ or US- 6711750-$ or US- 6567696-$ or US- 6416534-$ or US- 6409748-$ or US- 6102875-$).did. or (US- 5918590-$ or US- 4685442-$ or US- 1703811-$ or US- 8777881-$ or US- 4010742-$ or US- 5725484-$ or US- 5577997-$ or US- 5176130-$ or US- 4577625-$ or US- 4427001-$ or US- 4086922-$ or US- 8372130-$ or US- 5775344-$ or US- 5327886-$ or US- 4925743-$ or US- 4559047-$ or US- 3804077-$ or US- 3298368-$ or US- 2698617-$ or US- 2385501-$ or US- 1911027-$ or US- 1714693-$ or US- 10188549-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8921746-$).did. or (US- 8882378-$ or US- 8864401-$ or US- 8715210-$ or US- 8620451-$ or US- 7959369-$ or US- 7322945-$ or US- 7128722-$ or US- 6648904-$ or US- 5556468-$ or US- 5690608-$ or US- 5336159-$ or US- 4920956-$ or US- 4787373-$ or US-					

		4655232-$ or US- 4441487-$ or US- 4087675-$ or US- 8523791-$ or US- 5989286-$ or US- 5131383-$ or US- 4944297-$ or US- 4745909-$ or US- 4502469-$ or US- 3382866-$ or US- 2809630-$ or US- 2638527-$ or US- 1840981-$ or US- 1634316-$).did. or (US- 7465296-$ or US- 7112178-$ or US- 6499485-$ or US- 5251620-$ or US- 4681095-$ or US- 10441496-$ or US- 10098808-$ or US- 9675516-$ or US- 8226699-$ or US- 6336907-$ or US- 6013042-$ or US- 8641702-$ or US- 10314763-$ or US- 8484788-$ or US- 10849421-$ or US- 9919437-$ or US- 7386906-$ or US- 9993059-$ or US- 9763508-$ or US- 8740917-$ or US- 8469909-$ or US- 5927289-$ or US- 5218955-$ or US- D864577-$ or US- 10426692-$ or US- 10058351-$ or US- 10058168-$).did. or (US-9596928-$ or US- 9578998-$ or US- D767897-$ or US- 9351559-$ or US- D715558-$ or US- 10080428-$ or US- 9474358-$ or US- 10856648-$ or US- 10736413-$ or US- 10681975-$ or US- 10603799-$ or US- 10588400-$ or US- 10531729-$ or US- 10518097-$ or US- 10349731-$ or US- 10194742-$ or US- 10182642-$ or US-					

		10021964-$ or US- 9925113-$ or US- 9801448-$ or US- 9380860-$ or US- 9301657-$ or US- 9107486-$ or US- 8966710-$ or US- 6170108-$ or US- 4476602-$ or US- 4158246-$).did. or (US- 6001070-$ or US- 6758826-$ or US- 9066778-$ or US- 9883982-$ or US- 5520617-$ or US- 3610232-$ or US- 2526190-$ or US- 7244237-$ or US- 6679857-$ or US- 2709432-$ or US- 2985166-$ or US- 6074413-$ or US- 5484366-$ or US- 7077858-$ or US- 4846176-$ or US- 5618275-$ or US- 5588161-$ or US- 5163446-$ or US- 5323778-$ or US- 9029736-$ or US- 6523354-$ or US- 10470922-$ or US- 9132031-$ or US- 6017337-$ or US- 6074414-$ or US- 5800490-$ or US- 4889970-$).did. or (US- 3967627-$ or US- 8535363-$ or US- 2477883-$).did. or (US- 3413973-$ or US- 3382866-$ or US- 3370583-$ or US- 2795224-$ or US- 2472385-$ or US- 2424699-$ or US- 2285105-$ or US- 1844247-$ or US- 1664009-$ or US- 2540792-$ or US- 3467080-$ or US- 1974031-$ or US- 3503395-$ or US- 2985166-$ or US- 2261385-$ or US- 2154428-$ or US- 2097455-$ or US- 2067979-$ or US-				

		1703811-$ or US-2490074-$ or US-1969042-$ or US-1951776-$ or US-1905750-$ or US-1772501-$ or US-1731504-$ or US-3298368-$).did. or (US-2698617-$ or US-2385501-$ or US-2183726-$ or US-2176736-$ or US-2023412-$ or US-RE19043-$ or US-1947042-$ or US-1911027-$ or US-1714693-$ or US-1380986-$ or US-2809630-$ or US-2638527-$ or US-2546095-$ or US-2515524-$ or US-2021732-$ or US-1840981-$ or US-1833105-$ or US-1634316-$ or US-2787261-$ or US-2448797-$ or US-2208729-$ or US-1820895-$ or US-2465250-$ or US-2526190-$ or US-2709432-$ or US-2787998-$ or US-2593875-$).did. or (US-3154926-$).did.					
L219	553	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/01 04:46 PM

		US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or					

		US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-					

		20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-					

		20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-					

		20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-					

		20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-					

		20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-					

		3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US-					

		6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$ or US-9782604-$ or US-9592405-$ or US-7479136-$ or US-6702837-$ or US-6019482-$ or US-5551949-$ or US-6875225-$ or US-6974224-$ or US-6524329-$ or US-6221095-$ or US-4561440-$ or US-7384405-$ or US-10272011-$ or US-5067480-$ or US-4716890-$).did. or (US-11076685-$ or US-10966514-$ or US-9386843-$ or US-5725483-$ or US-5647841-$ or US-4203431-$ or US-4397055-$ or US-8028707-$ or US-7793419-$ or US-3699952-$ or US-2548411-$ or US-9801448-$ or US-7063476-$ or US-5073058-$ or US-4991749-$ or US-4930923-$ or US-4883380-$ or US-4723860-$ or US-4171171-$ or US-D897110-$ or US-10307330-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-					

		1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$).did.					
L221	636	(US-20200237085-$ or US-20150182290-$ or US-20160192814-$ or US-20150202114-$ or US-20150182246-$ or US-20130281894-$ or US-20120109041-$ or US-20100145242-$ or US-20200038673-$ or US-20180168318-$ or US-20160184175-$ or US-20160339219-$ or US-20160339218-$ or US-20160184177-$ or US-20160184176-$ or US-20150182078-$ or US-20180360203-$ or US-20180295980-$ or US-20160184162-$ or US-20200253811-$ or US-20200085684-$ or US-20150182415-$ or US-20140194900-$ or US-20190142691-$ or US-20190060159-$ or US-20180193219-$).did. or (US-20170172834-$ or US-20160058651-$ or US-20160331106-$ or US-20160074641-$ or US-20080306417-$ or US-20150297393-$ or US-20150305923-$ or US-20140276255-$ or US-20130085556-$ or US-20120165708-$ or US-20110040235-$ or US-20070179414-$ or US-20060211961-$ or US-20050107724-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/01 11:09 PM

		20200315904-$ or US-20200222276-$ or US-20160213558-$ or US-20200170399-$ or US-20200154874-$ or US-20200038530-$ or US-20190191937-$ or US-20170332850-$ or US-20180361437-$ or US-20180140813-$ or US-20170367543-$ or US-20170367471-$ or US-20170360648-$).did. or (US-20170238686-$ or US-20170224098-$ or US-20170172837-$ or US-20170150851-$ or US-20150360014-$ or US-20160183743-$ or US-20150305969-$ or US-20140202493-$ or US-20150224020-$ or US-20150173998-$ or US-20150164733-$ or US-20150141884-$ or US-20140330289-$ or US-20140276281-$ or US-20030165550-$ or US-20060058714-$ or US-20060135319-$ or US-20040147984-$ or US-20200093945-$ or US-20190008718-$ or US-20180185236-$ or US-20180015299-$ or US-20160331308-$ or US-20170135894-$ or US-20160113836-$ or US-20160030279-$ or US-20150272774-$).did. or (US-20150150745-$ or US-20150119771-$ or US-20140221737-$ or US-20120065556-$ or US-20090163984-$ or US-20080014011-$ or US-20070206986-$ or US-20060155225-$ or US-20060129072-$ or US-20060100558-$ or US-20050209537-$ or US-20050203445-$ or US-20050059909-$ or US-20020072693-$ or US-20030149381-$ or US-20030125648-$ or US-20020169398-$ or US-					

		20170056685-$ or US-20160120375-$ or US-20160045081-$ or US-20150359324-$ or US-20150189980-$ or US-20150165179-$ or US-20150150754-$ or US-20120136289-$ or US-20090198159-$ or US-20090048557-$).did. or (US-20060122631-$ or US-20040171970-$ or US-20150173996-$ or US-20100198119-$ or US-20090177125-$ or US-20050277950-$ or US-20040015139-$ or US-20190126061-$ or US-20170367761-$ or US-20170035649-$ or US-20150265457-$ or US-20140128780-$ or US-20130197405-$ or US-20120209363-$ or US-20120209154-$ or US-20110009783-$ or US-20090088824-$ or US-20050049526-$ or US-20030009116-$ or US-20090222072-$ or US-20060258962-$ or US-20030014096-$ or US-20020086204-$ or US-20130085421-$ or US-20100274162-$ or US-20090270779-$ or US-20090043293-$).did. or (US-20040091663-$ or US-20030120185-$ or US-20030116452-$ or US-20130231594-$ or US-20130172792-$ or US-20130012848-$ or US-20120265108-$ or US-20120172771-$ or US-20070287938-$ or US-20060235341-$ or US-20060060184-$ or US-20150057579-$ or US-20120265106-$ or US-20070129654-$ or US-20050085749-$ or US-20030100936-$ or US-20200100936-$ or US-20200069936-$ or US-20190290531-$ or US-20180214340-$ or US-					

		20170189670-$ or US-20170181924-$ or US-20160074275-$ or US-20140309662-$ or US-20110270140-$ or US-20100087762-$ or US-20100056964-$).did. or (US-20080195001-$ or US-20070255187-$ or US-20070239086-$ or US-20070191745-$ or US-20040249322-$ or US-20040143199-$ or US-20040087881-$ or US-20040082983-$ or US-20210045521-$ or US-20200237604-$ or US-20060175909-$ or US-20200187635-$ or US-20200000294-$ or US-20200000293-$ or US-20170150810-$ or US-20180098615-$ or US-20180031090-$ or US-20180031089-$ or US-20170194849-$ or US-20170194848-$ or US-20160183670-$ or US-20160190902-$ or US-20160183671-$ or US-20160095413-$ or US-20160037902-$ or US-20150333609-$ or US-20150174387-$).did. or (US-20150065927-$ or US-20140367131-$ or US-20140305458-$ or US-20140096786-$ or US-20140088522-$ or US-20080262397-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20190101170-$ or US-20200093252-$ or US-20180169682-$ or US-20200037747-$ or US-20200037746-$ or US-20200037745-$ or US-20190298036-$ or US-20190098976-$ or US-20190098975-$ or US-20190098974-$ or US-20190029411-$ or US-20190001503-$ or US-20180288160-$ or US-					

		20180280233-$ or US-20180279762-$ or US-20180242711-$ or US-20180092449-$).did. or (US-20180042361-$ or US-20170326020-$ or US-20170189286-$ or US-20170189227-$ or US-20170188695-$ or US-20170119144-$ or US-20170014299-$ or US-20160324373-$ or US-20160206087-$ or US-20160184171-$ or US-20160015150-$ or US-20150265825-$ or US-20140366288-$ or US-20080138138-$ or US-20080255484-$ or US-20080087296-$ or US-20050020948-$ or US-20190239631-$ or US-20190014899-$ or US-20190008332-$ or US-20180361137-$ or US-20160270821-$ or US-20150257521-$ or US-20170347789-$ or US-20170119220-$ or US-20170071321-$ or US-20170042386-$).did. or (US-20160287034-$ or US-20160128461-$ or US-20150305487-$ or US-20150305486-$ or US-20150173842-$ or US-20140373003-$ or US-20140135665-$ or US-20130060176-$ or US-20130023901-$ or US-20120233798-$ or US-20120165710-$ or US-20110044750-$ or US-20120037184-$ or US-20090083917-$ or US-20050278877-$ or US-20050278876-$ or US-20050199265-$ or US-20040210175-$ or US-20180093106-$ or US-20140303695-$ or US-20140261380-$ or US-20180361167-$ or US-20180352934-$ or US-20160184173-$ or US-20160129274-$ or US-20110220634-$ or US-					

		20110200381-$).did. or (US-20200360178-$ or US-20080141681-$ or US-20210196504-$ or US-20190192873-$ or US-20200368062-$ or US-20180214304-$ or US-20190175396-$ or US-20190167330-$ or US-20130331914-$ or US-20180369064-$ or US-20080188915-$ or US-20080132976-$ or US-20150238349-$ or US-20160262930-$ or US-20160238040-$ or US-20140005759-$ or US-20150119962-$ or US-20140221880-$ or US-20130281893-$ or US-20120172956-$ or US-20120172955-$ or US-20120150268-$ or US-20200232720-$ or US-20200129327-$ or US-20080264464-$ or US-20080203080-$ or US-20080168605-$).did. or (US-20080086063-$ or US-20070225781-$ or US-20050209663-$ or US-20060135911-$ or US-20050149153-$ or US-20050131504-$ or US-20040249427-$ or US-20020107543-$ or US-20190148617-$ or US-20190133213-$ or US-20190117447-$ or US-20190106878-$ or US-20190101337-$ or US-20160223269-$ or US-20140087105-$ or US-20120079647-$ or US-20040024438-$ or US-20080168595-$ or US-20080140166-$ or US-20060064147-$ or US-20040186541-$ or US-20200397611-$ or US-20190201072-$ or US-20190104774-$ or US-20170273821-$ or US-20090264971-$ or US-20210236859-$).did. or (US-20200050248-$ or US-20090287195-$ or					

		US-20110202048-$ or US-20030163176-$ or US-20160346162-$).did. or (US-10013875-$ or US-9386843-$ or US-2424699-$ or US-3699952-$ or US-9132058-$ or US-9032576-$ or US-7749178-$ or US-7384377-$ or US-5551949-$ or US-6730050-$ or US-6312397-$ or US-5072724-$ or US-9895285-$ or US-7481783-$ or US-6811539-$ or US-6511446-$ or US-5902256-$ or US-5462515-$ or US-5429585-$ or US-4884560-$ or US-4722326-$ or US-4702235-$ or US-4640284-$ or US-4604993-$ or US-4396011-$ or US-4291685-$).did. or (US-3710785-$ or US-1777151-$ or US-1844247-$ or US-2540792-$ or US-3467080-$ or US-3733634-$ or US-3775800-$ or US-3864779-$ or US-3968789-$ or US-4027348-$ or US-4397055-$ or US-4404965-$ or US-10722424-$ or US-10667985-$ or US-9642768-$ or US-9066844-$ or US-7644589-$ or US-5662593-$ or US-5131384-$ or US-4203431-$ or US-5423102-$ or US-5725483-$ or US-7695207-$ or US-7211057-$ or US-4526163-$ or US-4724563-$ or US-4799280-$).did. or (US-4858600-$ or US-					

		5353461-$ or US- 5471695-$ or US- 5687442-$ or US- 5891063-$ or US- 5956792-$ or US- 5974615-$ or US- 6032313-$ or US- 6090085-$ or US- 9138257-$ or US- 7572238-$ or US- 7469703-$ or US- 7384405-$ or US- 7157816-$ or US- 5300095-$ or US- 4691693-$ or US- 4520799-$ or US- 3503395-$ or US- 2787998-$ or US- 10307330-$ or US- 9962284-$ or US- 7147610-$ or US- 6711750-$ or US- 6567696-$ or US- 6416534-$ or US- 6409748-$ or US- 6102875-$).did. or (US- 5918590-$ or US- 4685442-$ or US- 1703811-$ or US- 8777881-$ or US- 4010742-$ or US- 5725484-$ or US- 5577997-$ or US- 5176130-$ or US- 4577625-$ or US- 4427001-$ or US- 4086922-$ or US- 8372130-$ or US- 5775344-$ or US- 5327886-$ or US- 4925743-$ or US- 4559047-$ or US- 3804077-$ or US- 3298368-$ or US- 2698617-$ or US- 2385501-$ or US- 1911027-$ or US- 1714693-$ or US- 10188549-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8921746-$).did. or (US- 8882378-$ or US- 8864401-$ or US- 8715210-$ or US- 8620451-$ or US- 7959369-$ or US-					

		7322945-$ or US- 7128722-$ or US- 6648904-$ or US- 5556468-$ or US- 5690608-$ or US- 5336159-$ or US- 4920956-$ or US- 4787373-$ or US- 4655232-$ or US- 4441487-$ or US- 4087675-$ or US- 8523791-$ or US- 5989286-$ or US- 5131383-$ or US- 4944297-$ or US- 4745909-$ or US- 4502469-$ or US- 3382866-$ or US- 2809630-$ or US- 2638527-$ or US- 1840981-$ or US- 1634316-$).did. or (US- 7465296-$ or US- 7112178-$ or US- 6499485-$ or US- 5251620-$ or US- 4681095-$ or US- 10441496-$ or US- 10098808-$ or US- 9675516-$ or US- 8226699-$ or US- 6336907-$ or US- 6013042-$ or US- 8641702-$ or US- 10314763-$ or US- 8484788-$ or US- 10849421-$ or US- 9919437-$ or US- 7386906-$ or US- 9993059-$ or US- 9763508-$ or US- 8740917-$ or US- 8469909-$ or US- 5927289-$ or US- 5218955-$ or US- D864577-$ or US- 10426692-$ or US- 10058351-$ or US- 10058168-$).did. or (US-9596928-$ or US- 9578998-$ or US- D767897-$ or US- 9351559-$ or US- D715558-$ or US- 10080428-$ or US- 9474358-$ or US- 10856648-$ or US- 10736413-$ or US-				

		10681975-$ or US- 10603799-$ or US- 10588400-$ or US- 10531729-$ or US- 10518097-$ or US- 10349731-$ or US- 10194742-$ or US- 10182642-$ or US- 10021964-$ or US- 9925113-$ or US- 9801448-$ or US- 9380860-$ or US- 9301657-$ or US- 9107486-$ or US- 8966710-$ or US- 6170108-$ or US- 4476602-$ or US- 4158246-$).did. or (US- 6001070-$ or US- 6758826-$ or US- 9066778-$ or US- 9883982-$ or US- 5520617-$ or US- 3610232-$ or US- 2526190-$ or US- 7244237-$ or US- 6679857-$ or US- 2709432-$ or US- 2985166-$ or US- 6074413-$ or US- 5484366-$ or US- 7077858-$ or US- 4846176-$ or US- 5618275-$ or US- 5588161-$ or US- 5163446-$ or US- 5323778-$ or US- 9029736-$ or US- 6523354-$ or US- 10470922-$ or US- 9132031-$ or US- 6017337-$ or US- 6074414-$ or US- 5800490-$ or US- 4889970-$).did. or (US- 3967627-$ or US- 8535363-$ or US- 2477883-$).did. or (US- 3413973-$ or US- 3382866-$ or US- 3370583-$ or US- 2795224-$ or US- 2472385-$ or US- 2424699-$ or US- 2285105-$ or US- 1844247-$ or US- 1664009-$ or US- 2540792-$ or US-				

