PTO/AIA/15 (03-13)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	1859.029USC14 (KRU0022-WO-US-T15)
First Named Inventor	Marc Krüger
Title	PORTION CAPSULE HAVING AN IDENTIFIER
Express Mail Label No.	Via EFS at USPTO.GOV on February 14, 2022

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. [ ] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [ ] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [✓] **Specification** [*Total Pages* 20] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [✓] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 12]
6. **Inventor's Oath or Declaration** [*Total Pages* 1] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [ ] Newly executed (original or copy)
   b. [✓] A copy from a prior application (37 CFR 1.63(d))
7. [✓] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

ADDRESS TO:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. [ ] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [✓] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [✓] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [✓] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [✓] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [✓] **Other:** USPTO is hereby authorized to charge any additional fees required under 37 C.F.R. Sec. 1.16; 1.17 and 1.21 to Deposit Acct. No. 50-1097 - Track One Request - Substitute Specification- Clean & Marked Up / Replacement Drawings

***Note**: (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

[✓] The address associated with Customer Number: 25215 **OR** [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Paul J. Palinski/	Date	February 14, 2022
Name (Print/Type)	Paul J. Palinski	Registration No. (Attorney/Agent)	71080

This collection of information is required by 37 CFR 1.53(b). 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 1.11 and 1.14. This collection is estimated to take 12 minutes 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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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 disclosure of these records is required by the Freedom of Information Act.
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 inspection 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.

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Marc Krüger	Nonprovisional Application Number (if known):	
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Paul J. Palinski/	Date February 14, 2022
Name (Print/Typed) Paul J. Palinski	Practitioner Registration Number 71,080

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☑ *Total of 1 forms are submitted.

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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 disclosure of these records is required by the Freedom of Information Act.
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).
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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.
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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.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [x] The attached application, or
- [ ] United States application or PCT international application number PCT/EP2011/003677 filed on July 22, 2011

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Marc KRÜGER Date (Optional): 17.01.13

Signature: M. Krüger

Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1.11 and 1.14. This collection is estimated to take 1 minute 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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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 25215

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

K-fee System GmbH

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	24.08.2016
Name	Mark Krüger		
Title	CEO		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 1.11 and 1.14. This collection is estimated to take 3 minutes 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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PORTION CAPSULE HAVING AN IDENTIFIER

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit from and is a divisional of U.S. Application No. 15/211,823 filled July 15, 2016 entitled PORTION CAPSULE HAVING AN IDENTIFIER, which claims benefit from and is a continuation of U.S. Application No. 13/744,623, filed January 18, 2013, entitled PORTION CAPSULE HAVING AN IDENTIFIER, which claims benefit from International Application No. PCT/EP2011/003677, filed on July 22, 2011, entitled PORTION CAPSULE HAVING AN IDENTIFIER, which applications are hereby incorporated by reference in their entirety.

BACKGROUND

[0002] The present invention relates to a portion capsule for producing a beverage, comprising a base element having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element.

[0003] Such capsules are well known and are being launched onto the market in abundant variety. Since these capsules are often quite similar, it is possible that the manufacturer's capsules are used in a coffee machine designed by another manufacturer, although they are not suited for it. This may result in significant security issues and/or the coffee machine may be damaged.

[0004] The object of the present invention is therefore to provide a portion capsule which only is suitable for a specific coffee machine.

SUMMARY

[0005] The object is accomplished according to the present invention by a portion capsule for producing a beverage, comprising a base element having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element, wherein it has an identifier, which allows to individualize the respective portion capsule.

[0006] The present invention relates to a capsule for producing a beverage or foodstuff, comprising a base element having a cavity in which a beverage raw material is provided. Such capsules are, for example made of plastic, natural materials and/or biodegradable materials

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and substantially have a base element, in particular a deep-drown base element, i.e. it is substantially designed frustoconically or cylindrically. The beverage raw material is arranged within the portion capsule's cavity and is extracted and/or dissolved in a liquid, in particular water. After the beverage raw material has been filled into the cavity the base element is usually sealed by a membrane. In particular the membrane is localized on the opposite side of the base element's bottom. The membrane can be made of the same or different material as the base element and is substantially attached to the base element using a sealing and/or an adhesive bonding. Additionally the cavity could contain one or several built-in elements, such as, for example a filter, a non-woven, a felt, a shut-off device and/or something similar to those. For the case that a non-woven and a felt are arranged within the cavity, they are interconnected preferably. The non-woven and/or the felt can be made of several layers in such a way that the layers may differ in the kind of its starting material and/or its preparation. Moreover the membrane and/or the bottom can be provided with a plurality of recesses (holes).

[0007] According to the present invention, it is provided that the portion capsule has an identifier that allows to individualize the respective portion capsule. In the context of this invention individualizing means that the respective portion capsule can be assigned to a group of capsules that are suitable for the coffee machine preferably. It is not necessary that the coffee machine is able to specify and/or identify the portion capsule. In fact it is much more important that the coffee machine associates the portion capsule with a group of portion capsules, which is suitable for the coffee machine. In particular, individualizing means that those portion capsules that are not appropriate for the coffee machine cannot be inserted into and/or directly fall through the holder, which is designed for the portion capsules in the coffee machine, and/or the coffee machine operates only with the corresponding portion capsules. Preferably a sensor/detection system handles the identifier and compares it with a stored reference substantially. Preferably, the coffee machine, in particular the water-providing-pressure pump, will be activated if the detected identifier matches with the reference. Otherwise the coffee machine will not start operating. Preferably the detection system is placed in the region of the coffee machine's media chute designed for the portion capsules. According to another preferred embodiment of the invention, the detection system may be placed in the region of the brewing chamber. Another possible embodiment of the invention provides that the identifier prevents portion capsules from inserting into the coffee machine. Alternatively or additionally, means, in particular mechanical means, more preferably, one or

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more gearwheels, may be added to the media chute in order to guarantee that incorrect portion capsule cannot be inserted into the coffee machines by passing the media chute.

[0008] Preferably the identifier is composed of surface areas having different optical properties, for example reflection. These surfaces may be localized on the membrane, the side wall and/or the bottom of the portion capsules. Preferably, the portion capsule has at least two areas which differ in their optical properties, for example the reflection characteristics.

[0009] The detection of a recess and/or a bulge is also preferred. Preferably, recess and bulges alternate and/or at least two recesses or bulges are separately placed from each other. Especially it is possible that the recess and/or the bulge form a gearwheel that is attached to the outer border and/or at least partially extends to the wall region of the portion capsule. The recess and/or bulge may be produced by any shaping method, for example by deep drawing, preferably.

[00010] Furthermore, the recess may be realized by removing material. In particular the material's remove can be accomplished by punching or using a laser on condition that this processing does not damage a barrier layer placed in the portion capsule's material, which prevents moisture or aroma from escaping out of the portion capsule and/or water vapor or oxygen enters the capsule. The reading of the identifier, which is encoded in the recess and/or bulge, may be a result from a mechanical and/or optical method, for example. Alternatively or additionally, the identifier can be used to avoid that the portion capsule is inserted into the coffee machine. This applies in particular to the media chute. For example it is possible to design a portion capsule comprising a ring gear that is placed on its circumference and is compatible with another ring gear, which is placed in the media chute. If the media chute's ring gear only revolves for a corresponding ring gear of the portion capsule and its revolving allows the portion capsule to pass, only portion capsules equipped with the proper ring gear will pass the insertion lock.

[00011] According to a further subject matter of a preferred development of the present invention, the identifier may be included in the membrane. Preferably, the identifier is a layer or partial layer of the membrane. Such identifiers may be an optically detectable material, for example a fluorescent material. Furthermore, the identifier may be designed with layers made

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of metal or ferrous metal or stripes made of metal or ferrous metal in or on the membrane, respectively.

[00012] Preferably the identifier is a machine-readable imprint. This is realized with a print in food approved color, preferably. Fluorescent materials like paper or print materials, whose optical properties change under the influence of temperature, are favored also. Preferably the print is a barcode, a logo or a rapport.

[00013] According to a further subject matter of a preferred development of the present invention, the identifier is an electrically conductive section, which can be placed all over the portion capsule, but is localized on the side wall, the edge and / or the floor preferably. The electrically conductive section, which is inserted into the coffee machine, can become part of an electric circuit and causes therefore a measurable change, which leads to the identification of the respective portion capsule. In a further preferred embodiment, the identifier is a section made of a ferromagnetic material.

[00014] Another construction version favors a RFID chip being the identifier.

[00015] If the portion capsule is customized according to the invention, portion capsules that are not in line with the coffee machine will be prevented from inserting into the coffee machine. Furthermore it is possible that the identifier allows to identify the portion capsule located in the brewing chamber in such a way that the production process of beverage or food may be controlled, for example by adjusting the temperature, the pressure and/or the amount of water.

[00016] According to a further subject matter of a preferred development of the present invention, the portion capsule's material is weakened in the bottom area caused by a selective material removal, for example by using a laser. The weakening is provided for piercing the portion capsules using a mandrel. This procedure is needed for the beverage's preparation. Since the material is weakened in the section, which is treated with a laser and is supposed to be pierced using the mandrel, the degree of necessary force for piercing the portion capsule is reduced. The mandrel of such coffee machines is usually equipped with a force limitation that limits the force, which is dedicated for pressing the mandrel against the portion capsule's bottom. This preparation avoids that portion capsules having no appropriate weakening can be

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used in such a coffee machine. Consequently the weakening represents another kind of identifier.

[00017] According to a further subject matter of a preferred development of the present invention, the portion capsule has an edge region, which is preferably attached to the base element. Preferably, the edge is located opposite of the base element's bottom area. After the raw material has been filled in the portion capsule, a membrane can be attached to this edge region, for instance. Moreover the edge can also designed for guiding the portion capsule into the chute in order to position the portion capsule in the brewing chamber properly. Simultaneously it is possible to use the surface of the edge for stopping and/or sealing.

[00018] Preferably provision is made for the portion capsule to have means for fit locking, friction locking and/or detection in the edge region. The means for fit locking and/or friction locking may be used to activate a complementary mechanism, which is located in the coffee machine, in order to allow inserting the portion capsule into the coffee machine and/or starting a sensor, like a gearwheel, that transmits a signal to a control unit depending on whether the portion capsule corresponds to the coffee machine or not. Alternatively or additionally, a detector may identify the mean for fit locking, friction locking and/or detection in order to check that the portion capsule is suitable to the respective coffee machine.

[00019] Preferably the means for fit locking, friction locking and/or detection is a gearwheel or a gearwheel' segment, which are located, in particular, in the outer area of the edge region. The teeth of the gearwheel or the gearwheel' segment may be shaped in any commonly used form, which is known, for example, by an expert from gear manufacturing. Preferably it is provided that these teeth are triangular, rectangular, square or wavy.

[00020] Preferably there is a sealing surface, that is arranged on the interior side relative to the gearwheel or the gearwheel' segment.

[00021] Another and preferred state-of-the-art technology is a portion capsule for producing a beverage, comprising a base element substantially designed frustoconically or cylindrically, having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element with the base element having a wall region and the base element having a bottom area, which is preferably located opposite to the

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membrane, with the wall region having several grooves and the grooves which are located between membrane and bottom area covering the wall region along its height at least partially. The grooves may be also located in the edge region, in particular on the outer area of the edge region.

[00022] This portion capsule has the advantage over the portion capsule according to the state-of-the-art technology that, for instance, the grooves reinforce the base element's wall region. On the one side these grooves make the portion capsule more stable towards mechanical forces and prevent the portion capsule from deformation and buckling, in particular. The arrangement of the grooves, which are located at the wall region, additionally improves the performance of the portion capsule while the extraction liquid flows through it in the brewing chamber, since the arrangement of the grooves, in particular those partially expending over the wall region between membrane and bottom area, increase quality and reliability of the extraction process significantly. According to the invention another advantage is that the base element's thickness can be reduced, because the use of grooves improves the physical stability. The production of the portion capsule is therefore much less expensive and more environmentally friendly. On the other side the grooves reduce or avoid the contact between the portion capsule's wall region and the wall of the brewing chamber. As a result ejecting or removing the portion capsule from the brewing chamber is made easier. Another advantage of using a plurality of grooves is that the stream of the extraction liquid, which flows along the base element in the cavity, can be optimized by choosing a grooves' structure that is able, for example, to generate on the one hand a better or stronger turbulence in the extraction liquid or on the other hand a more uniform (laminar) flow of the extraction liquid, in the wall region. The control of the liquid may be obtained by the structure of the grooves itself or by using simple means additionally. A stronger turbulence compared to the one known in the state-of-the-art has the advantage that no unintended and casual main streams are formed in the raw materials. Instead the extraction liquid equally flows through the raw material in all of the volume. Thus the extraction process is much more efficient and can be controlled more precisely and reproducibly.

[00023] In particular the raw material may be coffee powder (especially ground roasted coffee), chocolate powder, milk powder, tea or the like. Alternatively, it is conceivable that the raw material is a beverage's extract, such as instant coffee for example.

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[00024] In particular, the grooves are recesses and bulges, which are preferably directed along a main extension and are preferably extended along the wall portion or the periphery of the edge region. More preferably, the grooves are formed as webs and/or notches. A gearwheel, for instance, may be obtained by the grooves. Therefore the grooves are part of the base elements' wall, optionally located on the inner side facing to the cavity and/or on the outside facing away from the cavity.

[00025] According to a preferred embodiment of the present invention, it is provided that the grooves form an identifier that allows individualizing the portion capsule. In the context of this invention individualizing preferably means that the respective portion capsule can be assigned to a group of capsules that are suitable for the respective coffee machine or the machine producing a beverage. It is not necessary that the coffee machine or the device for producing a beverage is able to specify and/or identify the portion capsule. It is more important that the device for producing a beverage, in particular a coffee machine, associates the portion capsule with a group of portion capsules, which is appropriate for the respective device for producing a beverage, in particular a coffee machine. In particular, individualizing means that those portion capsules that are not appropriate for the coffee machine (or the device producing the beverage) cannot be inserted into and/or directly fall through the holder, which is designed for the portion capsules in the coffee machine (or the device producing the beverage), and/or the coffee machine (or the device producing the beverage) operates only with corresponding portion capsules ("proper portion capsule"). In particular, individualizing means that the coffee machine or the device producing the beverage will not operate properly in the intended use, if the used portion capsule is not customized according to the invention. Preferably a sensor/detection system, attached to the coffee machine or the device producing the beverage, records the identifier and substantially compares it with a stored reference. In particular, it is possible that such an identification process is based on a mechanical fitting, especially a fitting of a gearwheel or of a contour comparable with a gearwheel, which is attached to the device producing the beverage or the coffee machine and interacts with the portion capsule. It is preferred that the device for producing the beverage or the coffee machine only will operate, if the identifier matches to the reference or the mechanical fittings match with each other. In this case the device for producing the beverage particularly starts to operate, especially activates a pressure or water pump. The mean for detection or mechanical fitting is preferably located in the region of the media chute or in the region of the device for producing the beverage. Alternatively the identifier or the mechanical fitting may avoid that

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an unsuitable portion capsule is inserted into the device for producing the beverage. A portion capsule, which is designed in accordance with the invention, makes it possible that a portion capsule that is not designed for the device for producing a beverage cannot be inserted into it. Additionally the identifier allows that the device for producing the beverage, especially the coffee machine, may specify the sort of the portion capsule and thereby control the production process of beverage and food by adapting, for example, the pressure, the temperature and/or the amount of water.

[00026] According to a further preferred embodiment of the present invention, it is provided that at least a part of the grooves and at least in a subarea parallel to the main plane of the membrane is gearwheel shaped.

[00027] According to the present invention it is an advantage that it is possible to increase the stability of the portion capsule's wall region, to realize improved turbulences of the extraction liquid and thereby to improve the extraction's process under the same conditions, for example, such as material thickness and the like. Another advantage is that it is easy to generate a mechanical identifier or a mechanical fitting that matches with a fitting tool that belongs to the device for producing a beverage. According to the invention it is an further advantage that, for example, a gearwheel, which is attached to the device for producing a beverage and is, for example, located in the region of the media chute or similar, can possibly interacts with the gearwheel's contour of the portion capsule. In this way it is possible to generate a mechanical fitting that allow to individualize the portion capsule as a proper one and/or to specify the sort of portion capsule and/or to rotate the portion capsule about an axis of rotation, that is perpendicular to the membrane's main plane, by using the gearwheel's arrangement. Such an embodiment of the invention makes it possible that the portion capsule is always opened with the device for producing a beverage on the same spot (with respect to its angular position) and therefore the raw material is extracted on the same manner. Moreover the grooves prevent the portion capsule from being inserted into the coffee machine.

[00028] In a preferred version of the invention, it is provided that there is a flange/edge region being averted from the bottom region, for fixing the membrane to the base element, where in the wall region between flange/edge region and bottom region preferably has a border and the grooves are being preferably extended to this border.

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[00029] Because of this it is another advantage according to the invention that on the one hand the wall region can be constructed in a stable and reinforced manner and on the other hand the gearwheel shaped contour of the grooves, located at the wall region, is able to absorb a relative high load. With that it is possible that the portion capsule can be rotated easily and without any damaging of the portion capsule within the device for producing a beverage.

[00030] Preferably the base element's diameter is enlarged in the border's region compared to the wall region, which range from the border to the bottom region.

[00031] This gives rise to the advantageous possibility to stack portion capsule or portion capsules' base elements easily and robustly.

[00032] Moreover it is preferred that at least a part of the grooves are gearwheel shaped and at least a plane, which is at least partially gearwheel shaped, is parallel to the membrane in such a way that the gearwheel shaped contour expands over the borders or the flange/edge region.

[00033] Further preferred versions of the present invention relate to portion capsules that implement one or more of the following characteristics:

- the base element tapers in the direction of the flange in the border's region,
- the grooves directed toward the bottom region expand over the border's region,
- the grooves approximately cover 20% -80%, preferably 40% - 60% of the wall region, which is placed between the border and the bottom region,
- the grooves are constructed in such a way that the wall region is reinforced and/or the grooves causes an extraction liquid's turbulence in the cavity.

[00034] Other preferred versions of the present invention relate to portion capsules that are manufactured in such a way that the ratio of the diameter of that wall region of the base element which adjoins the flange to the diameter of the flange is between 0.85 and 0.89, and in particular substantially 0.87.

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[00035] In a preferred version the wall region's diameter, which is adjacent to the flange, is 39 millimeter and the flange's diameter is 45 millimeter. Another advantageous version of the invention prefers a base element having a thicker wall region in the border's region compared to the wall region between bottom region and flange. Since the portion capsule's design, which contains grooves in the wall region, improve its stability, it is possible to save material by manufacturing the portion capsule and therefore to reduce cost and energy required for manufacturing the portion capsules.

[00036] According to the invention it is further provided that a filter element is arranged into the cavity. Such a filter element divides the cavity into a first region for accommodating the beverage raw material and into a second region for accommodating a beverage extract. In particular, it is provided that the filter element is made of a non-woven material.

[00037] According to a further subject matter or a preferred development of the present invention the portion capsule according to the invention is intended for the preparation of a hot beverage. In the following the invention is explained based on the Figures 1 – 22. These explanations do not restrict the general idea of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[00038] **Figure 1** shows a portion capsule containing sections that differs optically.

[00039] **Figure 2** shows a portion capsule containing a barcode.

[00040] **Figure 3** shows a portion capsule with recesses and bulges.

[00041] **Figure 4** shows a portion capsule containing sections that differs optically.

[00042] **Figure 5** shows a portion capsule with a key function.

[00043] **Figure 6** shows a portion capsule's wall that is electrically conductive.

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[00044] **Figure 7** shows a portion capsule's wall containing sections that differs optically.

[00045] **Figure 8** shows an enlarged pot construction of the portion capsule's wall.

[00046] **Figure 9** shows an edge region that is electrically conductive.

[00047] **Figure 10** shows a portion capsule containing a bottom that is electrically conductive.

[00048] **Figure 11** shows an embodiment containing a layer that can be detected by a metal detector.

[00049] **Figure 12** shows a metallic strainer.

[00050] **Figure 13** shows a portion capsule containing a ferromagnetic section.

[00051] **Figure 14** shows a portion capsule containing a barcode.

[00052] **Figure 15** shows a portion capsule containing a section, which is electrically conductive, in the wall.

[00053] **Figure 16** shows a portion capsule with a gearwheel placed in the brewing chamber.

[00054] **Figures 17 a-c** show different embodiments of the portion capsule according to Figure 16.

[00055] **Figure 18** shows the portion capsule according to the Figures 16 and 17, when the portion capsule is fit locking with a gearwheel.

[00056] **Figures 19 and 20** show a schematic view of a portion capsule according to an embodiment of the presented invention.

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[00057] **Figures 21 and 22** show two sectional views of the portion capsule according to an embodiment of the presented invention.

DETAILED DESCRIPTION

[00058] The view illustrated on the right side of **Figure 1** shows a portion capsule 1 comprising a base element 2 that has a wall region 2.1 and a bottom area 2.2. The wall region 2.1 and the bottom area 2.2 define a cavity, which may include the raw material and perhaps a built-in element. After filling the cavity is sealed by a membrane, which is preferably attached to the edge region 2.4 of the base element using seal or glue. This portion capsule can be inserted into a brewing chamber shown in Figure 12, with a liquid, in particular water, flowing through it. During this process the raw material is extracted or dissolved and therefore the beverage is produced. According to the invention the portion capsule has only one identifier that allows to determinate whether the respective portion capsule goes with the coffee machine's brewing chamber and the parameters for processing are chosen properly. If it is not the case, significant security issues arise. Inserting the wrong portion capsule, for example, endanger the brewing chamber's tightness. In this case hot water can be discharged under high pressure and therefore compromise the user's safety. Otherwise it is also possible that inserting the wrong portion capsule damages the coffee machine. In this example the identifier is represented by several raised areas 8, which differ in reflection properties from the sections between the raised areas. As shown by the arrows the bulges are passed by a mean for detection (here: an optical detector) that is able to differentiate between the unequal sections 5, 6 having different optical properties such as, for example, reflection. Switching between the different sections or the number of bulges represents the identifier. After the identifier has been read out the identifier is compared to a stored reference. If the identifier agrees with the reference, the coffee machine will start operating. Particularly the pump, which is for example responsible for pushing hot water through the brewing chamber, will not start operating, if the identifier does not agree with the reference.

[00059] All the remarks concerning the identifier apply to all the examples.

[00060] **Figure 2** shows another embodiment of the portion capsule according to the invention. Here the portion capsule has a barcode placed in the area of the membrane's top surface. This bar-code may be printed by material removal or may be generated by a medium that is integrated in the foil and can be detected optically such as a fluorescence agent.

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Alternatively metal rings may be part of the foil or attached to the foil. The bar-code's section may be made of a ferromagnetic material. As shown by the arrow 15 the bar-code alternatively can be attached to the base element's edge region being averted from the membrane. Such a bar-code is read out by a detector 13 placed, for example, in the media chute. The bar-code represents the identifier according to invention.

[00061] **Figure 3** shows another embodiment of the portion capsule according to the invention. In the present case the identifier comprises recesses and bulges, which result from material removal or reshaping the portion capsule as shown here by the example of the portion capsule's wall 2.1. In the present case recesses and bulges interact with a mean for detection 13, which operates like a key, wherein the coffee machine only start operating, when all elements 13 are placed in the respective recess. Therefore an electric circuit may be changed or especially closed.

[00062] **Figure 4** shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figure 1. As an alternative version of the invention the figure additionally shows that the sections differing in terms of optical properties can be attached to the cover foil, for example in the form of a bar-code.

[00063] **Figure 5** shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figure 3. Again the recesses represent the key bit. The coffee machine only will start operating, if the recesses interact with the corresponding bulges and therefore an electric circuit is changed respectively. The placement of such a system is not restricted to the brewing chamber. For instance the system may be placed in the portion capsule's media chute.

[00064] **Figure 6** shows a version of the invention that includes an electric material forming a surrounding ring, which preferably has a raised form. The electrically conductive material is scanned by electric sliding contacts, which are placed in the media chute and form electric contacts of an electric circuit, while the portion capsule is inserted.

[00065] **Figure 7** an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figure 6, in which it is provided that the ring area has reflective or mat sections, for example in form of a covering, and allows a read-out by means for optical

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detection, which are placed in the media chute and are part of a control current, while the portion capsule is inserted.

[00066] **Figure 8** shows a relative broad and raised ring which represents the identifier. The media chute is equipped with a corresponding vacancy that tests whether the portion capsule has the proper identifier. The broad ring is scanned, for example, by mechanical sensors, which are placed in the media chute and close the contacts of an electric circuit, while the portions capsule is inserted.

[00067] **Figure 9** shows another embodiment of the portion capsule according to the invention. In the present case an electrically conductive coat is integrated in the edge region's back and is scanned by electric sliding contacts, which are placed in the media chute and form electric contacts of an electric circuit, while the portion capsule is inserted.

[00068] **Figure 10** shows another embodiment of the portion capsule according to the invention. In the present case the portion capsule has an electrically conductive coat such as a conductive varnish layer or an aluminum foil. The coat is scanned by electric sliding contacts, which form electric contacts of an electric circuit, while the portion capsule is inserted.

[00069] **Figure 11** illustrates a version of the portion capsule having also an electrically conductive coat that is placed on its bottom and is identified by a metal sensor, which is placed in the chute and, for example, detects inductively, while the portion capsule is inserted.

[00070] The embodiment of the invention shown in **Figure 12** has a build-in element made of metal (here a strainer 19) that is recognized as identifier by a metal detector.

[00071] The version of the invention shown in **Figure 13** includes a ferromagnetic material placed at the portion capsule' bottom. The identifier is scanned, for example, by a magnet, which is placed in the chute, while the portion capsule is inserted. The ferromagnetic material acts as identifier.

[00072] **Figure 10** shows another embodiment which includes a bar-code placed in the region of the cover foil.

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[00073] According to the embodiment shown in **Figure 15** a metallic ring is integrated in the wall and closes an electric circuit placed in region of the brewing chamber.

[00074] **Figure 16** shows another embodiment of the portion capsule 1 according to the invention. The illustrated portion capsule features a base element that is basically conical-shaped in the present case and has a bottom region 2.2 and a wall region 2.1. It is provided that the base element contains the raw material and, if necessary, build-in elements like a filter as illustrated here. The expert knows that the build-in element may also include other build-in elements. A flange/edge region 2.4, which is preferably circular and, for example, may be used for sealing a cover foil to it, is attached to the end of the base element, which is placed opposite to the bottom. The flange/edge region has means for fit locking, friction locking and/or detection 2.4.2 in the outer area (outer circumference). As especially shown in the Figures 17a – 17c the mean 2.4.2 is, in the present case, a gearwheel that is formed by several recesses/bulges evenly arranged in the edge region. Preferably, it is provided that the edge region has a sealing surface, which sealingly interacts with the sealing 21 attached to the brewing chamber 27, on the interior side of the gearwheel. The sealing 21 makes sure that the water coming from a water inlet 28 flows rather through the portion capsule by passing a opening, which has been made by a mandrel 29, than around it.

[00075] **Figures 17a – 17c** show different embodiments of the mean 2.4.2.. According to the version shown in Figure 17a the gearwheel has forty-five teeth. According to the version shown in Figure 17b or 17c the gearwheel has twenty-two or twenty-nine teeth, respectively. The expert knows that the manufactured teeth can be shaped arbitrarily. All Figures 17a – 17c demonstrate how the portion capsule 1 can be hold by a part of the brewing chamber 27 using two holding arms 30. The holding arms interacts with the mean 2.4.2. If they are not available, the holding arms will not hold the portion capsule and the portion capsule will not be inserted into the brewing chamber and will fall through it into a dropping box instead.

[00076] **Figure 18** shows the mean 2.4.2. along with an mean for fit locking 24, which is attached to the coffee machine and is represented by a pinion here. It is provided that the mean for fit locking 24 is placed in the media chute having a port for inserting the portion capsule in the coffee machine. The distance between the inner wall of the portion capsule 25 and the pinion 27 are designed in such a way that the portion capsule only will pass the port,

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if the mean for fit locking is formed complementary to the teeth of the pinion 27. Only in this case the portion capsule rotates the pinion 24 while it falls. Both rotating and falling are represented by arrows in the figure. The portion capsule needs the rotation for passing the media chute's port and falling in the intended position afterwards. If the portion capsule has no or wrong mean of fit locking, it will be impossible to place the portion capsule by passing the media chute in the intended position. Additionally or alternatively it is provided that the pinion 24 has a pick-up that detects the rotary movement and transmits it to a control unit. If the rotation at least correspond a defined rotating element, the control unit will activate, for example, the brewing unit. The expert knows that the portion capsule's border may include means for friction locking that interacts with a mean, for example an edge, and shift it in such a way that the shift is detected and therefore the brewing chamber is activated.

[00077] The expert moreover knows that a sensor, being for example a camera, which detects the form of the mean 2.4.2., may be installed in the media chute. In the present case the form and/or the distance between the teeth may be detected. If the proper portion capsule was inserted, a resulting signal could be transmitted to a control unit, which activates the brewing chamber.

[00078] **Figure 19** schematically shows a view of another portion capsule's version according to an embodiment of the present invention. **Figure 20** illustrates the same portion capsule from a different point of view schematically. Figure 19 shows the front view of the portion capsule. Figure 20 shows the portion capsule viewed from an angle below. In all figures the portion capsule is labeled with the reference sign 1. The portion capsule substantially has a frustoconically shaped base element 2, which is formed similar to a pot and encloses a cavity 3. The cavity 3 is sealed by a membrane 4. Since the viewing direction of Figure 1 is essentially parallel to the plane, in which the membrane is located, the figure just adumbrate the membrane at the upper edge of the portion capsule. In particular the base element 2 comprises a soft, semi-rigid or rigid plastic material which is deep-drown, preferably. The membrane comprises a foil made of plastic material or aluminum. Preferably the base element has a circumferential mounting flange 17 in the region of the membrane, with the membrane and the mounting flange 17 being firmly bonded, in particular by welding or gluing. Preferably a filter element, which is not specifically depicted in the figures, is placed within the base element 2. For instance, the filter element is made of thermoplastic resin such as, for example, polypropylene. The filter element could also be made of a non-

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woven material such as, for example, thermoplastic resin. Preferably the filter element divides the cavity 3 in two sections. It is provided that the first section can be filled with a raw material and the second section can be filled with and particularly collect a beverage's extract, which is not shown, during the extractions process. Both sections are not illustrated individually.

[00079] The portion capsule is intended for inserting into a brewing chamber or a device for producing a beverage, which is not shown here. In particular such a device for producing a beverage is a coffee machine. The device for producing a beverage could be also a machine that produces a tea drink, a chocolate drink or any other beverage. Preferably an extraction liquid, which is particularly water or hot water, is brought under high pressure into the brewing chamber of the device for producing a beverage. The extraction liquid interacts with the raw material of the beverage in such a way that an extract of a beverage or a beverage is generated. In particular the filter element is utilized as a strainer for the extract of a beverage.