		3467080-$ or US-1974031-$ or US-3503395-$ or US-2985166-$ or US-2261385-$ or US-2154428-$ or US-2097455-$ or US-2067979-$ or US-1703811-$ or US-2490074-$ or US-1969042-$ or US-1951776-$ or US-1905750-$ or US-1772501-$ or US-1731504-$ or US-3298368-$).did. or (US-2698617-$ or US-2385501-$ or US-2183726-$ or US-2176736-$ or US-2023412-$ or US-RE19043-$ or US-1947042-$ or US-1911027-$ or US-1714693-$ or US-1380986-$ or US-2809630-$ or US-2638527-$ or US-2546095-$ or US-2515524-$ or US-2021732-$ or US-1840981-$ or US-1833105-$ or US-1634316-$ or US-2787261-$ or US-2448797-$ or US-2208729-$ or US-1820895-$ or US-2465250-$ or US-2526190-$ or US-2709432-$ or US-2787998-$ or US-2593875-$).did. or (US-3154926-$).did.					
L222	294	L221 and (thermal cool cooling cool$3)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/01 11:09 PM
L223	656	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:26 PM

		US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or						

		US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or						

		US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or						

		US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or						

		US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-					

		$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-					

		20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-					

		20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-20160120375-$ or US-20160113836-$ or US-20160074275-$ or US-20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-					

		20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-20030163176-$ or US-20030014096-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-					

		4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US-				

		5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US- 9132031-$ or US- 8864401-$ or US- 7959369-$ or US- 7644589-$ or US- 6416534-$ or US- 6336907-$).did. or (US- 6090085-$ or US- 6017337-$ or US- 5800490-$ or US- 5690608-$ or US- 4920956-$ or US- 4846176-$ or US- 4745909-$ or US- 4640284-$ or US- 4502469-$ or US- 3382866-$ or US- 3154926-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US-				

		1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$ or US-3154926-$ or US-2985166-$ or US-2809630-$ or US-2477883-$ or US-2472385-$ or US-1380986-$).did.					
L224	656	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:33 PM

		20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-					

		20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-					

		20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-					

		20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or					

		(US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or					

		US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or						

		US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-20160120375-$ or US-20160113836-$ or US-20160074275-$ or US-20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or					

		US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-20030163176-$ or US-20030014096-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-					

		8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US-					

		9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US-					

		9132031-$ or US-8864401-$ or US-7959369-$ or US-7644589-$ or US-6416534-$ or US-6336907-$).did. or (US-6090085-$ or US-6017337-$ or US-5800490-$ or US-5690608-$ or US-4920956-$ or US-4846176-$ or US-4745909-$ or US-4640284-$ or US-4502469-$ or US-3382866-$ or US-3154926-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$ or US-3154926-$ or US-2985166-$ or US-2809630-$ or US-2477883-$ or US-2472385-$ or US-1380986-$).did.					
L225	261	L224 and (thermal cool cooling cool$3)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:38 PM
L226	197	("20030009116"|"20140180331"|"20160346163"|"20170156974"|"20180200141"|"3626934"|"6228042"|"7996996"|"20170049278"|"1545027"|"1657765"|"D091454"|"D195145"|"D197142"|"D265985"|"D300132"|"D374934"|"D384639"|"D400758"|"D430774"|"D440136"|"D544102"|	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:40 PM

		D587977"|"D597482"|" D919560"|"2013004621 2"|"20050126018"|"200 60123941"|"201202532 45"|"20130133210"|"20 150216719"|"20170304 145"|"20180243158"|"2 0200179210"|"4173217 "|"4730605"|"5085207"|" 8342187"|"8945104"|"2 0160367425"|"D129045 "|"D163324"|"D237454"| "D303373"|"D321338"|" D367712"|"D474445"|" D575224"|"D579868"|" D631315"|"4533796"|"2 0140310900"|"2015011 9771"|"20180296433"|" 20200261306"|"668249 6"|"10276844"|"672306 0"|"D118980"|"D181742 "|"D287814"|"D314320"| "D383435"|"D387728"|" D433300"|"D475595"|" D504111"|"D530270"|" D593204"|"D622660"|" D726495"|"D858432"|" D893738"|"2003014461 5"|"20070270727"|"200 90326540"|"201302615 16"|"20150148592"|"35 45301"|"4150668"|"521 2887"|"5569168"|"8951 216"|"D329291"|"D4001 61"|"D417648"|"D47567 9"|"D544436"|"D682195 "|"D722016"|"D866790"| "D877351"|"10314762"| "20030094356"|"20030 195443"|"20070129220 "|"20070150004"|"2010 0274162"|"2015037531 5"|"20180008512"|"317 2675"|"4549535"|"5951 501"|"6663657"|"10201 470"|"20080314610"|"2 0140024982"|"4815224 "|"8646348"|"D180923"| "D310005"|"D320379"|" D345888"|"D383366"|" D476746"|"D531733"|" D547264"|"D604235"|" D855822"|"2001001669 7"|"20060025710"|"200 70144310"|"201503059 69"|"4566442"|"659926 0"|"D161484"|"D207505 "|"D334012"|"D338802"|				

		"D345727"|"D349029"|"D363352"|"D412485"|"D553562"|"D703480"|"D740222"|"D862382"|"20080103419"|"20130138023"|"20130281897"|"20150005682"|"20180279843"|"5417644"|"7927259"|"3452226"|"D329166"|"D388175"|"D432077"|"D510317"|"D605586"|"D666303"|"D842489"|"20210128402"|"10357425"|"20060192527"|"20090112134"|"20120078071"|"20140207032"|"20180236572"|"20200268594"|"3942251"|"5573500"|"10959908"|"2931632"|"D093943"|"D237455"|"D292368"|"D345077"|"D397991"|"D425014"|"D478385"|"D481279"|"D580353"|"D776612"|"D817869"|"D826418"|"D867279"|"D884205").PN.					
L227	10	("10314762"|"20150005682"|"20160367425"|"20180200141"|"20180263845"|"20190015294"|"20190136889"|"6241027"|"6682496"|"7273159").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:53 PM
L228	671	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:55 PM

		US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-					

		$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-					

		20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-					

		20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-					

		20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-					

		20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-					

		20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-					

		20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-20160120375-$ or US-20160113836-$ or US-20160074275-$ or US-20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-					

		20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-20030163176-$ or US-20030014096-$).did. or (US-20180279843-$ or US-20180243158-$ or US-20180008512-$ or US-20150148592-$ or US-20130138023-$ or US-20070150004-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-					

		3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US-					

		4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US- 9132031-$ or US- 8864401-$ or US- 7959369-$ or US- 7644589-$ or US- 6416534-$ or US- 6336907-$).did. or (US- 6090085-$ or US- 6017337-$ or US- 5800490-$ or US- 5690608-$ or US- 4920956-$ or US- 4846176-$ or US- 4745909-$ or US- 4640284-$ or US- 4502469-$ or US- 3382866-$ or US- 3154926-$ or US- 8951216-$ or US- 7927259-$ or US- 6723060-$ or US- 6663657-$ or US- 6599260-$ or US- 5569168-$ or US- 4730605-$ or US- 4150668-$ or US- 3452226-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US-					

		3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$ or US-3154926-$ or US-2985166-$ or US-2809630-$ or US-2477883-$ or US-2472385-$ or US-1380986-$).did.					
L229	282	L228 and (thermal cool cooling cool$3 cold)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/04 01:56 PM
L230	1	("20060058714").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/04/04 02:28 PM
L231	1	("7211057").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/04/04 03:19 PM
L232	1	("6896693").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/04/04 04:43 PM
L236	26	(US-20200086137-$ or US-20100121419-$ or US-20140128780-$ or US-20130030506-$ or US-20200038673-$ or US-20190126061-$ or US-20180169682-$ or US-20180168318-$ or US-20150182415-$ or US-20200179713-$ or US-20200046999-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20110034837-$ or US-20170164876-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$).did. or (US-6221095-$ or US-4561440-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/05 02:34 PM
L237	32	(US-20190017528-$ or US-20190015294-$ or	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/07 12:10 PM

		US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20180295980-$ or US-20160184162-$ or US-20110040235-$ or US-20100121419-$ or US-20140128780-$ or US-20130046212-$ or US-20210059396-$ or US-20180185236-$ or US-20200179220-$ or US-20100274329-$ or US-20100137752-$ or US-20190142691-$ or US-20200237085-$ or US-20200000294-$ or US-20200253811-$ or US-20180168318-$ or US-20150119771-$ or US-20100274162-$ or US-20190388707-$ or US-20100211136-$ or US-20070213698-$).did. or (US-20150045192-$ or US-20120310124-$ or US-20190290531-$ or US-20130085556-$).did. or (US-7014639-$ or US-4397055-$).did.					
L238	26	("20080282437"|"20160074641"|"20100004570"|"20110251523"|"20130046212"|"9987185"|"20030163068"|"20120265274"|"20140163437"|"20150351999"|"5176130"|"20110138556"|"20120109043"|"20140128780"|"20150133832"|"20150360024"|"20030083720"|"20160121108"|"3467080"|"3585990"|"7914523"|"20060247742"|"20100049177"|"20040006332"|"20050070827"|"20140371637").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/07 12:17 PM
L239	11	(("20210059396") or ("20200237085") or ("20190142691") or ("20180295980") or ("20180185236") or ("20160184162") or ("20150297393") or ("20130085556") or ("20100274162") or	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/04/07 12:32 PM

		("20100211136") or ("20100121419")).PN.					
L240	155	("10016337"|"10124165"|"10137054"|"10252051"|"10278888"|"10285722"|"10307330"|"10376659"|"10383486"|"10511777"|"10518097"|"10625093"|"10661072"|"10695508"|"10737107"|"10758452"|"10821299"|"10857064"|"10881577"|"10945915"|"1955863"|"20040030325"|"20040147984"|"20050043653"|"20070038206"|"20070179573"|"20070198004"|"20070213696"|"20070213698"|"20070239142"|"20070239143"|"20080014011"|"20080065176"|"20080103560"|"20080103563"|"20080119913"|"20080125835"|"20080193493"|"20080215123"|"20080275532"|"20090043293"|"20090234338"|"20090287195"|"20100121419"|"20100137752"|"20100274162"|"20100274329"|"20100312157"|"20110040235"|"20110106067"|"20110184499"|"20120065555"|"20120109041"|"20120310124"|"20130012851"|"20130046212"|"20130060176"|"20140128780"|"20140135798"|"20140219701"|"20140276255"|"20140288364"|"20140323927"|"20140336540"|"20140378555"|"20150045702"|"20150100002"|"20150119771"|"20150224020"|"20150265825"|"20150283025"|"20150297393"|"20150305969"|"20160324719"|"20170049278"|"20170056685"|"20170072175"|"20170128130"|"20170189670"|"20170202732"|"20170238686"|"20180015299"|"20180031090"|"20180133470"|"20180168318"|"20180185236"|"2019003108	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 12:35 PM

		9"|"20190240110"|"201 90254922"|"201902626 07"|"20190343712"|"20 200038673"|"20200086 137"|"20200113322"|"2 0200129372"|"2020017 9220"|"20200215351"|" 20200237085"|"202002 37604"|"20200253811"| "20200268594"|"20200 280680"|"20200288843 "|"20200390468"|"2021 0001148"|"2021012840 2"|"2183726"|"4858600" |"5103809"|"6524329"|" 6535761"|"6743215"|"6 748266"|"6766199"|"69 74224"|"6980854"|"701 0343"|"7014639"|"7083 580"|"7204832"|"72586 75"|"7282036"|"730526 9"|"7376460"|"7471979" |"7532926"|"8105322"|" 8157753"|"8182473"|"8 382690"|"8506506"|"85 23791"|"8540702"|"865 5448"|"8696605"|"8906 009"|"8945104"|"90230 21"|"9042993"|"908458 7"|"9272141"|"9278045" |"9386837"|"9579250"|" 9585687"|"9808646"|"9 872813"|"9925006"|"D6 93932"|"D736399"|"D76 4173"|"D765982"|"D803 572").PN.				
L241	155	("10016337"|"10124165 "|"10137054"|"1025205 1"|"10278888"|"102857 22"|"10307330"|"10376 659"|"10383486"|"1051 1777"|"10518097"|"106 25093"|"10661072"|"10 695508"|"10737107"|"1 0758452"|"10821299"|" 10857064"|"10881577"| "10945915"|"1955863"|" 20040030325"|"200401 47984"|"20050043653"| "20070038206"|"20070 179573"|"20070198004 "|"20070213696"|"2007 0213698"|"2007023914 2"|"20070239143"|"200 80014011"|"200800651 76"|"20080103560"|"20 080103563"|"20080119 913"|"20080125835"|"2	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:00 PM

		0080193493"|"2008021 5123"|"20080275532"|" 20090043293"|"200902 34338"|"20090287195"| "20100121419"|"20100 137752"|"20100274162 "|"20100274329"|"2010 0312157"|"2011004023 5"|"20110106067"|"201 10184499"|"201200655 55"|"20120109041"|"20 120310124"|"20130012 851"|"20130046212"|"2 0130060176"|"2014012 8780"|"20140135798"|" 20140219701"|"201402 76255"|"20140288364"| "20140323927"|"20140 336540"|"20140378555 "|"20150045702"|"2015 0100002"|"2015011977 1"|"20150224020"|"201 50265825"|"201502830 25"|"20150297393"|"20 150305969"|"20160324 719"|"20170049278"|"2 0170056685"|"2017007 2175"|"20170128130"|" 20170189670"|"201702 02732"|"20170238686"| "20180015299"|"20180 031090"|"20180133470 "|"20180168318"|"2018 0185236"|"2019003108 9"|"20190240110"|"201 90254922"|"201902626 07"|"20190343712"|"20 200038673"|"20200086 137"|"20200113322"|"2 0200129372"|"2020017 9220"|"20200215351"|" 20200237085"|"202002 37604"|"20200253811"| "20200268594"|"20200 280680"|"20200288843 "|"20200390468"|"2021 0001148"|"2021012840 2"|"2183726"|"4858600" |"5103809"|"6524329"|" 6535761"|"6743215"|"6 748266"|"6766199"|"69 74224"|"6980854"|"701 0343"|"7014639"|"7083 580"|"7204832"|"72586 75"|"7282036"|"730526 9"|"7376460"|"7471979" |"7532926"|"8105322"|" 8157753"|"8182473"|"8				

		382690"|"8506506"|"8523791"|"8540702"|"8655448"|"8696605"|"8906009"|"8945104"|"9023021"|"9042993"|"9084587"|"9272141"|"9278045"|"9386837"|"9579250"|"9585687"|"9808646"|"9872813"|"9925006"|"D693932"|"D736399"|"D764173"|"D765982"|"D803572").PN.					
L242	78	L241 and (thermal$2 cool cooling cooler cold cooled)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:00 PM
L243	120	(US-20210244611-$ or US-20210244610-$ or US-20210059898-$ or US-20170304145-$ or US-20150005682-$ or US-20210128402-$ or US-20200268594-$ or US-20200261306-$ or US-20150297393-$ or US-20140276255-$ or US-20180295980-$ or US-20160184173-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20140142472-$ or US-20140378555-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20060058714-$ or US-20120209357-$ or US-20030100936-$ or US-20090234423-$).did. or (US-20090088824-$ or US-20080172045-$ or US-20150150599-$ or US-20130046212-$ or US-20110144410-$ or US-20070185553-$ or US-20070027411-$ or US-20050131497-$ or US-20040260210-$ or US-20210059396-$ or US-20080262394-$ or US-20200170879-$ or US-20180185236-$ or US-20210145686-$ or US-20200179220-$ or US-	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/07 01:07 PM

		20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20190142691-$ or US-20120265274-$ or US-20110060254-$ or US-20200237085-$ or US-20200237604-$ or US-20200187635-$ or US-20200093945-$).did. or (US-20200038673-$ or US-20200038530-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170238686-$ or US-20170135894-$ or US-20200253811-$ or US-20120109041-$ or US-20180093106-$ or US-20160339219-$ or US-20160331308-$ or US-20150119771-$ or US-20110009783-$ or US-20100274162-$ or US-20100145242-$ or US-20190388707-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20120226268-$ or US-20070038206-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20190290531-$ or US-20190104774-$).did. or (US-20190060159-$ or US-20180214304-$ or US-20170181924-$ or US-20170172834-$ or US-20160223269-$ or US-20160113836-$ or US-20160074275-$ or US-20150265457-$ or US-20150057579-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-					

		20130085556-$ or US-20120265108-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20090264971-$).did. or (US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20200390468-$ or US-20180133470-$ or US-20140219701-$).did. or (US-10511777-$ or US-6221095-$ or US-7644589-$ or US-6896693-$).did.					
L244	957	a61f2007/0075.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/07 01:09 PM
L245	1550	a61f7/00.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/07 01:09 PM
L246	2332	L244 L245	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/07 01:10 PM
L247	715	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:10 PM

		20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-					

		20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-					

		20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-					

		20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-					

		20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-						

		20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-					

		20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-					

		20160120375-$ or US-20160113836-$ or US-20160074275-$ or US-20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-					

		20030163176-$ or US-20030014096-$).did. or (US-20180279843-$ or US-20180243158-$ or US-20180008512-$ or US-20150148592-$ or US-20130138023-$ or US-20070150004-$ or US-20150360024-$ or US-20160121108-$ or US-20210001148-$ or US-20200390468-$ or US-20200288843-$ or US-20200280680-$ or US-20190343712-$ or US-20180133470-$ or US-20160324719-$ or US-20150100002-$ or US-20140336540-$ or US-20140323927-$ or US-20140288364-$ or US-20140219701-$ or US-20140135798-$ or US-20120065555-$ or US-20080215123-$ or US-20080193493-$ or US-20080103560-$ or US-20080125835-$ or US-20080065176-$).did. or (US-20070038206-$ or US-20070179573-$ or US-20050043653-$ or US-20040030325-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-					

		6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-					

		6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US- 9132031-$ or US- 8864401-$ or US- 7959369-$ or US- 7644589-$ or US- 6416534-$ or US- 6336907-$).did. or (US- 6090085-$ or US- 6017337-$ or US- 5800490-$ or US- 5690608-$ or US- 4920956-$ or US- 4846176-$ or US-					

		4745909-$ or US- 4640284-$ or US- 4502469-$ or US- 3382866-$ or US- 3154926-$ or US- 8951216-$ or US- 7927259-$ or US- 6723060-$ or US- 6663657-$ or US- 6599260-$ or US- 5569168-$ or US- 4730605-$ or US- 4150668-$ or US- 3452226-$ or US- 7211057-$ or US- 6896693-$ or US- 10625093-$ or US- 10695508-$ or US- 10383486-$ or US- 10376659-$ or US- 10124165-$).did. or (US-D803572-$ or US- 9808646-$ or US- 9585687-$ or US- D765982-$ or US- D764173-$ or US- 9278045-$ or US- 9272141-$ or US- D736399-$ or US- 6766199-$ or US- 8945104-$ or US- 8506506-$ or US- 10881577-$).did. or (US-3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US- 3467080-$ or US- 2490074-$ or US- 2424699-$ or US- 2441682-$ or US- 2548411-$ or US- 2995768-$ or US- 3154926-$ or US- 2985166-$ or US- 2809630-$ or US- 2477883-$ or US- 2472385-$ or US-					

		1380986-$).did.					
L248	2082	L246 and (thermal$2 cool cooling cooler cold cooled) not L247	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:11 PM
L249	634	L248 and (sink heatsink)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:12 PM
L250	1087	L248 and (peltier thermoelectric$3)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:36 PM
L251	541	L250 not L249	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 01:37 PM
L252	16	(("20210059396") or ("20200237085") or ("20190142691") or ("20180295980") or ("20180185236") or ("20160184162") or ("20150297393") or ("20130085556") or ("20100274162") or ("20100211136") or ("20100121419") or ("10625093") or ("20140219701") or ("20170238686") or ("20150121900") or ("20190336326")).PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/07 02:30 PM
L254	786	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 10:52 AM

		20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-					

		20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-					

		20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-					

		20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-					

		20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-						

		20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-					

		20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-20160120375-$ or US-20160113836-$ or US-					

		20160074275-$ or US-20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-20030163176-$ or US-20030014096-$).did. or					

		(US-20180279843-$ or US-20180243158-$ or US-20180008512-$ or US-20150148592-$ or US-20130138023-$ or US-20070150004-$ or US-20150360024-$ or US-20160121108-$ or US-20210001148-$ or US-20200390468-$ or US-20200288843-$ or US-20200280680-$ or US-20190343712-$ or US-20180133470-$ or US-20160324719-$ or US-20150100002-$ or US-20140336540-$ or US-20140323927-$ or US-20140288364-$ or US-20140219701-$ or US-20140135798-$ or US-20120065555-$ or US-20080215123-$ or US-20080193493-$ or US-20080103560-$ or US-20080125835-$ or US-20080065176-$).did. or (US-20070038206-$ or US-20070179573-$ or US-20050043653-$ or US-20040030325-$ or US-20210338478-$ or US-20210113365-$ or US-20080077211-$ or US-20100280582-$ or US-20180042761-$ or US-20200289161-$ or US-20080077201-$ or US-20200129219-$ or US-20190350752-$ or US-20190343686-$ or US-20190254866-$ or US-20190240110-$ or US-20190175396-$ or US-20080269851-$ or US-20190125577-$ or US-20110313498-$ or US-20190110931-$ or US-20140303697-$ or US-20190009110-$ or US-20180289531-$ or US-20140303696-$ or US-20180153736-$ or US-20150112195-$).did. or (US-20180064574-$ or US-20170333667-$ or US-20170196729-$ or					

		US-20170035602-$ or US-20160270951-$ or US-20160242956-$ or US-20160178251-$ or US-20160074210-$ or US-20140260331-$ or US-20150182375-$ or US-20150127077-$ or US-20150121900-$ or US-20140358204-$ or US-20130238043-$ or US-20120198616-$ or US-20100198322-$ or US-20100185267-$ or US-20090306748-$ or US-20090093864-$ or US-20080300529-$ or US-20080046047-$ or US-20020091425-$ or US-20020156509-$ or US-20220047412-$ or US-20210290430-$ or US-20210212883-$ or US-20210123641-$).did. or (US-20200375840-$ or US-20200352459-$ or US-20200246520-$ or US-20150320590-$ or US-20190336326-$ or US-20190117445-$ or US-20160000600-$ or US-20100217349-$ or US-20100036295-$ or US-20070193278-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-					

		7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-					

		4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US- 9132031-$ or US- 8864401-$ or US- 7959369-$ or US- 7644589-$ or US- 6416534-$ or US- 6336907-$).did. or (US- 6090085-$ or US- 6017337-$ or US- 5800490-$ or US- 5690608-$ or US- 4920956-$ or US-				

		4846176-$ or US- 4745909-$ or US- 4640284-$ or US- 4502469-$ or US- 3382866-$ or US- 3154926-$ or US- 8951216-$ or US- 7927259-$ or US- 6723060-$ or US- 6663657-$ or US- 6599260-$ or US- 5569168-$ or US- 4730605-$ or US- 4150668-$ or US- 3452226-$ or US- 7211057-$ or US- 6896693-$ or US- 10625093-$ or US- 10695508-$ or US- 10383486-$ or US- 10376659-$ or US- 10124165-$).did. or (US-D803572-$ or US- 9808646-$ or US- 9585687-$ or US- D765982-$ or US- D764173-$ or US- 9278045-$ or US- 9272141-$ or US- D736399-$ or US- 6766199-$ or US- 8945104-$ or US- 8506506-$ or US- 10881577-$ or US- 8397518-$ or US- 6438964-$ or US- 11241357-$ or US- 10821297-$ or US- 9962284-$ or US- 8523791-$ or US- 5746702-$ or US- 5174285-$ or US- 4741338-$ or US- 4470263-$ or US- 3099137-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US-				

		1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$ or US-3154926-$ or US-2985166-$ or US-2809630-$ or US-2477883-$ or US-2472385-$ or US-1380986-$).did.					
L255	116	L254 and (sink heatsink)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 10:52 AM
L257	786	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 05:14 PM

		20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-					

		20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-					

		20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-					

		20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or					

		(US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or					

		US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or					

		US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-20160120375-$ or US-20160113836-$ or US-20160074275-$ or US-20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or						

		US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-20030163176-$ or US-20030014096-$).did. or (US-20180279843-$ or US-20180243158-$ or US-20180008512-$ or US-20150148592-$ or US-20130138023-$ or US-20070150004-$ or US-20150360024-$ or US-20160121108-$ or US-20210001148-$ or US-20200390468-$ or US-20200288843-$ or US-20200280680-$ or						

		US-20190343712-$ or US-20180133470-$ or US-20160324719-$ or US-20150100002-$ or US-20140336540-$ or US-20140323927-$ or US-20140288364-$ or US-20140219701-$ or US-20140135798-$ or US-20120065555-$ or US-20080215123-$ or US-20080193493-$ or US-20080103560-$ or US-20080125835-$ or US-20080065176-$).did. or (US-20070038206-$ or US-20070179573-$ or US-20050043653-$ or US-20040030325-$ or US-20210338478-$ or US-20210113365-$ or US-20080077211-$ or US-20100280582-$ or US-20180042761-$ or US-20200289161-$ or US-20080077201-$ or US-20200129219-$ or US-20190350752-$ or US-20190343686-$ or US-20190254866-$ or US-20190240110-$ or US-20190175396-$ or US-20080269851-$ or US-20190125577-$ or US-20110313498-$ or US-20190110931-$ or US-20140303697-$ or US-20190009110-$ or US-20180289531-$ or US-20140303696-$ or US-20180153736-$ or US-20150112195-$).did. or (US-20180064574-$ or US-20170333667-$ or US-20170196729-$ or US-20170035602-$ or US-20160270951-$ or US-20160242956-$ or US-20160178251-$ or US-20160074210-$ or US-20140260331-$ or US-20150182375-$ or US-20150127077-$ or US-20150121900-$ or US-20140358204-$ or US-20130238043-$ or US-20120198616-$ or						

		US-20100198322-$ or US-20100185267-$ or US-20090306748-$ or US-20090093864-$ or US-20080300529-$ or US-20080046047-$ or US-20020091425-$ or US-20020156509-$ or US-20220047412-$ or US-20210290430-$ or US-20210212883-$ or US-20210123641-$).did. or (US-20200375840-$ or US-20200352459-$ or US-20200246520-$ or US-20150320590-$ or US-20190336326-$ or US-20190117445-$ or US-20160000600-$ or US-20100217349-$ or US-20100036295-$ or US-20070193278-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-					

		5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$ or US-9782604-$ or US-					

		9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US- 9132031-$ or US- 8864401-$ or US- 7959369-$ or US- 7644589-$ or US- 6416534-$ or US- 6336907-$).did. or (US- 6090085-$ or US- 6017337-$ or US- 5800490-$ or US- 5690608-$ or US- 4920956-$ or US- 4846176-$ or US- 4745909-$ or US- 4640284-$ or US- 4502469-$ or US- 3382866-$ or US- 3154926-$ or US- 8951216-$ or US- 7927259-$ or US- 6723060-$ or US- 6663657-$ or US- 6599260-$ or US- 5569168-$ or US-				

		4730605-$ or US- 4150668-$ or US- 3452226-$ or US- 7211057-$ or US- 6896693-$ or US- 10625093-$ or US- 10695508-$ or US- 10383486-$ or US- 10376659-$ or US- 10124165-$).did. or (US-D803572-$ or US- 9808646-$ or US- 9585687-$ or US- D765982-$ or US- D764173-$ or US- 9278045-$ or US- 9272141-$ or US- D736399-$ or US- 6766199-$ or US- 8945104-$ or US- 8506506-$ or US- 10881577-$ or US- 8397518-$ or US- 6438964-$ or US- 11241357-$ or US- 10821297-$ or US- 9962284-$ or US- 8523791-$ or US- 5746702-$ or US- 5174285-$ or US- 4741338-$ or US- 4470263-$ or US- 3099137-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US- 3467080-$ or US- 2490074-$ or US- 2424699-$ or US- 2441682-$ or US- 2548411-$ or US- 2995768-$ or US- 3154926-$ or US- 2985166-$ or US- 2809630-$ or US- 2477883-$ or US- 2472385-$ or US-					

		1380986-$).did.					
L258	252	L257 and (magnet$3)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 05:14 PM
L259	2	(("20180185236") or ("20190343686")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/04/09 07:55 PM
L260	250463	a61f$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 07:55 PM
L261	625	L260 and (thermoelectric$4 peltier) and (heatsink sink) and (recess$3 cylinder cylindrical$3 ring)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 07:56 PM
L262	250463	a61f$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 09:17 PM
L263	667	L262 and (thermoelectric$4 peltier) and (heatsink sink) and (recess$3 cylinder cylindrical$3 ring annular)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 09:17 PM
L264	3	(("20210338478") or ("20200352317") or ("20200154874")).PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 10:34 PM
L265	799	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 10:49 PM

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PGR2025-00013

		20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-					

		20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-					

		20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-					

		20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-					

		20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-						

		20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$ or US-20210322257-$ or US-20170007498-$ or US-20210121360-$ or US-20200281805-$ or US-20200046602-$ or US-20200093410-$ or US-20140046127-$ or US-20150005679-$ or US-20170156974-$ or US-20180361137-$ or US-20180185238-$ or US-20180140813-$ or US-20180104144-$ or US-20170202732-$ or US-20170095689-$ or US-20170079865-$ or US-20170065480-$ or US-20160324717-$ or US-20160271009-$ or US-20160175185-$ or US-20160045393-$ or US-20150045192-$).did. or (US-20100331745-$ or US-20090306561-$ or US-20060025710-$ or US-20030195443-$ or US-20040193079-$ or US-20030149381-$ or US-20030014079-$ or US-20140194794-$ or US-20150320636-$ or US-20150313638-$ or US-20080082028-$ or US-20070244416-$ or US-20060052729-$ or US-20060009719-$ or US-20050137504-$ or US-20210196557-$ or US-20210195713-$ or US-20200215350-$ or US-20180242711-$ or US-20180092449-$ or US-20160270821-$ or US-20160256017-$ or US-					

		20160128461-$ or US-20150257521-$ or US-20150182078-$ or US-20140309662-$ or US-20110041864-$).did. or (US-20100222719-$ or US-20080167590-$ or US-20080172112-$ or US-20080125682-$ or US-20060276731-$ or US-20060276730-$ or US-20060135319-$ or US-20050278876-$ or US-20050277950-$ or US-20120310124-$ or US-20220039535-$ or US-20210244170-$ or US-20050138740-$ or US-20180027942-$ or US-20160324373-$ or US-20150034113-$ or US-20140356045-$ or US-20110270274-$ or US-20040249320-$ or US-20140371637-$ or US-20200397611-$ or US-20200129327-$ or US-20200100936-$ or US-20200069936-$ or US-20200037745-$ or US-20190290531-$ or US-20190191937-$).did. or (US-20190104774-$ or US-20190060159-$ or US-20190001503-$ or US-20180214304-$ or US-20180098615-$ or US-20170367471-$ or US-20170360648-$ or US-20170347789-$ or US-20170224098-$ or US-20170194849-$ or US-20170194848-$ or US-20170189227-$ or US-20170181924-$ or US-20170172834-$ or US-20170042386-$ or US-20160287034-$ or US-20160223269-$ or US-20160190902-$ or US-20160184176-$ or US-20160184171-$ or US-20160183671-$ or US-20160183670-$ or US-20160120375-$ or US-20160113836-$ or US-20160074275-$ or US-					

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PGR2025-00013

		20160037902-$ or US-20150359324-$).did. or (US-20150305486-$ or US-20150265457-$ or US-20150202114-$ or US-20150189980-$ or US-20150173998-$ or US-20150173996-$ or US-20150173842-$ or US-20150165179-$ or US-20150164733-$ or US-20150150754-$ or US-20150141884-$ or US-20150119962-$ or US-20150065927-$ or US-20150057579-$ or US-20140366288-$ or US-20140330289-$ or US-20140305458-$ or US-20190167330-$ or US-20190148617-$ or US-20180352934-$ or US-20150272774-$ or US-20140221880-$ or US-20140005759-$ or US-20130331914-$ or US-20130281893-$ or US-20130197405-$ or US-20130085556-$).did. or (US-20120265108-$ or US-20120265106-$ or US-20120209363-$ or US-20120209154-$ or US-20120172771-$ or US-20120165708-$ or US-20110202048-$ or US-20110200381-$ or US-20100087762-$ or US-20100056964-$ or US-20030100936-$ or US-20090264971-$ or US-20080264464-$ or US-20080188915-$ or US-20080168605-$ or US-20080168595-$ or US-20080141681-$ or US-20070255187-$ or US-20060135911-$ or US-20060064147-$ or US-20060060184-$ or US-20050209663-$ or US-20050209537-$ or US-20050203445-$ or US-20040171970-$ or US-20030163176-$ or US-20030014096-$).did. or (US-20180279843-$ or					

		US-20180243158-$ or US-20180008512-$ or US-20150148592-$ or US-20130138023-$ or US-20070150004-$ or US-20150360024-$ or US-20160121108-$ or US-20210001148-$ or US-20200390468-$ or US-20200288843-$ or US-20200280680-$ or US-20190343712-$ or US-20180133470-$ or US-20160324719-$ or US-20150100002-$ or US-20140336540-$ or US-20140323927-$ or US-20140288364-$ or US-20140219701-$ or US-20140135798-$ or US-20120065555-$ or US-20080215123-$ or US-20080193493-$ or US-20080103560-$ or US-20080125835-$ or US-20080065176-$).did. or (US-20070038206-$ or US-20070179573-$ or US-20050043653-$ or US-20040030325-$ or US-20210338478-$ or US-20210113365-$ or US-20080077211-$ or US-20100280582-$ or US-20180042761-$ or US-20200289161-$ or US-20080077201-$ or US-20200129219-$ or US-20190350752-$ or US-20190343686-$ or US-20190254866-$ or US-20190240110-$ or US-20190175396-$ or US-20080269851-$ or US-20190125577-$ or US-20110313498-$ or US-20190110931-$ or US-20140303697-$ or US-20190009110-$ or US-20180289531-$ or US-20140303696-$ or US-20180153736-$ or US-20150112195-$).did. or (US-20180064574-$ or US-20170333667-$ or US-20170196729-$ or US-20170035602-$ or					

		US-20160270951-$ or US-20160242956-$ or US-20160178251-$ or US-20160074210-$ or US-20140260331-$ or US-20150182375-$ or US-20150127077-$ or US-20150121900-$ or US-20140358204-$ or US-20130238043-$ or US-20120198616-$ or US-20100198322-$ or US-20100185267-$ or US-20090306748-$ or US-20090093864-$ or US-20080300529-$ or US-20080046047-$ or US-20020091425-$ or US-20020156509-$ or US-20220047412-$ or US-20210290430-$ or US-20210212883-$ or US-20210123641-$).did. or (US-20200375840-$ or US-20200352459-$ or US-20200246520-$ or US-20150320590-$ or US-20190336326-$ or US-20190117445-$ or US-20160000600-$ or US-20100217349-$ or US-20100036295-$ or US-20070193278-$ or US-20120316624-$ or US-20210128058-$ or US-20050193742-$ or US-20080015545-$ or US-20050277974-$ or US-20050005626-$ or US-20040111086-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-					

		3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US-				

		5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$ or US- 10272011-$ or US- 5067480-$ or US- 4716890-$).did. or (US- 11076685-$ or US- 10966514-$ or US- 9386843-$ or US- 5725483-$ or US- 5647841-$ or US- 4203431-$ or US- 4397055-$ or US- 8028707-$ or US- 7793419-$ or US- 3699952-$ or US- 2548411-$ or US- 9801448-$ or US- 7063476-$ or US- 5073058-$ or US- 4991749-$ or US- 4930923-$ or US- 4883380-$ or US- 4723860-$ or US- 4171171-$ or US- D897110-$ or US- 10307330-$ or US- 9132031-$ or US- 8864401-$ or US- 7959369-$ or US- 7644589-$ or US- 6416534-$ or US-					

		6336907-$).did. or (US-6090085-$ or US-6017337-$ or US-5800490-$ or US-5690608-$ or US-4920956-$ or US-4846176-$ or US-4745909-$ or US-4640284-$ or US-4502469-$ or US-3382866-$ or US-3154926-$ or US-8951216-$ or US-7927259-$ or US-6723060-$ or US-6663657-$ or US-6599260-$ or US-5569168-$ or US-4730605-$ or US-4150668-$ or US-3452226-$ or US-7211057-$ or US-6896693-$ or US-10625093-$ or US-10695508-$ or US-10383486-$ or US-10376659-$ or US-10124165-$).did. or (US-D803572-$ or US-9808646-$ or US-9585687-$ or US-D765982-$ or US-D764173-$ or US-9278045-$ or US-9272141-$ or US-D736399-$ or US-6766199-$ or US-8945104-$ or US-8506506-$ or US-10881577-$ or US-8397518-$ or US-6438964-$ or US-11241357-$ or US-10821297-$ or US-9962284-$ or US-8523791-$ or US-5746702-$ or US-5174285-$ or US-4741338-$ or US-4470263-$ or US-3099137-$ or US-7559907-$ or US-7204041-$ or US-5895418-$ or US-5097828-$).did. or (US-4614191-$ or US-4519389-$).did. or (US-3494353-$ or US-					

		3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$ or US-2441682-$ or US-2548411-$ or US-2995768-$ or US-3154926-$ or US-2985166-$ or US-2809630-$ or US-2477883-$ or US-2472385-$ or US-1380986-$).did.					
L266	102	L265 and (washer o?ring gasket)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/04/09 10:50 PM
L267	20	(US-20210338478-$ or US-20200352317-$ or US-20200352306-$ or US-20200253811-$ or US-20200237085-$ or US-20200154874-$ or US-20200093945-$ or US-20190388707-$ or US-20190343686-$ or US-20190290531-$ or US-20190142691-$ or US-20180295980-$ or US-20180185236-$ or US-20170304145-$ or US-20160184162-$ or US-20150121900-$ or US-20140371637-$ or US-20140358204-$ or US-20130085556-$).did. or (US-5097828-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/09 11:33 PM
L268	3168	a61h23/00,02,06.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/09 11:39 PM
L269	4	L265 and (male female) with (electric$4) with (contact pin connect$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/09 11:44 PM
L270	4	L265 and (male female) with (electric$4) with (contact pin connect$4	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/09 11:44 PM

		terminal)					
L271	401	L265 and (male female electric$4) near5 (plug contact pin connect$4 terminal)	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/09 11:46 PM
L272	50	L265 and (male female mating mated mateable plug$4) with (electric$4) with (contact pin connect$4 terminal)	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/09 11:50 PM
L274	1	("20190343686").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/04/22 04:01 PM
L275	800	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20180147800-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:39 PM

		OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-					

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		6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US- 10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US- D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US- D764173-S OR US- 9278045-B2 OR US- 9272141-B2 OR US- D736399-S OR US- 6766199-B2 OR US- 8945104-B2 OR US- 8506506-B2 OR US- 10881577-B2 OR US- 8397518-B1 OR US- 6438964-B1 OR US- 11241357-B2 OR US- 10821297-B2 OR US- 9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US- 3169521-A OR US-					

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

		2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A).did. AND USOC.dbnm.)				
L276	195	wersland.in. near2 jason.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:39 PM
L277	187	nazarian.in. near2 benjamin.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:39 PM

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

L278	156	solana.in. near2 jaime.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:39 PM
L279	116	merino.in. near2 eduardo.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:39 PM
L280	80	webb.in. NEAR bill.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:40 PM
L281	125	zhu.in. near2 alex.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2022/06/04 01:40 PM

			MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L282	70	tang.in. near2 richard.in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:40 PM
L283	473	276 277 278 279 280 281 282	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:40 PM
L284	414	283 NOT 275	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 01:40 PM
L285	231	283 NOT 275	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2022/06/04 01:41 PM

			AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))				
L286	819	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20180147800-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/04 02:51 PM

		A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR					

		US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-A1 OR US-20160151238-A1 OR US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-					

		A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1 OR US-20100049177-A1 OR US-20090177125-A1 OR US-20060058714-A1 OR US-20080119913-A1 OR US-20060253051-A1 OR US-20050075149-A1 OR US-20120209357-A1 OR US-20120121309-A1 OR US-20110092863-A1 OR US-20110091265-A1 OR US-20090287195-A1 OR US-20090234423-A1 OR US-20090088824-A1 OR US-20090048557-A1 OR US-20080172045-A1 OR US-20080154162-A1 OR US-20080014011-A1 OR US-20160158568-A1 OR US-20150150599-A1 OR US-20150045702-A1 OR US-20140194668-A1 OR US-20140128780-A1 OR US-20130046212-A1 OR US-20130030506-A1 OR US-20110144410-A1 OR					

		US-20110032960-A1 OR US-20100179456-A1 OR US-20100081858-A1 OR US-20090270779-A1 OR US-20090005631-A1 OR US-20080214968-A1 OR US-20070185553-A1 OR US-20070073366-A1 OR US-20070073198-A1 OR US-20070027411-A1 OR US-20060047330-A1 OR US-20050131497-A1 OR US-20050070977-A1 OR US-20050045189-A1 OR US-20040260210-A1 OR US-20040030370-A1 OR US-20210275224-A1 OR US-20210059396-A1 OR US-20080262394-A1 OR US-20090299236-A1 OR US-20200170879-A1 OR US-20190209425-A1 OR US-20190142689-A1 OR US-20180185236-A1 OR US-20170360652-A1 OR US-20170319429-A1 OR US-20170128130-A1 OR US-20160256348-A1 OR US-20140142472-A1 OR US-20050142093-A1 OR US-20050107724-A1 OR US-20030004441-A1 OR US-20210145686-A1 OR US-20210038472-A1 OR US-20200179220-A1 OR US-20200129372-A1 OR US-20190262607-A1 OR US-20200154874-A1 OR US-20160228184-A1 OR US-20100274329-A1 OR US-20100137752-A1 OR US-20030163068-A1 OR US-20190142691-A1 OR US-20180360203-					

		A1 OR US-20180256439-A1 OR US-20180178032-A1 OR US-20180140860-A1 OR US-20150283025-A1 OR US-20140088668-A1 OR US-20130131559-A1 OR US-20120265274-A1 OR US-20110060254-A1 OR US-20080275532-A1 OR US-20080018167-A1 OR US-20060235341-A1 OR US-20090270915-A1 OR US-20060293711-A1 OR US-20200237085-A1 OR US-20160192814-A1 OR US-20210045521-A1 OR US-20200411161-A1 OR US-20200405047-A1 OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-A1 OR US-20200170399-A1 OR US-20200093945-A1 OR US-20200093252-A1 OR US-20200085684-A1 OR US-20200038673-A1 OR US-20200038530-A1 OR US-20200037747-A1 OR US-20200037746-A1 OR US-20200000294-A1 OR US-20200000293-A1 OR US-20190298036-A1 OR US-20190126061-A1 OR US-20190029411-A1 OR US-20190014899-A1 OR US-20190008332-A1 OR US-20180361437-A1 OR US-20180288160-A1 OR US-20180279762-A1 OR US-20180193219-A1 OR US-20180015299-A1 OR US-20170367761-A1 OR					

		US-20170367543-A1 OR US-20170238686-A1 OR US-20170188695-A1 OR US-20170172837-A1 OR US-20170150851-A1 OR US-20170150810-A1 OR US-20170135894-A1 OR US-20170119144-A1 OR US-20170071321-A1 OR US-20170035649-A1 OR US-20160339218-A1 OR US-20160331106-A1 OR US-20160183743-A1 OR US-20200253811-A1 OR US-20180169682-A1 OR US-20180168318-A1 OR US-20170049212-A1 OR US-20150327653-A1 OR US-20130317416-A1 OR US-20120207532-A1 OR US-20120109041-A1 OR US-20120024308-A1 OR US-20030180690-A1 OR US-20180093106-A1 OR US-20170056685-A1 OR US-20160339219-A1 OR US-20160331308-A1 OR US-20150360014-A1 OR US-20150224020-A1 OR US-20150182415-A1 OR US-20150119771-A1 OR US-20140202493-A1 OR US-20120165710-A1 OR US-20120037184-A1 OR US-20110009783-A1 OR US-20060211961-A1 OR US-20040082983-A1 OR US-20160074641-A1 OR US-20160015150-A1 OR US-20150305487-A1 OR US-20120136289-A1 OR US-20120065556-A1 OR US-20100274162-A1 OR US-20100145242-					

		A1 OR US-20210138260-A1 OR US-20200352306-A1 OR US-20190388707-A1 OR US-20200179713-A1 OR US-20200101312-A1 OR US-20200046999-A1 OR US-20100211136-A1 OR US-20140343574-A1 OR US-20080140164-A1 OR US-20080103563-A1 OR US-20050234383-A1 OR US-20070106347-A1 OR US-20070032843-A1 OR US-20060030908-A1 OR US-20050065579-A1 OR US-20050055070-A1 OR US-20040210277-A1 OR US-20210022565-A1 OR US-20200113390-A1 OR US-20170181925-A1 OR US-20200085015-A1 OR US-20190117503-A1 OR US-20190117497-A1 OR US-20120226268-A1 OR US-20130190845-A1 OR US-20190046812-A1 OR US-20110034837-A1 OR US-20170164876-A1 OR US-20150290076-A1 OR US-20150205279-A1 OR US-20070217199-A1 OR US-20070213698-A1 OR US-20210322257-A1 OR US-20170007498-A1 OR US-20210121360-A1 OR US-20200281805-A1 OR US-20200046602-A1 OR US-20200093410-A1 OR US-20140046127-A1 OR US-20150005679-A1 OR US-20170156974-A1 OR US-20180361137-A1 OR US-20180185238-A1 OR					

		US-20180140813-A1 OR US-20180104144-A1 OR US-20170202732-A1 OR US-20170095689-A1 OR US-20170079865-A1 OR US-20170065480-A1 OR US-20160324717-A1 OR US-20160271009-A1 OR US-20160175185-A1 OR US-20160045393-A1 OR US-20150045192-A1 OR US-20100331745-A1 OR US-20090306561-A1 OR US-20060025710-A1 OR US-20030195443-A1 OR US-20040193079-A1 OR US-20030149381-A1 OR US-20030014079-A1 OR US-20140194794-A1 OR US-20150320636-A1 OR US-20150313638-A1 OR US-20080082028-A1 OR US-20070244416-A1 OR US-20060052729-A1 OR US-20060009719-A1 OR US-20050137504-A1 OR US-20210196557-A1 OR US-20210195713-A1 OR US-20200215350-A1 OR US-20180242711-A1 OR US-20180092449-A1 OR US-20160270821-A1 OR US-20160256017-A1 OR US-20160128461-A1 OR US-20150257521-A1 OR US-20150182078-A1 OR US-20140309662-A1 OR US-20110041864-A1 OR US-20100222719-A1 OR US-20080167590-A1 OR US-20080172112-A1 OR US-20080125682-A1 OR US-20060276731-A1 OR US-20060276730-					

		A1 OR US-20060135319-A1 OR US-20050278876-A1 OR US-20050277950-A1 OR US-20120310124-A1 OR US-20220039535-A1 OR US-20210244170-A1 OR US-20050138740-A1 OR US-20180027942-A1 OR US-20160324373-A1 OR US-20150034113-A1 OR US-20140356045-A1 OR US-20110270274-A1 OR US-20040249320-A1 OR US-20210401663-A1 OR US-20140371637-A1 OR US-20200397611-A1 OR US-20200129327-A1 OR US-20200100936-A1 OR US-20200069936-A1 OR US-20200037745-A1 OR US-20190290531-A1 OR US-20190191937-A1 OR US-20190104774-A1 OR US-20190060159-A1 OR US-20190001503-A1 OR US-20180214304-A1 OR US-20180098615-A1 OR US-20170367471-A1 OR US-20170360648-A1 OR US-20170347789-A1 OR US-20170224098-A1 OR US-20170194849-A1 OR US-20170194848-A1 OR US-20170189227-A1 OR US-20170181924-A1 OR US-20170172834-A1 OR US-20170042386-A1 OR US-20160287034-A1 OR US-20160223269-A1 OR US-20160190902-A1 OR US-20160184176-A1 OR US-20160184171-A1 OR US-20160183671-A1 OR					

		US-20160183670-A1 OR US-20160120375-A1 OR US-20160113836-A1 OR US-20160074275-A1 OR US-20160037902-A1 OR US-20150359324-A1 OR US-20150305486-A1 OR US-20150265457-A1 OR US-20150202114-A1 OR US-20150189980-A1 OR US-20150173998-A1 OR US-20150173996-A1 OR US-20150173842-A1 OR US-20150165179-A1 OR US-20150164733-A1 OR US-20150150754-A1 OR US-20150141884-A1 OR US-20150119962-A1 OR US-20150065927-A1 OR US-20150057579-A1 OR US-20140366288-A1 OR US-20140330289-A1 OR US-20140305458-A1 OR US-20190167330-A1 OR US-20190148617-A1 OR US-20180352934-A1 OR US-20150272774-A1 OR US-20140221880-A1 OR US-20140005759-A1 OR US-20130331914-A1 OR US-20130281893-A1 OR US-20130197405-A1 OR US-20130085556-A1 OR US-20120265108-A1 OR US-20120265106-A1 OR US-20120209363-A1 OR US-20120209154-A1 OR US-20120172771-A1 OR US-20120165708-A1 OR US-20110202048-A1 OR US-20110200381-A1 OR US-20100087762-A1 OR US-20100056964-A1 OR US-20030100936-					

		A1 OR US-20090264971-A1 OR US-20080264464-A1 OR US-20080188915-A1 OR US-20080168605-A1 OR US-20080168595-A1 OR US-20080141681-A1 OR US-20070255187-A1 OR US-20060135911-A1 OR US-20060064147-A1 OR US-20060060184-A1 OR US-20050209663-A1 OR US-20050209537-A1 OR US-20050203445-A1 OR US-20040171970-A1 OR US-20030163176-A1 OR US-20030014096-A1 OR US-20180279843-A1 OR US-20180243158-A1 OR US-20180008512-A1 OR US-20150148592-A1 OR US-20130138023-A1 OR US-20070150004-A1 OR US-20150360024-A1 OR US-20160121108-A1 OR US-20210001148-A1 OR US-20200390468-A1 OR US-20200288843-A1 OR US-20200280680-A1 OR US-20190343712-A1 OR US-20180133470-A1 OR US-20160324719-A1 OR US-20150100002-A1 OR US-20140336540-A1 OR US-20140323927-A1 OR US-20140288364-A1 OR US-20140219701-A1 OR US-20140135798-A1 OR US-20120065555-A1 OR US-20080215123-A1 OR US-20080193493-A1 OR US-20080103560-A1 OR US-20080125835-A1 OR US-20080065176-A1 OR					

		US-20070038206-A1 OR US-20070179573-A1 OR US-20050043653-A1 OR US-20040030325-A1 OR US-20210338478-A1 OR US-20210113365-A1 OR US-20080077211-A1 OR US-20100280582-A1 OR US-20180042761-A1 OR US-20200289161-A1 OR US-20080077201-A1 OR US-20200129219-A1 OR US-20190350752-A1 OR US-20190343686-A1 OR US-20190254866-A1 OR US-20190240110-A1 OR US-20190175396-A1 OR US-20080269851-A1 OR US-20190125577-A1 OR US-20110313498-A1 OR US-20190110931-A1 OR US-20140303697-A1 OR US-20190009110-A1 OR US-20180289531-A1 OR US-20140303696-A1 OR US-20180153736-A1 OR US-20150112195-A1 OR US-20180064574-A1 OR US-20170333667-A1 OR US-20170196729-A1 OR US-20170035602-A1 OR US-20160270951-A1 OR US-20160242956-A1 OR US-20160178251-A1 OR US-20160074210-A1 OR US-20140260331-A1 OR US-20150182375-A1 OR US-20150127077-A1 OR US-20150121900-A1 OR US-20140358204-A1 OR US-20130238043-A1 OR US-20120198616-A1 OR US-20100198322-A1 OR US-20100185267-					

		A1 OR US-20090306748-A1 OR US-20090093864-A1 OR US-20080300529-A1 OR US-20080046047-A1 OR US-20020091425-A1 OR US-20020156509-A1 OR US-20220047412-A1 OR US-20210290430-A1 OR US-20210212883-A1 OR US-20210123641-A1 OR US-20200375840-A1 OR US-20200352459-A1 OR US-20200246520-A1 OR US-20150320590-A1 OR US-20190336326-A1 OR US-20190117445-A1 OR US-20160000600-A1 OR US-20100217349-A1 OR US-20100036295-A1 OR US-20070193278-A1 OR US-20120316624-A1 OR US-20210128058-A1 OR US-20050193742-A1 OR US-20080015545-A1 OR US-20050277974-A1 OR US-20050005626-A1 OR US-20040111086-A1 OR US-20220125672-A1 OR US-20220054350-A1).did. AND PGPB.dbnm.) OR ((US-10714953-B1 OR US-6965375-B1 OR US-6245890-B1 OR US-7425947-B1 OR US-10945915-B2 OR US-10940081-B2 OR US-10702448-B2 OR US-10758452-B2 OR US-10617588-B2 OR US-10959911-B2 OR US-10470970-B2 OR US-10959908-B2 OR US-8372111-B2 OR US-7435232-B2 OR US-4669452-A OR US-3993052-A OR US-3494353-A OR US-					

		3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 10314762-B1 OR US- 7273159-B2 OR US- 6682496-B1 OR US- 10806660-B1 OR US- 10993874-B1 OR US- 10426691-B2 OR US- 9839572-B2 OR US- 6352518-B1 OR US- 6228042-B1 OR US- 5951501-A OR US- 5593381-A OR US- 5300095-A OR US- 5167226-A OR US- 5088474-A OR US- 5085207-A OR US- 4827914-A OR US- 4566442-A OR US- 4565189-A OR US- 4513737-A OR US- 4495940-A OR US- 4088128-A OR US- 4079733-A OR US- 3837335-A OR US- 3626934-A OR US- 1955623-A OR US- 10428850-B2 OR US- D912835-S OR US- 11090222-B2 OR US- 10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US- 11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US-				

		5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US- 10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US- 6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US- 7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US- 11076685-B2 OR US- 10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US- 3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US-					

		6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US- 10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US- D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US- D764173-S OR US- 9278045-B2 OR US- 9272141-B2 OR US- D736399-S OR US- 6766199-B2 OR US- 8945104-B2 OR US- 8506506-B2 OR US- 10881577-B2 OR US- 8397518-B1 OR US- 6438964-B1 OR US- 11241357-B2 OR US- 10821297-B2 OR US- 9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A OR US- D949390-S OR US-				

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		11166863-B2 OR US-11160721-B2 OR US-10980704-B2 OR US-10918565-B2 OR US-10912707-B2).did. AND USPT.dbnm.) OR ((US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1).did. AND FTDB.dbnm.)					
L287	343	286 AND (speed velocity ("m/s" (meter adj2 ("s" sec second))((foot feet) adJ2 ("S" sec second))))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2022/06/04 03:43 PM

			MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L288	346	286 AND (speed velocity ("m/s" (meter adj2 ("s" sec second))((foot feet inch inches) adJ2 ("S" sec second))))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 12:52 PM
L289	348	286 AND (speed velocity ("m/s" (meter adj2 ("s" sec second))((foot feet inch inches centimeter cm) adJ2 ("S" sec second))))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 12:52 PM
L290	20	286 AND (inch inches centimeter cm) adJ2 ("S" sec second)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 03:17 PM
L291	135	286 AND (magnet$4) WITH (removab$4	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2022/06/06 03:19 PM

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		detach$4 connect$4 attach$4 attract$4)	AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L292	149	286 AND (magnet$4) WITH (removab$4 detach$4 connect$4 attach$4 attract$4 coupled coupling)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 03:21 PM
L293	4	("20210338478" "20200352317").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 03:28 PM
L294	9	13/656344	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	OR	ON	ON	2022/06/06 03:52 PM

			SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L295	1	16/300211	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 03:54 PM
L296	31	("20140243589"|"20150342826"|"20150360030"|"20160074278"|"20080249439"|"4776322"|"20030229336"|"20120302823"|"20140180181"|"10045907").PN.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 03:55 PM
L297	10	("4513737" "20030195443" "9889066").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 08:13 PM
L298	147	("784024" | "799881" | "1339179" | "1612981" | "1657765" | "1978223" | "3030647" | "3494353" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/06 08:16 PM

		"3710785" | "3841321" | "3845758" | "3920291" | "3968789" | "3993052" | "4088128" | "4162675" | "RE30500" | "4412535" | "4505267" | "4513737" | "4523580" | "4549535" | "4730605" | "4827914" | "4841955" | "4858600" | "5063911" | "5065743" | "5140979" | "5159922" | "5215078" | "5305738" | "5311860" | "5364223" | "5415621" | "5447491" | "5489280" | "D367712" | "D373640" | "5602432" | "5632720" | "5656018" | "5725483" | "5803916" | "5843006" | "5925002" | "5951501" | "6102875" | "6123657" | "6165145" | "6170108" | "D437713" | "D438309" | "6228042" | "6231497" | "D455837" | "6375609" | "6402710" | "6432072" | "6440091" | "6461377" | "6478755" | "6494849" | "6585667" | "6616621" | "6656140" | "6682496" | "6758826" | "6805700" | "6832991" | "6866776" | "6979300" | "6994679" | "7033329" | "7041072" | "7083581" | "7125390" | "7128722" | "7211057" | "7229424" | "7238162" | "7264598" | "7270641" | "7282037" | "7306569" | "7322946" | "7335170" | "7354408" | "7470242" | "7507198" | "7517327" | "7597669" | "7634314" | "7927294" | "7976485" | "8052625" | "8092407" | "8192379" | "8282583" | "8317733" | "20020058892" | "20030060741" | "20030130602" | "20030195438" | "20030195443" | "20050015030" | "20050096571" | "20050096682" | "20060074360" | "20060178715" | "20070179414" | "20080214968" |					

		"20080234611" | "20080306417" | "20090182249" | "20090306577" | "20100228168" | "20100274162" | "20110106067" | "20120253245" | "20120259255" | "20130006040" | "20140094724").pn. OR ("9889066").urpn. AND (PGPB | USPT | USOC).dbnm.					
L299	55	298 AND magnet$4	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/06 08:46 PM
L300	843	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 10:11 PM

		OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-					

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		9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A OR US- D949390-S OR US- 11166863-B2 OR US- 11160721-B2 OR US- 10980704-B2 OR US- 10918565-B2 OR US- 10912707-B2 OR US- 9889066-B2 OR US- 11253423-B1 OR US- 10201470-B2 OR US- 10492984-B2 OR US- 4162675-A OR US- 4505267-A OR US- 5065743-A OR US- 5140979-A OR US- 5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US- 3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 3536064-A OR US- 2512536-A OR US- 1955623-A OR US- 1352894-A OR US- 1339179-A OR US- 1772501-A OR US- 2183726-A OR US- 1228669-A OR US- 3467080-A OR US- 2490074-A OR US- 2424699-A OR US- 2441682-A OR US- 2548411-A OR US- 2995768-A OR US- 3154926-A OR US-				