[00080] According to the invention the base element 2 has a wall region 12 and a bottom area 11. The wall region 12 basically ranges from the flange 17 to the bottom region 11. Several grooves 15 are placed in the wall region. In particular these grooves are keyways that are integrated in the wall region 12 and are facing the cavity 3 and range from the flange 17 to the bottom region 11 (i.e. they run perpendicular according to Figure 19). According to the invention provision is made for the grooves 15 to be extended vertically across the wall region, i.e. they run straight from the flange 17 to the bottom region 11, in which it is not necessary that they are extended over the whole length. The grooves are formed according to the invention in such a way that the wall region is reinforced or stiffened due to the grooves 15. Moreover the plurality of the grooves 15, which are distributed over the wall region 12, realize an adhesion between wall region 12 and the brewing chamber's wall of the device for producing a beverage after the extraction process. This makes it easier to eject the portion capsule from the brewing chamber automatically. The portion capsule's version represented in Figure 19 comprises a circumferential border 16 that is placed at the wall region 12 ranging from the flange 17 to the bottom area 11, namely adjacent to the flange 17 facing towards the bottom area 11. The border 16 has an enlarged diameter (parallel to the membrane 4) compared to the wall region's ranging from the border 16 to the bottom area 11. It is provided

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that the border's contour 16 is designed in such a manner that the border's diameter tapers towards the flange 7.

[00081] It is provided according to the portion capsule's embodiment, which is represented in Figure 19 and is in accordance with the invention, that the grooves 15 are placed in the border's region in the first part, partially range from the border 16 to the bottom area 11 across the wall region 12, in the second part and then finally end. All in all the grooves cover, for example, around 50 % of the extension of the wall region 12, which ranges from the flange 7 to the bottom area 11, wherein one-third of the grooves' extension is placed in the border's region and two-thirds of the grooves' extension is placed in the remaining wall region 12 that range from the border 16 to the bottom area 11.

[00082] A portion capsule according to the invention is shown as sectional view along the portion capsule's extension regarding its height in **Figure 21**, i.e. the section's plane is perpendicular to the membrane's main plane. **Figure 22** also shows a portion capsule according to the invention in a sectional view portraying the sectional plane, which is parallel to the membrane's main plane. It is noticeable that the interior of the portion capsule's cavity is shown in Figure 21. The portion capsule's material or the base element's material is so thin that the implementation of grooves at the exterior shown in Figure 19 leads to corresponding convexities and impressions at the interior. Figure 22 particularly illustrates the gearwheel shaped contour resulting from insertion of grooves in the portion capsule's wall region.

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CLAIMS

1. Single-serve capsule for making a beverage, having a basic element with a cavity, in which a raw beverage material is provided, the capsule having a peripheral region which is provided on the basic element, and the cavity being closed by a membrane, which is fastened on the peripheral region of the basic element, wherein the capsule has an identifier, which makes it possible to individualize the respective single-serve capsule, characterized in that the identifier is a barcode which is provided on that side of the peripheral region of the basic element which is directed away from the membrane.

2. Single-serve capsule according to Claim 1, characterized in that a sealing surface is provided on the peripheral region and/or flange.

3. Single-serve capsule according to Claim 1, characterized in that it has an insert element with an identifier.

4. Single-serve capsule for making a beverage, having an essentially frustoconical or cylindrical basic element with a cavity for accommodating a raw beverage material, and with a membrane which closes the cavity, characterized in that the basic element has a wall region, wherein the basic element also has, on that side of the single-serve capsule which is directed away from the membrane, a base region, wherein the wall region, or the outer circumference of a flange has a plurality of channels.

5. Single-serve capsule according to Claim 4, characterized in that the channels realize an identifier, which makes it possible to individualize the single-serve capsule.

6. Single-serve capsule according to Claim 4, characterized in that at least some of the channels, and at least in a sub-region in a plane parallel to the main plane along which the membrane extends, have a gear-wheel-like contour.

7. Single-serve capsule according to Claim 4, characterized in that the channels are designed such that the wall region is stiffened by means of the channels and/or in that the channels provide for turbulence of an extraction liquid flowing in the cavity.

8. Single-serve capsule according to Claim 4, characterized in that the cavity contains a filter element, which subdivides the cavity into a first region for accommodating the raw beverage material and into a second region for accommodating a beverage extract.

9. Use of a single-serve capsule according to Claim 1 for making a hot beverage.

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PORTION CAPSULE HAVING AN IDENTIFIER

ABSTRACT

A portion capsule for producing a beverage includes a base element having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element.

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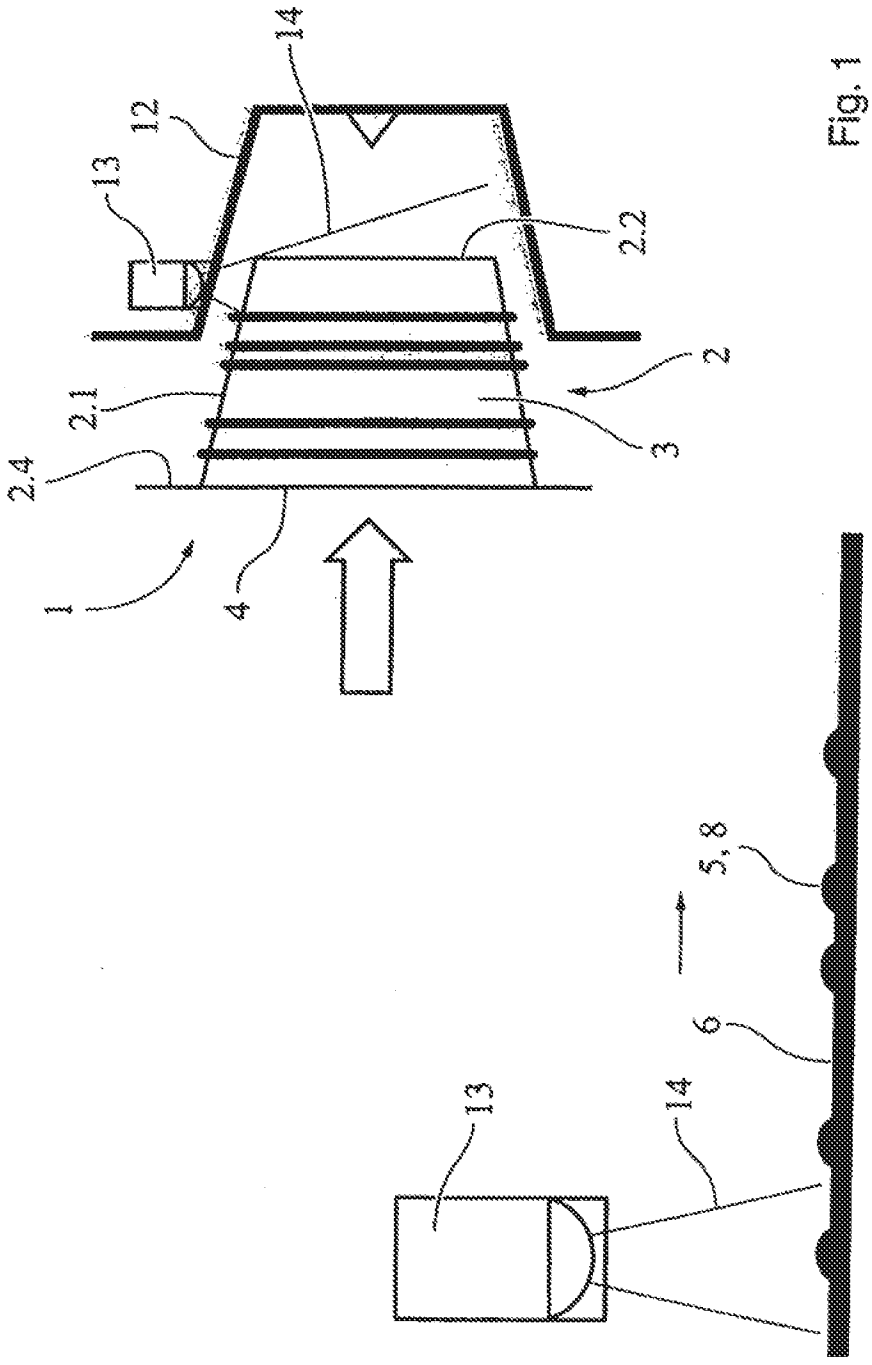


Fig. 1

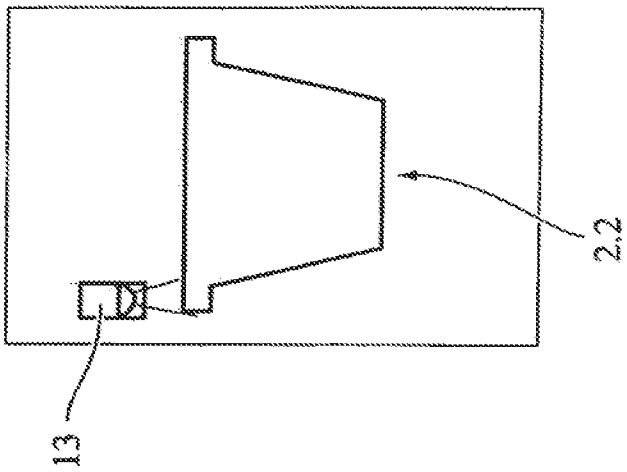
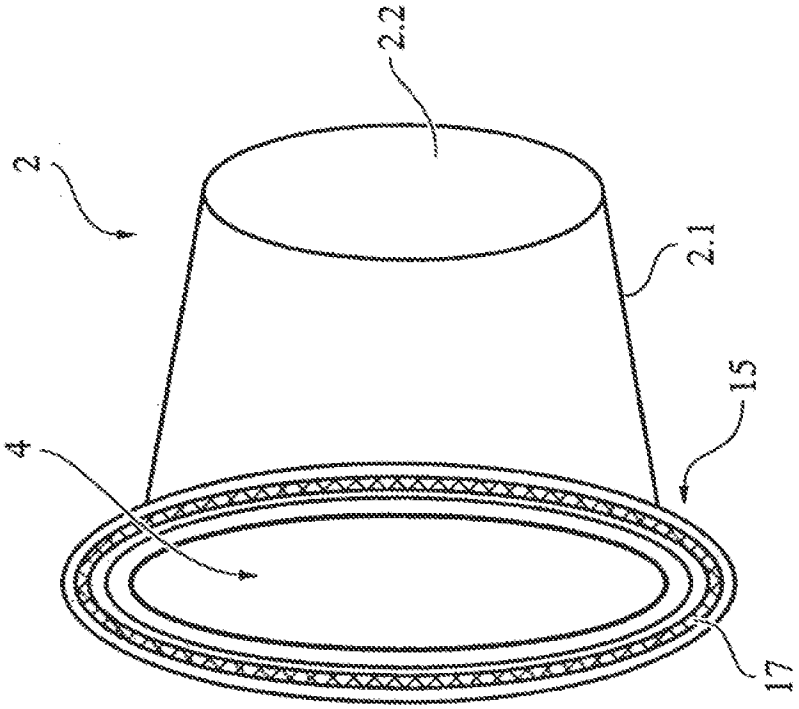


Fig. 2



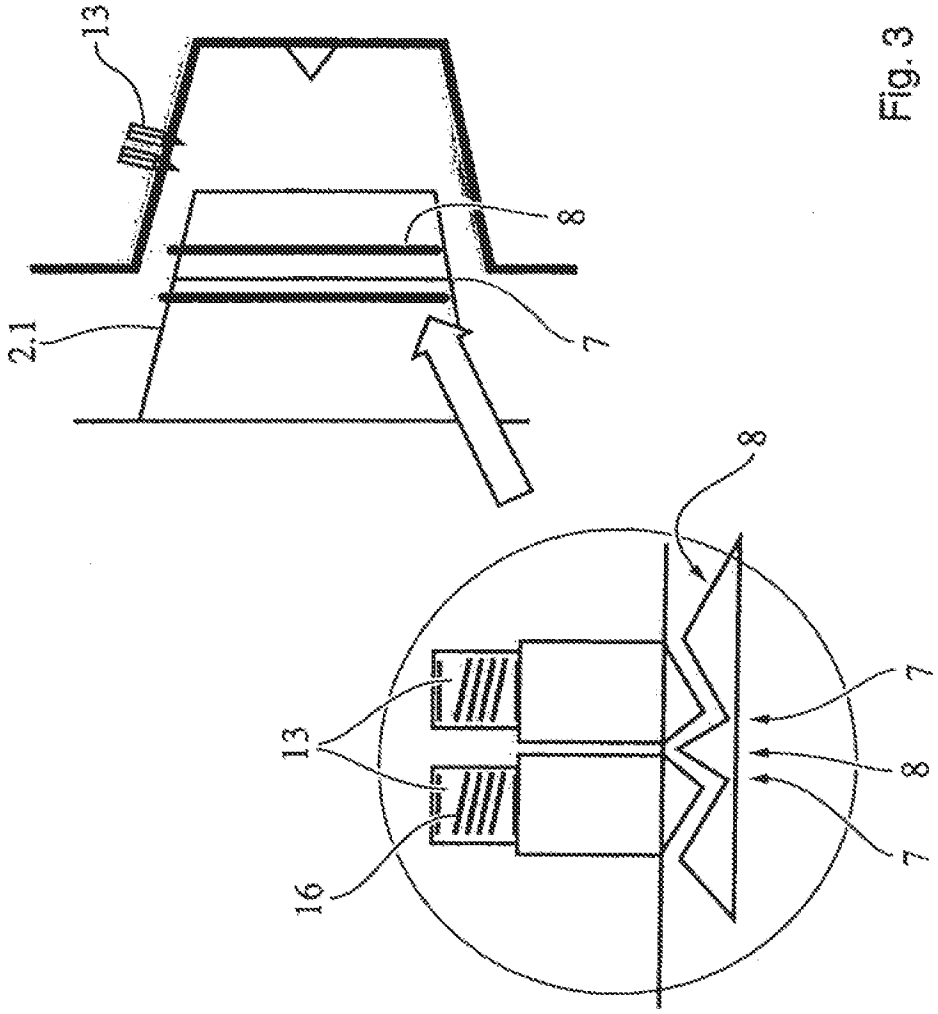


Fig. 3

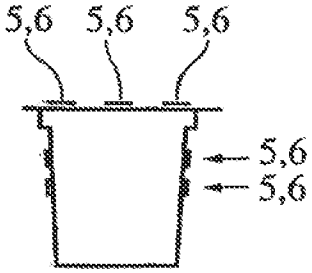


Fig. 4

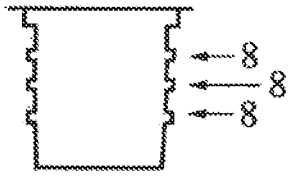


Fig. 5

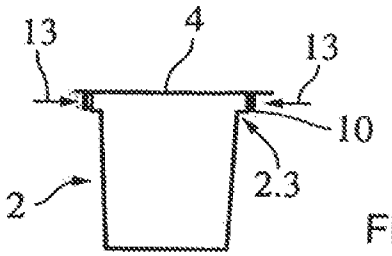


Fig. 6

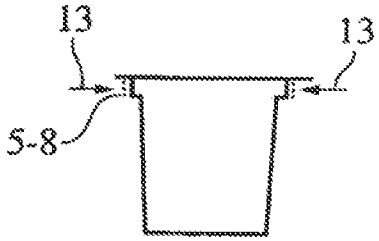


Fig. 7

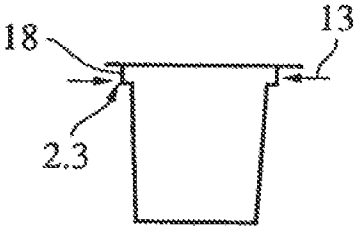


Fig. 8

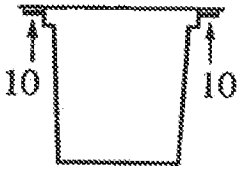


Fig. 9

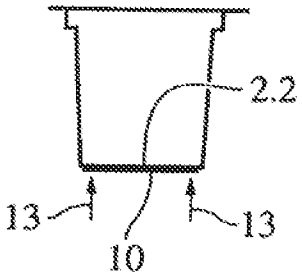


Fig. 10

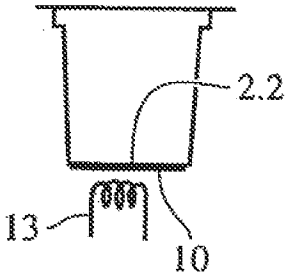


Fig. 11

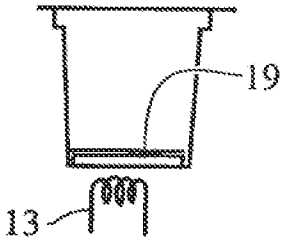


Fig. 12

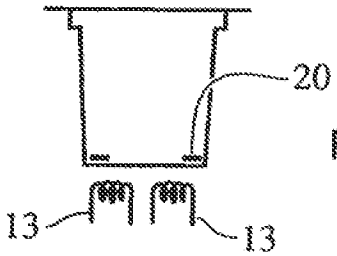


Fig. 13

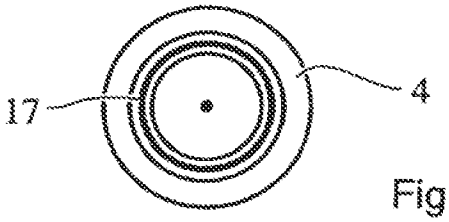


Fig. 14

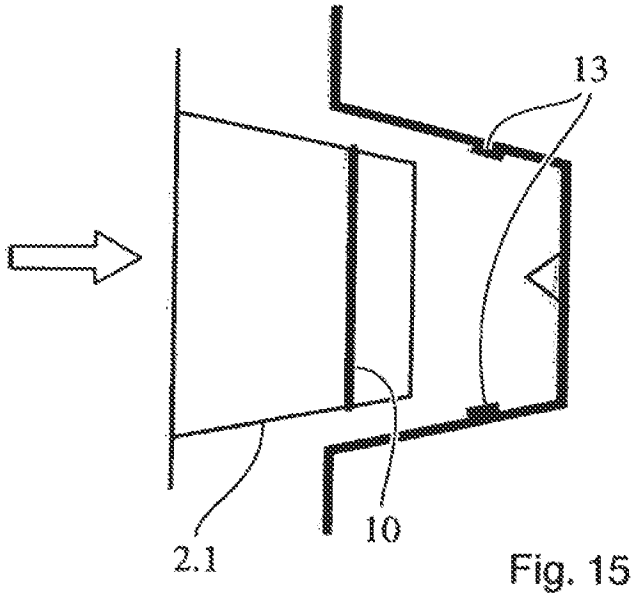


Fig. 15

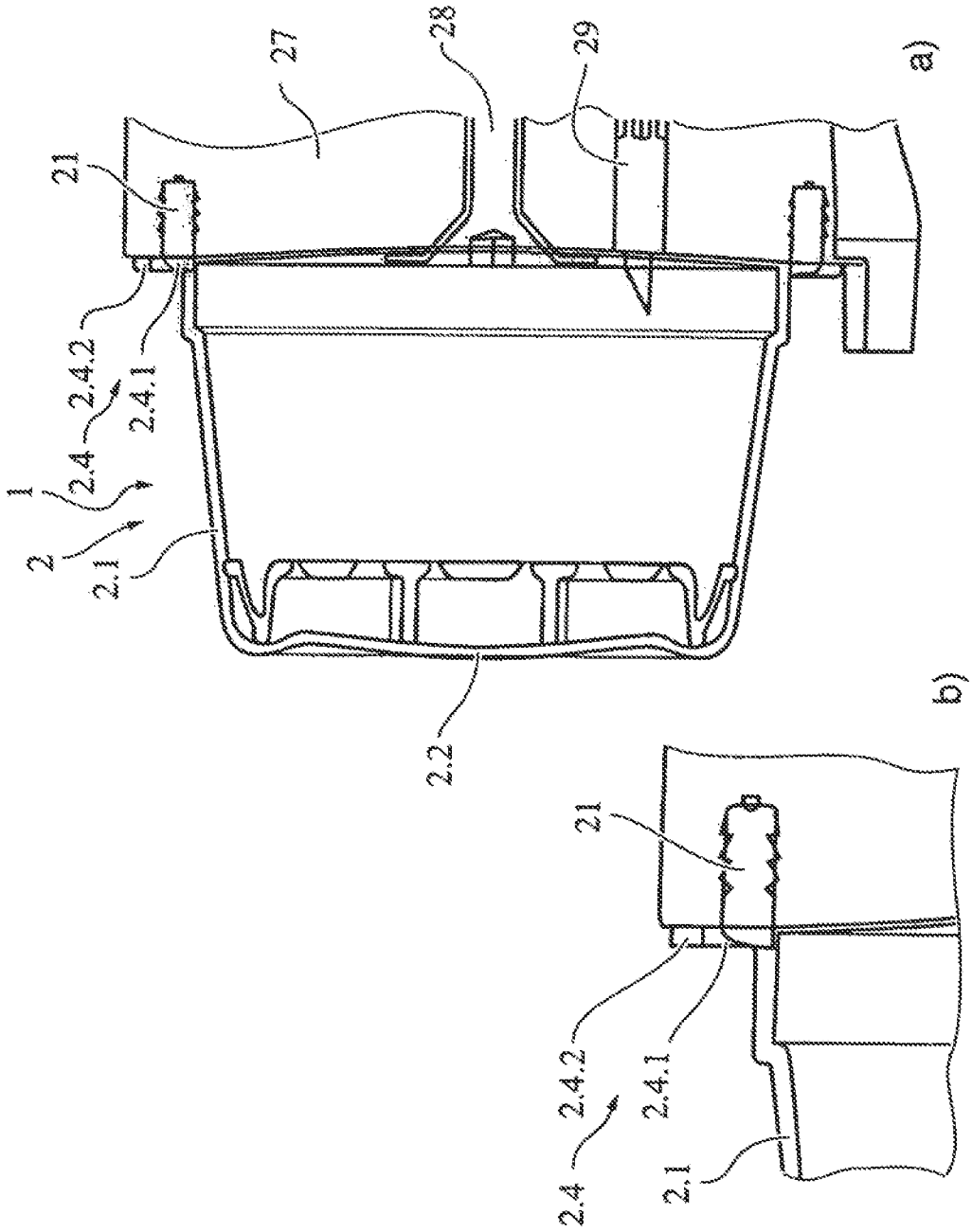


Fig. 16

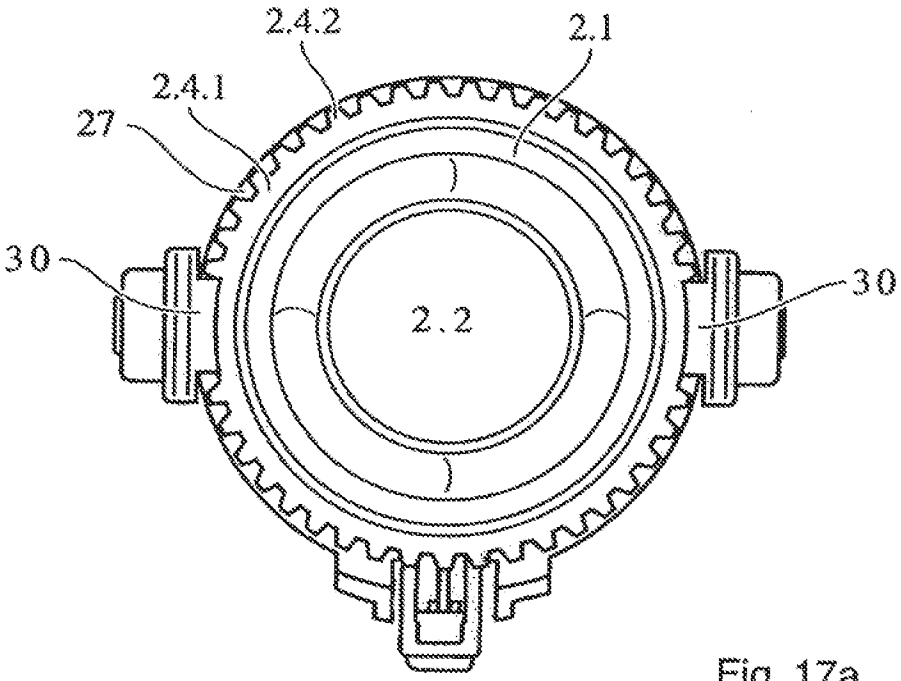


Fig. 17a

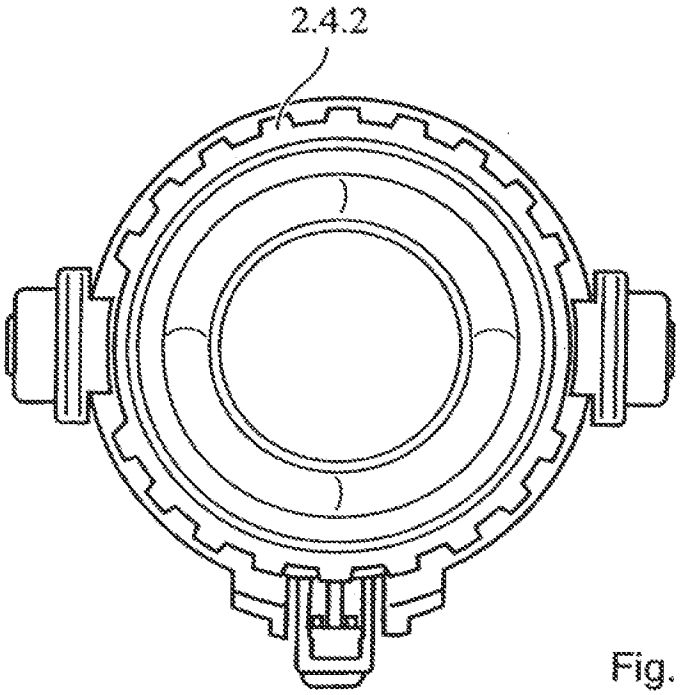


Fig. 17b

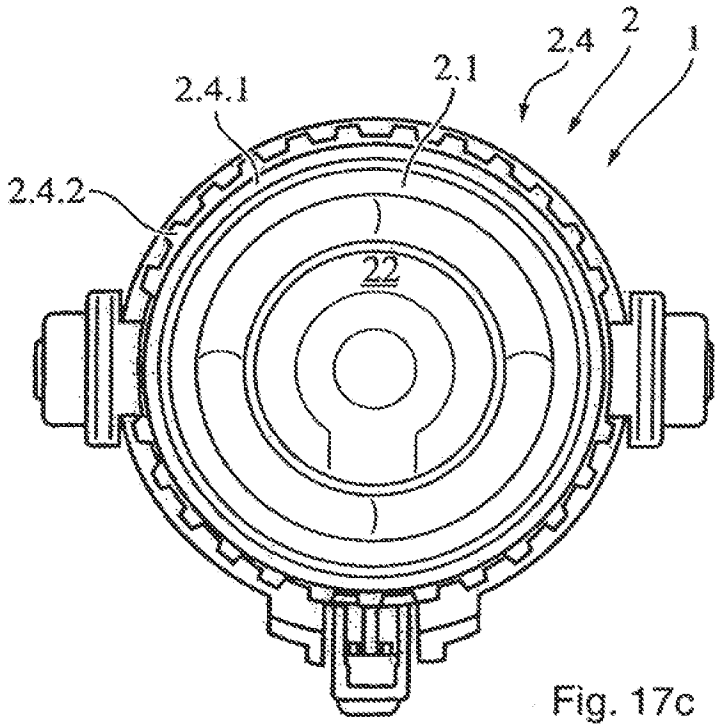


Fig. 17c

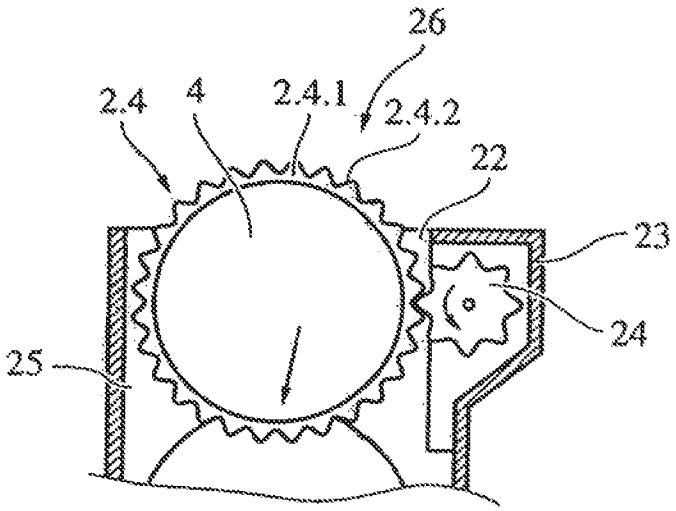


Fig. 18

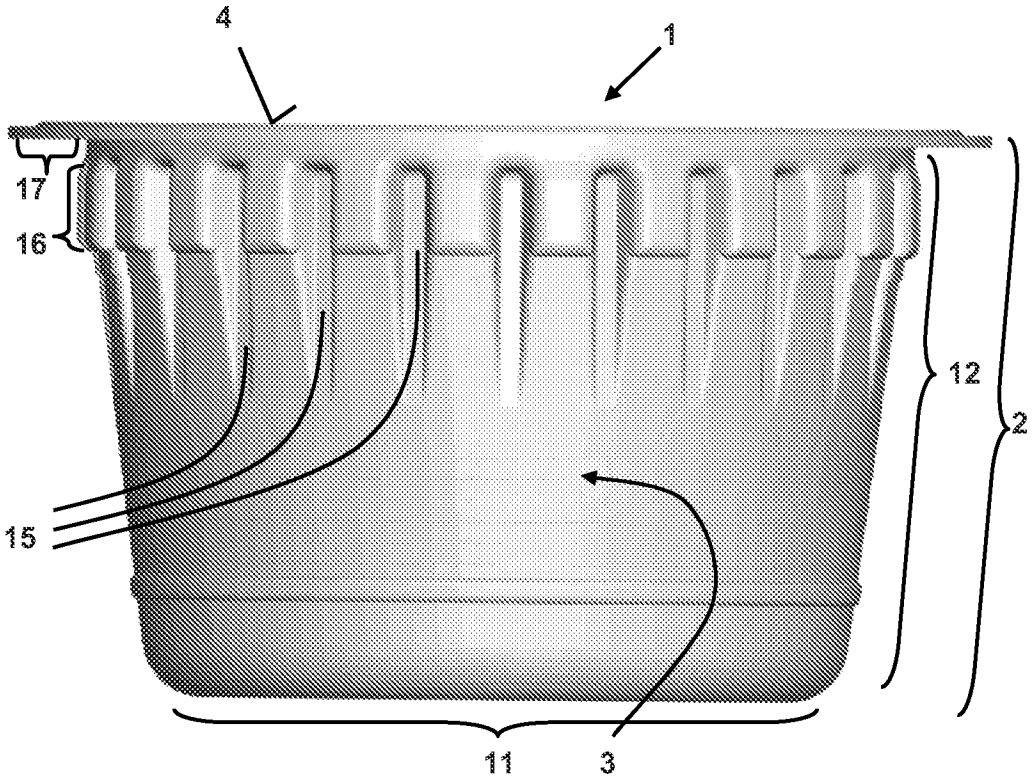


Fig. 19



Fig. 20

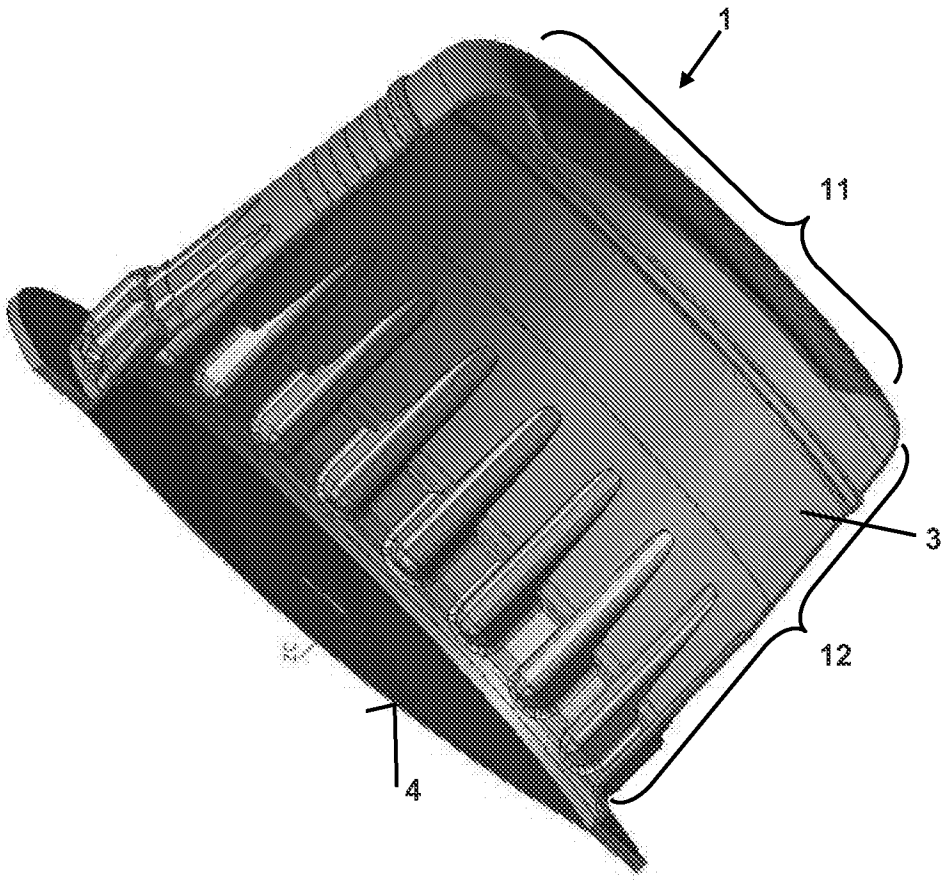


Fig. 21

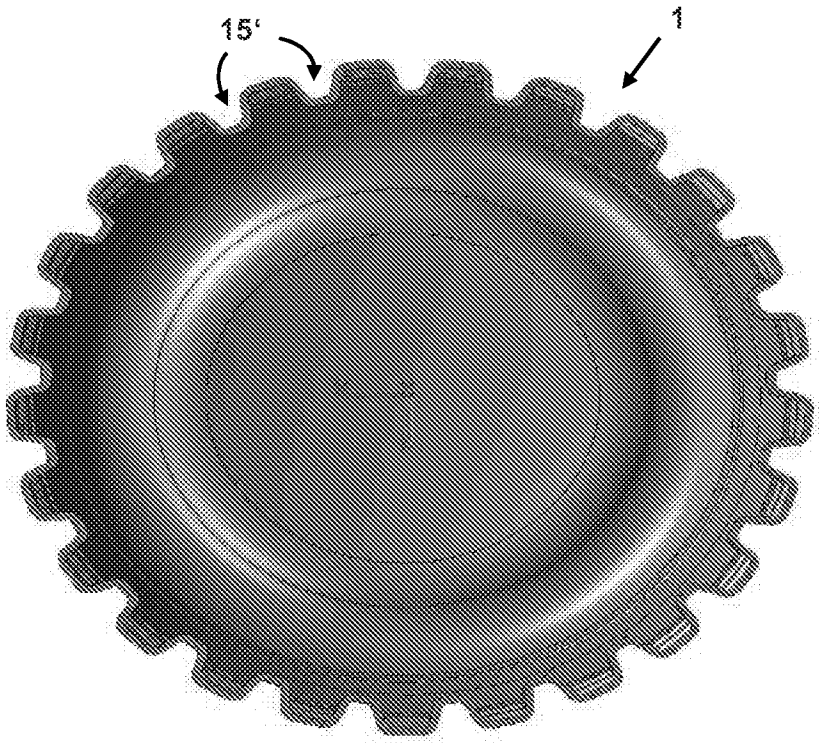


Fig. 22

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: TBA
Application No.: TBA	Examiner: TBA
Filed: Herewith	Conf. No.: TBA

For: PORTION CAPSULE HAVING AN IDENTIFIER

Docket No: 1859.029USC14 / KRU0022-WO-US-T15

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Prior to the examination of the present application, please amend the application as follows. No new matter has been added.

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Amendments to the Specification

A Substitute Specification is provided herewith, by way of a Marked-Up Copy and a corresponding Clean Copy. No new matter has been added. The specification amendments are submitted to put the application into better condition/form for US examination. Entry of the Substitute Specification is respectfully requested.

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Amendments to the Drawings

Replacement Sheets are provided herewith. No new matter has been added. The drawing amendments on the Replacement Sheets are submitted to put the application into better condition/form for US examination. Entry of the Replacement Sheets is respectfully requested.

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Amendments to the Claims

1) – 9) (Cancelled)

10) (New) A portion capsule for making a beverage comprising:

a base element having a cavity in which a beverage material is provided, the base element including a wall that is symmetrical about a central longitudinal axis thereof and having an open end and a closed bottom portion, the base element has a first height that is defined between the open end and the closed bottom portion, the wall has an outside surface and an inside surface which faces the beverage material;

a plurality of indentations arranged on the outside surface of the wall, about the central longitudinal axis;

a ledge arranged on the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element;

a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface;

an optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine;

a barrier layer to prevent moisture or aroma from escaping out of the portion capsule; and

a cover attached to the base element to close the cavity, the cover having a central region and a perimeter, the cover is bowed upwardly to a second height in the central region relative to

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the perimeter of the cover, the second height of the cover is less than the first height of the base element, the cover includes a piercing region that is configured to be pierced by a mandrel of the beverage machine at a location that is laterally offset from the central longitudinal axis and a sealing region that is configured to be sealed against by a seal of the beverage machine, the sealing region is located between the piercing region and the perimeter of the cover.

11) (New) The portion capsule according to claim 10, wherein the base element is made of metal, a biodegradable material, or plastic, the optically detectable individualization identifier is located on the wall of the base element, and the individualization identifier is circumferentially arranged around the central longitudinal axis.

12) (New) The portion capsule according to claim 11, wherein the plurality of indentations are vertically oriented, the wall comprises an inside surface defining the cavity, the inside surface comprises a plurality of ribs.

13) (New) The portion capsule according to claim 11, wherein the cover is connected to the top surface of the rim.

14) (New) The portion capsule according to claim 13, wherein the closed bottom portion comprises an indentation.

15) (New) The portion capsule according to claim 13, wherein the portion capsule includes a filter inside of the cavity.

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16) (New) The portion capsule according to claim 13, wherein the portion capsule includes a filter inside of the cavity.

17) (New) A portion capsule for making a beverage comprising:

a base element having a cavity in which a beverage material is provided, the base element including a wall that is symmetrical about a central longitudinal axis thereof and having an open end and a closed bottom portion, the base element has a first height that is defined between the open end and the closed bottom portion, the wall has an outside surface and an inside surface which faces the beverage material;

a plurality of vertically-orientated indentations arranged on the outside surface of the wall;

a plurality of vertically-orientated ribs arranged on the inside surface of the wall;

a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface;

an optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine;

a barrier layer to prevent moisture or aroma from escaping out of the portion capsule; and

a cover sealed to the base element to close the cavity, the cover having a central region and a perimeter, the cover is bowed upwardly to a second height in the central region relative to the perimeter of the cover, the second height of the cover is less than the first height of the base

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element, the cover includes a piercing region that is configured to be pierced by a mandrel of the beverage machine at a location that is laterally offset from the central longitudinal axis and a sealing region that is configured to be sealed against by a seal of the beverage machine, the sealing region is located between the piercing region and the perimeter of the cover.

18) (New) The portion capsule according to claim 17, wherein the portion capsule comprises a ledge arranged on the inside surface of the wall and projecting towards the central longitudinal axis, and the individualization identifier is circumferentially arranged around the central longitudinal axis.

19) (New) The portion capsule according to claim 18, wherein the optically detectable individualization identifier is located on the wall of the base element, and the base element is made of metal, a biodegradable material, or plastic.

20) (New) The portion capsule according to claim 19, wherein the portion capsule includes a filter inside of the cavity, and the wall comprises an electrically conductive section.

21) (New) The portion capsule according to claim 19, wherein the portion capsule includes a filter inside of the cavity, and the wall comprises an electrically conductive section.

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REMARKS

Amendment to the Specification

A Substitute Specification is provided herewith, by way of a Marked-Up Copy and a corresponding Clean Copy. No new matter has been added. The specification amendments are submitted to put the application into better condition/form for US examination. Entry of the Substitute Specification is respectfully requested.

Amendment to the Drawings

Replacement Sheets are provided herewith. No new matter has been added. The amendments on the Replacement Sheets are submitted to put the application into better condition for US examination. Entry of the Replacement Sheets is respectfully requested.

Amendment to the Claims

Claims 1-9 are cancelled and claims 10-21 are new. No new matter has been added. The claim amendments are submitted to put the application into better condition/form for US examination. Entry of the claim amendments is respectfully requested. Applicant believes these claims are patentable. Accordingly, Applicant submits that the present application is in condition for allowance, and respectfully requests that the Examiner pass the case to issue at the earliest convenience. Should the Examiner have any questions, or wish to further discuss this application, Applicant requests that the Examiner contact the undersigned at (248) 292-2920.

If for some reason Applicant has not requested a sufficient extension and/or has not paid a sufficient fee for this response and/or for the extension necessary to prevent the abandonment of this application, please consider this as a request for an extension for the required time period and/or authorization to charge our Deposit Account No. 50-1097 for any fee which may be due.

Respectfully submitted,

Date: February 14, 2022

/Paul J. Palinski/
Paul J. Palinski, Reg. No. 71,080
The Dobrusin Law Firm, P.C.
29 W. Lawrence St., Suite 210
Pontiac, Michigan 48342
(248) 292-2920

Customer No. 25215

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PORTION CAPSULE HAVING AN IDENTIFIER

Field

[0001] These teachings relate to a beverage system for making a beverage that includes a portion capsule and a beverage machine.

Background

[0002] The present invention relates to a portion capsule for producing a beverage, comprising a base element having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element.

[0003] Such capsules are well known and are being launched onto the market in abundant variety. Since these capsules are often quite similar, it is possible that the manufacturer's capsules are used in a coffee machine designed by another manufacturer, although they are not suited for it. This may result in significant security issues and/or the coffee machine may be damaged.

[0004] The object of the present invention is therefore to provide a portion capsule which only is suitable for a specific coffee machine.

Summary

[0005] The object is accomplished according to the present invention by a portion capsule for producing a beverage, comprising a base element having a cavity in which a beverage

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raw material is provided and which is closed by a membrane fastened to the base element, wherein it has an identifier, which allows to individualize the respective portion capsule.

[0006] The present invention relates to a capsule for producing a beverage or foodstuff, comprising a base element having a cavity in which a beverage raw material is provided. Such capsules are, for example made of plastic, natural materials and/or biodegradable materials and substantially have a base element, in particular a deep-drown base element, i.e. it is substantially designed frustoconically or cylindrically. The beverage raw material is arranged within the portion capsule's cavity and is extracted and/or dissolved in a liquid, in particular water. After the beverage raw material has been filled into the cavity the base element is usually sealed by a membrane. In particular the membrane is localized on the opposite side of the base element's bottom. The membrane can be made of the same or different material as the base element and is substantially attached to the base element using a sealing and/or an adhesive bonding. Additionally, the cavity could contain one or several built-in elements, such as, for example a filter, a non-woven, a felt, a shut-off device and/or something similar to those. For the case that a non-woven and a felt are arranged within the cavity, they are interconnected preferably. The non-woven and/or the felt can be made of several layers in such a way that the layers may differ in the kind of its starting material and/or its preparation. Moreover, the membrane and/or the bottom can be provided with a plurality of recesses (holes).

[0007] According to the present invention, it is provided that the portion capsule has an identifier that allows to individualize the respective portion capsule. In the context of this invention individualizing means that the respective portion capsule can be assigned to a

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group of capsules that are suitable for the coffee machine preferably. It is not necessary that the coffee machine is able to specify and/or identify the portion capsule. In fact, it is much more important that the coffee machine associates the portion capsule with a group of portion capsules, which is suitable for the coffee machine. In particular, individualizing means that those portion capsules that are not appropriate for the coffee machine cannot be inserted into and/or directly fall through the holder, which is designed for the portion capsules in the coffee machine, and/or the coffee machine operates only with the corresponding portion capsules. Preferably a sensor/detection system handles the identifier and compares it with a stored reference substantially. Preferably, the coffee machine, in particular the water-providing- pressure pump, will be activated if the detected identifier matches with the reference. Otherwise, the coffee machine will not start operating. Preferably the detection system is placed in the region of the coffee machine's media chute designed for the portion capsules. According to another preferred embodiment of the invention, the detection system may be placed in the region of the brewing chamber. Another possible embodiment of the invention provides that the identifier prevents portion capsules from inserting into the coffee machine. Alternatively, or additionally, means, in particular mechanical means, more preferably, one or more gearwheels, may be added to the media chute in order to guarantee that incorrect portion capsule cannot be inserted into the coffee machines by passing the media chute.

[0008] Preferably, the identifier is composed of surface areas having different optical properties, for example reflection. These surfaces may be localized on the membrane, the side wall and/or the bottom of the portion capsules. Preferably, the portion capsule has at least two areas which differ in their optical properties, for example the reflection

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characteristics.

[0009] The detection of a recess and/or a bulge is also preferred. Preferably, recess and bulges alternate and/or at least two recesses or bulges are separately placed from each other. Especially it is possible that the recess and/or the bulge form a gearwheel that is attached to the outer border and/or at least partially extends to the wall region of the portion capsule. The recess and/or bulge may be produced by any shaping method, for example by deep drawing, preferably.

[00010] Furthermore, the recess may be realized by removing material. In particular, the material's removal can be accomplished by punching or using a laser on condition that this processing does not damage a barrier layer placed in the portion capsule's material, which prevents moisture or aroma from escaping out of the portion capsule and/or water vapor or oxygen enters the capsule. The reading of the identifier, which is encoded in the recess and/or bulge, may be a result from a mechanical and/or optical method, for example. Alternatively, or additionally, the identifier can be used to avoid that the portion capsule is inserted into the coffee machine. This applies in particular to the media chute. For example, it is possible to design a portion capsule comprising a ring gear that is placed on its circumference and is compatible with another ring gear, which is placed in the media chute. If the media chute's ring gear only revolves for a corresponding ring gear of the portion capsule and its revolving allows the portion capsule to pass, only portion capsules equipped with the proper ring gear will pass the insertion lock.

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[00011] According to a further subject matter of a preferred development of the present invention, the identifier may be included in the membrane. Preferably, the identifier is a layer or partial layer of the membrane. Such identifiers may be an optically detectable material, for example a fluorescent material. Furthermore, the identifier may be designed with layers made of metal or ferrous metal or stripes made of metal or ferrous metal in or on the membrane, respectively.

[00012] Preferably the identifier is a machine-readable imprint. This is realized with a print in food approved color, preferably. Fluorescent materials like paper or print materials, whose optical properties change under the influence of temperature, are favored also. Preferably the print is a barcode, a logo or a repeat pattern.

[00013] According to a further subject matter of a preferred development of the present invention, the identifier is an electrically conductive section, which can be placed all over the portion capsule, but is localized on the side wall, the edge and/ or the floor preferably. The electrically conductive section, which is inserted into the coffee machine, can become part of an electric circuit, and causes therefore a measurable change, which leads to the identification of the respective portion capsule. In a further preferred embodiment, the identifier is a section made of a ferromagnetic material.

[00014] Another construction version favors a RFID chip being the identifier.

[00015] If the portion capsule is customized according to the invention, portion capsules that are not in line with the coffee machine will be prevented from

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inserting into the coffee machine. Furthermore, it is possible that the identifier allows to identify the portion capsule located in the brewing chamber in such a way that the production process of beverage or food may be controlled, for example by adjusting the temperature, the pressure and/or the amount of water.

[00016] According to a further subject matter of a preferred development of the present invention, the portion capsule's material is weakened in the bottom area caused by a selective material removal, for example by using a laser. The weakening is provided for piercing the portion capsules using a mandrel. This procedure is needed for the beverage's preparation. Since the material is weakened in the section, which is treated with a laser and is supposed to be pierced using the mandrel, the degree of necessary force for piercing the portion capsule is reduced. The mandrel of such coffee machines is usually equipped with a force limitation that limits the force, which is dedicated for pressing the mandrel against the portion capsule's bottom. This preparation avoids that portion capsules having no appropriate weakening can be used in such a coffee machine. Consequently, the weakening represents another kind of identifier.

[00017] According to a further subject matter of a preferred development of the present invention, the portion capsule has an edge region, which is preferably attached to the base element. Preferably, the edge is located opposite of the base element's bottom area. After the raw material has been filled in the portion capsule, a membrane can be attached to this edge region, for instance. Moreover, the edge can also designed for guiding the portion capsule into the chute in order to position the portion capsule in the brewing chamber properly. Simultaneously, it is possible to use the surface of the edge

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for stopping and/or sealing.

[00018] Preferably provision is made for the portion capsule to have means for fit locking, friction locking and/or detection in the edge region. The means for fit locking and/or friction locking may be used to activate a complementary mechanism, which is located in the coffee machine, in order to allow inserting the portion capsule into the coffee machine and/or starting a sensor, like a gearwheel, that transmits a signal to a control unit depending on whether the portion capsule corresponds to the coffee machine or not. Alternatively, or additionally, a detector may identify the mean for fit locking, friction locking and/or detection in order to check that the portion capsule is suitable to the respective coffee machine.

[00019] Preferably, the means for fit locking, friction locking and/or detection is a gearwheel or a gearwheel segment, which are located, in particular, in the outer area of the edge region. The teeth of the gearwheel or the gearwheel segment may be shaped in any commonly used form, which is known, for example, by an expert from gear manufacturing. Preferably, it is provided that these teeth are triangular, rectangular, square, or wavy.

[00020] Preferably, there is a sealing surface, that is arranged on the interior side relative to the gearwheel or the gearwheel segment.

[00021] Another and preferred state-of-the-art technology is a portion capsule for producing a beverage, comprising a base element substantially designed

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frustoconically or cylindrically, having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element with the base element having a wall region and the base element having a bottom area, which is preferably located opposite to the membrane, with the wall region having several grooves and the grooves which are located between membrane and bottom area covering the wall region along its height at least partially. The grooves may be also located in the edge region, in particular on the outer area of the edge region.

[00022] This portion capsule has the advantage over the portion capsule according to the state-of-the-art technology that, for instance, the grooves reinforce the base element's wall region. On the one side, these grooves make the portion capsule more stable towards mechanical forces and prevent the portion capsule from deformation and buckling, in particular. The arrangement of the grooves, which are located at the wall region, additionally improves the performance of the portion capsule while the extraction liquid flows through it in the brewing chamber, since the arrangement of the grooves, in particular those partially expending over the wall region between membrane and bottom area, increase quality and reliability of the extraction process significantly. According to the invention another advantage is that the base element's thickness can be reduced, because the use of grooves improves the physical stability. The production of the portion capsule is therefore much less expensive and more environmentally friendly. On the other side, the grooves reduce or avoid the contact between the portion capsule's wall region and the wall of the brewing chamber. As a result, ejecting or removing the portion capsule from the brewing chamber is made easier. Another advantage of using a plurality of grooves is that the stream of the

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extraction liquid, which flows along the base element in the cavity, can be optimized by choosing a grooves' structure that is able, for example, to generate on the one hand a better or stronger turbulence in the extraction liquid or on the other hand a more uniform (laminar) flow of the extraction liquid, in the wall region. The control of the liquid may be obtained by the structure of the grooves itself or by using simple means additionally. A stronger turbulence compared to the one known in the state-of-the-art has the advantage that no unintended and casual main streams are formed in the raw materials. Instead, the extraction liquid equally flows through the raw material in all of the volume. Thus, the extraction process is much more efficient and can be controlled more precisely and reproducibly.

[00023] In particular, the raw material may be coffee powder (especially ground roasted coffee), chocolate powder, milk powder, tea, or the like. Alternatively, it is conceivable that the raw material is a beverage's extract, such as instant coffee for example.

[00024] In particular, the grooves are recesses and bulges, which are preferably directed along a main extension and are preferably extended along the wall portion or the periphery of the edge region. More preferably, the grooves are formed as webs and/or notches. A gearwheel, for instance, may be obtained by the grooves. Therefore, the grooves are part of the base elements' wall, optionally located on the inner side facing to the cavity and/or on the outside facing away from the cavity.

[00025] According to a preferred embodiment of the present invention, it is

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provided that the grooves form an identifier that allows individualizing the portion capsule. In the context of this invention individualizing preferably means that the respective portion capsule can be assigned to a group of capsules that are suitable for the respective coffee machine or the machine producing a beverage. It is not necessary that the coffee machine or the device for producing a beverage is able to specify and/or identify the portion capsule. It is more important that the device for producing a beverage, in particular a coffee machine, associates the portion capsule with a group of portion capsules, which is appropriate for the respective device for producing a beverage, in particular a coffee machine. In particular, individualizing means that those portion capsules that are not appropriate for the coffee machine (or the device producing the beverage) cannot be inserted into and/or directly fall through the holder, which is designed for the portion capsules in the coffee machine (or the device producing the beverage), and/or the coffee machine (or the device producing the beverage) operates only with corresponding portion capsules ("proper portion capsule"). In particular, individualizing means that the coffee machine or the device producing the beverage will not operate properly in the intended use, if the used portion capsule is not customized according to the invention. Preferably, a sensor/detection system, attached to the coffee machine or the device producing the beverage, records the identifier and substantially compares it with a stored reference. In particular, it is possible that such an identification process is based on a mechanical fitting, especially a fitting of a gearwheel or of a contour comparable with a gearwheel, which is attached to the device producing the beverage or the coffee machine and interacts with the portion capsule. It is preferred that the device for producing the beverage or the coffee machine only will operate, if the identifier matches to the reference or the mechanical fittings match with each other. In this case the device for producing the

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beverage particularly starts to operate, especially activates a pressure or water pump. The mean for detection or mechanical fitting is preferably located in the region of the media chute or in the region of the device for producing the beverage. Alternatively, the identifier or the mechanical fitting may avoid that an unsuitable portion capsule is inserted into the device for producing the beverage. A portion capsule, which is designed in accordance with the invention, makes it possible that a portion capsule that is not designed for the device for producing a beverage cannot be inserted into it. Additionally, the identifier allows that the device for producing the beverage, especially the coffee machine, may specify the sort of the portion capsule and thereby control the production process of beverage and food by adapting, for example, the pressure, the temperature and/or the amount of water.

[00026] According to a further preferred embodiment of the present invention, it is provided that at least a part of the grooves and at least in a subarea parallel to the main plane of the membrane is gearwheel shaped.

[00027] According to the present invention, it is an advantage that it is possible to increase the stability of the portion capsule's wall region, to realize improved turbulences of the extraction liquid and thereby to improve the extraction's process under the same conditions, for example, such as material thickness and the like. Another advantage is that it is easy to generate a mechanical identifier or a mechanical fitting that matches with a fitting tool that belongs to the device for producing a beverage. According to the invention it is an further advantage that, for example, a gearwheel, which is attached to the device for producing a beverage and is, for example, located in the region of the media chute or

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similar, can possibly interacts with the gearwheel's contour of the portion capsule. In this way it is possible to generate a mechanical fitting that allow to individualize the portion capsule as a proper one and/or to specify the sort of portion capsule and/or to rotate the portion capsule about an axis of rotation, that is perpendicular to the membrane's main plane, by using the gearwheel's arrangement. Such an embodiment of the invention makes it possible that the portion capsule is always opened with the device for producing a beverage on the same spot (with respect to its angular position) and therefore the raw material is extracted on the same manner. Moreover, the grooves prevent the portion capsule from being inserted into the coffee machine.

[00028] In a preferred version of the invention, it is provided that there is a flange/edge region being averted from the bottom region, for fixing the membrane to the base element, where in the wall region between flange/edge region and bottom region preferably has a border and the grooves are being preferably extended to this border.

[00029] Because of this it is another advantage according to the invention that on the one hand the wall region can be constructed in a stable and reinforced manner and on the other hand the gearwheel shaped contour of the grooves, located at the wall region, is able to absorb a relative high load. With that it is possible that the portion capsule can be rotated easily and without any damaging of the portion capsule within the device for producing a beverage.

[00030] Preferably, the base element's diameter is enlarged in the border's region compared to the wall region, which range from the border to the bottom region.

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[00031] This gives rise to the advantageous possibility to stack portion capsule or portion capsules' base elements easily and robustly.

[00032] Moreover, it is preferred that at least a part of the grooves are gearwheel shaped and at least a plane, which is at least partially gearwheel shaped, is parallel to the membrane in such a way that the gearwheel shaped contour expands over the borders or the flange/edge region.

[00033] Further preferred versions of the present invention relate to portion capsules that implement one or more of the following characteristics:

- the base element tapers in the direction of the flange in the border's region,
- the grooves directed toward the bottom region expand over the border's region,
- the grooves approximately cover 20% -80%, preferably 40% - 60% of the wall region, which is placed between the border and the bottom region,
- the grooves are constructed in such a way that the wall region is reinforced and/or the grooves causes an extraction liquid's turbulence in the cavity.

[00034] Other preferred versions of the present invention relate to portion capsules that are manufactured in such a way that the ratio of the diameter of that wall region of the base element which adjoins the flange to the diameter of the flange is between 0.85 and 0.89, and in particular substantially 0.87.

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[00035] In a preferred version, the wall region's diameter, which is adjacent to the flange, is 39 millimeters and the flange's diameter is 45 millimeters. Another advantageous version of the invention prefers a base element having a thicker wall region in the border's region compared to the wall region between bottom region and flange. Since the portion capsule's design, which contains grooves in the wall region, improves its stability, it is possible to save material by manufacturing the portion capsule and therefore to reduce cost and energy required for manufacturing the portion capsules.

[00036] According to the invention it is further provided that a filter element is arranged into the cavity. Such a filter element divides the cavity into a first region for accommodating the beverage raw material and into a second region for accommodating a beverage extract. In particular, it is provided that the filter element is made of a non-woven material.

[00037] According to a further subject matter or a preferred development of the present invention the portion capsule according to the invention is intended for the preparation of a hot beverage. In the following the invention is explained based on the Figures 1 - 22. These explanations do not restrict the general idea of the invention.

Brief Description of the Drawings

[00038] **Figures 1A and 1B** show a portion capsule containing sections that differs optically.

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[00039] **Figures 2A, and 2B** show a portion capsule containing a barcode.

[00040] **Figures 3A and 3B** show a portion capsule with recesses and bulges.

[00041] **Figure 4** shows a portion capsule containing sections that differs optically.

[00042] **Figure 5** shows a portion capsule with a key function.

[00043] **Figure 6** shows a portion capsule's wall that is electrically conductive.

[00044] **Figure** 7 shows a portion capsule's wall containing sections that differs optically.

[00045] **Figure 8** shows an enlarged pot construction of the portion capsule's wall.

[00046] **Figure 9** shows an edge region that is electrically conductive.

[00047] **Figure 10** shows a portion capsule containing a bottom that is electrically conductive.

[00048] **Figure 11** shows an embodiment containing a layer that can be detected by a

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metal detector.

[00049] **Figure 12** shows a metallic strainer.

[00050] **Figure 13** shows a portion capsule containing a ferromagnetic section.

[00051] **Figure 14** shows a portion capsule containing a barcode.

[00052] **Figure 15** shows a portion capsule containing a section, which is electrically conductive, in the wall.

[00053] **Figures 16A and 16B** show a portion capsule with a gearwheel placed in the brewing chamber.

[00054] **Figures 17A, 17B, and 17C** show different embodiments of the portion capsule according to Figures 16A and 16B.

[00055] **Figure 18** shows the portion capsule according to the Figures 16 A and 16B and Figures 17 a-c, when the portion capsule is fit locking with a gearwheel.

[00056] **Figures 19 and 20** show a schematic view of a portion capsule according to an embodiment of the presented invention.

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[00057] **Figures 21 and 22** show two sectional views of the portion capsule according to an embodiment of the presented invention.

Detailed Description

[00058] **Figures 1A and 1B** show a portion capsule 1 comprising a base element 2 that has a wall region 2.1 and a bottom area 2.2. The wall region 2.1 and the bottom area 2.2 define a cavity 3, which may include the raw material and perhaps a built-in element. After filling, the cavity 3 is sealed by a membrane 4, which is preferably attached to the edge region 2.4 of the base element using seal or glue. This portion capsule can be inserted into a brewing chamber 12, with a liquid, in particular water, flowing through it. During this process, the raw material is extracted or dissolved and therefore the beverage is produced. According to the invention the portion capsule has only one identifier that allows to determine whether the respective portion capsule goes with the coffee machine's brewing chamber 12 and the parameters for processing are chosen properly. If it is not the case, significant security issues arise. Inserting the wrong portion capsule, for example, endangers the brewing chamber's tightness. In this case hot water can be discharged under high pressure and therefore compromise the user's safety. Otherwise, it is also possible that inserting the wrong portion capsule damages the coffee machine. In this example the identifier is represented by several raised areas 8, which differ in reflection properties from the sections between the raised areas. As shown by the arrows the bulges are passed by a mean for detection 13 (here: an optical detector) that is able to differentiate between the unequal sections 5, 6 having different optical properties such as, for example, reflection. Switching between the different sections or

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the number of bulges represents the identifier. After the identifier has been read out the identifier is compared to a stored reference. If the identifier agrees with the reference, the coffee machine will start operating. Particularly the pump, which is for example responsible for pushing hot water through the brewing chamber, will not start operating, if the identifier does not agree with the reference.

[00059] All the remarks concerning the identifier apply to all the examples.

[00060] **Figures 2A and 2B** show another embodiment of the portion capsule 1 according to the invention. The portion capsule 1 comprises a base element 2 that has a wall region 2.1 and a bottom area 2.2. Here the portion capsule 1 has a barcode 50 placed in the area of the membrane's 4 top surface. This barcode may be printed by material removal or may be generated by a medium that is integrated in the foil and can be detected optically such as a fluorescence agent. Alternatively, metal rings may be part of the foil or attached to the foil. The barcode's section may be made of a ferromagnetic material. As shown by the arrow 15 the barcode 50 alternatively can be attached to the base element's edge region being averted from the membrane 4. Such a barcode is read out by a detector 13 placed, for example, in the media chute. The barcode represents the identifier according to invention.

[00061] **Figures 3A and 3B** show another embodiment of the portion capsule 1 according to the invention. In the present case the identifier comprises recesses and bulges 7, 8, which result from material removal or reshaping the portion capsule as shown here by the example of the portion capsule's wall 2.1. In the present case, recesses and bulges

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interact with a means for detection 13, which operates like a key, wherein the coffee machine only start operating, when all elements 14 are placed in the respective recess 7. Therefore, an electric circuit may be changed or especially closed.

[00062] **Figure 4** shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figure 1. As an alternative version of the invention, the figure additionally shows that the unequal sections 5, 6 differing in terms of optical properties can be attached to the cover foil, for example in the form of a barcode.

[00063] **Figure 5** shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figures 3A and 3B that includes recesses 7 and bulges 8. Again, the recesses represent the key bit. The coffee machine only will start operating, if the recesses interact with the corresponding bulges and therefore an electric circuit is changed respectively. The placement of such a system is not restricted to the brewing chamber. For instance, the system may be placed in the portion capsule's media chute.

[00064] **Figure 6** shows a version of the invention that includes a base element 2 and an electric material forming a surrounding ring 2.3, which preferably has a raised form. The electrically conductive material is scanned by means for detection 13 having electric sliding contacts, which are placed in the media chute and form electric contacts of an electric circuit, while the portion capsule is inserted.