		2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1).did. AND FTDB.dbnm.)					
L301	48	300 AND (sleeve ring gasket membrane barrier diaphragm diaphram) WITH (water waterproof$4 watertight$4 liquid)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/06 10:15 PM
L302	83	300 AND (sleeve ring gasket jacket cover$4 sheath membrane barrier diaphragm diaphram) WITH (water waterproof$4 watertight$4 liquid)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 11:47 AM
L303	104	300 AND (sleeve layer ring gasket jacket cover$4 sheath	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2022/06/07 11:54 AM

		membrane barrier diaphragm diaphram) WITH (water waterproof$4 watertight$4 liquid)	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L304	145	300 AND (sleeve seal$3 layer ring gasket jacket cover$4 sheath membrane barrier diaphragm diaphram) WITH (water waterproof$4 watertight$4 liquid)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 11:58 AM
L305	163	300 AND (sleeve seal$3 flexible rubber washer layer ring gasket jacket cover$4 sheath membrane barrier diaphragm diaphram) WITH (water waterproof$4 watertight$4 liquid)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 11:59 AM
L306	171	300 AND (sleeve seal$3 flexible rubber washer layer ring gasket jacket cover$4 sheath membrane barrier diaphragm diaphram) WITH (water waterproof$4 watertight$4 liquid (fluid near4 (impervious$4 protect$4 prevent$4)))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2022/06/07 12:00 PM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L307	190	300 AND (sleeve seal$3 flexible rubber washer layer ring gasket jacket cover$4 sheath membrane barrier diaphragm diaphram prevent$4 protect$4) WITH (water waterproof$4 watertight$4 liquid (fluid near4 (impervious$4 protect$4 prevent$4)))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 12:05 PM
L308	1	300 AND (grommet) WITH (water waterproof$4 watertight$4 liquid (fluid near4 (impervious$4 protect$4 prevent$4)))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 12:44 PM
L309	11	"20160022533"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 12:49 PM
L310	5	("4574787").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2022/06/07 03:51 PM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L311	5	("5458559").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 04:06 PM
L312	844	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 04:20 PM

		A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR					

		US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-					

		A1 OR US-20160151238-A1 OR US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1 OR US-20100049177-A1 OR US-20090177125-A1 OR US-20060058714-A1 OR US-20080119913-A1 OR US-20060253051-A1 OR US-20050075149-A1 OR US-20120209357-A1 OR US-20120121309-A1 OR US-20110092863-A1 OR US-20110091265-A1 OR US-20090287195-A1 OR US-20090234423-A1 OR US-20090088824-A1 OR US-20090048557-A1 OR					

		US-20080172045-A1 OR US-20080154162-A1 OR US-20080014011-A1 OR US-20160158568-A1 OR US-20150150599-A1 OR US-20150045702-A1 OR US-20140194668-A1 OR US-20140128780-A1 OR US-20130046212-A1 OR US-20130030506-A1 OR US-20110144410-A1 OR US-20110032960-A1 OR US-20100179456-A1 OR US-20100081858-A1 OR US-20090270779-A1 OR US-20090005631-A1 OR US-20080214968-A1 OR US-20070185553-A1 OR US-20070073366-A1 OR US-20070073198-A1 OR US-20070027411-A1 OR US-20060047330-A1 OR US-20050131497-A1 OR US-20050070977-A1 OR US-20050045189-A1 OR US-20040260210-A1 OR US-20040030370-A1 OR US-20210275224-A1 OR US-20210059396-A1 OR US-20080262394-A1 OR US-20090299236-A1 OR US-20200170879-A1 OR US-20190209425-A1 OR US-20190142689-A1 OR US-20180185236-A1 OR US-20170360652-A1 OR US-20170319429-A1 OR US-20170128130-A1 OR US-20160256348-A1 OR US-20140142472-A1 OR US-20050142093-A1 OR US-20050107724-A1 OR US-20030004441-A1 OR US-20210145686-					

		A1 OR US-20210038472-A1 OR US-20200179220-A1 OR US-20200129372-A1 OR US-20190262607-A1 OR US-20200154874-A1 OR US-20160228184-A1 OR US-20100274329-A1 OR US-20100137752-A1 OR US-20030163068-A1 OR US-20190142691-A1 OR US-20180360203-A1 OR US-20180256439-A1 OR US-20180178032-A1 OR US-20180140860-A1 OR US-20150283025-A1 OR US-20140088668-A1 OR US-20130131559-A1 OR US-20120265274-A1 OR US-20110060254-A1 OR US-20080275532-A1 OR US-20080018167-A1 OR US-20060235341-A1 OR US-20090270915-A1 OR US-20060293711-A1 OR US-20200237085-A1 OR US-20160192814-A1 OR US-20210045521-A1 OR US-20200411161-A1 OR US-20200405047-A1 OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-A1 OR US-20200170399-A1 OR US-20200093945-A1 OR US-20200093252-A1 OR US-20200085684-A1 OR US-20200038673-A1 OR US-20200038530-A1 OR US-20200037747-A1 OR US-20200037746-A1 OR US-20200000294-A1 OR US-20200000293-A1 OR					

		US-20190298036-A1 OR US-20190126061-A1 OR US-20190029411-A1 OR US-20190014899-A1 OR US-20190008332-A1 OR US-20180361437-A1 OR US-20180288160-A1 OR US-20180279762-A1 OR US-20180193219-A1 OR US-20180015299-A1 OR US-20170367761-A1 OR US-20170367543-A1 OR US-20170238686-A1 OR US-20170188695-A1 OR US-20170172837-A1 OR US-20170150851-A1 OR US-20170150810-A1 OR US-20170135894-A1 OR US-20170119144-A1 OR US-20170071321-A1 OR US-20170035649-A1 OR US-20160339218-A1 OR US-20160331106-A1 OR US-20160183743-A1 OR US-20200253811-A1 OR US-20180169682-A1 OR US-20180168318-A1 OR US-20170049212-A1 OR US-20150327653-A1 OR US-20130317416-A1 OR US-20120207532-A1 OR US-20120109041-A1 OR US-20120024308-A1 OR US-20030180690-A1 OR US-20180093106-A1 OR US-20170056685-A1 OR US-20160339219-A1 OR US-20160331308-A1 OR US-20150360014-A1 OR US-20150224020-A1 OR US-20150182415-A1 OR US-20150119771-A1 OR US-20140202493-A1 OR US-20120165710-					

		A1 OR US-20120037184-A1 OR US-20110009783-A1 OR US-20060211961-A1 OR US-20040082983-A1 OR US-20160074641-A1 OR US-20160015150-A1 OR US-20150305487-A1 OR US-20120136289-A1 OR US-20120065556-A1 OR US-20100274162-A1 OR US-20100145242-A1 OR US-20210138260-A1 OR US-20200352306-A1 OR US-20190388707-A1 OR US-20200179713-A1 OR US-20200101312-A1 OR US-20200046999-A1 OR US-20100211136-A1 OR US-20140343574-A1 OR US-20080140164-A1 OR US-20080103563-A1 OR US-20050234383-A1 OR US-20070106347-A1 OR US-20070032843-A1 OR US-20060030908-A1 OR US-20050065579-A1 OR US-20050055070-A1 OR US-20040210277-A1 OR US-20210022565-A1 OR US-20200113390-A1 OR US-20170181925-A1 OR US-20200085015-A1 OR US-20190117503-A1 OR US-20190117497-A1 OR US-20120226268-A1 OR US-20130190845-A1 OR US-20190046812-A1 OR US-20110034837-A1 OR US-20170164876-A1 OR US-20150290076-A1 OR US-20150205279-A1 OR US-20070217199-A1 OR US-20070213698-A1 OR					

		US-20210322257-A1 OR US-20170007498-A1 OR US-20210121360-A1 OR US-20200281805-A1 OR US-20200046602-A1 OR US-20200093410-A1 OR US-20140046127-A1 OR US-20150005679-A1 OR US-20170156974-A1 OR US-20180361137-A1 OR US-20180185238-A1 OR US-20180140813-A1 OR US-20180104144-A1 OR US-20170202732-A1 OR US-20170095689-A1 OR US-20170079865-A1 OR US-20170065480-A1 OR US-20160324717-A1 OR US-20160271009-A1 OR US-20160175185-A1 OR US-20160045393-A1 OR US-20150045192-A1 OR US-20100331745-A1 OR US-20090306561-A1 OR US-20060025710-A1 OR US-20030195443-A1 OR US-20040193079-A1 OR US-20030149381-A1 OR US-20030014079-A1 OR US-20140194794-A1 OR US-20150320636-A1 OR US-20150313638-A1 OR US-20080082028-A1 OR US-20070244416-A1 OR US-20060052729-A1 OR US-20060009719-A1 OR US-20050137504-A1 OR US-20210196557-A1 OR US-20210195713-A1 OR US-20200215350-A1 OR US-20180242711-A1 OR US-20180092449-A1 OR US-20160270821-A1 OR US-20160256017-					

		A1 OR US-20160128461-A1 OR US-20150257521-A1 OR US-20150182078-A1 OR US-20140309662-A1 OR US-20110041864-A1 OR US-20100222719-A1 OR US-20080167590-A1 OR US-20080172112-A1 OR US-20080125682-A1 OR US-20060276731-A1 OR US-20060276730-A1 OR US-20060135319-A1 OR US-20050278876-A1 OR US-20050277950-A1 OR US-20120310124-A1 OR US-20220039535-A1 OR US-20210244170-A1 OR US-20050138740-A1 OR US-20180027942-A1 OR US-20160324373-A1 OR US-20150034113-A1 OR US-20140356045-A1 OR US-20110270274-A1 OR US-20040249320-A1 OR US-20210401663-A1 OR US-20140371637-A1 OR US-20200397611-A1 OR US-20200129327-A1 OR US-20200100936-A1 OR US-20200069936-A1 OR US-20200037745-A1 OR US-20190290531-A1 OR US-20190191937-A1 OR US-20190104774-A1 OR US-20190060159-A1 OR US-20190001503-A1 OR US-20180214304-A1 OR US-20180098615-A1 OR US-20170367471-A1 OR US-20170360648-A1 OR US-20170347789-A1 OR US-20170224098-A1 OR US-20170194849-A1 OR					

		US-20170194848-A1 OR US-20170189227-A1 OR US-20170181924-A1 OR US-20170172834-A1 OR US-20170042386-A1 OR US-20160287034-A1 OR US-20160223269-A1 OR US-20160190902-A1 OR US-20160184176-A1 OR US-20160184171-A1 OR US-20160183671-A1 OR US-20160183670-A1 OR US-20160120375-A1 OR US-20160113836-A1 OR US-20160074275-A1 OR US-20160037902-A1 OR US-20150359324-A1 OR US-20150305486-A1 OR US-20150265457-A1 OR US-20150202114-A1 OR US-20150189980-A1 OR US-20150173998-A1 OR US-20150173996-A1 OR US-20150173842-A1 OR US-20150165179-A1 OR US-20150164733-A1 OR US-20150150754-A1 OR US-20150141884-A1 OR US-20150119962-A1 OR US-20150065927-A1 OR US-20150057579-A1 OR US-20140366288-A1 OR US-20140330289-A1 OR US-20140305458-A1 OR US-20190167330-A1 OR US-20190148617-A1 OR US-20180352934-A1 OR US-20150272774-A1 OR US-20140221880-A1 OR US-20140005759-A1 OR US-20130331914-A1 OR US-20130281893-A1 OR US-20130197405-A1 OR US-20130085556-					

		A1 OR US-20120265108-A1 OR US-20120265106-A1 OR US-20120209363-A1 OR US-20120209154-A1 OR US-20120172771-A1 OR US-20120165708-A1 OR US-20110202048-A1 OR US-20110200381-A1 OR US-20100087762-A1 OR US-20100056964-A1 OR US-20030100936-A1 OR US-20090264971-A1 OR US-20080264464-A1 OR US-20080188915-A1 OR US-20080168605-A1 OR US-20080168595-A1 OR US-20080141681-A1 OR US-20070255187-A1 OR US-20060135911-A1 OR US-20060064147-A1 OR US-20060060184-A1 OR US-20050209663-A1 OR US-20050209537-A1 OR US-20050203445-A1 OR US-20040171970-A1 OR US-20030163176-A1 OR US-20030014096-A1 OR US-20180279843-A1 OR US-20180243158-A1 OR US-20180008512-A1 OR US-20150148592-A1 OR US-20130138023-A1 OR US-20070150004-A1 OR US-20150360024-A1 OR US-20160121108-A1 OR US-20210001148-A1 OR US-20200390468-A1 OR US-20200288843-A1 OR US-20200280680-A1 OR US-20190343712-A1 OR US-20180133470-A1 OR US-20160324719-A1 OR US-20150100002-A1 OR					

		US-20140336540-A1 OR US-20140323927-A1 OR US-20140288364-A1 OR US-20140219701-A1 OR US-20140135798-A1 OR US-20120065555-A1 OR US-20080215123-A1 OR US-20080193493-A1 OR US-20080103560-A1 OR US-20080125835-A1 OR US-20080065176-A1 OR US-20070038206-A1 OR US-20070179573-A1 OR US-20050043653-A1 OR US-20040030325-A1 OR US-20210338478-A1 OR US-20210113365-A1 OR US-20080077211-A1 OR US-20100280582-A1 OR US-20180042761-A1 OR US-20200289161-A1 OR US-20080077201-A1 OR US-20200129219-A1 OR US-20190350752-A1 OR US-20190343686-A1 OR US-20190254866-A1 OR US-20190240110-A1 OR US-20190175396-A1 OR US-20080269851-A1 OR US-20190125577-A1 OR US-20110313498-A1 OR US-20190110931-A1 OR US-20140303697-A1 OR US-20190009110-A1 OR US-20180289531-A1 OR US-20140303696-A1 OR US-20180153736-A1 OR US-20150112195-A1 OR US-20180064574-A1 OR US-20170333667-A1 OR US-20170196729-A1 OR US-20170035602-A1 OR US-20160270951-A1 OR US-20160242956-					

		A1 OR US-20160178251-A1 OR US-20160074210-A1 OR US-20140260331-A1 OR US-20150182375-A1 OR US-20150127077-A1 OR US-20150121900-A1 OR US-20140358204-A1 OR US-20130238043-A1 OR US-20120198616-A1 OR US-20100198322-A1 OR US-20100185267-A1 OR US-20090306748-A1 OR US-20090093864-A1 OR US-20080300529-A1 OR US-20080046047-A1 OR US-20020091425-A1 OR US-20020156509-A1 OR US-20220047412-A1 OR US-20210290430-A1 OR US-20210212883-A1 OR US-20210123641-A1 OR US-20200375840-A1 OR US-20200352459-A1 OR US-20200246520-A1 OR US-20150320590-A1 OR US-20190336326-A1 OR US-20190117445-A1 OR US-20160000600-A1 OR US-20100217349-A1 OR US-20100036295-A1 OR US-20070193278-A1 OR US-20120316624-A1 OR US-20210128058-A1 OR US-20050193742-A1 OR US-20080015545-A1 OR US-20050277974-A1 OR US-20050005626-A1 OR US-20040111086-A1 OR US-20220125672-A1 OR US-20220054350-A1 OR US-20140228721-A1 OR US-20130102937-A1 OR US-20190151604-A1 OR					

		US-20090306577-A1 OR US-20120259255-A1 OR US-20130006040-A1 OR US-20140094724-A1 OR US-20180147800-A1 OR US-20160022533-A1).did. AND PGPB.dbnm.) OR ((US-10714953-B1 OR US-6965375-B1 OR US-6245890-B1 OR US-7425947-B1 OR US-10945915-B2 OR US-10940081-B2 OR US-10702448-B2 OR US-10758452-B2 OR US-10617588-B2 OR US-10959911-B2 OR US-10470970-B2 OR US-10959908-B2 OR US-8372111-B2 OR US-7435232-B2 OR US-4669452-A OR US-3993052-A OR US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-10314762-B1 OR US-7273159-B2 OR US-6682496-B1 OR US-10806660-B1 OR US-10993874-B1 OR US-10426691-B2 OR US-9839572-B2 OR US-6352518-B1 OR US-6228042-B1 OR US-5951501-A OR US-5593381-A OR US-5300095-A OR US-5167226-A OR US-5088474-A OR US-5085207-A OR US-4827914-A OR US-4566442-A OR US-4565189-A OR US-4513737-A OR US-4495940-A OR US-4088128-A OR US-4079733-A OR US-3837335-A OR US-3626934-A OR US-1955623-A OR US-10428850-B2 OR US-D912835-S OR US-					

		11090222-B2 OR US- 10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US- 11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US- 5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US- 10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US- 6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US- 7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US-					

		11076685-B2 OR US- 10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US- 3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US- 6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US- 10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US- D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US-					

		D764173-S OR US- 9278045-B2 OR US- 9272141-B2 OR US- D736399-S OR US- 6766199-B2 OR US- 8945104-B2 OR US- 8506506-B2 OR US- 10881577-B2 OR US- 8397518-B1 OR US- 6438964-B1 OR US- 11241357-B2 OR US- 10821297-B2 OR US- 9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A OR US- D949390-S OR US- 11166863-B2 OR US- 11160721-B2 OR US- 10980704-B2 OR US- 10918565-B2 OR US- 10912707-B2 OR US- 9889066-B2 OR US- 11253423-B1 OR US- 10201470-B2 OR US- 10492984-B2 OR US- 4162675-A OR US- 4505267-A OR US- 5065743-A OR US- 5140979-A OR US- 5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US- 3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 3536064-A OR US- 2512536-A OR US- 1955623-A OR US-					

		1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1).did. AND FTDB.dbnm.)					
L313	12197	a61h23/00,006.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 04:22 PM
L314	6702	a61h23/00,006.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/06/07 04:22 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L315	2562	a61h7/003.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:22 PM
L316	5904	a61h2201/0153.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:22 PM
L317	844	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 04:23 PM

		A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR					

		US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-					

		A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-A1 OR US-20160151238-A1 OR US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1 OR US-20100049177-A1 OR US-20090177125-A1 OR US-20060058714-A1 OR US-20080119913-A1 OR US-20060253051-A1 OR US-20050075149-A1 OR US-20120209357-A1 OR US-20120121309-A1 OR					

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		A1 OR US-20160256348-A1 OR US-20140142472-A1 OR US-20050142093-A1 OR US-20050107724-A1 OR US-20030004441-A1 OR US-20210145686-A1 OR US-20210038472-A1 OR US-20200179220-A1 OR US-20200129372-A1 OR US-20190262607-A1 OR US-20200154874-A1 OR US-20160228184-A1 OR US-20100274329-A1 OR US-20100137752-A1 OR US-20030163068-A1 OR US-20190142691-A1 OR US-20180360203-A1 OR US-20180256439-A1 OR US-20180178032-A1 OR US-20180140860-A1 OR US-20150283025-A1 OR US-20140088668-A1 OR US-20130131559-A1 OR US-20120265274-A1 OR US-20110060254-A1 OR US-20080275532-A1 OR US-20080018167-A1 OR US-20060235341-A1 OR US-20090270915-A1 OR US-20060293711-A1 OR US-20200237085-A1 OR US-20160192814-A1 OR US-20210045521-A1 OR US-20200411161-A1 OR US-20200405047-A1 OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-A1 OR US-20200170399-A1 OR US-20200093945-A1 OR US-20200093252-A1 OR US-20200085684-A1 OR					

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L318	844	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 04:23 PM