[00065] **Figure** 7 shows an embodiment of the portion capsule being substantially

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identical to the embodiment illustrated in Figure 6, in which it is provided that the ring area has reflective 21 or mat 22 sections, for example in form of a covering, and allows a read-out by means for detection 13 for optical detection, which are placed in the media chute and are part of a control current, while the portion capsule is inserted.

[00066] **Figure 8** shows a relative broad and raised ring 2.3 which represents the identifier. The media chute is equipped with a corresponding vacancy that tests whether the portion capsule has the proper identifier. The broad ring is scanned, for example, by means for detection 13 having mechanical sensors, which are placed in the media chute and close the contacts of an electric circuit, while the portions capsule is inserted.

[00067] **Figure 9** shows another embodiment of the portion capsule according to the invention. In the present case an electrically conductive coat 10 is integrated in the edge region's back and is scanned by electric sliding contacts, which are placed in the media chute and form electric contacts of an electric circuit, while the portion capsule is inserted.

[00068] **Figure 10** shows another embodiment of the portion capsule according to the invention. In the present case the portion capsule has an electrically conductive coat 10 at the bottom area 2.2 such as a conductive varnish layer or an aluminum foil. The coat is scanned by means for detection 13 having electric sliding contacts, which form electric contacts of an electric circuit, while the portion capsule is inserted.

[00069] **Figure 11** illustrates a version of the portion capsule having also an

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electrically conductive coat 10 that is placed on its bottom 2.2 and is identified by a means for detection 13 having a metal sensor, which is placed in the chute and, for example, detects inductively, while the portion capsule is inserted.

[00070] The embodiment of the invention shown in **Figure 12** has a built-in element made of metal (here a strainer 19) that is recognized as identifier by a means for detection 13 having a metal detector.

[00071] The version of the invention shown in **Figure 13** includes a ferromagnetic material 20 placed at the portion capsule' bottom. The identifier is scanned, by means for detection 13 for example, by a magnet, which is placed in the chute, while the portion capsule is inserted. The ferromagnetic material acts as identifier.

[00072] **Figure 14** shows another embodiment which includes a barcode placed in the region of the cover foil. The portion capsule includes a flange 17.

[00073] According to the embodiment shown in **Figure 15** a metallic ring 11 is integrated in the wall region 2.1 and closes means for detection 13 having an electric circuit placed in region of the brewing chamber.

[00074] **Figures 16A and 16B** show another embodiment of the portion capsule 1 according to the invention. The illustrated portion capsule features a base element 2 that is basically conical- shaped in the present case and has a bottom region 2.2 and a wall region 2.1. It is provided that the base element contains the raw material and, if necessary,

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build-in elements like a filter as illustrated here. The expert knows that the build-in element may also include other build-in elements. A flange 17 /edge region 2.4, which is preferably circular and, for example, may be used for sealing a cover foil 4 to it, is attached to the end of the base element, which is placed opposite to the bottom. The flange/edge region has means for fit locking, friction locking and/or detection 2.4.2 in the outer area (outer circumference). As especially shown in the Figures 17a - 17c the means for fit locking, friction locking and/or detection 2.4.2 is, in the present case, a gearwheel that is formed by several recesses/bulges evenly arranged in the edge region. Preferably, it is provided that the edge region has a sealing surface 2.4.1, which sealingly interacts with the seal 31 attached to the brewing chamber 12, on the interior side of the gearwheel. The sealing 31 makes sure that the water coming from a water inlet 28 flows through the portion capsule by passing an opening, which has been made by a mandrel 29, than around it.

[00075] **Figures 17A, 17B, and 17C** show different embodiments of the means for fit locking, friction locking and/or detection 2.4.2. According to the version shown in Figure 17A, the gearwheel has forty-five teeth. According to the version shown in Figure 17B or 17C, the gearwheel has twenty-two or twenty-nine teeth, respectively. The expert knows that the manufactured teeth can be shaped arbitrarily. All Figures 17A, 17B, and 17C demonstrate how the portion capsule 1 can be held by a part of the brewing chamber 12 using two holding arms 30. The holding arms interact with the means for fit locking, friction locking and/or detection 2.4.2. If they are not available, the holding arms will not hold the portion capsule and the portion capsule will not be inserted into the brewing chamber and will fall through it into a dropping box instead. The portion capsule has a

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base element 2, a wall region 2.1, a bottom area 2.2, a sealing surface 2.4.1, and an edge region 2.4.

[00076] **Figure 18** shows the means for fit locking, friction locking and/or detection 2.4.2 along with mean for fit locking 24, which is attached to the coffee machine and is represented by a pinion here. It is provided that the mean for fit locking 24 is placed in the media chute or insertion shaft 26 of an insertion shaft housing 23 having a port for inserting the portion capsule in the coffee machine. The distance between the inner wall 25 of the portion capsule 1 and the mean for fit locking 24 represented by the pinion 24 are designed in such a way that the portion capsule only will pass the port, if the means for fit locking, friction locking and/or detection 2.4.2 is formed complementary to the teeth of the mean for fit locking 24 represented by the pinion. Only in this case the portion capsule rotates the mean for fit locking 24 represented by the pinion 24 while it falls. Both rotating and falling are represented by arrows in the figure. The portion capsule needs the rotation for passing the media chute's port and falling in the intended position afterwards. If the portion capsule has no or wrong mean of fit locking, it will be impossible to place the portion capsule by passing the media chute in the intended position. Additionally, or alternatively, it is provided that the mean for fit locking 24 represented by the pinion has a pick-up that detects the rotary movement and transmits it to a control unit. If the rotation at least corresponds a defined rotating element, the control unit will activate, for example, the brewing unit. The expert knows that the portion capsule's border may include means for friction locking that interacts with a mean, for example an edge, and shift it in such a way that the shift is detected and therefore the brewing chamber is activated. The portion capsule 1 has a cover foil 4 and a sealing surface 2.4.1.

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[00077] The expert moreover knows that a sensor, being for example a camera, which detects the form of the means for fit locking, friction locking and/or detection 2.4.2, may be installed in the media chute. In the present case the form and/or the distance between the teeth may be detected. If the proper portion capsule was inserted, a resulting signal could be transmitted to a control unit, which activates the brewing chamber.

[00078] **Figure 19** schematically shows a view of another portion capsule's version according to an embodiment of the present invention. **Figure 20** illustrates the same portion capsule from a different point of view schematically. Figure 19 shows the front view of the portion capsule. Figure 20 shows the portion capsule viewed from an angle below. In all figures the portion capsule is labeled with the reference sign 1. The portion capsule substantially has a frustoconically shaped base element 2, which is formed similar to a pot and encloses a cavity 3. The cavity 3 is sealed by a membrane 4. Since the viewing direction of Figure 19 is essentially parallel to the plane, in which the membrane is located, the membrane is at the upper edge of the portion capsule. In particular, the base element 2 comprises a soft, semi-rigid or rigid plastic material which is deep-drown, preferably. The membrane comprises a foil made of plastic material or aluminum. Preferably the base element has a circumferential mounting flange 17 in the region of the membrane, with the membrane and the mounting flange 17 being firmly bonded, in particular by welding or gluing. Preferably a filter element, which is not specifically depicted in the figures, is placed within the base element 2. For instance, the filter element is made of thermoplastic resin such as, for example, polypropylene. The filter element could also be made of a non-woven material such as, for example, thermoplastic resin.

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Preferably the filter element divides the cavity 3 in two sections. It is provided that the first section can be filled with a raw material and the second section can be filled with and particularly collect a beverage's extract, which is not shown, during the extractions process. Both sections are not illustrated individually.

[00079] The portion capsule is intended for inserting into a brewing chamber or a device for producing a beverage, which is not shown here. In particular such a device for producing a beverage is a coffee machine. The device for producing a beverage could be also a machine that produces a tea drink, a chocolate drink or any other beverage. Preferably an extraction liquid, which is particularly water or hot water, is brought under high pressure into the brewing chamber of the device for producing a beverage. The extraction liquid interacts with the raw material of the beverage in such a way that an extract of a beverage or a beverage is generated. In particular the filter element is utilized as a strainer for the extract of a beverage.

[00080] According to the invention, the base element 2 has a wall region 2.1 and a bottom area 2.2. The wall region 2.1 basically ranges from the flange 17 to the bottom region 2.2. Several grooves 32 are placed in the wall region. In particular these grooves are keyways that are integrated in the wall region 2.1 and are facing the cavity 3 and range from the flange 17 to the bottom region 2.2 (i.e. they run perpendicular according to Figure 19). According to the invention provision is made for the grooves 32 to be extended vertically across the wall region, i.e. they run straight from the flange 17 to the bottom region 2.2, in which it is not necessary that they are extended over the whole length. The grooves are formed according to the invention in such a way that the wall

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region is reinforced or stiffened due to the grooves 32. Moreover, the plurality of the grooves 32, which are distributed over the wall region 2.1, realize an adhesion between wall region 2.1 and the brewing chamber's wall of the device for producing a beverage after the extraction process. This makes it easier to eject the portion capsule from the brewing chamber automatically. The portion capsule's version represented in Figure 19 comprises a circumferential border 16 that is placed at the wall region 2.1 ranging from the flange 17 to the bottom area 2.2, namely adjacent to the flange 17 facing towards the bottom area 2.2. The border 16 has an enlarged diameter (parallel to the membrane 4) compared to the wall region's ranging from the border 16 to the bottom area 2.2. It is provided that the border's contour 16 is designed in such a manner that the border's diameter tapers towards the flange 17.

[00081] It is provided according to the portion capsule's embodiment, which is represented in Figure 19 and is in accordance with the invention, that the grooves 32 are placed in the border's region in the first part, partially range from the border 16 to the bottom area 2.2 across the wall region 2.1, in the second part and then finally end. All in all, the grooves cover, for example, around 50 % of the extension of the wall region 2.1, which ranges from the flange 17 to the bottom area 2.2, wherein one-third of the grooves' extension is placed in the border's region and two-thirds of the grooves' extension is placed in the remaining wall region 2.1 that range from the border 16 to the bottom area 2.2.

[00082] A portion capsule 1 according to the invention is shown as sectional view along the portion capsule's extension regarding its height in **Figure 21,** i.e. the

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section's plane is perpendicular to the membrane's main plane. **Figure 22** also shows a portion capsule according to the invention in a sectional view portraying the sectional plane, which is parallel to the membrane's main plane. It is noticeable that the interior of the portion capsule's cavity is shown in Figure 21. The portion capsule's material or the base element's material is so thin that the implementation of grooves 32 at the exterior shown in Figure 19 leads to corresponding convexities 34 and impressions at the interior. Figure 22 particularly illustrates the gearwheel shaped contour 36 resulting from insertion of grooves in the portion capsule's 1 wall region.

List of reference numerals

1	portion capsule
2	base element
2.1	wall region
2.2	bottom area
2.3	ring
2.4	edge region
2.4.1	sealing surface
2.4.2	means for friction locking and/or detection
3	cavity
4	membrane, cover foil
5,6	unequal sections
7	recess
8	raised area, bulge
10	electrically conductive coat
11	metallic ring
12	brewing chamber
13	detector, mean for detection
14	beam
16	border

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17	flange
20	ferromagnetic material
21	reflective section
22	mat section
23	insertion shaft housing
24	mean for fit locking
25	inner wall
26	insertion shaft
28	water inlet
29	mandrel
30	holding arms
31	seal
32	grooves
34	convexities
36	gearwheel shaped contour

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PORTION CAPSULE HAVING AN IDENTIFIER

~~CROSS REFERENCE TO RELATED APPLICATIONS~~

~~**[0001]** This application claims benefit from and is a divisional of U.S. Application No. 15/211,823 filled July 15, 2016 entitled PORTION CAPSULE HAVING AN IDENTIFIER, which claims benefit from and is a continuation of U.S. Application No. 13/744,623, filed January 18, 2013, entitled PORTION CAPSULE HAVING AN IDENTIFIER, which claims benefit from International Application No. PCT/EP2011/003677, filed on July 22, 2011, entitled PORTION CAPSULE HAVING AN IDENTIFIER, which applications are hereby incorporated by reference in their entirety.~~

Field

[0001] These teachings relate to a beverage system for making a beverage that includes a portion capsule and a beverage machine.

~~BACKGROUND~~ **Background**

[0002] The present invention relates to a portion capsule for producing a beverage, comprising a base element having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element.

[0003] Such capsules are well known and are being launched onto the market in abundant variety. Since these capsules are often quite similar, it is possible that the manufacturer's capsules are used in a coffee machine designed by another manufacturer, although they

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are not suited for it. This may result in significant security issues and/or the coffee machine may be damaged.

[0004] The object of the present invention is therefore to provide a portion capsule which only is suitable for a specific coffee machine.

~~SUMMARY~~ **Summary**

[0005] The object is accomplished according to the present invention by a portion capsule for producing a beverage, comprising a base element having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element, wherein it has an identifier, which allows to individualize the respective portion capsule.

[0006] The present invention relates to a capsule for producing a beverage or foodstuff, comprising a base element having a cavity in which a beverage raw material is provided. Such capsules are, for example made of plastic, natural materials and/or biodegradable materials and substantially have a base element, in particular a deep-drown base element, i.e. it is substantially designed frustoconically or cylindrically. The beverage raw material is arranged within the portion capsule's cavity and is extracted and/or dissolved in a liquid, in particular water. After the beverage raw material has been filled into the cavity the base element is usually sealed by a membrane. In particular the membrane is localized on the opposite side of the base element's bottom. The membrane can be made of the same or different material as the base element and is substantially attached to the base element using a sealing and/or an adhesive bonding. Additionally, the cavity could contain one or several built-in elements, such as, for example a filter, a non-woven, a felt, a shut-off

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device and/or something similar to those. For the case that a non-woven and a felt are arranged within the cavity, they are interconnected preferably. The non-woven and/or the felt can be made of several layers in such a way that the layers may differ in the kind of its starting material and/or its preparation. Moreover, the membrane and/or the bottom can be provided with a plurality of recesses (holes).

[0007] According to the present invention, it is provided that the portion capsule has an identifier that allows to individualize the respective portion capsule. In the context of this invention individualizing means that the respective portion capsule can be assigned to a group of capsules that are suitable for the coffee machine preferably. It is not necessary that the coffee machine is able to specify and/or identify the portion capsule. In fact, it is much more important that the coffee machine associates the portion capsule with a group of portion capsules, which is suitable for the coffee machine. In particular, individualizing means that those portion capsules that are not appropriate for the coffee machine cannot be inserted into and/or directly fall through the holder, which is designed for the portion capsules in the coffee machine, and/or the coffee machine operates only with the corresponding portion capsules. Preferably a sensor/detection system handles the identifier and compares it with a stored reference substantially. Preferably, the coffee machine, in particular the water-providing- pressure pump, will be activated if the detected identifier matches with the reference. Otherwise, the coffee machine will not start operating. Preferably the detection system is placed in the region of the coffee machine's media chute designed for the portion capsules. According to another preferred embodiment of the invention, the detection system may be placed in the region of the brewing chamber. Another possible embodiment of the invention provides that the

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identifier prevents portion capsules from inserting into the coffee machine. Alternatively, or additionally, means, in particular mechanical means, more preferably, one or more gearwheels, may be added to the media chute in order to guarantee that incorrect portion capsule cannot be inserted into the coffee machines by passing the media chute.

[0008] Preferably, the identifier is composed of surface areas having different optical properties, for example reflection. These surfaces may be localized on the membrane, the side wall and/or the bottom of the portion capsules. Preferably, the portion capsule has at least two areas which differ in their optical properties, for example the reflection characteristics.

[0009] The detection of a recess and/or a bulge is also preferred. Preferably, recess and bulges alternate and/or at least two recesses or bulges are separately placed from each other. Especially it is possible that the recess and/or the bulge form a gearwheel that is attached to the outer border and/or at least partially extends to the wall region of the portion capsule. The recess and/or bulge may be produced by any shaping method, for example by deep drawing, preferably.

[00010] Furthermore, the recess may be realized by removing material. In particular, the material's ~~remove~~ removal can be accomplished by punching or using a laser on condition that this processing does not damage a barrier layer placed in the portion capsule's material, which prevents moisture or aroma from escaping out of the portion capsule and/or water vapor or oxygen enters the capsule. The reading of the identifier, which is encoded in the recess and/or bulge, may be a result from a mechanical and/or

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optical method, for example. Alternatively, or additionally, the identifier can be used to avoid that the portion capsule is inserted into the coffee machine. This applies in particular to the media chute. For example, it is possible to design a portion capsule comprising a ring gear that is placed on its circumference and is compatible with another ring gear, which is placed in the media chute. If the media chute's ring gear only revolves for a corresponding ring gear of the portion capsule and its revolving allows the portion capsule to pass, only portion capsules equipped with the proper ring gear will pass the insertion lock.

[00011] According to a further subject matter of a preferred development of the present invention, the identifier may be included in the membrane. Preferably, the identifier is a layer or partial layer of the membrane. Such identifiers may be an optically detectable material, for example a fluorescent material. Furthermore, the identifier may be designed with layers made of metal or ferrous metal or stripes made of metal or ferrous metal in or on the membrane, respectively.

[00012] Preferably the identifier is a machine-readable imprint. This is realized with a print in food approved color, preferably. Fluorescent materials like paper or print materials, whose optical properties change under the influence of temperature, are favored also. Preferably the print is a barcode, a logo or a ~~rapport~~repeat pattern.

[00013] According to a further subject matter of a preferred development of the present invention, the identifier is an electrically conductive section, which can be placed all over the portion capsule, but is localized on the side wall, the edge and/ or the floor

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preferably. The electrically conductive section, which is inserted into the coffee machine, can become part of an electric circuit, and causes therefore a measurable change, which leads to the identification of the respective portion capsule. In a further preferred embodiment, the identifier is a section made of a ferromagnetic material.

[00014] Another construction version favors a RFID chip being the identifier.

[00015] If the portion capsule is customized according to the invention, portion capsules that are not in line with the coffee machine will be prevented from inserting into the coffee machine. Furthermore, it is possible that the identifier allows to identify the portion capsule located in the brewing chamber in such a way that the production process of beverage or food may be controlled, for example by adjusting the temperature, the pressure and/or the amount of water.

[00016] According to a further subject matter of a preferred development of the present invention, the portion capsule's material is weakened in the bottom area caused by a selective material removal, for example by using a laser. The weakening is provided for piercing the portion capsules using a mandrel. This procedure is needed for the beverage's preparation. Since the material is weakened in the section, which is treated with a laser and is supposed to be pierced using the mandrel, the degree of necessary force for piercing the portion capsule is reduced. The mandrel of such coffee machines is usually equipped with a force limitation that limits the force, which is dedicated for pressing the mandrel against the portion capsule's bottom. This preparation avoids that portion capsules having no appropriate weakening can be used in such a coffee machine. Consequently, the

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weakening represents another kind of identifier.

[00017] According to a further subject matter of a preferred development of the present invention, the portion capsule has an edge region, which is preferably attached to the base element. Preferably, the edge is located opposite of the base element's bottom area. After the raw material has been filled in the portion capsule, a membrane can be attached to this edge region, for instance. Moreover, the edge can also designed for guiding the portion capsule into the chute in order to position the portion capsule in the brewing chamber properly. Simultaneously, it is possible to use the surface of the edge for stopping and/or sealing.

[00018] Preferably provision is made for the portion capsule to have means for fit locking, friction locking and/or detection in the edge region. The means for fit locking and/or friction locking may be used to activate a complementary mechanism, which is located in the coffee machine, in order to allow inserting the portion capsule into the coffee machine and/or starting a sensor, like a gearwheel, that transmits a signal to a control unit depending on whether the portion capsule corresponds to the coffee machine or not. Alternatively, or additionally, a detector may identify the mean for fit locking, friction locking and/or detection in order to check that the portion capsule is suitable to the respective coffee machine.

[00019] Preferably, the means for fit locking, friction locking and/or detection is a gearwheel or a gearwheel~~gearwheel'~~ segment, which are located, in particular, in the outer area of the edge region. The teeth of the gearwheel or the ~~gearwheel'~~ gearwheel segment

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may be shaped in any commonly used form, which is known, for example, by an expert from gear manufacturing. Preferably, it is provided that these teeth are triangular, rectangular, square, or wavy.

[00020] Preferably, there is a sealing surface, that is arranged on the interior side relative to the gearwheel or the gearwheel~~gearwheel'~~ segment.

[00021] Another and preferred state-of-the-art technology is a portion capsule for producing a beverage, comprising a base element substantially designed frustoconically or cylindrically, having a cavity in which a beverage raw material is provided and which is closed by a membrane fastened to the base element with the base element having a wall region and the base element having a bottom area, which is preferably located opposite to the membrane, with the wall region having several grooves and the grooves which are located between membrane and bottom area covering the wall region along its height at least partially. The grooves may be also located in the edge region, in particular on the outer area of the edge region.

[00022] This portion capsule has the advantage over the portion capsule according to the state-of-the-art technology that, for instance, the grooves reinforce the base element's wall region. On the one side, these grooves make the portion capsule more stable towards mechanical forces and prevent the portion capsule from deformation and buckling, in particular. The arrangement of the grooves, which are located at the wall region, additionally improves the performance of the portion capsule while the extraction liquid flows through it in the brewing chamber, since the

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arrangement of the grooves, in particular those partially expending over the wall region between membrane and bottom area, increase quality and reliability of the extraction process significantly. According to the invention another advantage is that the base element's thickness can be reduced, because the use of grooves improves the physical stability. The production of the portion capsule is therefore much less expensive and more environmentally friendly. On the other side, the grooves reduce or avoid the contact between the portion capsule's wall region and the wall of the brewing chamber. As a result, ejecting or removing the portion capsule from the brewing chamber is made easier. Another advantage of using a plurality of grooves is that the stream of the extraction liquid, which flows along the base element in the cavity, can be optimized by choosing a grooves' structure that is able, for example, to generate on the one hand a better or stronger turbulence in the extraction liquid or on the other hand a more uniform (laminar) flow of the extraction liquid, in the wall region. The control of the liquid may be obtained by the structure of the grooves itself or by using simple means additionally. A stronger turbulence compared to the one known in the state-of-the-art has the advantage that no unintended and casual main streams are formed in the raw materials. Instead, the extraction liquid equally flows through the raw material in all of the volume. Thus, the extraction process is much more efficient and can be controlled more precisely and reproducibly.

[00023] In particular, the raw material may be coffee powder (especially ground roasted coffee), chocolate powder, milk powder, tea, or the like. Alternatively, it is conceivable that the raw material is a beverage's extract, such as instant coffee for example.

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[00024] In particular, the grooves are recesses and bulges, which are preferably directed along a main extension and are preferably extended along the wall portion or the periphery of the edge region. More preferably, the grooves are formed as webs and/or notches. A gearwheel, for instance, may be obtained by the grooves. Therefore, the grooves are part of the base elements' wall, optionally located on the inner side facing to the cavity and/or on the outside facing away from the cavity.

[00025] According to a preferred embodiment of the present invention, it is provided that the grooves form an identifier that allows individualizing the portion capsule. In the context of this invention individualizing preferably means that the respective portion capsule can be assigned to a group of capsules that are suitable for the respective coffee machine or the machine producing a beverage. It is not necessary that the coffee machine or the device for producing a beverage is able to specify and/or identify the portion capsule. It is more important that the device for producing a beverage, in particular a coffee machine, associates the portion capsule with a group of portion capsules, which is appropriate for the respective device for producing a beverage, in particular a coffee machine. In particular, individualizing means that those portion capsules that are not appropriate for the coffee machine (or the device producing the beverage) cannot be inserted into and/or directly fall through the holder, which is designed for the portion capsules in the coffee machine (or the device producing the beverage), and/or the coffee machine (or the device producing the beverage) operates only with corresponding portion capsules ("proper portion capsule"). In particular, individualizing means that the coffee machine or the device producing the beverage will not operate

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properly in the intended use, if the used portion capsule is not customized according to the invention. Preferably, a sensor/detection system, attached to the coffee machine or the device producing the beverage, records the identifier and substantially compares it with a stored reference. In particular, it is possible that such an identification process is based on a mechanical fitting, especially a fitting of a gearwheel or of a contour comparable with a gearwheel, which is attached to the device producing the beverage or the coffee machine and interacts with the portion capsule. It is preferred that the device for producing the beverage or the coffee machine only will operate, if the identifier matches to the reference or the mechanical fittings match with each other. In this case the device for producing the beverage particularly starts to operate, especially activates a pressure or water pump. The mean for detection or mechanical fitting is preferably located in the region of the media chute or in the region of the device for producing the beverage. Alternatively, the identifier or the mechanical fitting may avoid that an unsuitable portion capsule is inserted into the device for producing the beverage. A portion capsule, which is designed in accordance with the invention, makes it possible that a portion capsule that is not designed for the device for producing a beverage cannot be inserted into it. Additionally, the identifier allows that the device for producing the beverage, especially the coffee machine, may specify the sort of the portion capsule and thereby control the production process of beverage and food by adapting, for example, the pressure, the temperature and/or the amount of water.

[00026] According to a further preferred embodiment of the present invention, it is provided that at least a part of the grooves and at least in a subarea parallel to the main plane of the membrane is gearwheel shaped.

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[00027] According to the present invention, it is an advantage that it is possible to increase the stability of the portion capsule's wall region, to realize improved turbulences of the extraction liquid and thereby to improve the extraction's process under the same conditions, for example, such as material thickness and the like. Another advantage is that it is easy to generate a mechanical identifier or a mechanical fitting that matches with a fitting tool that belongs to the device for producing a beverage. According to the invention it is an further advantage that, for example, a gearwheel, which is attached to the device for producing a beverage and is, for example, located in the region of the media chute or similar, can possibly interacts with the gearwheel's contour of the portion capsule. In this way it is possible to generate a mechanical fitting that allow to individualize the portion capsule as a proper one and/or to specify the sort of portion capsule and/or to rotate the portion capsule about an axis of rotation, that is perpendicular to the membrane's main plane, by using the gearwheel's arrangement. Such an embodiment of the invention makes it possible that the portion capsule is always opened with the device for producing a beverage on the same spot (with respect to its angular position) and therefore the raw material is extracted on the same manner. Moreover, the grooves prevent the portion capsule from being inserted into the coffee machine.

[00028] In a preferred version of the invention, it is provided that there is a flange/edge region being averted from the bottom region, for fixing the membrane to the base element, where in the wall region between flange/edge region and bottom region preferably has a border and the grooves are being preferably extended to this border.

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[00029] Because of this it is another advantage according to the invention that on the one hand the wall region can be constructed in a stable and reinforced manner and on the other hand the gearwheel shaped contour of the grooves, located at the wall region, is able to absorb a relative high load. With that it is possible that the portion capsule can be rotated easily and without any damaging of the portion capsule within the device for producing a beverage.

[00030] Preferably, the base element's diameter is enlarged in the border's region compared to the wall region, which range from the border to the bottom region.

[00031] This gives rise to the advantageous possibility to stack portion capsule or portion capsules' base elements easily and robustly.

[00032] Moreover, it is preferred that at least a part of the grooves are gearwheel shaped and at least a plane, which is at least partially gearwheel shaped, is parallel to the membrane in such a way that the gearwheel shaped contour expands over the borders or the flange/edge region.

[00033] Further preferred versions of the present invention relate to portion capsules that implement one or more of the following characteristics:

- the base element tapers in the direction of the flange in the border's region,
- the grooves directed toward the bottom region expand over the border's region,
- the grooves approximately cover 20% -80%, preferably 40% - 60% of the wall region, which is placed between the border and the bottom region,

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- the grooves are constructed in such a way that the wall region is reinforced and/or the grooves causes an extraction liquid's turbulence in the cavity.

[00034] Other preferred versions of the present invention relate to portion capsules that are manufactured in such a way that the ratio of the diameter of that wall region of the base element which adjoins the flange to the diameter of the flange is between 0.85 and 0.89, and in particular substantially 0.87.

[00035] In a preferred version, the wall region's diameter, which is adjacent to the flange, is 39 millimeters ~~millimeter~~ and the flange's diameter is 45 millimeters~~millimeter~~. Another advantageous version of the invention prefers a base element having a thicker wall region in the border's region compared to the wall region between bottom region and flange. Since the portion capsule's design, which contains grooves in the wall region, ~~improve~~ improves its stability, it is possible to save material by manufacturing the portion capsule and therefore to reduce cost and energy required for manufacturing the portion capsules.

[00036] According to the invention it is further provided that a filter element is arranged into the cavity. Such a filter element divides the cavity into a first region for accommodating the beverage raw material and into a second region for accommodating a beverage extract. In particular, it is provided that the filter element is made of a non-woven material.

[00037] According to a further subject matter or a preferred development of the

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present invention the portion capsule according to the invention is intended for the preparation of a hot beverage. In the following the invention is explained based on the Figures 1 - 22. These explanations do not restrict the general idea of the invention.

~~BRIEF DESCRIPTION OF THE DRAWINGS~~

Brief Description of the Drawings

[00038] **Figures 1A and 1B** show ~~shows~~ a portion capsule containing sections that differs optically.

[00039] **Figures 2A, and 2B** show ~~shows~~ a portion capsule containing a barcode.

[00040] **Figures 3A and 3B** show ~~Figure 3 shows~~ a portion capsule with recesses and bulges.

[00041] **Figure 4** shows a portion capsule containing sections that differs optically.

[00042] **Figure 5** shows a portion capsule with a key function.

[00043] **Figure 6** shows a portion capsule's wall that is electrically conductive.

[00044] **Figure** 7 shows a portion capsule's wall containing sections that differs optically.

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[00045] **Figure 8** shows an enlarged pot construction of the portion capsule's wall.

[00046] **Figure 9** shows an edge region that is electrically conductive.

[00047] **Figure 10** shows a portion capsule containing a bottom that is electrically conductive.

[00048] **Figure 11** shows an embodiment containing a layer that can be detected by a metal detector.

[00049] **Figure 12** shows a metallic strainer.

[00050] **Figure 13** shows a portion capsule containing a ferromagnetic section.

[00051] **Figure 14** shows a portion capsule containing a barcode.

[00052] **Figure 15** shows a portion capsule containing a section, which is electrically conductive, in the wall.

[00053] **Figures 16A and 16B** show ~~shows~~ a portion capsule with a gearwheel placed in the brewing chamber.

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[00054] **Figures ~~17 a-c~~ 17A, 17B, and 17C** show different embodiments of the portion capsule according to ~~Figure 16~~Figures 16A and 16B.

[00055] **Figure 18** shows the portion capsule according to the Figures 16 A and 16B and Figures 17 a-c, when the portion capsule is fit locking with a gearwheel.

[00056] **Figures 19 and 20** show a schematic view of a portion capsule according to an embodiment of the presented invention.

[00057] **Figures 21 and 22** show two sectional views of the portion capsule according to an embodiment of the presented invention.

~~DETAILED DESCRIPTION~~

Detailed Description

[00058] ~~The view illustrated on the right side of~~ **Figures 1A and 1B** show ~~shows~~ a portion capsule 1 comprising a base element 2 that has a wall region 2.1 and a bottom area 2.2. The wall region 2.1 and the bottom area 2.2 define a cavity 3, which may include the raw material and perhaps a built-in element. After filling, the cavity 3 is sealed by a membrane 4, which is preferably attached to the edge region 2.4 of the base element using seal or glue. This portion capsule can be inserted into a brewing chamber 12~~shown in Figure 12~~, with a liquid, in particular water, flowing through it. During this process, the raw material is extracted or dissolved and therefore the beverage is

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produced. According to the invention the portion capsule has only one identifier that allows to ~~determinate~~ determine whether the respective portion capsule goes with the coffee machine's brewing chamber 12 and the parameters for processing are chosen properly. If it is not the case, significant security issues arise. Inserting the wrong portion capsule, for example, endangers the brewing chamber's tightness. In this case hot water can be discharged under high pressure and therefore compromise the user's safety. Otherwise, it is also possible that inserting the wrong portion capsule damages the coffee machine. In this example the identifier is represented by several raised areas 8, which differ in reflection properties from the sections between the raised areas. As shown by the arrows the bulges are passed by a mean for detection 13 (here: an optical detector) that is able to differentiate between the unequal sections 5, 6 having different optical properties such as, for example, reflection. Switching between the different sections or the number of bulges represents the identifier. After the identifier has been read out the identifier is compared to a stored reference. If the identifier agrees with the reference, the coffee machine will start operating. Particularly the pump, which is for example responsible for pushing hot water through the brewing chamber, will not start operating, if the identifier does not agree with the reference.

[00059] All the remarks concerning the identifier apply to all the examples.

[00060] **Figures 2A and 2B** show ~~shows~~ another embodiment of the portion capsule 1 according to the invention. The portion capsule 1 comprises a base element 2 that has a wall region 2.1 and a bottom area 2.2. Here the portion capsule 1 has a barcode 50 placed in the area of the membrane's 4 top surface. This ~~bar-code~~barcode may be

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printed by material removal or may be generated by a medium that is integrated in the foil and can be detected optically such as a fluorescence agent. Alternatively, metal rings may be part of the foil or attached to the foil. The barcode's ~~bar-code's~~ section may be made of a ferromagnetic material. As shown by the arrow 15 the ~~bar-code~~ barcode 50 alternatively can be attached to the base element's edge region being averted from the membrane 4. Such a ~~bar-code~~ barcode is read out by a detector 13 placed, for example, in the media chute. The ~~bar-code~~ barcode represents the identifier according to invention.

[00061] **Figures 3A and 3B** show ~~shows~~ another embodiment of the portion capsule 1 according to the invention. In the present case the identifier comprises recesses and bulges 7, 8, which result from material removal or reshaping the portion capsule as shown here by the example of the portion capsule's wall 2.1. In the present case, recesses and bulges interact with a means for detection 13, which operates like a key, wherein the coffee machine only start operating, when all elements ~~13~~ 14 are placed in the respective recess 7. Therefore, an electric circuit may be changed or especially closed.

[00062] **Figure 4** shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figure 1. As an alternative version of the invention, the figure additionally shows that the unequal sections 5, 6 differing in terms of optical properties can be attached to the cover foil, for example in the form of a ~~bar-code~~barcode.

[00063] **Figure 5** shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figures 3A and 3B that includes recesses 7 and

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bulges 8. Again, the recesses represent the key bit. The coffee machine only will start operating, if the recesses interact with the corresponding bulges and therefore an electric circuit is changed respectively. The placement of such a system is not restricted to the brewing chamber. For instance, the system may be placed in the portion capsule's media chute.

[00064] **Figure 6** shows a version of the invention that includes a base element 2 and an electric material forming a surrounding ring 2.3, which preferably has a raised form. The electrically conductive material is scanned by means for detection 13 having electric sliding contacts, which are placed in the media chute and form electric contacts of an electric circuit, while the portion capsule is inserted.

[00065] **Figure** 7 shows an embodiment of the portion capsule being substantially identical to the embodiment illustrated in Figure 6, in which it is provided that the ring area has reflective 21 or mat 22 sections, for example in form of a covering, and allows a read-out by means for detection 13 for optical detection, which are placed in the media chute and are part of a control current, while the portion capsule is inserted.

[00066] **Figure 8** shows a relative broad and raised ring 2.3 which represents the identifier. The media chute is equipped with a corresponding vacancy that tests whether the portion capsule has the proper identifier. The broad ring is scanned, for example, by means for detection 13 having mechanical sensors, which are placed in the media chute and close the contacts of an electric circuit, while the portions capsule is inserted.

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[00067] **Figure 9** shows another embodiment of the portion capsule according to the invention. In the present case an electrically conductive coat 10 is integrated in the edge region's back and is scanned by electric sliding contacts, which are placed in the media chute and form electric contacts of an electric circuit, while the portion capsule is inserted.

[00068] **Figure 10** shows another embodiment of the portion capsule according to the invention. In the present case the portion capsule has an electrically conductive coat 10 at the bottom area 2.2 such as a conductive varnish layer or an aluminum foil. The coat is scanned by means for detection 13 having electric sliding contacts, which form electric contacts of an electric circuit, while the portion capsule is inserted.

[00069] **Figure 11** illustrates a version of the portion capsule having also an electrically conductive coat 10 that is placed on its bottom 2.2 and is identified by a means for detection 13 having a metal sensor, which is placed in the chute and, for example, detects inductively, while the portion capsule is inserted.

[00070] The embodiment of the invention shown in **Figure 12** has a built~~build~~-in element made of metal (here a strainer 19) that is recognized as identifier by a means for detection 13 having a metal detector.

[00071] The version of the invention shown in **Figure 13** includes a ferromagnetic material 20 placed at the portion capsule' bottom. The identifier is scanned, by means for detection 13 for example, by a magnet, which is placed in the chute, while the portion

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capsule is inserted. The ferromagnetic material acts as identifier.

[00072] **Figure ~~10~~ 14** shows another embodiment which includes a ~~bar-code~~barcode placed in the region of the cover foil. The portion capsule includes a flange 17.

[00073] According to the embodiment shown in **Figure 15** a metallic ring 11 is integrated in the wall region 2.1 and closes means for detection 13 having an electric circuit placed in region of the brewing chamber.

[00074] **Figures 16A and 16B** show ~~shows~~ another embodiment of the portion capsule 1 according to the invention. The illustrated portion capsule features a base element 2 that is basically conical- shaped in the present case and has a bottom region 2.2 and a wall region 2.1. It is provided that the base element contains the raw material and, if necessary, build-in elements like a filter as illustrated here. The expert knows that the build-in element may also include other build-in elements. A flange 17 /edge region 2.4, which is preferably circular and, for example, may be used for sealing a cover foil 4 to it, is attached to the end of the base element, which is placed opposite to the bottom. The flange/edge region has means for fit locking, friction locking and/or detection 2.4.2 in the outer area (outer circumference). As especially shown in the Figures 17a - 17c the means for fit locking, friction locking and/or detection ~~mean~~ 2.4.2 is, in the present case, a gearwheel that is formed by several recesses/bulges evenly arranged in the edge region. Preferably, it is provided that the edge region has a sealing surface 2.4.1, which sealingly interacts with the ~~sealing 21~~seal 31 attached to the brewing chamber ~~27~~12, on the interior side of the gearwheel. The sealing ~~21~~ 31 makes sure that the water coming from a water

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inlet 28 flows ~~rather~~ through the portion capsule by passing an opening, which has been made by a mandrel 29, than around it.

[00075] **Figures 17A, 17B, and 17C~~17a – 17e~~** show different embodiments of the means for fit locking, friction locking and/or detection ~~mean~~ 2.4.2. According to the version shown in Figure ~~17a~~17A, the gearwheel has forty-five teeth. According to the version shown in Figure~~ 17b or 17c~~ 17B or 17C, the gearwheel has twenty-two or twenty-nine teeth, respectively. The expert knows that the manufactured teeth can be shaped arbitrarily. All Figures 17A, 17B, and 17C~~17a – 17e~~ demonstrate how the portion capsule 1 can be ~~hold~~ held by a part of the brewing chamber ~~27~~ 12 using two holding arms 30. The holding arms ~~interacts~~ interact with the means for fit locking, friction locking and/or detection ~~mean~~ 2.4.2. If they are not available, the holding arms will not hold the portion capsule and the portion capsule will not be inserted into the brewing chamber and will fall through it into a dropping box instead. The portion capsule has a base element 2, a wall region 2.1, a bottom area 2.2, a sealing surface 2.4.1, and an edge region 2.4.

[00076] **Figure 18** shows the~~ mean 2.4.2.~~ means for fit locking, friction locking and/or detection 2.4.2 along with ~~an~~ mean for fit locking 24, which is attached to the coffee machine and is represented by a pinion here. It is provided that the mean for fit locking 24 is placed in the media chute or insertion shaft 26 of an insertion shaft housing 23 having a port for inserting the portion capsule in the coffee machine. The distance between the inner wall 25 of the portion capsule ~~25~~ 1 and the mean for fit locking 24 represented by the pinion~~ 27~~ 24 are designed in such a way that the portion capsule only will pass the port, if the means for fit locking, friction locking and/or detection 2.4.2

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~~mean for fit locking~~ is formed complementary to the teeth of the mean for fit locking 24 represented by the pinion ~~27~~. Only in this case the portion capsule rotates the mean for fit locking 24 represented by the pinion 24 while it falls. Both rotating and falling are represented by arrows in the figure. The portion capsule needs the rotation for passing the media chute's port and falling in the intended position afterwards. If the portion capsule has no or wrong mean of fit locking, it will be impossible to place the portion capsule by passing the media chute in the intended position. Additionally, or alternatively, it is provided that the mean for fit locking 24 represented by the pinion ~~24~~ has a pick-up that detects the rotary movement and transmits it to a control unit. If the rotation at least corresponds a defined rotating element, the control unit will activate, for example, the brewing unit. The expert knows that the portion capsule's border may include means for friction locking that interacts with a mean, for example an edge, and shift it in such a way that the shift is detected and therefore the brewing chamber is activated. The portion capsule 1 has a cover foil 4 and a sealing surface 2.4.1.

[00077] The expert moreover knows that a sensor, being for example a camera, which detects the form of the ~~mean~~ means for fit locking, friction locking and/or detection 2.4.2~~.~~, may be installed in the media chute. In the present case the form and/or the distance between the teeth may be detected. If the proper portion capsule was inserted, a resulting signal could be transmitted to a control unit, which activates the brewing chamber.

[00078] **Figure 19** schematically shows a view of another portion capsule's version according to an embodiment of the present invention. **Figure 20** illustrates the same portion capsule from a different point of view schematically. Figure 19 shows the front

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view of the portion capsule. Figure 20 shows the portion capsule viewed from an angle below. In all figures the portion capsule is labeled with the reference sign 1. The portion capsule substantially has a frustoconically shaped base element 2, which is formed similar to a pot and encloses a cavity 3. The cavity 3 is sealed by a membrane 4. Since the viewing direction of ~~Figure 1~~Figure 19 is essentially parallel to the plane, in which the membrane is located, ~~the figure just adumbrate~~ the membrane is at the upper edge of the portion capsule. In particular, the base element 2 comprises a soft, semi-rigid or rigid plastic material which is deep-drown, preferably. The membrane comprises a foil made of plastic material or aluminum. Preferably the base element has a circumferential mounting flange 17 in the region of the membrane, with the membrane and the mounting flange 17 being firmly bonded, in particular by welding or gluing. Preferably a filter element, which is not specifically depicted in the figures, is placed within the base element 2. For instance, the filter element is made of thermoplastic resin such as, for example, polypropylene. The filter element could also be made of a non-woven material such as, for example, thermoplastic resin. Preferably the filter element divides the cavity 3 in two sections. It is provided that the first section can be filled with a raw material and the second section can be filled with and particularly collect a beverage's extract, which is not shown, during the extractions process. Both sections are not illustrated individually.

[00079] The portion capsule is intended for inserting into a brewing chamber or a device for producing a beverage, which is not shown here. In particular such a device for producing a beverage is a coffee machine. The device for producing a beverage could be also a machine that produces a tea drink, a chocolate drink or any other beverage. Preferably an extraction liquid, which is particularly water or hot water, is brought under

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high pressure into the brewing chamber of the device for producing a beverage. The extraction liquid interacts with the raw material of the beverage in such a way that an extract of a beverage or a beverage is generated. In particular the filter element is utilized as a strainer for the extract of a beverage.

[00080] According to the invention, the base element 2 has a wall region ~~12~~ 2.1 and a bottom area ~~11~~2.2. The wall region ~~12~~ 2.1 basically ranges from the flange 17 to the bottom region ~~11~~2.2. Several grooves ~~15~~ 32 are placed in the wall region. In particular these grooves are keyways that are integrated in the wall region ~~12~~ 2.1 and are facing the cavity 3 and range from the flange 17 to the bottom region ~~11~~ 2.2 (i.e. they run perpendicular according to Figure 19). According to the invention provision is made for the grooves ~~15~~ 32 to be extended vertically across the wall region, i.e. they run straight from the flange 17 to the bottom region ~~11~~2.2, in which it is not necessary that they are extended over the whole length. The grooves are formed according to the invention in such a way that the wall region is reinforced or stiffened due to the grooves ~~15~~32. Moreover, the plurality of the grooves ~~15~~32, which are distributed over the wall region ~~12~~2.1, realize an adhesion between wall region ~~12~~ 2.1 and the brewing chamber's wall of the device for producing a beverage after the extraction process. This makes it easier to eject the portion capsule from the brewing chamber automatically. The portion capsule's version represented in Figure 19 comprises a circumferential border 16 that is placed at the wall region ~~12~~ 2.1 ranging from the flange 17 to the bottom area ~~11~~2.2, namely adjacent to the flange 17 facing towards the bottom area ~~11~~2.2. The border 16 has an enlarged diameter (parallel to the membrane 4) compared to the wall region's ranging from the border 16 to the bottom area ~~11~~2.2. It is provided that the border's contour 16

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is designed in such a manner that the border's diameter tapers towards the flange ~~7~~ 17.

[00081] It is provided according to the portion capsule's embodiment, which is represented in Figure 19 and is in accordance with the invention, that the grooves ~~15~~ 32 are placed in the border's region in the first part, partially range from the border 16 to the bottom area ~~11~~ 2.2 across the wall region ~~12~~2.1, in the second part and then finally end. All in all, the grooves cover, for example, around 50 % of the extension of the wall region ~~12~~2.1, which ranges from the flange ~~7~~ 17 to the bottom area ~~11~~2.2, wherein one-third of the grooves' extension is placed in the border's region and two-thirds of the grooves' extension is placed in the remaining wall region ~~12~~ 2.1 that range from the border 16 to the bottom area ~~11~~2.2.

[00082] A portion capsule 1 according to the invention is shown as sectional view along the portion capsule's extension regarding its height in **Figure 21,** i.e. the section's plane is perpendicular to the membrane's main plane. **Figure 22** also shows a portion capsule according to the invention in a sectional view portraying the sectional plane, which is parallel to the membrane's main plane. It is noticeable that the interior of the portion capsule's cavity is shown in Figure 21. The portion capsule's material or the base element's material is so thin that the implementation of grooves 32 at the exterior shown in Figure 19 leads to corresponding convexities 34 and impressions at the interior. Figure 22 particularly illustrates the gearwheel shaped contour 36 resulting from insertion of grooves in the portion capsule's 1 wall region.

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List of reference numerals

1	portion capsule
2	base element
2.1	wall region
2.2	bottom area
2.3	ring
2.4	edge region
2.4.1	sealing surface
2.4.2	means for friction locking and/or detection
3	cavity
4	membrane, cover foil
5,6	unequal sections
7	recess
8	raised area, bulge
10	electrically conductive coat
11	metallic ring
12	brewing chamber
13	detector, mean for detection
14	beam
16	border
17	flange
20	ferromagnetic material
21	reflective section
22	mat section
23	insertion shaft housing
24	mean for fit locking
25	inner wall
26	insertion shaft
28	water inlet
29	mandrel
30	holding arms
31	seal
32	grooves

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34 convexities

36 gearwheel shaped contour

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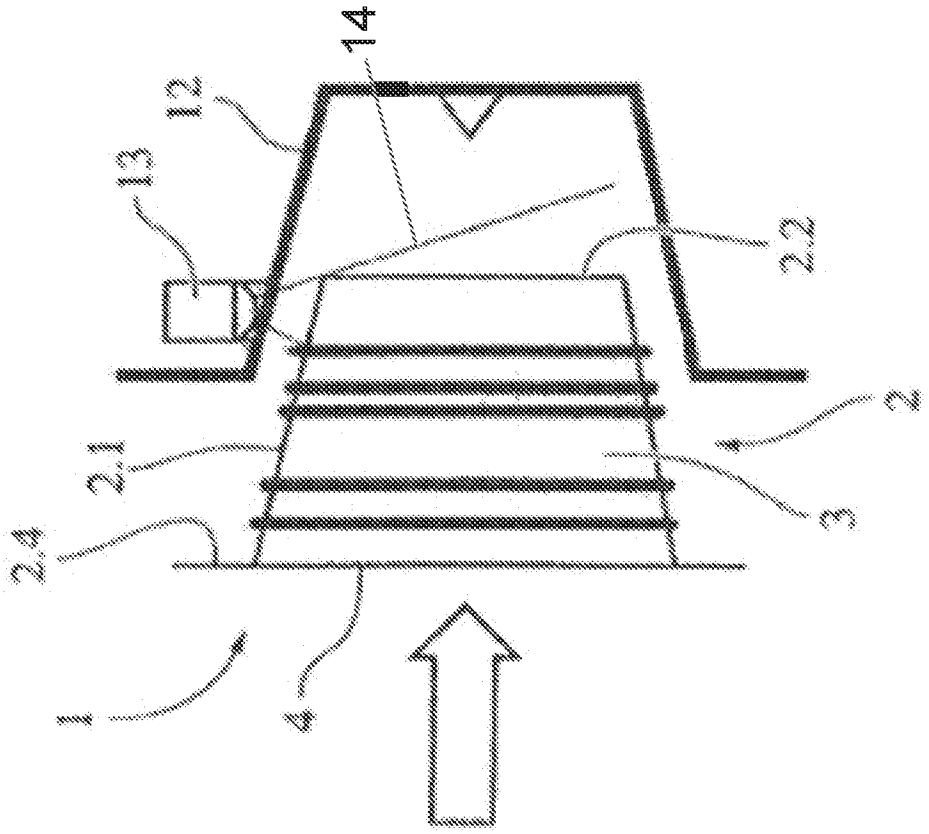