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PGR2025-00013

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PGR2025-00013

		A1 OR US-20050193742-A1 OR US-20080015545-A1 OR US-20050277974-A1 OR US-20050005626-A1 OR US-20040111086-A1 OR US-20220125672-A1 OR US-20220054350-A1 OR US-20140228721-A1 OR US-20130102937-A1 OR US-20190151604-A1 OR US-20090306577-A1 OR US-20120259255-A1 OR US-20130006040-A1 OR US-20140094724-A1 OR US-20180147800-A1 OR US-20160022533-A1).did. AND PGPB.dbnm.) OR ((US-10714953-B1 OR US-6965375-B1 OR US-6245890-B1 OR US-7425947-B1 OR US-10945915-B2 OR US-10940081-B2 OR US-10702448-B2 OR US-10758452-B2 OR US-10617588-B2 OR US-10959911-B2 OR US-10470970-B2 OR US-10959908-B2 OR US-8372111-B2 OR US-7435232-B2 OR US-4669452-A OR US-3993052-A OR US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-10314762-B1 OR US-7273159-B2 OR US-6682496-B1 OR US-10806660-B1 OR US-10993874-B1 OR US-10426691-B2 OR US-9839572-B2 OR US-6352518-B1 OR US-6228042-B1 OR US-5951501-A OR US-5593381-A OR US-5300095-A OR US-5167226-A OR US-					

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L319	29000	a61h23/02,006.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2022/06/07 04:32 PM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L320	15917	a61h23/02,006.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:33 PM
L321	1170	a46b2200/102.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:33 PM
L322	6216	a46b13/02.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:33 PM
L323	6969	a61m35/003.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/06/07 04:33 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L324	29489	320 321 322 323	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:34 PM
L326	16901	a61h2201/10,105.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:34 PM
L327	2894	a61h15/02.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:34 PM
L328	5188	a61n2005/0644.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/06/07 04:34 PM

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			MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L329	10884	a61n5/0616.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:34 PM
L330	2999	a61n1/328.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:35 PM
L332	1205	a61f2007/0087.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:35 PM
L333	33405	326 327 328 329 330 332	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2022/06/07 04:35 PM

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			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L334	4111	324 AND 333	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:35 PM
L335	4104	334 NOT (@ad>="20220326")	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:36 PM
L336	4021	335 NOT 318	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:36 PM
L337	2533	336 AND (ring annular oval circumferen$4 surround$4 toroid$4)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2022/06/07 04:37 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L338	3102	336 AND (cold heat$3 thermoelectric$4 thermal led phototherap$4 diode laser lllt (light near2 therapy) microcurrent ultrasound)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))	OR	ON	ON	2022/06/07 04:41 PM
L339	39	(Artificial Intelligence) More Like: US-11331244-B2 Text: (CN-113769272-A OR US-10993874-B1 OR WO-2022098649-A1 OR US-20220133585-A1 OR DE-102020123082-A1 OR WO-2021098835-A1 OR CN-214105580-U OR CN-112827062-A OR CN-112117614-A OR CN-112891736-A OR WO-2022006086-A1 OR CN-112932935-A OR KR-102396975-B1 OR US-20220125672-A1 OR US-20210401663-A1 OR CN-113855514-A OR US-20170056145-A1 OR US-10653581-B2 OR US-20200046602-A1 OR EP-3820425-A1).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 04:43 PM
L340	40	(Artificial Intelligence) More Like: US-20220125672-A1 Text: (CN-113769272-A OR US-10993874-B1 OR WO-2022098649-A1 OR US-20220133585-A1 OR CN-112932935-A OR DE-202021102250-U1 OR US-11331244-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2022/06/07 04:46 PM

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		CN-215385795-U OR CN-112353653-A OR KR-20170003668-U OR CN-111904835-A OR DE-2429940-C3 OR US-20170056145-A1 OR WO-2022006086-A1 OR US-20210401663-A1 OR CN-215133032-U OR CN-111803350-A OR US-20210361518-A1 OR US-5176130-A OR KR-102133724-B1).did.	TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L341	17	("20090240310" "5320617" "20140296772" "20050113725" "20180325328" "20140222026").pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 05:09 PM
L342	38	(Artificial Intelligence) More Like: WO-2021211238-A1 Text: (US-5320617-A OR US-20090240310-A1 OR CN-113645886-A OR WO-2007090256-A1 OR US-20070185553-A1 OR EP-3125999-B1 OR KR-102054265-B1 OR US-20210077338-A1 OR US-20210154093-A1 OR JP-2016502432-A OR FR-3037810-B1 OR JP-6861701-B2 OR US-20180178032-A1 OR WO-2021210750-A1 OR FR-2986980-B1 OR KR-101370160-B1 OR US-20210001148-A1 OR US-20140135798-A1 OR EP-2941235-A1 OR WO-2014078444-A1).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/07 05:12 PM
L343	51	(Artificial Intelligence)	(US-PGPUB; USPAT;	OR	ON	ON	2022/06/07

		More Like: CN-112245261-A Text: (CN-114010482-A OR CN-213490366-U OR CN-215779811-U OR CN-112891186-A OR CN-113274276-A OR CN-213431576-U OR CN-215779810-U OR CN-112315773-A OR CN-213157619-U OR CN-216439596-U OR CN-214105586-U OR CN-212466549-U OR CN-210844180-U OR CN-113648197-A OR CN-113101177-A OR CN-214859044-U OR CN-209933448-U OR CN-215938255-U OR CN-211561578-U OR CN-110947093-A).did.	USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:42 PM
L344	530	("10016337"|"10124165"|"10137054"|"10252051"|"10278888"|"10285722"|"10307330"|"10376659"|"10383486"|"10511777"|"10518097"|"10625093"|"10661072"|"10695508"|"10737107"|"10758452"|"10821299"|"10857064"|"10881577"|"10945915"|"1955863"|"20040030325"|"20040147984"|"20050043653"|"20070038206"|"20070179573"|"20070198004"|"20070213696"|"20070213698"|"20070239142"|"20070239143"|"20080014011"|"20080065176"|"20080103560"|"20080103563"|"20080119913"|"20080125835"|"20080193493"|"20080215123"|"20080275532"|"20090043293"|"20090234338"|"20090287195"|"20100121419"|"20100137752"|"20100274162"|"20100274329"|"20100312157"|"20110040235"|"20110106067"|"20110184499"|"20120065555"|"20120109041"|"20120310124"|"20130012	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/08 01:25 AM

		851"|"20130046212"|"2 0130060176"|"2014012 8780"|"20140135798"|" 20140219701"|"201402 76255"|"20140288364"| "20140323927"|"20140 336540"|"20140371637 "|"20140378555"|"2015 0045702"|"2015010000 2"|"20150119771"|"201 50224020"|"201502658 25"|"20150283025"|"20 150297393"|"20150305 969"|"20160184162"|"2 0160324719"|"2017004 9278"|"20170056685"|" 20170072175"|"201701 28130"|"20170189670"| "20170202732"|"20170 238686"|"20180015299 "|"20180031089"|"2018 0031090"|"2018013347 0"|"20180168318"|"201 80185236"|"201902401 10"|"20190254922"|"20 190262607"|"20190343 712"|"20190388707"|"2 0200038673"|"2020008 6137"|"20200093945"|" 20200113322"|"202001 29372"|"20200179220"| "20200215351"|"20200 237085"|"20200237604 "|"20200253811"|"2020 0268594"|"2020028068 0"|"20200288843"|"202 00352306"|"202003523 17"|"20200390468"|"20 210001148"|"20210128 402"|"2183726"|"48586 00"|"5103809"|"652432 9"|"6535761"|"6743215" |"6748266"|"6766199"|" 6974224"|"6980854"|"7 010343"|"7014639"|"70 83580"|"7204832"|"725 8675"|"7282036"|"7305 269"|"7376460"|"74719 79"|"7532926"|"810532 2"|"8157753"|"8182473" |"8382690"|"8506506"|" 8523791"|"8540702"|"8 655448"|"8696605"|"89 06009"|"8945104"|"902 3021"|"9042993"|"9084 587"|"9272141"|"92780 45"|"9386837"|"957925 0"|"9585687"|"9808646"					

		|"9872813"|"9925006"|"D693932"|"D736399"|"D764173"|"D765982"|"D803572").PN.					
L345	228	("10016337"|"10124165"|"10137054"|"10252051"|"10278888"|"10285722"|"10307330"|"10376659"|"10383486"|"10511777"|"10518097"|"10625093"|"10661072"|"10695508"|"10737107"|"10758452"|"10821299"|"10857064"|"10881577"|"10945915"|"1955863"|"20040030325"|"20040147984"|"20050043653"|"20070038206"|"20070179573"|"20070198004"|"20070213696"|"20070213698"|"20070239142"|"20070239143"|"20080014011"|"20080065176"|"20080103560"|"20080103563"|"20080119913"|"20080125835"|"20080193493"|"20080215123"|"20080275532"|"20090043293"|"20090234338"|"20090287195"|"20100121419"|"20100137752"|"20100274162"|"20100274329"|"20100312157"|"20110040235"|"20110106067"|"20110184499"|"20120065555"|"20120109041"|"20120310124"|"20130012851"|"20130046212"|"20130060176"|"20140128780"|"20140135798"|"20140219701"|"20140276255"|"20140288364"|"20140323927"|"20140336540"|"20140371637"|"20140378555"|"20150045702"|"20150100002"|"20150119771"|"20150224020"|"20150265825"|"20150283025"|"20150297393"|"20150305969"|"20160184162"|"20160324719"|"20170049278"|"20170056685"|"20170072175"|"20170128130"|"20170189670"|"20170202732"|"20170238686"|"20180015299	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/06/08 01:26 AM

		"|"20180031089"|"2018 0031090"|"2018013347 0"|"20180168318"|"201 80185236"|"201902401 10"|"20190254922"|"20 190262607"|"20190343 712"|"20190388707"|"2 0200038673"|"2020008 6137"|"20200093945"|" 20200113322"|"202001 29372"|"20200179220"| "20200215351"|"20200 237085"|"20200237604 "|"20200253811"|"2020 0268594"|"2020028068 0"|"20200288843"|"202 00352306"|"202003523 17"|"20200390468"|"20 210001148"|"20210128 402"|"2183726"|"48586 00"|"5103809"|"652432 9"|"6535761"|"6743215" |"6748266"|"6766199"|" 6974224"|"6980854"|"7 010343"|"7014639"|"70 83580"|"7204832"|"725 8675"|"7282036"|"7305 269"|"7376460"|"74719 79"|"7532926"|"810532 2"|"8157753"|"8182473" |"8382690"|"8506506"|" 8523791"|"8540702"|"8 655448"|"8696605"|"89 06009"|"8945104"|"902 3021"|"9042993"|"9084 587"|"9272141"|"92780 45"|"9386837"|"957925 0"|"9585687"|"9808646" |"9872813"|"9925006"|" D693932"|"D736399"|" D764173"|"D765982"|" D803572").PN.					
L346	4	("20180185236" "20180031090" "20190343686").pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/06/08 01:34 AM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N202	327	(reciprocat$4 percuss$4 oscillat$4).clm. with (electric$4 light) with (detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 10:58 AM
N203	163	(reciprocat$4 percuss$4 oscillat$4).clm. with (ring) with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 11:01 AM
N204	312	(reciprocat$4 percuss$4 oscillat$4).clm. with (ring diameter) with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 11:05 AM
N205	2	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4).clm. with (ring diameter) with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 12:10 PM
N206	172	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4).clm. with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 12:12 PM
N214	3	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4).clm. with (attachment attachab$4 detach$4 removab$4) with (ring)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/05 10:08 PM
N215	11	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4 vibrat$4).clm. with (attachment attachab$4 detach$4 removab$4) with (ring)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/05 10:08 PM
N216	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/03/05 11:12 PM
N220	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/01 04:46 PM
N233	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/04 01:26 PM
N234	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/04 01:33 PM
N235	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/04 01:55 PM
N253	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/07 01:10 PM
N256	1	(US-20210401663-	(US-PGPUB)	OR	ON	ON	2022/04/09

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Device for skin care

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Abstract

Disclosed is a skin care device. The skin care device according to the present invention includes: a main body including a vibrating unit for generating vibration and a body that can be gripped; a light emitting unit which is installed on the main body, is arranged adjacent to the vibrating unit, and emits light; and a contact unit mounted on the main body and coming in contact with a user's skin. The contact unit is connected to the vibrating unit and vibrates while coming in contact with the skin. The light emitting unit provides light to the contact unit and the contact unit diffuses light to irradiate the skin.

Description

INVENTION-TITLE
TECHNICAL-FIELD
The present invention relates to a skin beauty device.

BACKGROUND-ART
Recently, there is an increasing demand for devices for application to cosmetic and medical devices. For example, the method of applying cosmetics on the skin by tapping with puffs or applying it directly on the hands is not constant, so there are various skin beauty devices that can be applied to the skin using mechanical vibration. Appeared.
In addition, various devices that care for skin using light as well as mechanical vibrations have appeared. However, since each of these devices has a unique skin beauty effect, it is difficult for a user to purchase several devices.

DESCRIPTION-OF-EMBODIMENTS
Hereinafter, embodiments of the present invention will be described in detail with reference to the accompanying drawings.
1 is a perspective view showing a skin care apparatus according to an embodiment of the present invention, Figure 2 is an exploded perspective view showing a skin care apparatus according to an embodiment of the present invention, Figure 3 is according to an embodiment of the present invention It is a perspective view partially projecting the skin beauty device.
1 to 3, the skin cosmetic apparatus according to an embodiment of the present invention includes a body, a light emitting portion, and a contact portion.

The main body 10 is a part that a user can grip and provides a space in which parts are installed. The body 10 has a catchable body 12, and the inside of the body 12 is empty so that necessary parts can be installed. In particular, the main body 10 is provided with a vibration unit 14 for generating vibration.
2 and 3, the vibrating unit 14 may be installed inside the body 12. The body 12 has a cylindrical structure, and vibration generating and transmitting parts such as a motor, a spring, a diaphragm, and a shaft may be installed to generate vibration inside the cylindrical body 12. In addition, a button 13 for a user to operate the device and adjust the mode may be formed outside the body 12.

The light emitting portion 20 is a portion that generates light required for light therapy. In order to supply light to the contact portion 30 to be described later, it is installed adjacent to the vibration portion 14 installed in the main body 10 and coupled to the contact portion 30.
2 and 3, the light emitting unit 20 is installed inside the body 12, the substrate 24 disposed around the vibration unit 14 and the LED module installed on the substrate 24 (22). The LED module 22 is arranged to emit light toward a direction in which the contact portion 30 is mounted.

The contact unit 30 transmits vibration by contacting the user's skin and irradiates light to the user's skin.

The contact part 30 is connected to the vibrating part 14 and mounted on the main body 10, and the contact part 30 can make a tap or massage by contacting the user's skin and transmitting vibration. In addition, it is possible to irradiate light required for light therapy on the skin of a user by receiving light from the light emitting unit 20 and diffusing the received light. Accordingly, two skin care can be performed at the same time by providing the light required for light therapy in the vibrating beauty device.
Figure 4 is a side view showing a partially projected skin beauty device according to an embodiment of the present invention.
2 to 4, the contact portion 30 of the present embodiment may be formed of a soft material soft contact portion 34 and a hard portion 32 connected to the vibration portion 14. For example, the soft portion 34 is formed to have a flat surface on one side that contacts the user's skin, and is made of a soft material such as silicone to bond to the tapping or massage so that the contact portion 30 adheres to it when it is a patting member. It can be done. In addition, a hard portion 32 made of a harder material than the soft portion 34 may be coupled to the opposite surface of the soft portion 34 to support the soft portion 34. The hard part 32 is connected to the vibrating part 14 while supporting the soft part 34, and can transmit the vibration evenly to the soft part 34. The hard part 32 may have a plate-like structure to evenly support the soft part 34 having a flat one surface and transmit vibration.
In addition, the soft portion 34 may be a translucent material to diffuse light and irradiate the skin. At this time, the hard part 32 may have a material and shape that acts as a lens that evenly distributes light to the soft part 34. Accordingly, the light emitting unit 20 may provide light to the hard portion 32, and the hard portion 32 may disperse the provided light to the front. And the light scattered to the front of the hard part 32 is provided to the soft part 34 and can be diffused toward the skin.
5 and 6 are photographs illustrating the operation of the skin beauty device according to an embodiment of the present invention.
5 and 6, it can be seen that the contact portion 30 is mounted on the main body 10 and vibrates and diffuses light. Therefore, it is possible to provide the light required for light therapy to the user's skin while transmitting the vibration required for tapping or massage.
Meanwhile, in the present embodiment, a structure in which the soft part 34 and the hard part 32 are separately formed and combined is presented, but is not limited thereto, and the soft part 34 and the hard part 32 may be integrally formed. For example, the flexible part 34 and the rigid part 32 of two different materials may be integrally formed using double injection. Double injection is an injection method that molds different types of resin in one cycle in one mold. The double injection molds two parts together in one molding, thereby reducing costs and enabling various designs to produce products.

The skin beauty device of the present embodiment may further include a light transmitting member 40 covering the light emitting portion 20 to protect the light emitting portion 20 and minimize the inflow of foreign substances into the body 10.
2 and 6, the light transmitting member 40 is installed on the main body 10 and may be interposed between the light emitting portion 20 and the contact portion 30. A through hole is formed in the center of the light transmitting member 40 so that the vibrating portion 14 passes and can be connected to the contact portion 30. The light transmitting member 40 is made of a light transmissive material so that light can pass therethrough.

In addition, the skin cosmetic apparatus of the present embodiment may further include a diffusion member 50 disposed on the side of the contact portion 30 to enlarge the area irradiated with light. The diffusion member 50 can also diffuse light emitted to the side of the light emitting portion 20 to the skin.
2 and 3, when viewed from one side of the contact portion 30, the diffusion member 50 has a shape widened to the outside of the contact portion 30. That is, it may have a structure that widens the area that irradiates light to the user's skin. The diffusion member 50 of the present embodiment may have a structure in which the light transmitting member 40 is mounted at the center with one surface wider than the contact portion 30.
5 and 6, it can be seen that the contact portion 30 and the diffusion member 50 both irradiated light necessary for light therapy toward the user.

7 is a perspective view showing a skin cosmetic apparatus according to another embodiment of the present invention.
Referring to FIG. 7, in the skin care apparatus according to the present embodiment, the contact part 35 may include a scalp care member. The scalp management member has a feature in which a plurality of protrusion structures 38 are formed on one surface 36 of the contact portion 35 described above. At this time, the projection structure 38 can also be diffused by receiving light. Accordingly, vibrations and light can be effectively transmitted to the scalp by inserting the projection structure 38 of the scalp management member between the hairs.
In addition, the protrusion structure 38 may be formed to have a different height for each placement position. For example, the protrusion structure disposed at the center of the contact portion 35 may be formed to have a higher height than the protrusion structure disposed at the outer edge.
The patting member and the scalp management member are formed in a detachable form to the main body 10, and the user can selectively use the patting member or the scalp management member.

Although described above with reference to embodiments of the present invention, those skilled in the art variously modify the present invention without departing from the spirit and scope of the present invention as set forth in the claims below. And can be changed.
Many embodiments other than the above-described embodiments exist within the claims of the present invention.

REFERENCE-SIGNS-LIST
10: main body
12: body
14: vibrating unit
20: light emitting portion
22: LED module
30, 35: contact
32: Gyeongbu
34: soft part
40: light transmitting member
50: diffusion member

Claims

A body having a vibrating portion for generating vibration and a body capable of being gripped;
It is installed on the main body, the light emitting portion is disposed adjacent to the vibration unit and emits light; And
It is mounted on the main body and includes a contact portion that contacts the user's skin,
The contact portion is connected to the vibrating portion and vibrates while contacting the skin,
The light emitting unit provides a light to the contact portion, the contact portion is a skin beauty device for diffusing light to irradiate the skin.

According to claim 1,
The contact portion,
A soft material soft part having one surface contacting the skin;
A skin beauty device having a harder material than the soft part and including a hard part coupled to the other surface of the soft part and connected to the vibration part.