Fig. 1B

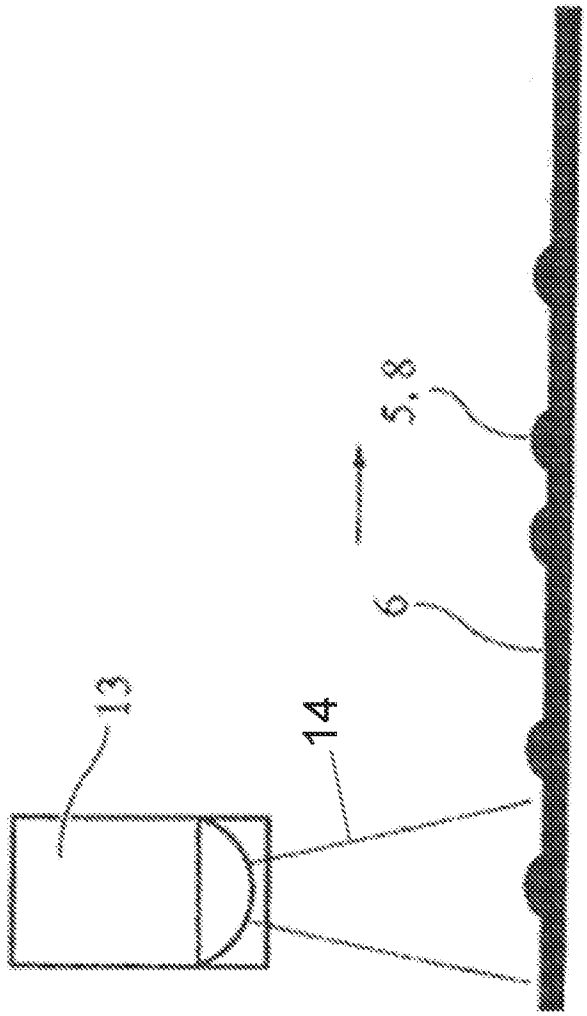


Fig. 1A

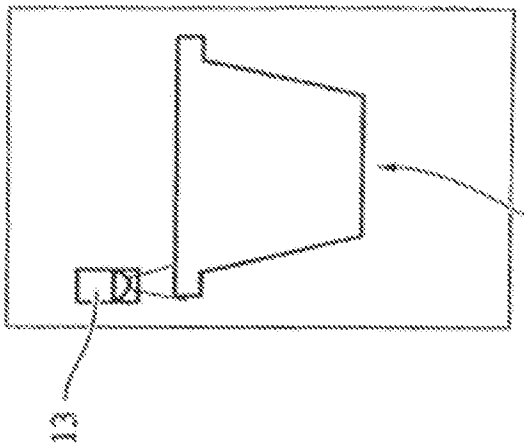


Fig. 2B

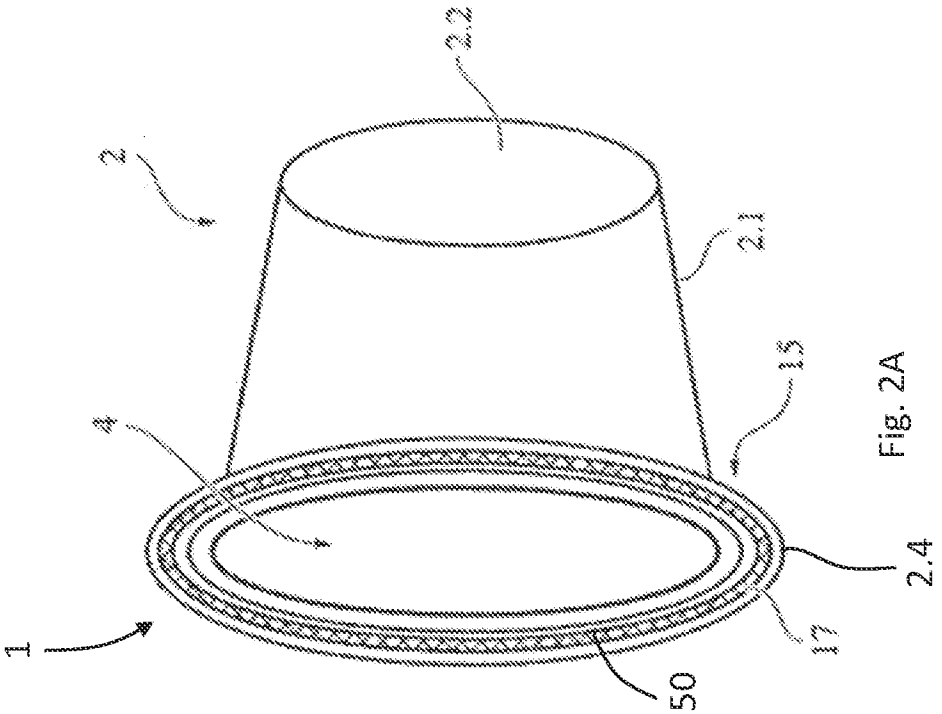


Fig. 2A

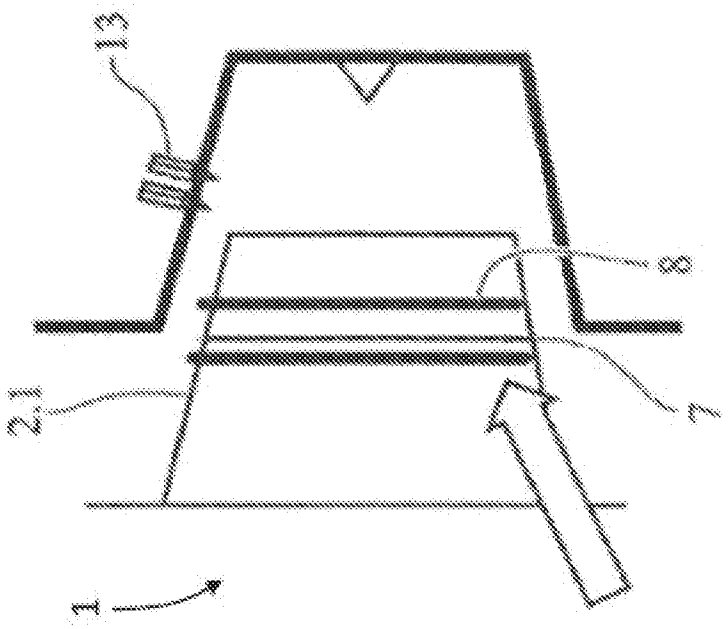


Fig. 3A

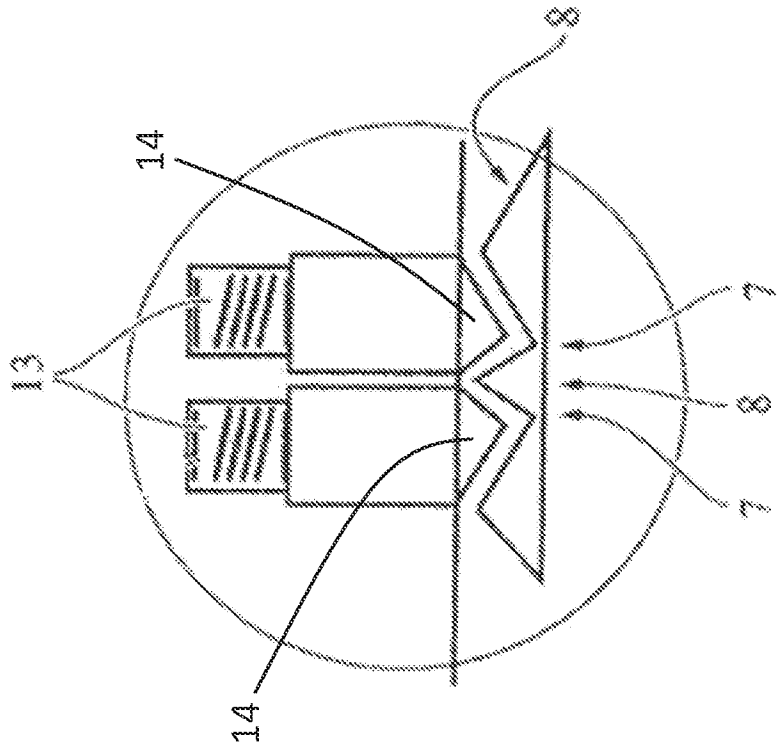


Fig. 3B

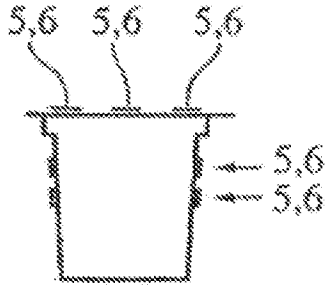


Fig. 4

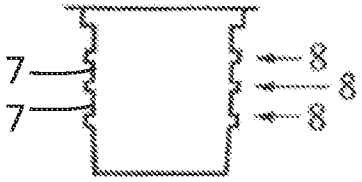


Fig. 5

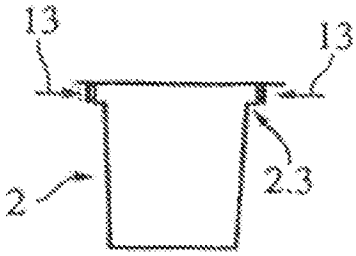


Fig. 6

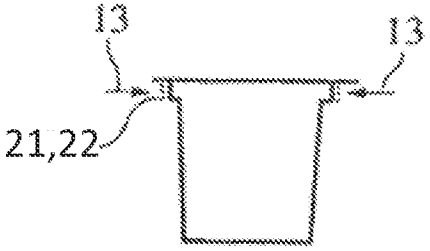


Fig. 7

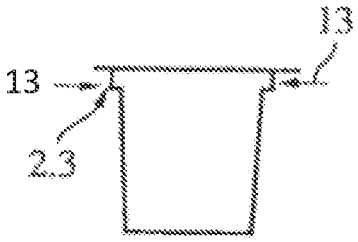


Fig. 8

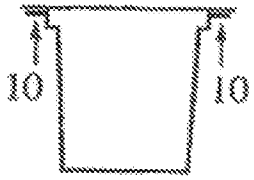


Fig. 9

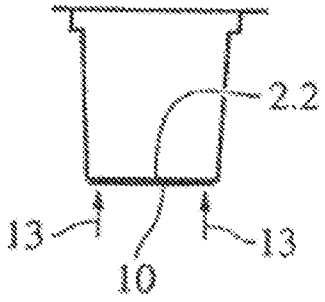


Fig. 10

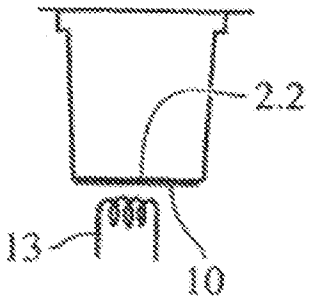


Fig. 11

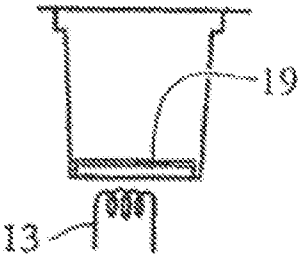


Fig. 12

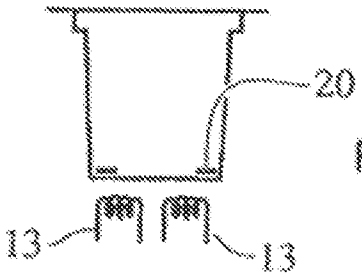


Fig. 13

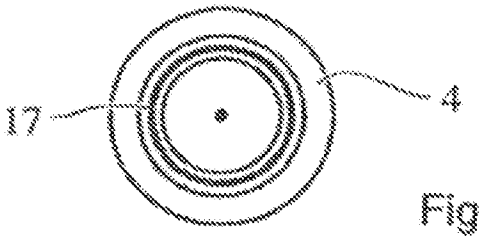


Fig. 14

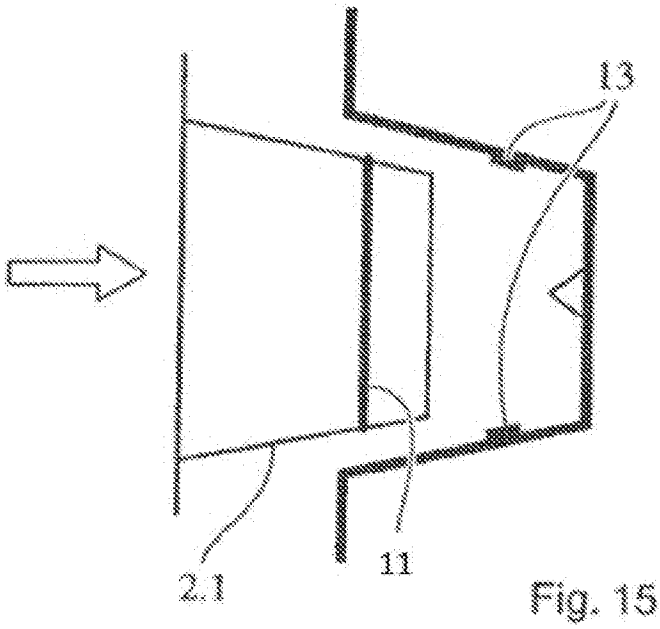


Fig. 15

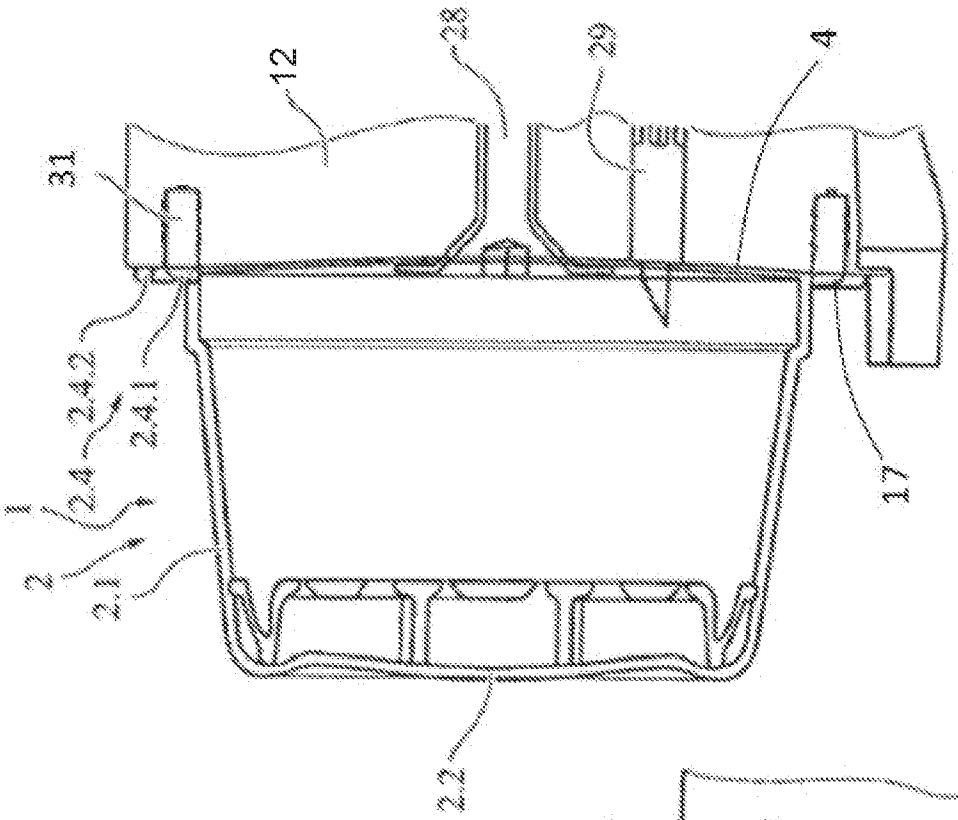


Fig. 16A

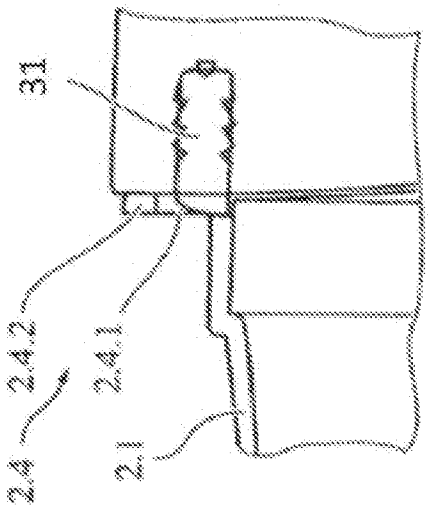


Fig. 16B

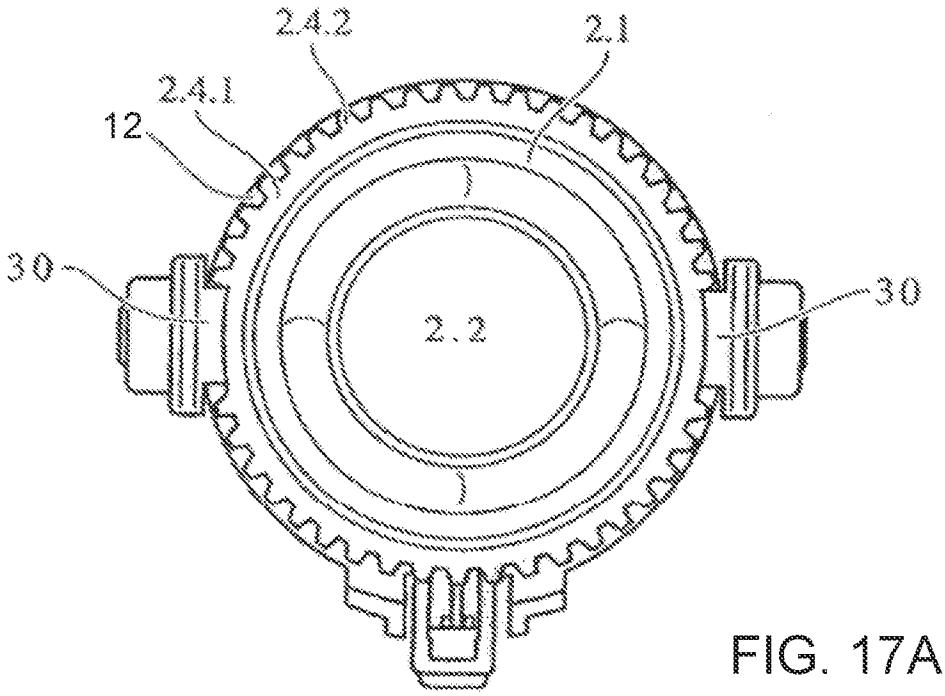


FIG. 17A

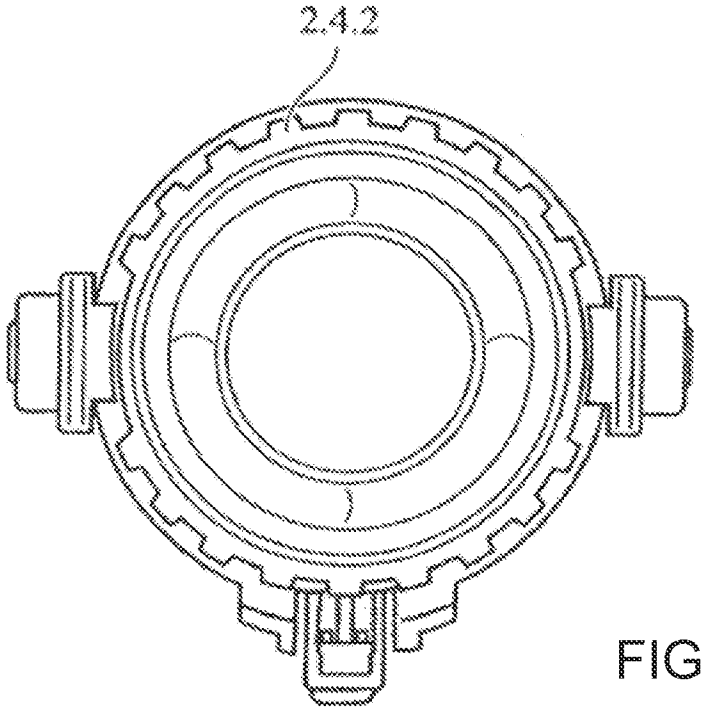


FIG. 17B

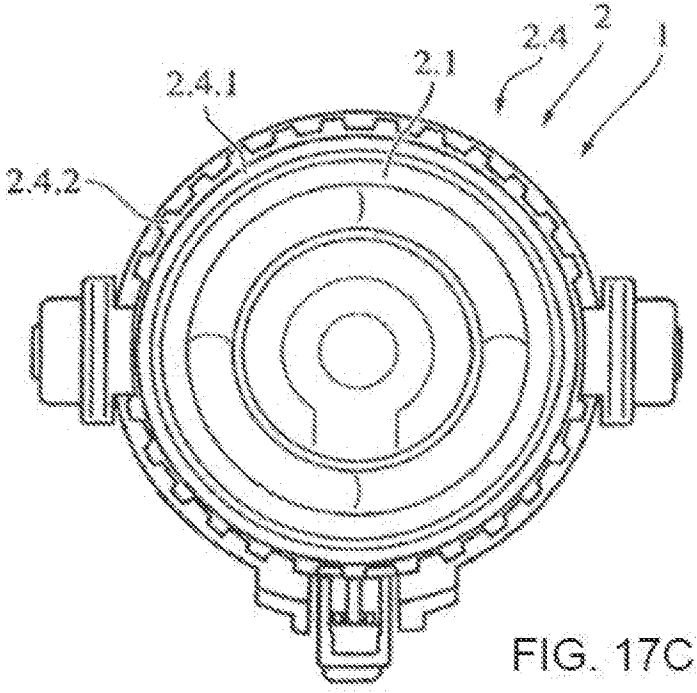


FIG. 17C

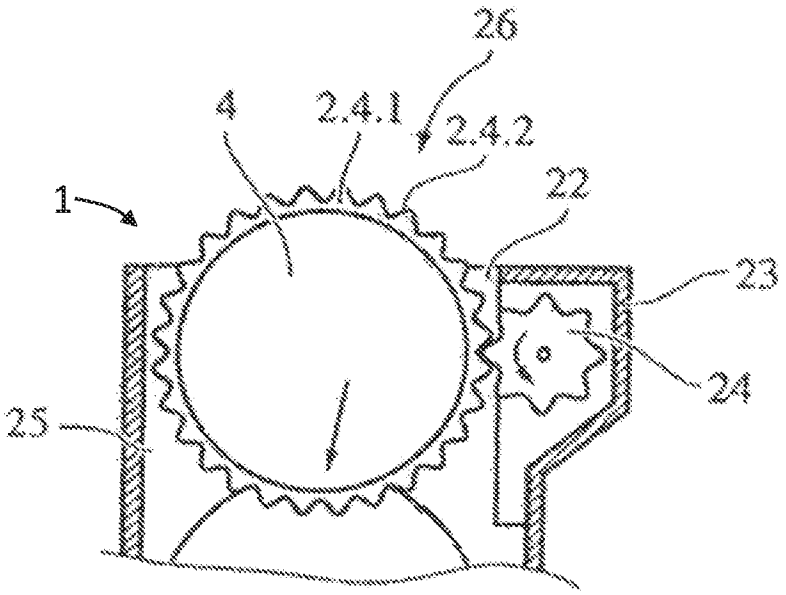


Fig. 18

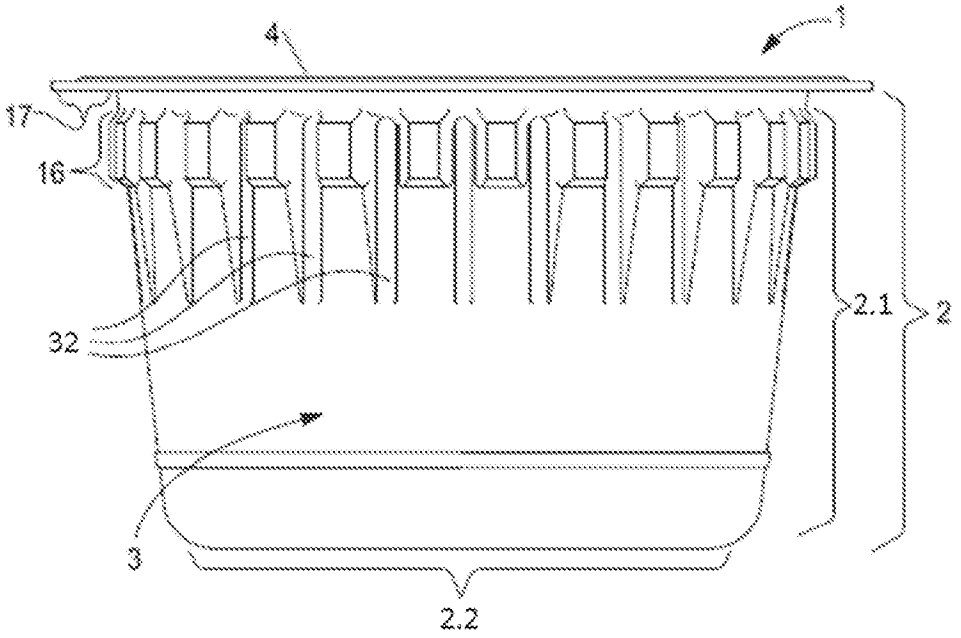


Fig.19

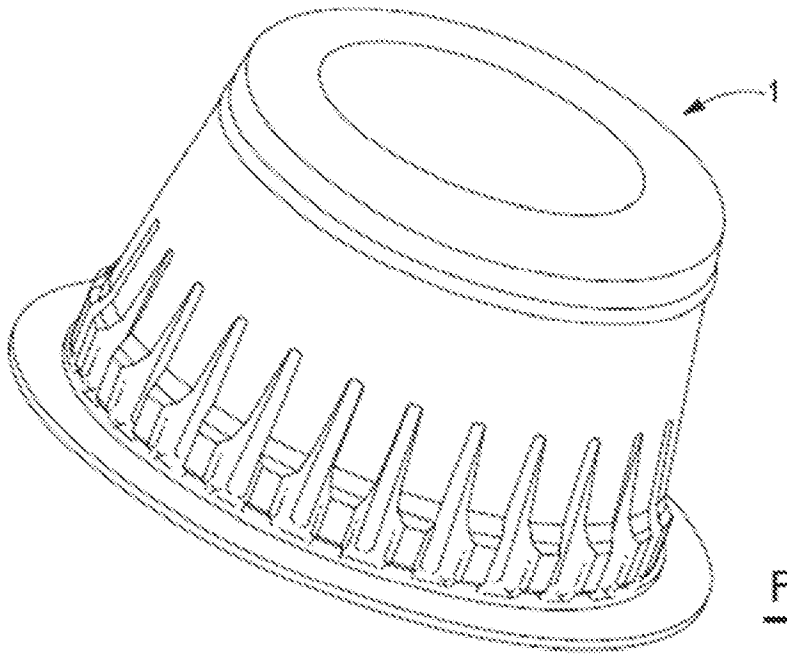


Fig.20

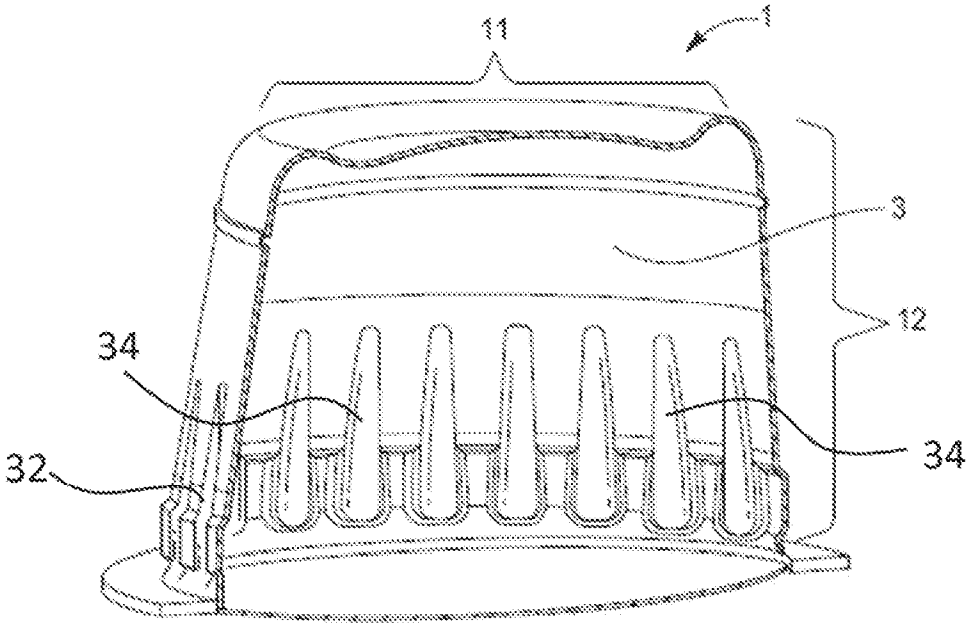


Fig.21

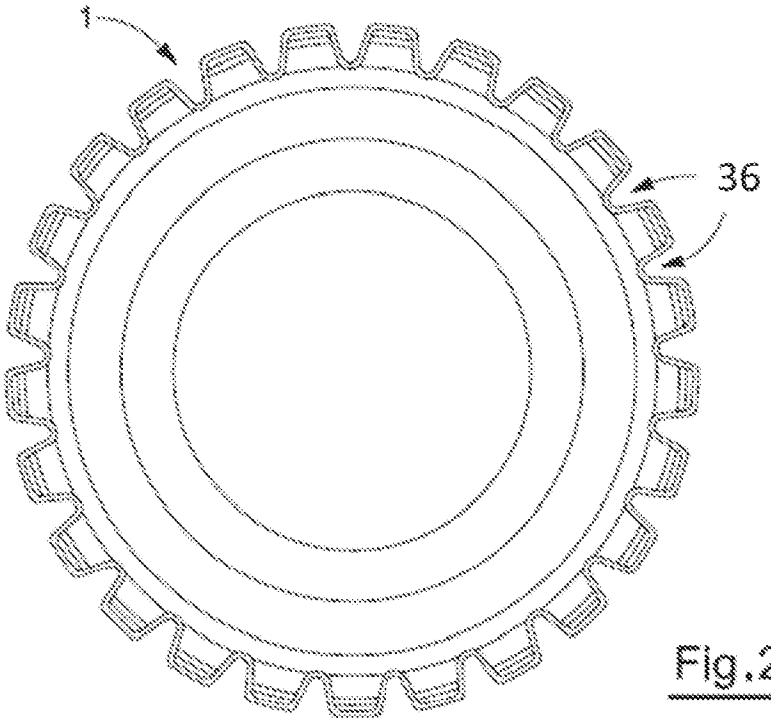


Fig.22

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Practitioner's Docket No. 1859.029USC14 (KRU0022-WO-US-T15)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: TBA
Application No.: TBA	Examiner: TBA
Filed: Herewith	Conf. No.: TBA

For: PORTION CAPSULE HAVING AN IDENTIFIER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits this statement in accordance with its duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Form PTO/SB/08a is submitted herewith. Copies of foreign patent documents and non-patent literature have not been provided due to their presence in the parent application to this application (see MPEP 609.02(A)(2)), and Applicant notes that this section requires the Examiner to consider all of the references previously submitted to the USPTO even if not listed in any Information Disclosure Statement filed in this application. Applicant is resubmitting these references on the attached form PTO/SB/08a so that all of the references are listed on the face of the patent. However, to the extent that any references have been inadvertently overlooked, or otherwise are not resubmitted on this form, Applicant respectfully requests consideration of the previously submitted references as is set forth in MPEP 609.02(A)(2) and inclusion of such references on the face of the patent. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

This Information Disclosure Statement is being submitted prior to the mailing of a first Office Action or Notice of Allowance. No fees are believed to be due; however, if any fee is due with the filing of this paper, please charge the amount to Deposit Account 50-1097.

Date: February 14, 2022

/Paul J. Palinski/

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Reg. No. 71,080
Attorney for Applicant
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1859.029USC14 (KRU0022-WO-US-T15)

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Nespresso USA, Inc. Ex. 1002
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA
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	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

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	Art Unit	TBA
	Examiner Name	TBA
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	169.	FOOD PACKAGING https://books.google.ch/books?id=NFRR6GayR74C&pg=PA265&dq=welding+plastic+packaging+food&hl=fr&sa=X&ved=2ahUKEwiwhqff1_KPvAhWMl4sKHRXUDls4HhDoATACegQIBBAC#v=onepage&q=welding%20plastic%20packaging%20food&f=false	
	170.	COFFEE LOVE https://books.google.ch/books?id=0OxRp3jlQlsC&pg=PA14&dq=coffee+capsules&hl=fr&sa=X&ved=2ahUKEwjF0qvMk6XvAhWTBGMBHYddCp04ChDoATAlegQIAhAC#v=onepage&Q=coffee%20capsules&f=false	
	171.	STRUCTURAL DESIGN PROCEDURE https://books.google.ch/books?id=4L64mKIG_4UC&pg=PA1&dq=%22corrugated+plastic%22&hl=fr&sa=X&ved=2ahUKEwjlcz6uaXvAhWRzaQKHcQpAF4O6AEwAnoECAMQAg#v=onepage&q=%22corrugated%20plastic%22&f=false	
	172.	PACKAGE ENGINEERING https://books.google.ch/books?id=DydNAAAAYAAJ&q=%22corrugated+plastic%22&dq=%22corrugated+plastic%22&hl=fr&sa=X&ved=2ahUKEwiq296WvaXvAhWIPOwKHfcaDrk4KBDoATAGeQOIBBAC	
	173.	Exhibit A-1 – Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	174.	Exhibit A-2 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	175.	Exhibit A-3 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	176.	Exhibit A-4 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	177.	Exhibit A-5 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	178.	Exhibit A-6 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	179.	Exhibit A-7 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	180.	Exhibit A-8 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	181.	Exhibit A-9 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	182.	Exhibit B-1 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

	183.	Exhibit B-2 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	184.	Exhibit B-3 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	185.	Exhibit B-4 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	186.	Exhibit B-5 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	187.	Exhibit B-6 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	188.	Exhibit B-7 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	189.	Exhibit B-8 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	190.	Exhibit B-9 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	191.	Exhibit C-1 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	192.	Exhibit C-2 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	193.	Exhibit C-3 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	194.	Exhibit C-4 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	195.	Exhibit C-5 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	196.	Exhibit C-6 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	197.	Exhibit C-7 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	198.	Exhibit C-8 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	199.	Exhibit C-9 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	200.	Exhibit A - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	201.	Exhibit B - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	202.	Exhibit C - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	

EXAMINER SIGNATURE

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Nespresso USA, Inc. Ex. 1002
Page 149 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

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.			

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Nespresso USA, Inc. Ex. 1002
Page 150 of 532

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Filer:	Paul J. Palinski/BECKY BALLARD
Attorney Docket Number:	1859.029USC14

Filed as Large Entity

Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4200	4200
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**6160**

Electronic Acknowledgement Receipt

EFS ID:	44986567
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	14-FEB-2022
Filing Date:	
Time Stamp:	13:45:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$6160
RAM confirmation Number	E20222DE01033193
Deposit Account	501097
Authorized User	BECKY BALLARD

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ApplicationDataSheet_1859_029USC14_KRU0022_WO_US_T15.pdf	113553 4db2c88356685640fbfdac60eb84ed40c3ce38b1	no	9
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Transmittal of New Application	Transmittal_1859_029USC14_KRU0022_WO_US_T15.pdf	239142 8502bf16b3880d8b08f6bdeba93572009ed09d81	no	2
Warnings:					
Information:					
3	TrackOne Request	TrackOne_1859_029USC14_KRU0022_WO_US_T15.pdf	141914 3d93f31548bd89f7c869d6a681d97495fe103257	no	2
Warnings:					
Information:					
4	Oath or Declaration filed	Oath_Dec_1859_029USC14_KRU0022_WO_US_T15.pdf	117433 88d5e1a8855041d951f0e25c49b61717ea1d6734	no	1
Warnings:					
Information:					
5	Power of Attorney	PowerOfAttorney_1859_029USC14_KRU0022_WO_US_T15.pdf	636910 0b703ac982a98720cebef667023a24277a8067e9	no	1
Warnings:					
Information:					
6	Interim Copy of the Foreign Priority Document	CertifiedEnglishTranslationOf_DE102010031988_0.pdf	2253563 5fbdb09e747a7f00fb2a0694eedb58296671364f	no	22
Warnings:					

Information:					
7	Interim Copy of the Foreign Priority Document	CertifiedEnglishTranslationOf_DE102010044251_8.pdf	3763385 4ca493419f83c432bcdfe9b6c3ff3d6fe5fd8b6b	no	33
Warnings:					
Information:					
8	Interim Copy of the Foreign Priority Document	CertifiedEnglishTranslationOf_DE102011010534_4.pdf	3169169 3d1d17d593e541a65c744edc04244367376cddcc	no	21
Warnings:					
Information:					
9		ParentApplication.pdf	963467 50750b23ddcd9488144aeb92bed5b80edc5b3aa6	yes	20

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	18
	Claims	19	19
	Abstract	20	20

Warnings:					
Information:					
10	Drawings-only black and white line drawings	ParentDrawings.pdf	622346 81658e0169e4709475eb974aa72ccce3a5764ae4	no	12
Warnings:					
Information:					
11		PreliminaryAmendment_1859_029USC14_KRU0022_WO_US_T15.pdf	166771 53705bc8680817aac277c77f180f6cf3c5ce699b	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	1
	Specification	2	2

	Drawings-only black and white line drawings		3		3
	Claims		4		7
	Applicant Arguments/Remarks Made in an Amendment		8		8
Warnings:					
Information:					
12	Specification	SubstituteSpecification_CleanCopy_1859_029USC14_KRU0022_WO_US_T15.pdf	238075 7f66875893344f2dd8d9940d1d287c1fe7dd8853	no	28
Warnings:					
Information:					
13	Specification	SubstituteSpecification_MarkedUpCopy_1859_029USC14_KRU0022_WO_US_T15.pdf	253320 89432f3100de5c86f13c1c2cc62490cd8ca39982	no	29
Warnings:					
Information:					
14	Drawings-only black and white line drawings	ReplacementSheets_1859_029USC14_KRU0022_WO_US_T15.pdf	2543387 2ca142e0b77f3be5e7f9b745a9bcea41a47a3d91	no	12
Warnings:					
Information:					
15	Information Disclosure Statement (IDS) Form (SB08)	IDS_1859_029USC14_KRU0022_WO_US_T15.pdf	781287 d0781d156aa9ff615a56979a9f09f4c920b62ef4	no	35
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
16	Fee Worksheet (SB06)	fee-info.pdf	48329 8f595a98c7f92f4db4475ccaf4edf107f31cfe1d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	16052051		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Marc		Krüger	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Bergisch Gladbach	Country of Residence i	DE

Mailing Address of Inventor:

Address 1	Zaunkönigweg 8		
Address 2			
City	Bergisch Gladbach	State/Province	
Postal Code	51467	Country i	DE

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	25215		
Email Address	patmail@patentco.com	Add Email	Remove Email

Application Information:

Title of the Invention	PORTION CAPSULE HAVING AN IDENTIFIER		
Attorney Docket Number	1859.029USC14	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	12	Suggested Figure for Publication (if any)	1

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	25215		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	17/670629	2022-02-14

IPR2024-00304
Nespresso USA, Inc. Ex. 1002

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
17/670629	Continuation of	17/547363	2021-12-10
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
17/547363	Continuation of	15/646980	2017-07-11
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15/646980	Division of	15/211823	2016-07-15
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15/211823	Division of	13/744623	2013-01-18
Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
13/744623	Continuation of	PCT/EP2011003677	2011-07-22

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
10 2011 010 534.4	DE	2011-02-07	
			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
10 2010 044 251.8	DE	2010-09-02	

IPR2024-00304
Nespresso USA, Inc. Ex. 1002

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[j] (if applicable)
10 2010 031 988.0	DE	2010-07-22	

Remove

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:	

If the Applicant is an Organization check here. ☒

Organization Name	K-FEE SYSTEM GMBH

Mailing Address Information For Applicant:

Address 1	Senefelder Str. 44		
Address 2			
City	Bergisch Gladbach	**State/Province**	
Country	DE	Postal Code	51469
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Paul J. Palinski/			Date (YYYY-MM-DD)	2022-02-14
First Name	Paul J.	Last Name	Palinski	Registration Number	71,080

Additional Signature may be generated within this form by selecting the Add button.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1859.029USC14
	Application Number	
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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 records.

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 CooperationTreaty.

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

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
17/670,765	02/14/2022		1820	1859.029USC14	12	2

CONFIRMATION NO. 8012

FILING RECEIPT

25215
The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

OC000000131931222

Date Mailed: 02/18/2022

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.

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Inventor(s)

Marc Krüger, Bergisch Gladbach, GERMANY;

Applicant(s)

K-FEE SYSTEM GMBH, Bergisch Gladbach, GERMANY;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 17/670,629 02/14/2022
which is a CON of 17/547,363 12/10/2021
which is a CON of 15/646,980 07/11/2017
which is a DIV of 15/211,823 07/15/2016 ABN
which is a DIV of 13/744,623 01/18/2013 ABN
which is a CON of PCT/EP2011/003677 07/22/2011

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)
GERMANY 10 2011 010 534.4 02/07/2011 No Access Code Provided
GERMANY 10 2010 044 251.8 09/02/2010 No Access Code Provided
GERMANY 10 2010 031 988.0 07/22/2010 No Access Code Provided

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: 02/17/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/670,765**

Projected Publication Date: 05/26/2022

Non-Publication Request: No

Early Publication Request: No

Title

PORTION CAPSULE HAVING AN IDENTIFIER

Preliminary Class

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.

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).

LICENSE FOR FOREIGN FILING UNDER

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).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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Page 169 of 532

technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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Page 170 of 532

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/670,765

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE($)	FEE($)		RATE($)	FEE($)
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))	12 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x 480 =	0.00
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	1820

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
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)		(Column 2)	(Column 3)					
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	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.

Practitioner's Docket No. 1859.029USC14 ***PATENT***

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: TBA
Application No.: 17/670,765	Examiner: TBA
Filed: February 14, 2022	Conf. No.: 8012

For: PORTION CAPSULE HAVING AN IDENTIFIER

MAIL STOP MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

1. Attached is a copy of the official filing receipt received from the PTO in the above application for which issuance of a corrected filing receipt is respectfully requested.

2. There is an error with respect to the following, which is incorrectly entered.

Error In:	***Should be:***
1. Power of Attorney: None	2. The patent practitioners associated with Customer Number 25215

No fees are believed to be due with the filing of this request, as the Application Data Sheet filed on February 21, 2022, has the correct information.

Date: February 21, 2022

/Paul J. Palinski /

Paul J. Palinski
Reg. No. 71,080
Attorney for Applicant
The Dobrusin Law Firm, P.C.
29 W. Lawrence Street - Suite 210
Pontiac, MI 48342
(248) 292-2920
Customer No. 25215

CORRECTED FILING RECEIPT

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
17/670,765	02/14/2022		1820	1859.029USC14	12	2

CONFIRMATION NO. 8012

FILING RECEIPT

OC000000131931222

25215
The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

Date Mailed: 02/18/2022

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Inventor(s)

Marc Krüger, Bergisch Gladbach, GERMANY;

Applicant(s)

K-FEE SYSTEM GMBH, Bergisch Gladbach, GERMANY;

Power of Attorney: ~~None~~ The patent practitioners associated with Customer Number 25215

Domestic Priority data as claimed by applicant

This application is a CON of 17/670,629 02/14/2022
which is a CON of 17/547,363 12/10/2021
which is a CON of 15/646,980 07/11/2017
which is a DIV of 15/211,823 07/15/2016 ABN
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Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)
GERMANY 10 2011 010 534.4 02/07/2011 No Access Code Provided
GERMANY 10 2010 044 251.8 09/02/2010 No Access Code Provided
GERMANY 10 2010 031 988.0 07/22/2010 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 173 of 532

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: 02/17/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/670,765**

Projected Publication Date: 05/26/2022

Non-Publication Request: No

Early Publication Request: No

Title

PORTION CAPSULE HAVING AN IDENTIFIER

Preliminary Class

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

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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).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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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

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SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

Electronic Acknowledgement Receipt

EFS ID:	45042571
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	21-FEB-2022
Filing Date:	14-FEB-2022
Time Stamp:	12:06:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	Request_for_Corrected_Filing_Receipt_1859_029USC14.pdf	348444 a51980d62c8099c2571cec4b3683de04303079fb	no	5

Warnings:

Information:	
Total Files Size (in bytes):	348444

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/670,765	02/14/2022		1820	1859.029USC14	12	2

CONFIRMATION NO. 8012

CORRECTED FILING RECEIPT

25215
The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

OC000000131987094

Date Mailed: 02/23/2022

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)

Marc Krüger, Bergisch Gladbach, GERMANY;

Applicant(s)

K-FEE SYSTEM GMBH, Bergisch Gladbach, GERMANY;

Power of Attorney: The patent practitioners associated with Customer Number 25215

Domestic Priority data as claimed by applicant

This application is a CON of 17/670,629 02/14/2022
which is a CON of 17/547,363 12/10/2021
which is a CON of 15/646,980 07/11/2017
which is a DIV of 15/211,823 07/15/2016 ABN
which is a DIV of 13/744,623 01/18/2013 ABN
which is a CON of PCT/EP2011/003677 07/22/2011

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)
GERMANY 10 2011 010 534.4 02/07/2011 No Access Code Provided
GERMANY 10 2010 044 251.8 09/02/2010 No Access Code Provided
GERMANY 10 2010 031 988.0 07/22/2010 No Access Code Provided

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: 02/17/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/670,765**

Projected Publication Date: 05/26/2022

Non-Publication Request: No

Early Publication Request: No

Title

PORTION CAPSULE HAVING AN IDENTIFIER

Preliminary Class

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.

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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NOT GRANTED

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

25215 7590 04/04/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

EXAMINER	
CHOU, JIMMY	

ART UNIT	PAPER NUMBER
3761	

NOTIFICATION DATE	DELIVERY MODE
04/04/2022	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):

dobrusin_PAIR@firsttofile.com
patmail@patentco.com
rmasquelier@patentco.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 17/670,765	**Applicant(s)** Krüger, Marc	
	Examiner CHERYL P GIBSON BAYLOR	**Art Unit** OPET	**AIA (FITF) Status** No

1. THE REQUEST FILED 14 February 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.

/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

25215 7590 04/15/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
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Pontiac, MI 48342

EXAMINER	
CHOU, JIMMY	

ART UNIT	PAPER NUMBER
3761	

NOTIFICATION DATE	DELIVERY MODE
04/15/2022	ELECTRONIC

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

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

dobrusin_PAIR@firsttofile.com
patmail@patentco.com
rmasquelier@patentco.com

Office Action Summary	Application No. 17/670,765	Applicant(s) Krüger, Marc	
	Examiner JIMMY CHOU	Art Unit 3761	AIA (FITF) Status No

-- 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 02/14/2022.

☐ 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) 10-21 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) 10-21 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 02/14/2022 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) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☑ Other: See Continuation Sheet.

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Continuation of Attachment(s) 4) Other: 1. EAST search histroy is attached. 2. WO 2014191044 (FOR translation) is attached.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Priority

Acknowledgment is made of applicant's claim for foreign priority based on applications DE 19 2010 031 988.0, DE 10 2010 044 251.8, and DE 16 2011 010 534.4 filed in Germany on 22 July 2010, 02 September 2010, and 07 February 2011 respectively, the official translations of which were received 02/14/2022.

Under 35 U.S.C. 119(a) or (e), the claims in a U.S. application are entitled to the benefit of a foreign priority date or the filing date of a provisional application if the corresponding foreign application or provisional application supports the claims in the manner required by 35 U.S.C. 112(a) or pre-AIA 35 U.S.C. 112, first paragraph.

This is to say that current application must be an application for a patent for an invention which is also disclosed in the prior application(s), foreign or domestic. The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of 35 U.S.C. 112(a) or the first paragraph of pre-AIA 35 U.S.C. 112, except for the best mode requirement. See Transco Products, Inc. v. Performance Contracting, Inc., 38 F.8d 551, 32 USPQ2d 1077 (Fed. Cir. 1994)

The disclosure of the prior-filed applications, Applications No. DE 19 2010 031 988.0, DE 10 2010 044 251.8, and DE 16 2011 010 5384.4, as well as US Applications

17/670,629, 17/547,363, 15/646,980, 15/211,823 and 13/744,623 fail to provide adequate support or enablement. For example: there is no single embodiment teach or suggest as to how one or more features of embodiment can be used together to produce the embodiment as required in independent claims (i.e., the detail structures of a base element, a plurality of indentations, a ledge arranged on the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element, a rim, an optically detectable individualization identifier having different optically detectable reflective properties).

This application has been filed as a continuation application. The application repeats a substantial portion of prior Applications No. 15/646,980 filed on 7/11/2017, Applications No. 15/211,823 filed on 07/15/2016, Applications No. 13/744,623 filed on 01/18/2013 and respectively but, by way of the claims adds significant disclosure not presented in the prior applications (i.e., “bowed upwardly” in both independent claims and dependent claims 15 and 24 recite the features not in prior applications. For example: para.0017 of ‘363 recites the edge can also designed for guiding the portion capsule into the chute in order to position the portion capsule in the brewing chamber properly. However, instant application claims rim guides the capsule in the insertion shaft such that the portion capsule drops into a brewing chamber).

In this case, the appropriate filing date of instant application is treated as 02/14/2022.

Appropriate correction is required.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the independent claim 10 recites **"a plurality of indentations arranged on the outside surface of the wall, about the central longitudinal axis; a ledge arranged on the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element in combination with an optically detectable individualization identifier, which is carried by the bottom surface of the rim"** (*However, there is no single embodiment shows the combination of independent claim 10 or the original specification discuss in details as to how the embodiments can be combine or use together*); Claim 17 recites "**a plurality of vertically-oriented indentations arranged on the outside surface of the wall; a plurality of vertically-oriented ribs arranged on the inside surface of the wall in combination with an optically detectable individualization identifier which is carried by the bottom surface of the rim**" (*However, there is no single embodiment shows the combination of independent claim 17 or the original specification discuss in details as to how the embodiments can be combine or use together*) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure

is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*,

686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

Claims 10-12 and 14-16 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 10, 16-18 of copending Application No. 17/670,629 in view of Short et al. (US 2018/0325309) and Magniet et al. (US 2013/0236609)

Regarding claim 10, '629 discloses "a portion capsule for making a beverage comprising" (*Claim 10 at lines 1-2*):

"a base element having a cavity in which a beverage material is provided, the base element including a wall that is symmetrical about a central longitudinal axis thereof and having an open end and a closed bottom portion, the base element has a first height that is defined between the open end and the closed bottom portion" (*Claim 10, A), i)*), "the wall has an outside surface and an inside surface which faces the beverage material" (*Claim 10, A), i) teaches the base element has a wall. Examiner noted that a wall that is symmetrical about a central longitudinal axis such that the wall must have two sides*);

"a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface" (*Claim 10, A) ii)*);

"an identifier which is carried by the bottom surface of the rim" (*Claim 10, A) v)*)

"the identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule" (*claim 10, B), ii)*) and "to activate a pump of the beverage machine" (*claim 10, B), v)*);

"a barrier layer to prevent moisture or aroma from escaping out of the portion capsule" (*claim 10, A) iv)*); and

"a cover attached to the base element to close the cavity, the cover having a central region and a perimeter, the cover is **bowed upwardly** to a second height in the central region relative to the perimeter of the cover, the second height of the cover is less than the first height of the base element" (*claim 10, A), iii). Examiner noted that "bowed upwardly" conflict with ordinary meaning of bowed and upwardly because bowed*

means extend outward and downward and upwardly means up position. For interpretation purpose, examiner interpreted that bowed upwardly means bowed outwardly), "the cover includes a piercing region that is configured to be pierced by a mandrel of the beverage machine at a location that is laterally offset from the central longitudinal axis and a sealing region that is configured to be sealed against by a seal of the beverage machine, the sealing region is located between the piercing region and the perimeter of the cover" (*claim 10, A), iii) and B), iv)*).

'629 is silent regarding a plurality of indentations arranged on the outside surface of the wall, about the central longitudinal axis;

a ledge arranged on the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element;

an optically detectable individualization identifier, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties.

Short et al. teaches "plurality of indentations arranged on the outside surface of the wall, about the central longitudinal axis" (*fig.1a-1d, i.e., the plurality of indentations that is formed by the surface having plurality recesses 132*);

"a ledge" (*152*) "arranged on the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element" (*152 is arranged on the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element*). '629 discloses a capsule. Short et al. teaches a capsule. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to modify '629 with Short et al., by

modifying '629 capsule according to Short et al.'s capsule configuration, to adapt different type of brewing chamber (para.0044) and forming a seating region to allow material to be seated and retained (para.0045) as taught by Short et al.

Magniet et al. teaches "an optically detectable individualization identifier, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties" (*para.0066, i.e., an optically readable code on the side wall of the capsule. Fig.2c shows the optical code 3 having plurality of lines having different width so that the it is inherently and necessarily that the lines of code having different reflective properties such as reflective region*). '629 discloses a capsule. Magniet et al. teaches a capsule. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to modify '629 with Magniet et al., by modifying '629 identifier with Magniet et al.'s optical identifier, to provide a known type of bar code for the same purpose of scanning. MPEP 2144.06.

Regarding claim 11, modified '629 discloses "the base element is made of metal, a biodegradable material, or plastic" (*'629, Claim 16*), "the optically detectable individualization identifier is located on the wall of the base element, and the individualization identifier is circumferentially arranged around the central longitudinal axis" (*Magniet et al., fig.2c, 3 is arranged circumferentially arranged around the central longitudinal axis*).

Regarding claim 12, modified '629 discloses "the plurality of indentations are vertically oriented, the wall comprises an inside surface defining the cavity, the inside surface comprises a plurality of ribs" (*Short et al., the plurality of indentations 132 are*

vertically oriented, the wall comprises an inside surface defining the cavity, the inside surface comprises a plurality of ribs 152).

Regarding claim 14, modified '629 discloses "the closed bottom portion comprises an indentation" (*Short et al., 171*).

Regarding claim 15, modified '629 discloses "the portion capsule includes a filter inside of the cavity" (*'629, Claim 17*).

Regarding claim 16, modified '629 discloses "the portion capsule includes a filter inside of the cavity" (*'629, Claim 18*).

Claim 13 is provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 10, 16-18 of copending Application No. 17/670,629 in view of Short et al. (US 2018/0325309) and Magniet et al. (US 2013/0236609) as applied in claims 10-12 and 14-16 above, and further in view of Accursi (US 2010/0129512).

Regarding claim 13, modified '629 discloses all the features of claim limitations as set forth above except for the cover is connected to the top surface of the rim.

Accursi teaches "the cover" (fig.4, 2) is connected to "the top surface of the rim" (fig.4, the capsule 4 has a flange in connection with the cover 2). Modified '629 teaches a capsule. Accursi teaches a capsule. t would have been obvious to one of ordinary skill in the art at the time the invention was filed to modify '629 with Accursi, by modifying '629 capsule with Accursi's capsule having flange of capsule in connection with the

cover, to provide secure connection for sealing the top opening of the capsule (fig.4) as taught by Accursi.

Claims 17-21 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 10-11 and 16-18 of copending Application No. 17/670,629 in view of Doglioni Majer (WO 2014/191044) and Magniet et al. (US 2013/0236609)

Regarding claim 17, modified '629 discloses "a portion capsule for making a beverage comprising" (*Claim 10 at lines 1-2*):

"a base element having a cavity in which a beverage material is provided, the base element including a wall that is symmetrical about a central longitudinal axis thereof and having an open end and a closed bottom portion, the base element has a first height that is defined between the open end and the closed bottom portion" (*Claim 10, A), i)*), "the wall has an outside surface and an inside surface which faces the beverage material" (*Claim 10, A), i) teaches the base element has a wall. Examiner noted that a wall that is symmetrical about a central longitudinal axis such that the wall must have two sides*);

"a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface" (*Claim 10, A) ii)*);

"an identifier, which is carried by the bottom surface of the rim" (*Claim 10, A) v)*)

"a barrier layer to prevent moisture or aroma from escaping out of the portion capsule" (*claim 10, A) iv)*); and

"a cover sealed to the base element to close the cavity, the cover having a central region and a perimeter, the cover is bowed upwardly to a second height in the central region relative to the perimeter of the cover, the second height of the cover is less than the first height of the base element" (*claim 10, A), iii)*), "the cover includes a piercing region that is configured to be pierced by a mandrel of the beverage machine at a location that is laterally offset from the central longitudinal axis and a sealing region that is configured to be sealed against by a seal of the beverage machine, the sealing region is located between the piercing region and the perimeter of the cover" (*claim 10, A), iii) and B), iv)*);

"identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine" (*claim 10, B) v) and Claim 11*).

'629 is silent regarding a plurality of vertically-orientated indentations arranged on the outside surface of the wall; a plurality of vertically-orientated ribs arranged on the inside surface of the wall; an optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties.

Doglioni Majer teaches "a plurality of vertically-orientated indentations arranged on the outside surface of the wall; a plurality of vertically-orientated ribs arranged on the inside surface of the wall" (*fig.1, the plurality of indentations 12 that is formed by the surface having plurality recesses; a plurality of vertically-orientated ribs (i.e., 11 pointed at the plurality of ribs) arranged on the inside surface of the wall*). '629 discloses a capsule. Doglioni Majer

teaches a capsule. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to modify '629 with Doglioni Majer, by modifying '629 capsule according to Doglioni Majer's capsule configuration, to adapt different type of brewing chamber.

Magniet et al. teaches "an optically detectable individualization identifier, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization" (*para.0066, i.e., an optically readable code on the side wall of the capsule. Fig.2c shows the optical code 3 having plurality of lines having different width so that the it is inherently and necessarily that the lines of code having different reflective properties such as reflective region*). '629 discloses a capsule. Magniet et al. teaches a capsule. It would have been obvious to one of ordinary skill in the art at the time the invention was filed to modify '629 with Magniet et al., by modifying '629 identifier with Magniet et al.'s optical identifier, to provide a known type of bar code for the same purpose of scanning. MPEP 2144.06.

Regarding claim 18, modified '629 discloses "the portion capsule comprises a ledge arranged on the inside surface of the wall and projecting towards the central longitudinal axis" (*Doglioni Majer, 9*), and "the individualization identifier is circumferentially arranged around the central longitudinal axis" (*Magniet et al., fig.2c, 3*).

Regarding claim 19, modified '629 discloses "the optically detectable individualization identifier is located on the wall of the base element" (*Magniet et al., 3*), and "the base element is made of metal, a biodegradable material, or plastic" (*'629, Claim 16*).

Regarding claim 20, modified '629 discloses "the portion capsule includes a filter inside of the cavity" (*'629, claim 17*), and "the wall comprises an electrically conductive section" (*'629, Claim 16, i.e., the base element is made of metal*).

Regarding claim 21, modified '629 discloses "the portion capsule includes a filter inside of the cavity" (*'629, claim 18*), and "the wall comprises an electrically conductive section" (*'629, Claim 16, i.e., the base element is made of metal*).

This is a provisional nonstatutory double patenting rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JIMMY CHOU whose telephone number is (571)270-7107. The examiner can normally be reached Mon-Friday.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Helena Kosanovic can be reached on (571) 272-9059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JIMMY CHOU/
Primary Examiner, Art Unit 3761

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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/670,765	Krüger, Marc
	Examiner	Art Unit
	JIMMY CHOU	3761

CPC - Searched*		
Symbol	Date	Examiner
B65D85/8043, A47J31/4492, B65D65/466, B65D2203/06, B65D2203/10	04/11/2022	CHOU

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
99	286,289R,295,302R,307,323	04/11/2022	CHOU

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
inventor name search	04/11/2022	CHOU

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

/JIMMY CHOU/ Primary Examiner, Art Unit 3761	

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Practitioner's Docket No. 1859.029USC14 (KRU0022-WO-US-T15)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: TBA
Application No.: TBA	Examiner: TBA
Filed: Herewith	Conf. No.: TBA

For: PORTION CAPSULE HAVING AN IDENTIFIER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits this statement in accordance with its duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Form PTO/SB/08a is submitted herewith. Copies of foreign patent documents and non-patent literature have not been provided due to their presence in the parent application to this application (see MPEP 609.02(A)(2)), and Applicant notes that this section requires the Examiner to consider all of the references previously submitted to the USPTO even if not listed in any Information Disclosure Statement filed in this application. Applicant is resubmitting these references on the attached form PTO/SB/08a so that all of the references are listed on the face of the patent. However, to the extent that any references have been inadvertently overlooked, or otherwise are not resubmitted on this form, Applicant respectfully requests consideration of the previously submitted references as is set forth in MPEP 609.02(A)(2) and inclusion of such references on the face of the patent. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

This Information Disclosure Statement is being submitted prior to the mailing of a first Office Action or Notice of Allowance. No fees are believed to be due; however, if any fee is due with the filing of this paper, please charge the amount to Deposit Account 50-1097.

Date: February 14, 2022

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14 (KRU0022-WO-US-T15)

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	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

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	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
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	First Named Inventor	Marc Krüger
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	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

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	Examiner Name	TBA /JIMMY CHOU/
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	174.	Exhibit A-2 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	175.	Exhibit A-3 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	176.	Exhibit A-4 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	177.	Exhibit A-5 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	178.	Exhibit A-6 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	179.	Exhibit A-7 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	180.	Exhibit A-8 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	181.	Exhibit A-9 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	182.	Exhibit B-1 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	

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	183.	Exhibit B-2 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
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	186.	Exhibit B-5 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	187.	Exhibit B-6 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
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	189.	Exhibit B-8 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	190.	Exhibit B-9 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	191.	Exhibit C-1 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	192.	Exhibit C-2 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	193.	Exhibit C-3 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	194.	Exhibit C-4 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	195.	Exhibit C-5 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
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	197.	Exhibit C-7 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	198.	Exhibit C-8 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	199.	Exhibit C-9 - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	200.	Exhibit A - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	201.	Exhibit B - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	
	202.	Exhibit C - Nespresso's Preliminary Invalidity Contentions dated September 22, 2021.	

EXAMINER SIGNATURE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

Examiner Signature	/JIMMY CHOU/	Date Considered	04/11/2022
*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.			

IPR2024-00304
Nespresso USA, Inc. Ex. 1002

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	WO "2014061045"	US-PGPUB; USPAT	AND	ON	2022/04/11 22:13
L2	15	WO "2014061045"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 22:13
L3	8	WO "2014191044"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 22:23
L4	6,210	B65D85/8043.cpc. and (capsule or cartridge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 23:10
L5	431	B65D85/8043.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 23:11
L6	942	A47J31/4492.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 23:12
L7	228	B65D65/466.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2022/04/11 23:12

			DERWENT; IBM_TDB			
L8	388	B65D2203/06.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 23:12
L9	374	B65D2203/10.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 23:12
L10	0	((("KrÃ¼ger") near3 ("Marc"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/04/11 23:12
L11	24	((("K-FEE") near3 ("SYSTEM") near3 ("GMBH"))).AS,AANM.	USPAT	OR	ON	2022/04/11 23:12
S1	2,272	99/286,289R,295,302R,307,323.ccls.	USPAT	ADJ	ON	2013/04/30 14:51
S2	206	99/286,289R,295,302R,307,323.ccls. and (capsule)	USPAT	ADJ	ON	2013/04/30 14:52
S3	466	99/286,289R,295,302R,307,323.ccls. and (capsule)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 14:52
S4	787	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 16:11
S5	321	S4 not S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 16:11
S6	519	426/77,78,79,112,433,115.ccls. and (capsule or cartridge)	US-PGPUB; USPAT;	ADJ	ON	2013/04/30 17:45

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S7	287	S6 not S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 17:45
S8	446	426/77,78,79,112,433,115.ccls. and (capsule or cartridge) and (beverage or coffee)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 17:45
S9	446	426/77,78,79,112,433,115.ccls. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 17:45
S10	17	"7604826"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 19:20
S11	2	"20110030563"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2013/04/30 20:26
S15	9	"7604826"	USPAT	ADJ	ON	2013/05/01 13:17
S16	9	"7604826"	USPAT	ADJ	ON	2013/05/01 15:33
S17	0	"20110030563"	USPAT	ADJ	ON	2013/05/01 15:33
S18	1	"20110030563"	US-PGPUB; USPAT	ADJ	ON	2013/05/01 15:33

S19	1	"20080105131"	US-PGPUB; USPAT	ADJ	ON	2013/05/01 15:34
S20	59	((KON) near2 (WONG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/05/01 15:41
S21	24	((GUIDO) near2 (BRANDT)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/05/01 15:46
S22	42	((HENDRIK) near2 (KOELING)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/05/01 15:47
S23	30	((RALF) near2 (KAMERBEEK)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/05/01 15:47
S24	17	((AREND) near2 (BIESHEUVEL)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/05/01 15:47
S25	1	"20080069550"	USPAT	ADJ	ON	2014/01/17 13:54
S26	5	"20080069550"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/17 13:54
S27	1	"13323430"	USPAT	ADJ	ON	2014/01/27 13:10
S28	2	WO "02081337"	USPAT	ADJ	ON	2014/01/27 13:14
S29	21	WO "02081337"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:14
S30	3	CN "101309840"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:35
S31	3	CN "101410041"	US-PGPUB; USPAT; USOCR;	ADJ	ON	2014/01/27 13:49

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S32	3	CN "101421172"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:50
S33	4	CN "1125681"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:55
S34	27	GB "1256247"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:56
S35	2	JP "01310612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:57
S36	2	JP "02231043"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:57
S37	2	CN "1612831"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 13:58
S38	3	JP "2000336570"	US-PGPUB; USPAT; USOCR; FPRS;	ADJ	ON	2014/01/27 13:58

			EPO; JPO; DERWENT; IBM_TDB			
S39	5	Wo "2004064582"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:05
S40	3	JP "2000336570"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:11
S41	8	WO "2008078990"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:12
S42	11	WO "2008117329"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:14
S43	11	WO "2008117329"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:19
S44	8	Wo "2008078990"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:19
S45	1	JP "62188626"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2014/01/27 14:19

			DERWENT; IBM_TDB			
S46	5	JP "63047890"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/01/27 14:19
S47	0	WO "2008132571"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/02/04 12:04
S48	33	WO "2008132571"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 12:04
S49	2	"20120258211"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 12:28
S50	2	"20120258221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 12:28
S51	116	"5794519"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 13:13
S52	107	"2968560"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 13:13
S53	871	"99".clas. and (pressure with (capsule or cartridge))	US-PGPUB; USPAT;	ADJ	ON	2014/02/04 13:16

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S54	254	"99".clas. and (pressure with (capsule or cartridge)) same bar$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 13:16
S55	17	"8220382"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/04 19:38
S56	3	"8220382"	USPAT	ADJ	ON	2014/02/10 15:31
S57	1	"0376844"	USPAT	ADJ	ON	2014/02/10 16:27
S58	3	"13326291"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/02/10 16:47
S59	2,373	99/286,289R,295,302R,307,323.ccls. \	USPAT	ADJ	ON	2014/02/10 20:32
S60	409	99/286,289R,295,302R,307,323.ccls. and (cartridge or capsule)	USPAT	ADJ	ON	2014/02/10 20:32
S61	911	99/286,289R,295,302R,307,323.ccls. and (cartridge or capsule)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/02/10 20:32
S62	3	"8220382"	USPAT	ADJ	ON	2014/02/10 20:34
S63	1	"7807939"	USPAT	ADJ	ON	2014/11/19 21:43
S64	2	"20100317172"	US-PGPUB; USPAT	ADJ	ON	2014/11/19 21:44
S65	8	"6164956"	USPAT	ADJ	ON	2014/11/20 12:30
S66	1	JP "2001012703"	USPAT; JPO	ADJ	ON	2014/11/20 12:40

S67	30	WO "2006030461"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/20 13:21
S68	20	"8220382"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/20 14:01
S69	877	99/286,289R,295,302R,307,323.ccls. and (capsule) and (coffee)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/20 20:21
S70	14	WO "2008125256"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/20 21:25
S71	30	WO "2006030461"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/20 22:47
S72	30	WO "2006030461"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/20 22:54
S73	25	"7552672"	USPAT	ADJ	ON	2014/11/21 01:58
S74	0	EP "2298671"	USPAT; EPO	ADJ	ON	2014/11/21 02:35
S75	4	EP "2298671"	US-PGPUB; USPAT; USOCR;	ADJ	ON	2014/11/21 02:36

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S76	300	99/286,289R,295,302R,307,323.ccls. and (capsule)	USPAT	ADJ	ON	2014/11/21 03:03
S77	982	426/77,78,79,112,433,115.ccls. and (capsule or cartridge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/21 03:03
S78	4	EP "2298671"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/21 03:31
S79	2	"20120263833"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/21 14:28
S80	65	((Kon) near2 (Wong)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/11/21 14:45
S81	28	((Guido) near2 (Brandt)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/11/21 14:47
S82	41	((Ralf) near2 (Kamerbeek)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/11/21 15:39
S83	24	((Arend) near2 (Biesheuvel)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/11/21 15:39
S84	3	"13326291"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/11/21 16:12
S85	59	"5402707"	USPAT	ADJ	ON	2015/03/08 20:02

S86	26	"7552672"	USPAT	ADJ	ON	2015/03/09 14:08
S87	3	EP "1775234"	USPAT; EPO	ADJ	ON	2015/03/09 14:18
S89	1,549	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge or (K adj cup))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:34
S90	22	99/286,289R,295,302R,307,323.ccls. and (K adj cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:35
S91	35	426/77,78,79,112,433,115.ccls. and (K adj3 cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:35
S92	0	A47J 31/42.cpc. and (K adj3 cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:37
S93	0	A47J 31/42.cpc. and (capsule or cartridge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:37
S94	0	A47J 31/42.cpc. and (coffee)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:37
S95	0	A47J 31/42.cpc.	US-PGPUB; USPAT; USOCR;	ADJ	ON	2015/03/09 14:37

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S96	135	A47J31/42.cpc. and ((k adj3 cup) or cartridge or capsule)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/09 14:37
S97	0	EP1775234	USPAT	ADJ	ON	2015/03/09 14:40
S98	0	EP1775234	USPAT; EPO	ADJ	ON	2015/03/09 14:40
S99	3	EP "1775234"	USPAT; EPO	ADJ	ON	2015/03/09 14:40
S100	3,379	B65D85/8043.cpc. and (capsule)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/11/13 14:45
S101	923	B65D85/8043.cpc. and (capsule or cartridge) and (pierc$3 or inject$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/11/13 14:46
S102	4	"8220382"	USPAT	ADJ	ON	2016/03/02 15:37
S103	121	"4136202"	USPAT	ADJ	ON	2016/03/02 15:38
S104	4	"8220382"	USPAT	ADJ	ON	2016/03/02 15:49
S105	1	"20100064899"	USPAT	ADJ	ON	2016/03/02 15:49
S106	2	"20100064899"	US-PGPUB; USPAT	ADJ	ON	2016/03/02 15:49
S107	2	"13326291"	US-PGPUB; USPAT	ADJ	ON	2016/03/02 15:50
S108	4	"8220382"	USPAT	ADJ	ON	2016/03/03 16:34
S109	121	"4136202"	USPAT	ADJ	ON	2016/03/03 16:34
S110	1	"20100064899"	USPAT	ADJ	ON	2016/03/03 16:34
S111	2	"20100064899"	US-PGPUB; USPAT	ADJ	ON	2016/03/03 16:34

S112	1	"20080245236"	US-PGPUB; USPAT	ADJ	ON	2016/03/03 16:38
S113	2	"20100101428"	US-PGPUB; USPAT	ADJ	ON	2016/03/03 16:39
S114	2	"20100037779"	US-PGPUB; USPAT	ADJ	ON	2016/03/03 16:42
S115	2	"20090126577"	US-PGPUB; USPAT	ADJ	ON	2016/03/03 16:43
S116	1	"20100064899"	USPAT	ADJ	ON	2016/03/04 10:04
S117	2	"20100064899"	US-PGPUB; USPAT	ADJ	ON	2016/03/04 10:04
S118	152	"5472719"	USPAT	ADJ	ON	2016/05/12 11:00
S119	2	EP "0507905"	USPAT	ADJ	ON	2016/05/12 11:04
S120	2	EP "0507905"	USPAT; EPO	ADJ	ON	2016/05/12 11:04
S121	18	EP "0507905"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/12 11:04
S122	1,960	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge or tray)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/12 20:31
S123	800	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge or tray) and (pierc$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/12 20:31
S124	0	A47J 31/42.cpc. and (capsule or cartridge) and (capsule or cartridge or tray) and (pierc$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/12 20:32

S125	0	A47J 31/42.cpc. and (capsule or cartridge) and (pierc$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/12 20:32
S126	0	A47J 31/42.cpc. and (capsule or cartridge)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2016/05/12 20:32
S127	15	JP "2000355375"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 14:31
S128	1	JP "06015879"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 14:34
S129	1	JP adj "06015879"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 14:38
S130	0	JP adj5 "015879"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 14:38
S131	1	JP near "015879"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 14:38
S132	6,230	B65D85/8043.cpc. and (capsule or cartridge)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 15:15

S133	14	B65D85/8043.cpc. and (capsule or cartridge) and ((pre adj3 cut$4) or (pre adj3 open$2))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 15:16
S134	537	B65D85/8043.cpc. and (capsule or cartridge) and (perforat$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2017/01/05 15:21
S135	790	426/115,425.ccls. and (capsule or cartridge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2018/01/05 14:24
S136	1,151	426/79,82,112,115,425,435.ccls. and (capsule or cartridge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2018/01/05 14:27
S137	1	"14994648"	US-PGPUB; USPAT	ADJ	ON	2018/01/07 15:49
S138	16	WO "2006126230"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2018/01/08 11:04
S139	7	"7631594"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2018/01/08 12:57
S140	1	"14342722"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2018/01/08 13:40
S143	33	99/286,289R,295,302R,307,323.ccls. and ((capsule) and (piercing)).clm.	USPAT	ADJ	ON	2018/10/19 10:49
S144	2	"13326291"	US-PGPUB; USPAT	AND	ON	2018/10/19 11:13

S147	0	"15774789"	USPAT	OR	OFF	2019/02/15 14:38
S148	1	"15774789"	US-PGPUB; USPAT	AND	OFF	2019/02/15 14:38
S149	8	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge or tray) and ((damping or valve) near (control$4 adj5 flow adj5 rate))	US-PGPUB; USPAT; USOCR	ADJ	ON	2019/02/15 15:13
S150	3	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge or tray) near (control$4 adj5 flow adj5 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2019/02/15 15:16
S151	3	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) near (control$4 adj5 flow adj5 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2019/02/15 15:16
S152	37	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) same(control$4 adj5 flow adj5 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2019/02/15 15:22
S153	37	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) same (control$4 adj5 flow adj5 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2019/02/15 15:22
S154	10	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) and ((hermetically or airtight) near (lid or cover))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/15 17:08
S155	7	"2017073153"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/15 21:19
S156	0	"2017073153"	US-PGPUB; USPAT	ADJ	ON	2019/02/15 21:19
S157	0	"2017073153"	US-PGPUB; USPAT	ADJ	ON	2019/02/15 21:20
S158	0	JP "2017512535"	US-PGPUB; USPAT	ADJ	ON	2019/02/15 21:20
S159	3	JP "2017512535"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/15 21:20

S160	15	WO "2015136433"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/15 21:22
S161	2	"20070144355"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/15 21:26
S162	3	"15774789"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/16 17:42
S163	1	"20070144355"	US-PGPUB; USPAT	AND	ON	2019/02/16 18:20
S164	56	99/286,289R,295,302R,307,323.ccls. and ((capsule or cartridge) near (deform or deformable))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/16 19:24
S165	15	WO "2015136433"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/02/16 20:06
S166	1,004	A47J31/0668.cpc. and (capsule or cartridge)	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2019/02/16 20:19
S167	1,083	A47J31/3623.cpc. and (capsule or cartridge)	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2019/02/16 20:19
S168	9,008	B65D85/8043.cpc. and (capsule or cartridge)	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2019/02/16 20:19