According to claim 2,
A skin beauty device in which the soft portion and the hard portion are integrally formed.
According to claim 2,

The light emitting portion provides light to the hard portion,
The hard part diffuses the provided light to the entire surface, and the scattered light is provided to the soft part to spread the skin beauty device.

According to claim 1,
The contact portion,
Skin beauty device comprising a patting member or scalp care member.

According to claim 1,
It is installed on the body,
A skin cosmetic device interposed between the light emitting part and the contact part, and further comprising a light transmitting member through which light is transmitted.

According to claim 1,
It is installed on the body,
A skin beauty device which is disposed adjacent to a side surface of the contact portion and further includes a diffusion member that diffuses light emitted to the side surface of the light emitting portion to the skin.

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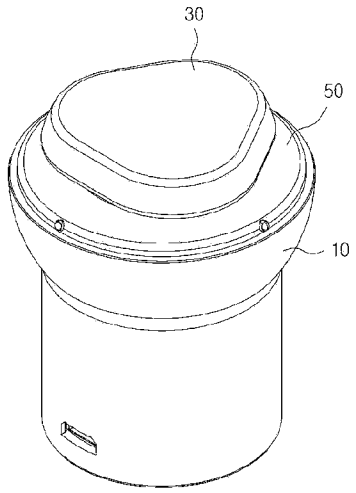
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(54) 발명의 명칭 **피부 미용장치**

(57) 요 약

피부 미용장치가 게시된다. 본 발명에 따른 피부 미용장치는, 진동을 발생시키는 진동부 및 파지가 가능한 몸체를 구비한 본체, 본체에 설치되며 진동부에 인접하여 배치되고 빛을 발산하는 광 발산부 및 본체의 장착되고 사용자의 피부에 접촉하는 접촉부를 포함하고, 접촉부는 진동부에 연결되어 피부에 접촉하면서 진동하며, 광 발산부는 접촉부에 빛을 제공하고 접촉부는 빛을 확산하여 피부에 조사할 수 있다.

대 표 도 - 도1



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명 세 서

청구범위

청구항 1

진동을 발생시키는 진동부 및 파지가 가능한 몸체를 구비한 본체;

상기 본체에 설치되며, 상기 진동부에 인접하여 배치되고 빛을 발산하는 광 발산부; 및

상기 본체의 장착되고 사용자의 피부에 접촉하는 접촉부를 포함하고,

상기 접촉부는 상기 진동부에 연결되어 상기 피부에 접촉하면서 진동하며,

상기 광 발산부는 상기 접촉부에 빛을 제공하고, 상기 접촉부는 빛을 확산하여 상기 피부에 조사하는 피부 미용장치.

청구항 2

제1항에 있어서,

상기 접촉부는,

일면이 상기 피부에 접촉하는 부드러운 재질의 연성부;

상기 연성부보다 단단한 재질을 가지며, 상기 연성부의 타면에 결합되고 상기 진동부에 연결되는 경성부를 포함하는 피부 미용장치.

청구항 3

제2항에 있어서,

상기 연성부와 상기 경성부는 일체로 형성되는 피부 미용장치.

청구항 4

제2항에 있어서,

상기 광 발산부는, 상기 경성부로 빛을 제공하고,

상기 경성부는 제공된 빛을 전면으로 분산하고, 상기 분산된 빛이 상기 연성부로 제공되어 확산되는 피부 미용장치.

청구항 5

제1항에 있어서,

상기 접촉부는,

패팅 부재 또는 두피관리 부재를 포함하는 피부 미용장치.

청구항 6

제1항에 있어서,

상기 본체에 설치되며,

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상기 광 발산부와 상기 접촉부 사이에 개재되며, 빛이 투과되는 투광부재를 더 포함하는 피부 미용장치.

청구항 7

제1항에 있어서,

상기 본체에 설치되며,

상기 접촉부에 측년에 인접하여 배치되며, 상기 광 발산부의 측년으로 발산되는 빛을 상기 피부로 확산하는 확산부재를 디 포함하는 피부 미용장치.

발명의 설명

기 술 분 야

[0001] 본 발녕은 피부 미용장치에 관한 것이다.

배 경 기 술

[0003] 최근 미용 및 의료 기기에 적용을 위한 장치에 대한 수요가 증가하고 있다. 예를 들어, 화장품을 퍼프 등으로 두드러 피부에 펴 바르거나 손에 직접 덜어 펴 바르는 방식은 사용자가 가하는 힘이 일정하지 않기 때문에 최근에는 기계적인 진동을 이용하여 피부에 바를 수 있는 다양한 피부 미용장치가 등장했다.

[0004] 또한, 기계적 진동뿐만 아니라 빛을 이용하여 피부를 케어하는 다양한 장치도 등장하고 있다.

[0005] 그런데, 이러한 장치들은 각기 고유한 피부 미용효과를 가지므로, 사용자가 여러 장치를 구입하여야 하는 어려움이 있다.

발명의 내용

해결하려는 과제

[0007] 본 발명은, 두드림을 통한 피부 미용과 더불어 빛을 이용한 광 테라피(therapy) 효과를 기대할 수 있는 피부 미용장치를 제공하는 것이다.

과제의 해결 수단

[0009] 본 발명의 일 측면에 따르면, 진동을 발생시키는 진동부 및 파지가 가능한 몸체를 구비한 본체, 본체에 설치되며 진동부에 인접하여 배치되고 빛을 발산하는 광 발산부 및 본체의 장착되고 사용자의 피부에 접촉하는 접촉부를 포함하고, 접촉부는 진동부에 인결되어 피부에 접촉하면서 진동하며, 광 발산부는 접촉부에 빛을 제공하고 접촉부는 빛을 확산하여 피부에 조사하는 피부 미용장치가 제공된다.

발명의 효과

[0011] 본 발명의 실시예에 따르면 진동형 미용기구에시 광 테라피에 필요한 빛을 제공하여 2가지의 피부 케어를 동시에 수행할 수 있다.

도면의 간단한 설명

[0013] 도 1은 본 발명의 일 실시예에 따른 피부 미용장치를 나타낸 사시도.

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도 2는 본 발명의 일 실시예에 따른 피부 미용장치를 나타낸 분해 사시도.

도 3은 본 발명의 일 실시예에 따른 피부 미용장치를 부분적으로 투영하여 나타낸 사시도.

도 4는 본 발명의 일 실시예에 따른 피부 미용장치를 부분적으로 투영하여 나타낸 측면도.

도 5 및 도 6은 본 발명의 일 실시예에 따른 피부 미용장치의 동작을 예시한 사진.

도 7은 본 발명의 다른 실시예에 따른 피부 미용장치를 나타낸 사시도.

발명을 실시하기 위한 구체적인 내용

[0014] 이하에서 본 발명의 실시예를 첨부도면을 참조하여 상세하게 설명한다.

[0015] 도 1은 본 발명의 일 실시예에 따른 피부 미용장치를 나타낸 사시도이고, 도 2는 본 발명의 일 실시예에 따른 피부 미용장치를 나타낸 분해 사시도이고, 도 3은 본 발명의 일 실시예에 따른 피부 미용장치를 부분적으로 투영하여 나타낸 사시도이다.

[0016] 도 1 내지 도 3을 참조하면, 본 발명의 일 실시예에 따른 피부 미용장치는, 본체, 광 발산부 및 접촉부를 포함한다.

[0018] 본체(10)는 사용자가 파지할 수 있고 부품들이 설치되는 공간을 제공하는 부분이다. 본체(10)는 잡을 수 있는 몸체(12)를 가지며, 몸체(12)의 내부는 비어 있어서 필요한 부품이 설치될 수 있다. 특히, 본체(10)에는 진동을 발생시키는 진동부(14)가 구비된다.

[0019] 도 2 및 도 3을 참조하면, 몸체(12)의 내부에 진동부(14)가 설치될 수 있다. 몸체(12)가 원통형 구조를 가지고, 원통형 몸체(12)의 내부에 진동을 발생시키도록 모터, 스프링, 진동판, 샤프트 등의 진동 발생 및 전달 부품이 설치될 수 있다. 또한, 몸체(12)의 외부에는 사용자가 장치를 작동시키고 모드를 조절하는 버튼(13)이 형성될 수 있다.

[0021] 광 발산부(20)는, 광 테라피에 필요한 빛을 발생시키는 부분이다. 후술한 접촉부(30)에 빛을 공급할 수 있도록, 본체(10)에 설치되고 접촉부(30)와 결합되는 진동부(14)에 인접하여 배치된다.

[0022] 도 2 및 도 3을 참조하면, 광 발산부(20)는 몸체(12)의 내부에 설치되며, 진동부(14)를 둘러싸게 배치된 기판(24) 및 기판(24)에 설치된 엘이디 모듈(22)을 포함할 수 있다. 엘이디 모듈(22)은, 접촉부(30)가 장착되는 방향을 향하여 빛을 발산할 수 있도록 배치된다.

[0024] 접촉부(30)는, 사용자 피부에 접촉하여 진동을 진달하고 사용자의 피부에 빛도 조사한다. 접촉부(30)는 진동부(14)에 연결되어 본체(10)에 장착되고, 접촉부(30)는 사용자의 피부에 접촉하고 진동을 전달하여 두드림 또는 마사지를 할 수 있다. 더불어, 광 발산부(20)에서 빛을 제공받고, 제공받은 빛을 확산하여 사용자의 피부에 광 테라피에 필요한 빛도 조사할 수 있다. 따라서, 진동형 미용기구에서 광 테라피에 필요한 빛도 제공하여 2가지의 피부 케어를 동시에 수행할 수 있다.

[0025] 도 4는 본 발명의 일 실시예에 따른 피부 미용장치를 부분적으로 투영하여 나타낸 측면도이다.

[0026] 도 2 내지 도 4를 참조하면, 본 실시예의 접촉부(30)는 피부에 접촉하는 부드러운 재질의 연성부(34) 및 진동부(14)에 연결되는 경성부(32)로 이루어질 수 있다. 예를 들어, 접촉부(30)가 패팅(patting) 부재일 때에 이에 접착하도록, 연성부(34)는 사용자 피부에 접촉하는 일면이 평평하게 형성되고, 두드림 또는 마사지에 적합하도록 실리콘과 같은 부드러운 재질로 이루어질 수 있다. 그리고, 연성부(34)의 반대면에는 연성부(34)보다 단단한 재질의 경성부(32)가 결합되어 연성부(34)를 지지할 수 있다. 경성부(32)는 연성부(34)를 지지하면서 진동부(14)에 연결되어, 진동을 고르게 연성부(34)에 전달할 수 있다. 경성부(32)는 평평한 일면을 가지는 연성부(34)를 고르게 지지하고 진동을 전달하도록 판형 구조를 가질 수 있다.

[0027] 또한, 연성부(34)는 빛을 확산하여 피부에 조사할 수 있도록 반투명 재질일 수 있다. 이 때, 경성부(32)는 연성부(34)로 빛을 고르게 분산시키는 렌즈와 같은 역할을 하는 재질 및 형상을 가질 수 있다. 이에 따라, 광 발산

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부(20)는 경성부(32)로 빛을 제공하고, 경성부(32)는 제공된 빛을 전면으로 분산할 수 있다. 그리고 경성부(32)의 전면으로 분산된 빛은 연성부(34)에 제공되어 피부를 향하여 확산될 수 있다.

[0028] 도 5 및 도 6은 본 발명의 일 실시예에 따른 피부 미용장치의 동작을 예시한 사진이다.

[0029] 도 5 및 도 6을 참조하면, 접촉부(30)는 본체(10)에 장착되어 진동뵘과 더불어 빛을 확산하여 발산함을 확인할 수 있다. 따라서, 두드림 또는 마사지에 필요한 진동을 진달하면시 동시에 광 테라피에 필요한 빛을 사용자의 피부에 제공할 수 있다.

[0030] 한편, 본 실시예에서는 연성부(34)와 경성부(32)가 따로 형성되어 결합되는 구조를 제시하였으나 이에 한정되는 않으며 연성부(34)와 경성부(32)는 일체로 형성될 수 있다. 예를 들어, 이중 사출을 이용하여 2가지 다른 재질의 연성부(34)와 경성부(32)를 일체로 형성할 수도 있다. 이중사출은 하나의 금형에서 한 번의 사이클로 이종의 수지를 성형하는 사출방법이다. 이중사출은 한빈의 성형으로 2개의 부품을 일체로 성형하므로 비용을 절감하고 다양한 디자인이 제품생산을 가능하게 한다.

[0032] 본 실시예의 피부 미용장치는 광 발산부(20)를 보호하고 본체(10)로 이물실의 유입을 최소화하기 위하여 광 발산부(20)를 덮는 투광부재(40)를 디 포함할 수 있다.

[0033] 도 2 및 도 6을 참조하면, 투광부재(40)는 본체(10)에 설치되며, 광 발산부(20)와 접촉부(30) 사이에 개재될 수 있다. 투광부재(40)의 중심에는 관통홀이 형성되어 진동부(14)가 지나서 접촉부(30)와 연결될 수 있다. 투광부재(40)는 빛이 통과될 수 있도록 광투과성 재질로 이루이진다.

[0035] 또한, 본 실시예의 피부 미용장치는 빛이 조사되는 면적을 확대시키기 위하여 접촉부(30)의 측면에 배치된 확산부재(50)를 더 포함할 수 있다. 확산부재(50)는 광 발산부(20)의 측면으로 발산되는 빛도 피부로 확산시킬 수 있다.

[0036] 도 2 및 도 3을 참조하면, 접촉부(30)의 일면에서 볼 때에, 확산부재(50)는 접촉부(30)의 바깥 쪽으로 넓혀진 형상을 가진다. 즉, 사용자의 피부로 빛을 조사하는 면적을 넓히는 구조를 가질 수 있다. 본 실시예의 확산부재(50)는 접촉부(30)보다 넓은 일면을 가지고 중심에 투광부재(40)가 장착되는 구조를 가질 수 있다.

[0037] 도 5 및 도 6을 참조하면, 접촉부(30)와 확산부재(50)가 모두 사용자를 향하여 광 테라피에 필요한 빛을 넓게 조사하는 것을 확인할 수 있다.

[0039] 도 7은 본 발명의 다른 실시예에 따른 피부 미용장치를 나타낸 사시도이다.

[0040] 도 7을 참조하면, 본 실시예의 따른 피부 미용장치에서 접촉부(35)는 두피관리 부재를 포함할 수 있다. 두피관리 부재는 상술한 접촉부(35)의 일면(36)에 디수의 돌기 구조(38)가 형성된 특징이 있다. 이 때, 돌기 구조(38)도 빛을 전달 받아서 확산 시킬 수 있다. 이에 따라, 머리카락 사이에 두피관리 부재의 돌기 구조(38)를 삽입하여 진동 및 빛을 두피에 효괴적으로 전달할 수 있다.

[0041] 또한, 돌기 구조(38)는 베치 위치미디 높이가 디르게 헝성될 수도 있다. 예를 들어, 접촉부(35)의 중심부에 배치된 돌기 구조는 외곽에 배치된 돌기 구조보다 높이가 높게 형성될 수 있다.

[0042] 패팅 부재와 두피관리 부재는 본체(10)에 탈부착이 가능한 형태로 형성되어, 사용자가 선택적으로 패팅 부재 또는 두피관리 부재를 장착하여 사용할 수 있다.

[0044] 상기에서는 본 발명의 실시예를 참조하여 설명하였지만, 해당 기술 분야에서 통상의 지식을 가진 자라면 하기의 특허 청구의 범위에 기재된 본 발명의 사상 및 영역으로부터 벗어나지 않는 범위 내에서 본 발명을 다양하게 수정 및 변경시킬 수 있음을 이해할 수 있을 것이다.

[0045] 전술한 실시예 외의 많은 실시예들이 본 발명의 특허청구범위 내에 존재한다.

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부호의 설명

[0047] 10: 본체

12: 몸체

14: 진동부

20: 광 발산부

22: 엘이디 모듈

30, 35: 접촉부

32: 경성부

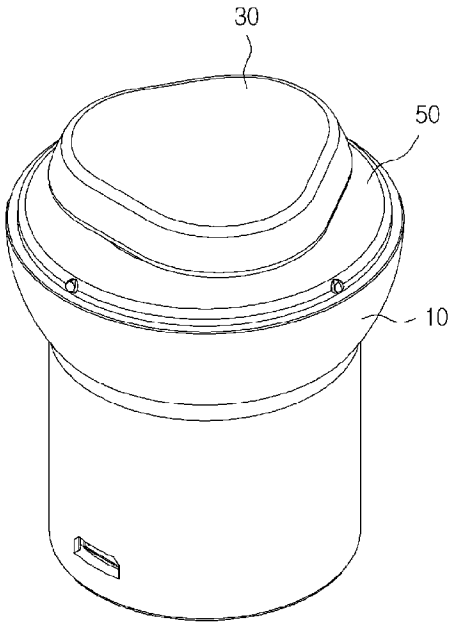
34: 연성부

40: 투광부재

50: 확산부재

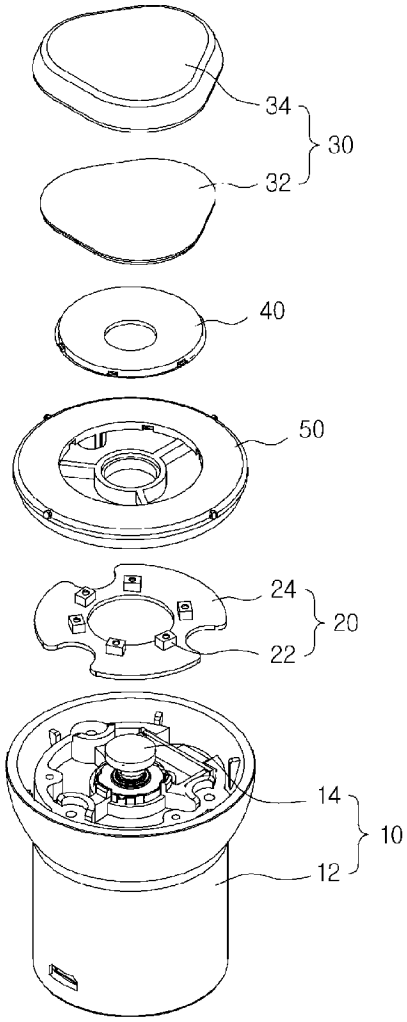
도면

도면1



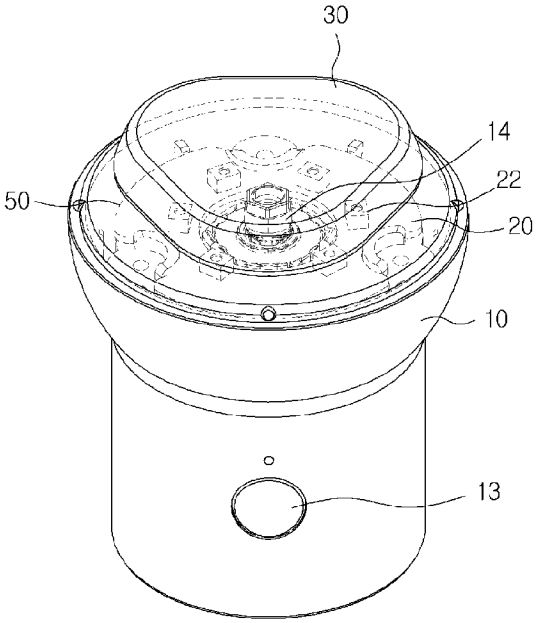
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도면2

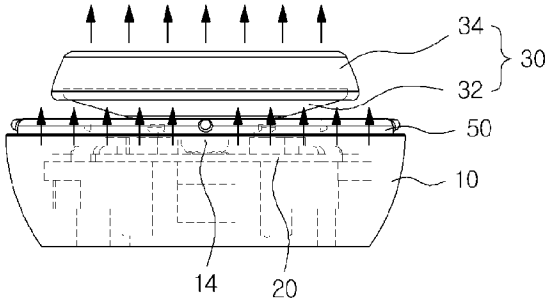


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도면3

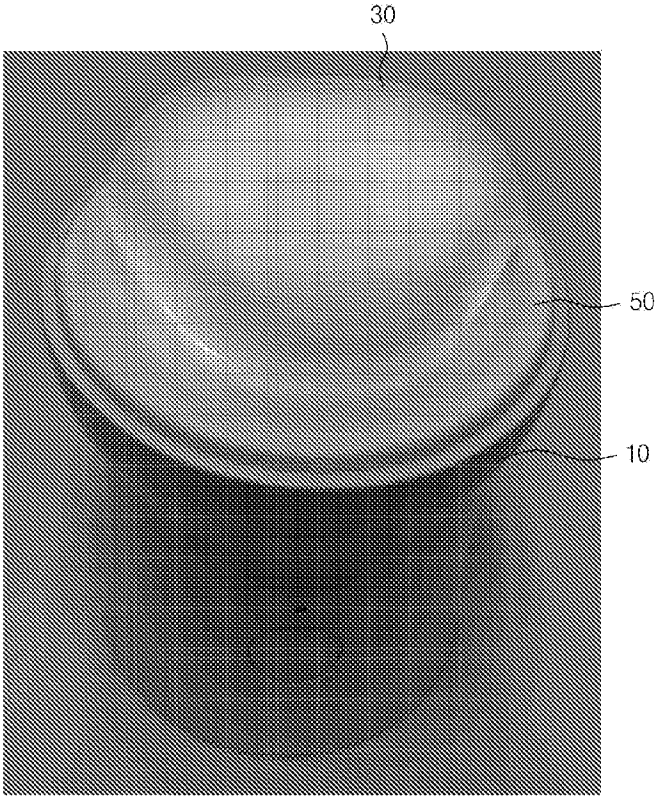


도면4



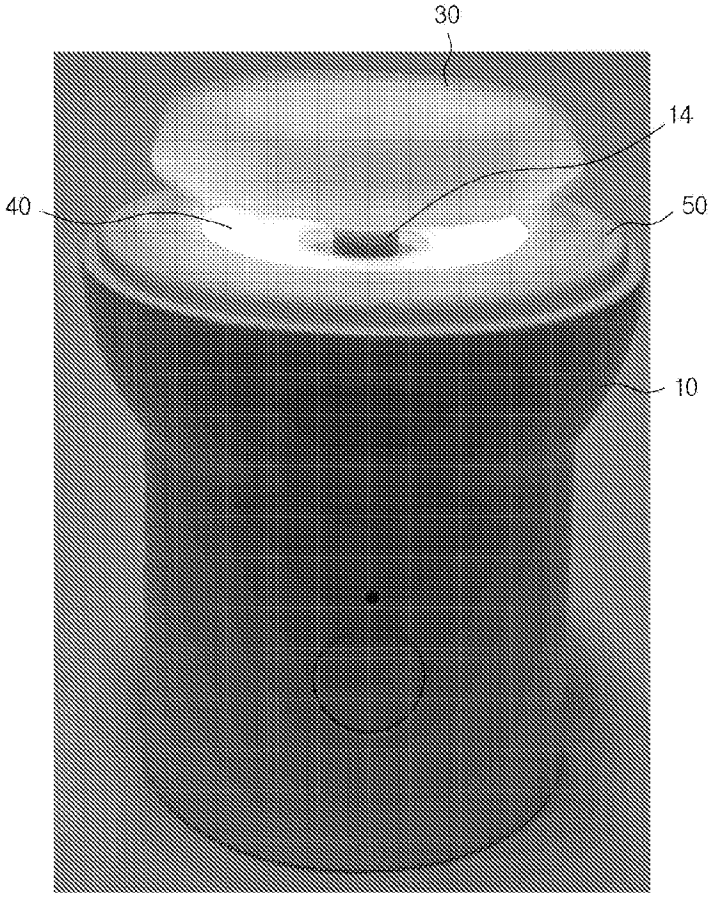
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도 5

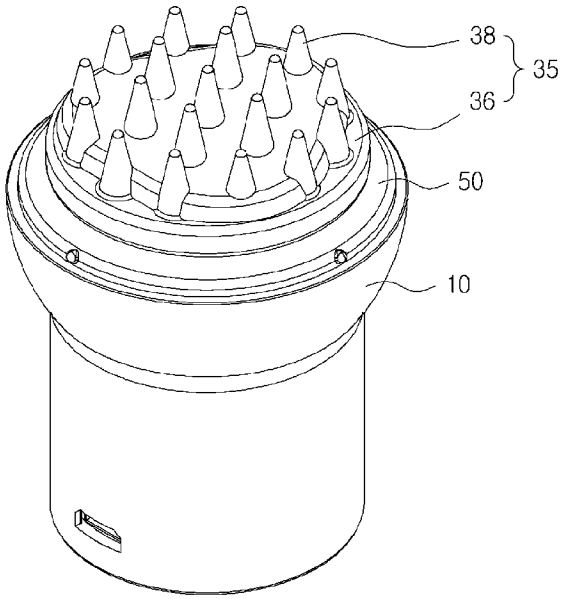


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도면6



도면7



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Tang	Richard	Search

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Wersland	John	Search

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/705,300	Wersland et al.
	Examiner	Art Unit
	CHRISTOPHER E MILLER	3785

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant			☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE								
Final	Original	06/10/2022								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
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	18	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/705,300	Wersland et al.
	Examiner	Art Unit
	CHRISTOPHER E MILLER	3785

CPC - Searched*		
Symbol	Date	Examiner
A61H 23/00,006; 7/00; 15/02; 22010/10, 105, 0153; A46B 13/02; 2200/102; A61M 35/003; A61N 2005/0644; 5/0616; A61F 2007/0087	06/07/2022	CEM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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Search Notes		
Search Notes	Date	Examiner
PE2E Keyword text search	06/04/2022	CEM
Inventor search	06/04/2022	CEM
Reviewed search history and search notes of application 17/361,966	06/04/2022	CEM

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/CHRISTOPHER E MILLER/ Examiner, Art Unit 3785	

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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N	KR-20200051098-A	05-2020	KR	Lee; Chil Sung	
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	Q					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 17/705,300	Applicant(s)/Patent Under Reexamination Wersland et al.	
	Examiner CHRISTOPHER E MILLER	Art Unit 3785	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-4513737-A	04-1985	Mabuchi; Kenichi	A61H23/0254	601/108
*	B	US-4088128-A	05-1978	Mabuchi; Kenichi	A61H23/0254	601/108
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FOREIGN PATENT DOCUMENTS

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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/705,300	03/26/2022	Jason Wersland	76840-5199	2416

24574 7590 06/16/2022

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EXAMINER
MILLER, CHRISTOPHER E

ART UNIT	PAPER NUMBER
3785	

NOTIFICATION DATE	DELIVERY MODE
06/16/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@jmbm.com

Office Action Summary	Application No. 17/705,300	Applicant(s) Wersland et al.	
	Examiner CHRISTOPHER E MILLER	Art Unit 3785	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 26 March 2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-18 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-18 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 3/26/2022 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 3/26/2022.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Hyperice IP Subco Ex. 2014 - Page 973
Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Status of Claims

2. Claims 1-18 are pending and currently under consideration for patentability under 37 CFR 1.104.

Claim Interpretation

3. The following is a quotation of 35 U.S.C. 112(f):

> (f) Element in Claim for a Combination. – An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

The following is a quotation of pre-AIA 35 U.S.C. 112, sixth paragraph:

> An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

4. The claims in this application are given their broadest reasonable interpretation using the plain meaning of the claim language in light of the specification as it would be understood by one of ordinary skill in the art. The broadest reasonable interpretation of a claim element (also commonly referred to as a claim limitation) is limited by the description in the specification when 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, is invoked.

As explained in MPEP § 2181, subsection I, claim limitations that meet the following three-prong test will be interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph:

(A) the claim limitation uses the term "means" or "step" or a term used as a substitute for "means" that is a generic placeholder (also called a nonce term or a non-structural term having no specific structural meaning) for performing the claimed function;

(B) the term "means" or "step" or the generic placeholder is modified by functional language, typically, but not always linked by the transition word "for" (e.g., "means for") or another linking word or phrase, such as "configured to" or "so that"; and

(C) the term "means" or "step" or the generic placeholder is not modified by sufficient structure, material, or acts for performing the claimed function.

Use of the word "means" (or "step") in a claim with functional language creates a rebuttable presumption that the claim limitation is to be treated in accordance with 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph. The presumption that the claim limitation is interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, is rebutted when the claim limitation recites sufficient structure, material, or acts to entirely perform the recited function.

Absence of the word "means" (or "step") in a claim creates a rebuttable presumption that the claim limitation is not to be treated in accordance with 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph. The presumption that the claim limitation is not interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, is rebutted when the claim limitation recites function without reciting sufficient structure, material or acts to entirely perform the recited function.

Claim limitations in this application that use the word "means" (or "step") are being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, except as otherwise indicated in an Office action. Conversely, claim limitations in this application that do not use the word "means" (or "step") are not being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, except as otherwise indicated in an Office action.

5. This application includes one or more claim limitations that do not use the word "means," but are nonetheless being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, because the claim limitation(s) uses a generic placeholder that is coupled with functional language without reciting sufficient structure to perform the recited function and the generic placeholder is not preceded by a structural modifier. Such claim limitation(s) is/are:

a. "push rod assembly operatively connected to the motor… includes an attachment member … configured to reciprocate in response to activation of the motor at a linear velocity between 0.06 m/s and 0.5 m/s" in claim 1.

b. "push rod assembly operatively connected to the motor… includes an attachment member … configured to reciprocate in response to activation of the" in claim 17.

Because this/these claim limitation(s) is/are being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, it/they is/are being interpreted to cover the corresponding structure described in the specification as performing the claimed function, and equivalents thereof.

If applicant does not intend to have this/these limitation(s) interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, applicant may: (1) amend the claim limitation(s) to avoid it/them being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph (e.g., by reciting sufficient structure to perform the claimed function); or (2) present a sufficient showing that the claim limitation(s) recite(s) sufficient structure to perform the claimed function so as to avoid it/them being interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph.

Claim Objections

6. Claims 6 and 14-15 are objected to because of the following informalities:

Claim 6, line 2 recites "includes shaft" which has omitted an article such as --a-- or --the--.

Claim 14, line 2 recites "includes shaft" which has omitted an article such as --a-- or --the--.

Claim 15, line 1 recites "the sleeve" and Examiner suggests --the flexible sleeve-- in order to use consistent language with the previously recited "flexible sleeve."

Appropriate correction is required.

Claim Rejections - 35 USC § 112

7. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 3-4 and 17-18 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and

distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention.

Claim 3, lines 3-4 recite "the reciprocating attachment member" which lacks antecedent basis. The claims have previously recited "a reciprocating attachment" and "an attachment member" as two separate structures, but they have not previously recited "a reciprocating attachment member." Thus, it is unclear if "the reciprocating attachment member" is intended to refer to "the reciprocating attachment" or to "the attachment member."

Claim 17, line 13 recites "the reciprocating attachment" which lacks antecedent basis. It appears that Applicant may have intended to refer to --the cleansing attachment--. Alternatively, Applicant may have intended to introduce a reciprocating attachment.

The remaining claims are rejected based upon their dependence on a rejected base claim.

Claim Rejections - 35 USC § 103

9. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

10. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have

been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claim(s) 1-2 and 7 are rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128) (hereinafter "Mabuchi '128") and Fuhr (2014/0031866).

Regarding claim 1, Mabuchi discloses a vibration therapy device (Fig. 1) comprising: a housing (body 1, Fig. 1) that includes a handle portion (handle 2, Fig. 1) and a head portion (space guide 5, Fig. 1), an electrical source ("electric motor" see col. 10, line 36, thus there is an electrical source connected with the motor 20), a motor (motor 20, Fig. 1) positioned in the housing (1), a push rod assembly (motor output shaft 21, rotating disc 17, rod shaft 18, crankshaft 19, rod shaft 3, actuator 4, patter connecting mechanism 14, and coupling 14, Figs. 1-2; see col. 2, lines 43-52) operatively connected (via motor shaft 21 rotating disc 17, Figs. 1-2; see col. 2, lines 43-52) to the motor (20), wherein the push rod assembly includes an attachment member (coupling 14 and distal end of actuator 4, Figs. 18-19) that defines the distal end of the push rod assembly (the distal end is the left face of coupling 14, and the distal end of rod 4 in Fig. 19), wherein the attachment member (14, 4) is configured to reciprocate in response to activation of the motor (20; see Figs. 3-5; see also col. 2, lines 43-52) at a linear velocity (the reciprocation is in a linear direction and has a velocity, see col. 3, lines 38-63), wherein the attachment member includes a first magnet (magnet 43, Figs. 18-19), a reciprocating attachment (flange 15, tube 10, patter body 9, plate member 7, cushion member 8, Figs. 18-19) removably received on the attachment member (via magnets 43, 44, Figs. 18-19), wherein the reciprocating attachment includes a second magnet (magnet 44, Figs. 18-19) that is magnetically attracted to the first magnet (43) to

secure the reciprocating attachment on the attachment member (see col. 8, lines 11-15 and Figs. 18-19).

Mabuchi is silent regarding a switch for activating the motor; the velocity being between 0.06 m/s and 0.5 m/s.

Mabuchi '128 teaches a related reciprocating device (Fig. 1, Fig. 5) with an electrical source (battery device housed in control box 18, Fig. 5; see col. 3, lines 30-32), a switch (switch 19, Fig. 5) for activating the motor ("when the switch 19 is turned on, the motor 15 is energized" see col. 3, lines 30-32) and a velocity selecting knob (speed adjusting knob 20, labeled as "10" in Fig. 5; see col. 3, lines 37-39; see also col. 8, lines 24-26) to allow the rate of reciprocation/tapping to be freely selected (col. 3, lines 37-39).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the electrical source of Mabuchi to include a battery device with a switch for activating the motor, and a knob to adjust the velocity of reciprocation/tapping by adjusting the voltage to the motor as taught by Mabuchi '128 so that each user can freely adjust the speed of reciprocation/tapping to best suit their particular needs.

The modified Mabuchi/Mabuchi '128 device thus has an electric motor (20, Fig. 1 of Mabuchi) wherein the reciprocating velocity depends upon the rotation speed of the motor (see col. 3, lines 38-50 of Mabuchi), and the motor speed is freely adjustable by a velocity selecting knob (20, Mabuchi '128) adjusting the voltage supplied to the motor (see col. 3, lines 37-39 of Mabuchi '128). The modified device does not specifically state that the velocity is between 0.06 m/s and 0.5 m/s.

Fuhr teaches a related reciprocating device (Fig. 1) with an electrical source (removable battery 30, Fig. 2) and a switch (triggering system 120, Fig. 1) for activating a motor (solenoid 82, Fig. 4) to reciprocate a skin-contacting attachment (nose piece 98, Fig. 4). Fuhr discloses the linear velocities of up to four different settings of various reciprocating devices (see the table above [0076]), and these velocities range from 0.44 m/s to 1.82 m/s (see the table above [0076]).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the freely adjustable velocity setting knob of Mabuchi/Mabuchi '128 to include velocity settings that would cover *at least* 0.44 m/s to 1.82 m/s as generally taught by Fuhr because these velocities are shown to be suitable in prior art reciprocating devices and different speed settings would be desirable for different uses and different patients. Furthermore, it has been held that where the general conditions of a claim are disclosed in the prior art (Mabuchi/Mabuchi '128 discloses a freely adjustable velocity knob for providing reciprocating or patting treatment to the skin), discovering the optimum or workable ranges (such as 0.06-0.5 m/s) involves only routine skill in the art. *In re Aller*, 105 USPQ 233. MPEP 2144.05. Lastly, it is noted that even at higher velocities such as 1.82 m/s, there will at least be moments during reciprocation where the velocity is between 0.06-0.5 m/s, because the velocity approaches zero when the periodic reciprocating movement reverses direction (see col. 3, lines 52-53 of Mabuchi).

Regarding claim 2, the modified Mabuchi/Mabuchi '128/Fuhr device discloses wherein the reciprocating attachment (flange 15, tube 10, patter body 9, plate member 7, cushion member 8, Figs. 18-19 of Mabuchi) includes an attachment member recess

defined therein (flange 15 and tube 10 define a recess to receive the distal end of actuator rod 4, see Figs. 18-19 of Mabuchi), wherein the attachment member is received in the attachment member recess (distal end of rod 4 is received in the recess of 15, 10, see Fig. 18 of Mabuchi), wherein the attachment member defines an attachment member diameter (diameter of actuator rod 4, Figs. 18-19 of Mabuchi) and the attachment member recess defines an attachment member recess diameter (the diameter of the recess formed by flange 15 and tube 10, Fig. 18 of Mabuchi), wherein the attachment member diameter (diameter of rod 4, Fig. 18 of Mabuchi) is smaller than the attachment member recess diameter (the rod 4 fits within the recess formed by flange 15 and tube 10, Figs. 18-19 of Mabuchi. Thus, the rod diameter is smaller than the attachment member recess diameter), and wherein the first and second magnets (43, 44, Fig. 18 of Mabuchi) secure the reciprocating attachment on the attachment member during reciprocation (see col. 8, lines 11-15 and Figs. 18-19 of Mabuchi).

Regarding claim 7, the modified Mabuchi/Mabuchi ‘128/Fuhr device discloses wherein the attachment member (14, 4, Fig. 18 of Mabuchi) is configured to reciprocate in response to activation of the motor at a linear velocity between 0.11 m/s and 0.4 m/s (the has been modified so that the adjustable velocity knob of Mabuchi ‘128 covers velocities of at least 0.44 m/s to 1.82 m/s as generally taught by Fuhr. Furthermore, there will at least be moments during reciprocation where the velocity is between 0.11-0.4 m/s, because the velocity approaches zero when the periodic reciprocating movement reverses direction, see col. 3, lines 52-53 of Mabuchi).

Additionally, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the freely adjustable

velocity setting knob of Mabuchi/Mabuchi '128/Fuhr to include velocity settings that would cover *at least* 0.11 m/s to 1.82 m/s to provide a wider range of treatment speeds to better meet the needs of different uses and different patients, since it has been held that where the general conditions of a claim are disclosed in the prior art (Mabuchi/Mabuchi '128 discloses a freely adjustable velocity knob for providing reciprocating or patting treatment to the skin), discovering the optimum or workable ranges (such as 0.11-0.4 m/s) involves only routine skill in the art. *In re Aller*, 105 USPQ 233. MPEP 2144.05.

12. Claim 3 is rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128) (hereinafter "Mabuchi '128") and Fuhr (2014/0031866) as applied to claim 2 above, and further in view of Lee et al. (KR 10-2020-0051098).

Regarding claim 3, the modified Mabuchi/Mabuchi '128/Fuhr device discloses wherein the reciprocating attachment [member] (flange 15, tube 10, patter body 9, plate member 7, cushion member 8, Figs. 18-19 of Mabuchi) defines a reciprocating attachment diameter (diameter of cushion member 8, for example) configured to reciprocate, but is silent regarding a module seat defined on the head portion, a ring module is removably secured to the module seat, wherein the ring module includes a central opening that defines a central opening diameter, wherein the central opening diameter is larger than the reciprocating attachment diameter, such that the reciprocating attachment is configured to reciprocate within and relative to the ring module.