S169	240	426/77,78,79,112,433,115.ccls. and (capsule or cartridge) and (injecting)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2019/02/16 20:43
S170	8	"8161866"	USPAT	AND	OFF	2021/02/10 14:47
S171	19	"8202560"	USPAT	AND	OFF	2021/02/10 14:47
S172	0	"15531329"	USPAT	AND	OFF	2021/02/10 14:48
S173	2	"15531329"	US-PGPUB; USPAT	AND	OFF	2021/02/10 14:48
S175	40	((("WONG") near3 ("Kon") near3 ("Euan") near3 ("Gerard"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/05/13 14:19
S176	14	EP "1775234"	USPAT	ADJ	ON	2021/05/13 17:06
S177	42	EP "1775234"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/13 17:06
S178	29	"8220382"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/13 17:15
S179	116	("20030172813" | "20040045443" | "20040188459" | "20050051478" | "20050205601" | "20050287251" | "20060019000" | "20060110507" | "20060174773" | "20060292012" | "20070068395" | "20070084352" | "20070186784" | "20070224319" | "20080095904" | "20080105131" | "20080115674" | "20080134902" | "20080216666" | "20080245236" | "20080317931" | "20090007794" | "20090007796" | "20090017177" | "20090126577" | "20090158938" | "20090205503" | "20090255410" | "20090280219" | "20100024658" |	US-PGPUB; USPAT; USOCR	OR	OFF	2021/05/13 17:22

		"20100037779" | "20100043644" | "20100043645" | "20100043646" | "20100064899" | "20100077928" | "20100101428" | "20100129512" | "20100154647" | "20100154651" | "20100186599" | "20100203208" | "20100288131" | "20100303964" | "20110030563" | "3615708" | "4321139" | "4417504" | "4846052" | "4859337" | "5325765" | "5327815" | "5398595" | "5402707" | "5649472" | "5762987" | "5826492" | "5840189" | "5897899" | "6079315" | "6082247" | "6142063" | "6182554" | "6440256" | "6589577" | "6606938" | "6607762" | "6644173" | "6645537" | "6655260" | "6658989" | "6666130" | "6672200" | "6708600" | "7165488" | "7279188" | "7347138" | "7360418" | "7377162" | "7398726" | "7490542" | "7513192" | "7523695" | "7543527" | "7552672" | "7604826" | "7624673" | "7640845" | "7703381" | "7815953" | "7836819" | "7854192" | "7856920" | "7856921" | "7930972" | "7946217" | "7993691" | "8147887" | "8161866" | "8161868" | "8202560" | "8220382" | "8304006" | "D408679" | "D452433" | "D452434" | "D462865" | "D474110" | "D474111" | "D489215").PN. OR ("D502362" | "D513572" | "D544299" | "D554299").PN. OR ("8846120").URPN.				
S180	4,062,133	WO "2008132571"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/05/13 17:50
S181	17,497,581	WO "2008132571"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/05/13 17:50
S182	104	WO "2008132571"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/05/13 17:50

S183	104	WO "2008132571"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/14 01:34
S184	236	"6079315"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/14 01:44
S185	14	"8220382"	US-PGPUB; USPAT	AND	OFF	2021/05/14 16:27
S186	2	"20080216666"	US-PGPUB; USPAT	AND	OFF	2021/05/14 16:32
S187	203	"6079315"	US-PGPUB; USPAT	AND	OFF	2021/05/14 16:55
S188	14	WO "2008132571"	US-PGPUB; USPAT	AND	OFF	2021/05/14 16:56
S189	104	WO "2008132571"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/05/14 16:56
S190	169	(US-0007794-$ | US-0007796-$ | US-0017177-$ | US-0019000-$ | US-0024658-$ | US-0030563-$ | US-0037779-$ | US-0043644-$ | US-0043645-$ | US-0043646-$ | US-0045443-$ | US-0051478-$ | US-0064899-$ | US-0068395-$ | US-0077928-$ | US-0084352-$ | US-0095904-$ | US-0101428-$ | US-0105131-$ | US-0110507-$ | US-0115317-$ | US-0115674-$ | US-0125256-$ | US-0126577-$ | US-0129512-$ | US-0134902-$ | US-0154647-$ | US-0154651-$ | US-0158938-$ | US-0172813-$ | US-0174773-$ | US-0186599-$ | US-0186784-$ | US-0188459-$ | US-0203208-$ | US-0205503-$ | US-0205601-$ | US-0216666-$ | US-0224319-$ | US-0245236-$ | US-0255410-$ | US-0258210-$ | US-	US-PGPUB; USPAT	AND	OFF	2021/05/14 21:10

		0280219-$ | US-0287251-$ | US-0288131-$ | US-0292012-$ | US-0303964-$ | US-0317931-$ | US-1125681-$ | US-1612831-$ | US-2968560-$ | US-20030172813-$ | US-20040045443-$ | US-20040115317-$ | US-20040188459-$ | US-20050051478-$ | US-20050205601-$ | US-20050287251-$ | US-20060019000-$ | US-20060110507-$ | US-20060174773-$ | US-20060292012-$ | US-20070068395-$ | US-20070084352-$ | US-20070186784-$ | US-20070224319-$ | US-20080095904-$ | US-20080105131-$ | US-20080115674-$ | US-20080125256-$ | US-20080134902-$ | US-20080216666-$ | US-20080245236-$ | US-20080317931-$ | US-20090007794-$ | US-20090007796-$ | US-20090017177-$ | US-20090126577-$ | US-20090158938-$ | US-20090205503-$ | US-20090255410-$ | US-20090280219-$ | US-20100024658-$ | US-20100037779-$ | US-20100043644-$ | US-20100043645-$ | US-20100043646-$ | US-20100064899-$ | US-20100077928-$ | US-20100101428-$ | US-20100129512-$ | US-20100154647-$ | US-20100154651-$ | US-20100186599-$ | US-20100203208-$ | US-20100288131-$ | US-20100303964-$ | US-20110030563-$ | US-20120258210-$ | US-3615708-$ | US-4136202-$ | US-4321139-$ | US-4417504-$ | US-4846052-$ | US-4859337-$ | US-5325765-$ | US-5327815-$ | US-5398595-$ | US-5402707-$ | US-5649472-$ | US-5762987-$ | US-5826492-$ | US-5840189-$ | US-5897899-$ | US-6079315-$ | US-6082247-$ | US-6142063-$ | US-6182554-$ | US-6440256-$ | US-6589577-$ | US-6606938-$ | US-6607762-$ | US-6644173-$ | US-6645537-$ | US-6655260-$ | US-6658989-$ | US-6666130-$ | US-6672200-$ | US-6708600-$ | US-7165488-$ | US-7279188-$ | US-7347138-$ | US-			

		7377162-$ | US-7398726-$ | US-7490542-$ | US-7513192-$ | US-7523695-$ | US-7543527-$ | US-7552672-$ | US-7604826-$ | US-7624673-$ | US-7640845-$ | US-7703381-$ | US-7836819-$ | US-7854192-$ | US-7856920-$ | US-7856921-$ | US-7930972-$ | US-7946217-$ | US-7993691-$ | US-8147887-$ | US-8161866-$ | US-8161868-$ | US-8202560-$ | US-8220382-$ | US-8304006-$ | US-8322271-$ | US-D408679-$ | US-D452433-$ | US-D452434-$ | US-D462865-$ | US-D474110-$ | US-D474111-$ | US-D489215-$ | US-D502362-$ | US-D513572-$ | US-D544299-$ | US-D554299-$).DID.				
S191	81	(BI-0507905-$ | AI-02081337-$ | AI-20030172813-$ | AI-20040045443-$ | AI-20040115317-$ | AI-20040188459-$ | AI-20050051478-$ | AI-20050205601-$ | AI-20050287251-$ | AI-20060019000-$ | AI-20060110507-$ | AI-20060174773-$ | AI-20060292012-$ | AI-2006045537-$ | AI-20070068395-$ | AI-20070084352-$ | AI-20070186784-$ | AI-20070224319-$ | AI-2007114685-$ | AI-20080095904-$ | AI-20080105131-$ | AI-20080115674-$ | AI-20080134902-$ | AI-20080216666-$ | AI-20080245236-$ | AI-20080317931-$ | AI-2008117329-$ | AI-2008125256-$ | AI-2008132571-$ | AI-20090007794-$ | AI-20090007796-$ | AI-20090017177-$ | AI-20090126577-$ | AI-20090158938-$ | AI-20090205503-$ | AI-20090255410-$ | AI-20090280219-$ | AI-20100024658-$ | AI-20100037779-$ | AI-20100043644-$ | AI-20100043645-$ | AI-20100043646-$ | AI-20100064899-$ | AI-20100077928-$ | AI-20100101428-$ | AI-20100129512-$ | AI-20100154647-$ | AI-20100154651-$ | AI-20100186599-$ | AI-20100203208-$ | AI-20100288131-$ | AI-20100303964-$ | AI-20110030563-$ | BI-6440256-$ | CN-101048095-$ | CN-101309840-$ | CN-101410041-$ | CN-101421172-$ | CN-	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/05/14 21:22

		1125681-$ | CN-1612831-$ | EP-0507905-$ | EP-1775234-$ | EP-2298671-$ | EP-2367736-$ | GB-1256247-$ | JP-01310612-$ | JP-02231043-$ | JP-06015879-$ | JP-2000336570-$ | JP-2000355375-$ | JP-2004534697-$ | JP-2005211659-$ | JP-62188626-$ | JP-63047890-$ | NL-2009050816-$ | WO-02081337-$ | WO-03059778-$ | WO-2004064582-$ | WO-2006030461-$ | WO-2006045537-$ | WO-2007114685-$ | WO-2008078990-$ | WO-2008117329-$ | WO-2008125256-$ | WO-2008132571-$ | WO-2009006379-$).DID.				
S192	10	RU "2312803"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/05/14 21:37
S193	0	99/286,289R,295,302R,307,323.ccls. and (capsule) and (piercing and pentrat$3)	US-PGPUB; USPAT	AND	ON	2021/05/14 22:39
S194	1,205	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) and (coffee)	US-PGPUB; USPAT	AND	ON	2021/05/14 22:40
S195	766	S194 and (piercing or pierce or penetrat$3)	US-PGPUB; USPAT	AND	ON	2021/05/14 22:41
S196	2,465	A47J31/3695.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S197	1,292	A47J31/3676.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S198	915	A47J31/368.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2021/05/14 22:46

			DERWENT; IBM_TDB			
S199	466	A47J31/3685.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S200	1,788	B65D65/466.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S201	119	B65D77/32.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S202	134	B65D77/38.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S203	11,997	B65D85/8043.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S204	1,471	B65D85/8046.cpc. and ((capsule or cartridge) and (beverage or coffee))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 22:46
S205	2,516	S203 and (pierc$3 or penetrat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2021/05/14 22:49

			DERWENT; IBM_TDB			
S206	9	"14904186"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/05/14 23:29
S207	2	"20060236871"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/05/15 00:40
S208	1	"16355174"	US-PGPUB; USPAT	AND	OFF	2021/05/15 01:06
S209	0	WO "2008125526"	US-PGPUB; USPAT	AND	OFF	2021/05/15 01:44
S210	0	WO "2008125526"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/05/15 01:44
S211	50	WO "2008125256"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/15 01:45
S212	91	WO "2008132571"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/15 01:46
S213	77	WO "2008132571"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/05/15 01:47
S214	2	("2017/0275090").URPN.	USPAT	OR	OFF	2021/08/21 01:17

S215	1,701	"99".clas. and (pouch or pack or bag or sachet)	USPAT	OR	OFF	2021/08/21 01:32
S216	501	S215 and (inlet and outlet)	US-PGPUB; USPAT	AND	OFF	2021/08/21 01:33
S217	274	S216 and (film or flexible)	US-PGPUB; USPAT	AND	OFF	2021/08/21 01:36
S218	515	"426".clas. and (pouch or pack or bag or sachet) and (insert)	USPAT	OR	OFF	2021/08/21 01:42
S219	55	(US-20090280219-$ or US-20090017177-$ or US-20070224319-$ or US-20060110507-$ or US-20010052294-$ or US-20120180670-$).did. or (US-8202560-$ or US-7798055-$ or US-5327815-$ or US-5398595-$ or US-5402707-$ or US-5656316-$ or US-7946217-$ or US-7856921-$ or US-7318372-$ or US-7279188-$ or US-6026732-$ or US-5897899-$ or US-5398596-$ or US-5325765-$ or US-5197374-$ or US-4136202-$ or US-5242702-$ or US-6832542-$ or US-9179797-$).did. or (FR-2617389-$ or WO-2005090196-$).did. or (WO-9311841-$ or WO-2005090196-$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/10/06 15:49
S220	27	"8720320"	USPAT	OR	OFF	2021/10/06 19:39
S221	5	"9795243"	USPAT	OR	OFF	2021/10/06 19:46
S222	2	"10865039"	USPAT	OR	OFF	2021/10/06 19:52
S223	1	"20030222089"	US-PGPUB; USPAT	AND	OFF	2021/10/07 00:26
S224	1	"20060137532"	US-PGPUB; USPAT	AND	OFF	2021/10/07 00:27
S267	1,829,945	EP "1500357"	USPAT	OR	OFF	2021/10/07 12:26
S268	77	EP "1500357"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/10/07 12:32
S269	88	"7946217"	US-PGPUB; USPAT; USOCR;	AND	OFF	2021/10/07 12:43

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S270	95	("20020023543" | "20040112223" | "20050034604" | "2778739" | "3607297" | "5388502" | "5398595" | "5472719" | "5598764" | "5762987" | "5794519" | "6182554" | "6752070" | "7024985").PN. OR ("7946217").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 12:43
S271	9	"9795243"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 13:12
S272	206	("20010043954" | "20020005367" | "20020023543" | "20020035929" | "20020048621" | "20020059870" | "20020078831" | "20020148356" | "20030006185" | "20030041739" | "20030167928" | "20030200872" | "20030213370" | "20030222089" | "20030226449" | "20040020368" | "20040020922" | "20040118290" | "20040182247" | "20040244600" | "20050051478" | "20050160918" | "20050172819" | "20050236323" | "20050257695" | "20050266122" | "20050284303" | "20060019000" | "20060107841" | "20060159815" | "20060174769" | "20060196364" | "20060254428" | "20070175334" | "20070277677" | "20090229471" | "20100083843" | "20100288131" | "20100303964" | "20110209623" | "20110274802" | "20120207895" | "20120207896" | "20120276264" | "20120285330" | "20120285334" | "20130017303" | "20130025466" | "20130156897" | "20140245895" | "20140287105" | "2433815" | "3022411" | "3115822" | "3120170" | "3136241" | "3199682" | "3224360" | "3316388" | "3336857" | "3384004" | "3403617" | "3405630" | "3583308" | "3592126" | "3607297" | "3695168" | "3757670" | "3844206" | "3948157" | "3958502" | "4052318" | "4086848" | "4143590" | "4164644" | "4221670" | "4253385" | "4286515" | "4510853" | "4550024" | "4603621" | "4703687" | "4704954" | "4706555" | "4721835" |	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 13:15

		"4739697" | "4832845" | "4833979" | "4858523" | "4865737" | "4967648" | "4986172" | "4998463" | "5000082" | "5012059" | "5028328" | "5046409" | "5072660" | "5123335" | "5190653" | "5233914" | "5242702" | "5265517" | "5287797" | "5325765" | "5335589" | "5343799" | "5347916").PN. OR ("5363745" | "5398596" | "5401328" | "5403605" | "5406882" | "5463932" | "5490448" | "5526733" | "5531152" | "5562941" | "5582730" | "5582731" | "5635233" | "5636563" | "5669287" | "5676041" | "5775206" | "5829340" | "5840189" | "5865094" | "5870943" | "5887510" | "5897899" | "5924563" | "5932260" | "6065609" | "6136352" | "6189438" | "6227102" | "6231909" | "6250209" | "6253662" | "6263781" | "6440256" | "6589577" | "6606938" | "6607762" | "6645537" | "6655260" | "6658989" | "6662955" | "6708600" | "6727484" | "6740345" | "6758130" | "6786136" | "6832542" | "6843165" | "6904840" | "6948420" | "6968775" | "7047870" | "7081263" | "7131369" | "7320274" | "7730829" | "7946217" | "8047127" | "8087347" | "D431423" | "D454433" | "D454434" | "D474110" | "D474111" | "D502362" | "RE37173").PN. OR ("9232871").URPN.				
S273	21	"11777831"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 13:45
S274	21	"11777831"	US-PGPUB; USPAT	OR	OFF	2021/10/07 14:33
S275	11	"11777831"	US-PGPUB	OR	OFF	2021/10/07 14:35
S276	224	("20020023543" | "6688490" | "6832542" | "7318374" | "20020144604" | "20040182247" | "2407118" | "4152464" | "4164644" | "4510853" | "4858523" | "5072660" | "5401328" | "5932260" | "6231909" | "6662955" | "20100047419" | "20120118880" | "20140124435" | "20020148356" | "3607297" | "5242702" | "5840189" | "6948420" | "20020005367" | "20020035929" | "20020059870" | "20040118290" |	US-PGPUB; USPAT	OR	OFF	2021/10/07 14:51

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"6253662" | "6727484" | "6758130" |
"6777007" | "7081263" | "7461587" |
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S278	1	"09782622"	US-PGPUB; USPAT	OR	OFF	2021/10/07 15:18
S279	77	EP "1500357"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/10/07 15:24
S280	5	(US-0336531-$ | US-0450130-$ | US-0450131-$ | US-16900462-$ | US-1844292-$ | US-6900462-$).DID.	US-PGPUB; USPAT	OR	OFF	2021/10/07 15:40
S281	2,225	"99".clas. and (capsule or cartridge)	US-PGPUB; USPAT	OR	OFF	2021/10/07 15:40
S282	2,225	"99".clas. and (capsule or cartridge)	US-PGPUB; USPAT	AND	OFF	2021/10/07 15:41
S283	12	"7685931"	US-PGPUB; USPAT	AND	OFF	2021/10/07 16:34

S284	3	"10865039"	US-PGPUB; USPAT	AND	OFF	2021/10/07 16:40
S285	9	"9795243"	US-PGPUB; USPAT	AND	OFF	2021/10/07 16:43
S286	72	("3292527" | "3374927" | "3385475" | "3470812" | "3584767" | "3628444" | "3752362" | "3754463" | "3926339" | "4259573" | "5472719" | "5709539" | "5723861" | "5773067" | "5801820" | "5897899" | "6606938" | "6810788" | "6955116").PN. OR ("7063238").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 17:00
S287	1	"16900462"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 18:44
S288	9	"9795243"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/10/07 19:32
S289	41	"8720320"	US-PGPUB; USPAT	AND	OFF	2021/10/28 14:53
S290	21	"11777831"	US-PGPUB; USPAT	AND	OFF	2021/10/28 15:11
S291	6	"15790398"	US-PGPUB; USPAT	AND	OFF	2021/10/28 15:13
S292	9	"9795243"	US-PGPUB; USPAT	AND	OFF	2021/10/28 15:13
S293	1	"16355174"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/01 18:20
S294	7	"99".clas. and (capsule) and (internal near (movable or piercing or cutting or protruding))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/01 20:13
S295	0	"99".clas. and (capsule or cartridge) same (piericng)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/01 20:15

S296	12	EP "2298671"	US-PGPUB; USPAT	AND	OFF	2021/11/01 20:17
S297	32	EP "2298671"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/01 20:17
S298	5	"20150157164"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/10 08:19
S299	7	"20140072675"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/10 08:20
S300	8	"20160157660"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/10 08:20
S301	49	"8291812"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/10 08:21
S302	30	"12620584"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/10 08:28
S303	30	"12620584"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	OFF	2021/11/10 08:28

			DERWENT; IBM_TDB			
S304	573	"5325765"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/10 08:30
S305	21	"11777831"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/10 08:32
S306	34	"12610181"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/10 08:36
S307	10	("20130017303" | "5325765" | "7836819" | "7946217" | "8561524" | "9402501" | "D255313" | "D407602" | "D688095" | "D694579").PN. OR ("9756974").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/10 08:41
S308	80	("0481547" | "0747290" | "0846473" | "0865776" | "1134661" | "20010032822" | "20020148358" | "20030000887" | "20030209151" | "20030226449" | "20040094039" | "20050236323" | "20070186784" | "20070221069" | "20070259074" | "20080196593" | "20090241344" | "20100154651" | "20100176037" | "20100178392" | "20100212509" | "20100224078" | "20100263548" | "20120285330" | "20120285334" | "2464722" | "2570997" | "3592126" | "4080299" | "4374026" | "4882055" | "5266194" | "5853581" | "5902620" | "5910205" | "5988190" | "6026733" | "6079315" | "6192786" | "6202541" | "6244162" | "6260476" | "6453800" | "6880454" | "6912949" | "6960295" | "7150219" | "7219600" | "7231870" | "7464637" | "7836820" | "7870821" | "7891286" | "8033212" |	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/10 08:42

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S309	80	("0481547" | "0747290" | "0846473" | "0865776" | "1134661" | "20010032822" | "20020148358" | "20030000887" | "20030209151" | "20030226449" | "20040094039" | "20050236323" | "20070186784" | "20070221069" | "20070259074" | "20080196593" | "20090241344" | "20100154651" | "20100176037" | "20100178392" | "20100212509" | "20100224078" | "20100263548" | "20120285330" | "20120285334" | "2464722" | "2570997" | "3592126" | "4080299" | "4374026" | "4882055" | "5266194" | "5853581" | "5902620" | "5910205" | "5988190" | "6026733" | "6079315" | "6192786" | "6202541" | "6244162" | "6260476" | "6453800" | "6880454" | "6912949" | "6960295" | "7150219" | "7219600" | "7231870" | "7464637" | "7836820" | "7870821" | "7891286" | "8033212" | "D560097").PN. OR ("8561524").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/10 08:56
S310	29	("5910205" | "7815953" | "8147887" | "D255313" | "D340382" | "D349211" | "D407602" | "D567021" | "D606363" | "D652266" | "D677120").PN. OR ("D688095").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/10 09:13
S311	11	"11777831"	US-PGPUB	AND	OFF	2021/11/10 09:17
S312	0	1139+2893	US-PGPUB	AND	OFF	2021/11/10 09:18
S313	3	"11392893"	US-PGPUB	AND	OFF	2021/11/10 09:18
S314	305	A47J31/20.cpc.	US-PGPUB	AND	OFF	2021/11/10 14:21
S315	703	A47J31/20.cpc.	US-PGPUB; USPAT	AND	OFF	2021/11/10 14:21
S316	329	A47J31/4403.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	US-PGPUB; USPAT	AND	OFF	2021/11/10 15:57
S317	216	B65B29/022.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	US-PGPUB; USPAT	AND	OFF	2021/11/10 16:31

S318	81	A47J31/404.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	US-PGPUB; USPAT	AND	OFF	2021/11/10 16:41
S319	1,357	A47J31/407.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	US-PGPUB; USPAT	AND	OFF	2021/11/10 16:54
S320	0	S319 and (needel)	US-PGPUB; USPAT	AND	OFF	2021/11/10 16:55
S321	444	S319 and (needle)	US-PGPUB; USPAT	AND	OFF	2021/11/10 16:55
S322	291	99/295.ccls. and (cartridge or capsule) and (bevereage or coffee or brew$3) and (needle)	US-PGPUB; USPAT	AND	OFF	2021/11/10 17:09
S323	2	"20070186784"	US-PGPUB; USPAT	AND	OFF	2021/11/11 10:55
S324	1	"20060107841"	US-PGPUB; USPAT	AND	OFF	2021/11/11 11:11
S325	572	(US-20110030563-$ or US-20100288131-$ or US-20100203208-$ or US-20100186599-$ or US-20100154651-$ or US-20100154647-$ or US-20100129512-$ or US-20100101428-$ or US-20100077928-$ or US-20100064899-$ or US-20100043646-$ or US-20100043645-$ or US-20100043644-$ or US-20100037779-$ or US-20090280219-$ or US-20090255410-$ or US-20090205503-$ or US-20090158938-$ or US-20090126577-$ or US-20090017177-$ or US-20090007796-$ or US-20090007794-$ or US-20080317931-$ or US-20080245236-$ or US-20080216666-$ or US-20080105131-$).did. or (US-20070186784-$ or US-20070084352-$ or US-20070068395-$ or US-20100303964-$ or US-20070224319-$ or US-20060110507-$ or US-20060019000-$ or US-20120258210-$ or US-20140287105-$ or US-20140020565-$ or US-20100147156-$ or US-20140026761-$ or US-20150108011-$ or US-20070144355-$ or US-20150196159-$ or US-20140072676-$ or US-20050051478-$ or US-20190233200-$ or US-20190225414-$ or US-20190225413-$ or US-20190202629-$ or US-20190177079-$ or US-20190177078-$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/11/11 11:14

		or US-20190167031-$ or US-20140287099-$ or US-20190100376-$ or US-20190084758-$).did. or (US-20190077588-$ or US-20160009486-$ or US-20150314955-$ or US-20190047771-$ or US-20190055084-$ or US-20190055083-$ or US-20190047782-$ or US-20190016527-$ or US-20130340626-$ or US-20130017303-$ or US-20190002192-$ or US-20180370720-$ or US-20180346239-$ or US-20180332995-$ or US-20180325309-$ or US-20180325301-$ or US-20180319582-$ or US-20180305194-$ or US-20150017293-$ or US-20180303275-$ or US-20180297776-$ or US-20180297775-$ or US-20180297309-$ or US-20180290825-$ or US-20180290824-$ or US-20180273286-$ or US-20180257856-$).did. or (US-20180237217-$ or US-20180220840-$ or US-20170143158-$ or US-20180215533-$ or US-20180206667-$ or US-20180201436-$ or US-20150246741-$ or US-20180178973-$ or US-20180178972-$ or US-20180162634-$ or US-20180148250-$ or US-20160137402-$ or US-20180134485-$ or US-20160198732-$ or US-20150158666-$ or US-20180125288-$ or US-20180116446-$ or US-20150360854-$ or US-20180084941-$ or US-20140272018-$ or US-20180044104-$ or US-20180037402-$ or US-20180029790-$ or US-20180016092-$ or US-20180002104-$ or US-20170362020-$ or US-20150246768-$).did. or (US-20170355515-$ or US-20170334624-$ or US-20170334623-$ or US-20170327308-$ or US-20170326617-$ or US-20170320658-$ or US-20170313496-$ or US-20150245733-$ or US-20170305653-$ or US-20140127364-$ or US-20170280750-$ or US-20170275090-$ or US-20170275089-$ or US-20170275088-$ or US-20170275087-$ or US-20140141128-$ or US-20170258264-$ or US-20170174418-$ or US-20100203198-$ or US-20110189350-$ or US-20150150409-$ or US-				

		20170120203-$ or US-20150344285-$ or US-20170081111-$ or US-20170071395-$ or US-20110303095-$ or US-20170050799-$).did. or (US-20150257580-$ or US-20170042365-$ or US-20170036857-$ or US-20170036854-$ or US-20130236609-$ or US-20160288990-$ or US-20160345769-$ or US-20130059039-$ or US-20130078341-$ or US-20160332805-$ or US-20160325898-$ or US-20160280430-$ or US-20160214787-$ or US-20160206133-$ or US-20160194147-$ or US-20160176624-$ or US-20150201791-$ or US-20160157660-$ or US-20160068334-$ or US-20160145037-$ or US-20160137401-$ or US-20160130076-$ or US-20160120356-$ or US-20160114967-$ or US-20160113435-$ or US-20160107831-$ or US-20160066591-$).did. or (US-20160052706-$ or US-20160016727-$ or US-20160001968-$ or US-20160001903-$ or US-20150368033-$ or US-20150353275-$ or US-20150353272-$ or US-20150336736-$ or US-20150320254-$ or US-20150314954-$ or US-20150307266-$ or US-20150282663-$ or US-20150272379-$ or US-20150251847-$ or US-20150208852-$ or US-20150203285-$ or US-20110283890-$ or US-20150157164-$ or US-20150151903-$ or US-20150140182-$ or US-20150125576-$ or US-20140272016-$ or US-20120070543-$ or US-20150086680-$ or US-20120070551-$ or US-20150072053-$ or US-20150072052-$).did. or (US-20150064324-$ or US-20150056351-$ or US-20150047509-$ or US-20150050391-$ or US-20140170271-$ or US-20150021209-$ or US-20150017290-$ or US-20140377413-$ or US-20140373725-$ or US-20120321756-$ or US-20140356484-$ or US-20140342060-$ or US-20140342059-$ or US-20140318380-$ or US-20140318379-$ or US-20140314919-$ or US-20140290494-$ or US-20120251671-$ or US-20140220189-$ or US-20140220190-$				

		or US-20140205721-$ or US-20140196608-$ or US-20140190863-$ or US-20140178538-$ or US-20140170269-$ or US-20140161940-$ or US-20140161936-$).did. or (US-20090223375-$ or US-20140123859-$ or US-20140120217-$ or US-20140106036-$ or US-20100159109-$ or US-20140090564-$ or US-20140087028-$ or US-20140072677-$ or US-20140072675-$ or US-20140069280-$ or US-20140065269-$ or US-20120121779-$ or US-20140053735-$ or US-20140037802-$ or US-20140017359-$ or US-20140004231-$ or US-20130302476-$ or US-20100303965-$ or US-20130270176-$ or US-20130259983-$ or US-20130247774-$ or US-20130243910-$ or US-20130216663-$ or US-20100132564-$ or US-20100239734-$ or US-20130180409-$ or US-20130164414-$).did. or (US-20130146495-$ or US-20130139700-$ or US-20130139699-$ or US-20130125762-$ or US-20120058226-$ or US-20130122157-$ or US-20130115340-$ or US-20130105340-$ or US-20130095212-$ or US-20130064936-$ or US-20130045307-$ or US-20130040021-$ or US-20130025466-$ or US-20120328739-$ or US-20120308688-$ or US-20120276264-$ or US-20120269933-$ or US-20120251668-$ or US-20120240779-$ or US-20120207896-$ or US-20120207895-$ or US-20120201933-$ or US-20120201932-$ or US-20120196008-$ or US-20100003371-$ or US-20080187638-$ or US-20120171333-$).did. or (US-20120121780-$ or US-20120118166-$ or US-20120097602-$ or US-20120052164-$ or US-20120052163-$ or US-20120015081-$ or US-20120015080-$ or US-20110305801-$ or US-20110297005-$ or US-20110283891-$ or US-20110274794-$ or US-20110142996-$ or US-20110097450-$ or US-20110076361-$ or US-20110073607-$ or US-20110064852-$ or US-20110045144-$ or US-20110041702-$ or US-				

		20110020497-$ or US-20100307930-$ or US-20100297299-$ or US-20100206177-$ or US-20100180774-$ or US-20100178392-$ or US-20060196364-$ or US-20100154644-$ or US-20100108541-$).did. or (US-20050150390-$ or US-20100062127-$ or US-20100047418-$ or US-20100005973-$ or US-20090320693-$ or US-20090320692-$ or US-20090263545-$ or US-20090235827-$ or US-20090211458-$ or US-20090110775-$ or US-20080257165-$ or US-20050115415-$ or US-20070181003-$ or US-20070148290-$ or US-20070062375-$ or US-20060236871-$ or US-20060174769-$ or US-20060065127-$ or US-20030172813-$ or US-20020078831-$ or US-20190208950-$ or US-20110168029-$ or US-20120285330-$ or US-20060107841-$ or US-20020023543-$ or US-20120118880-$ or US-20110274802-$).did. or (US-20110197771-$ or US-20110185910-$ or US-20110100229-$ or US-20090223373-$ or US-20040250686-$ or US-20020152895-$ or US-20020144604-$ or US-20020144603-$ or US-20020144602-$ or US-20150230652-$ or US-20150027318-$ or US-20210261280-$ or US-20210253334-$ or US-20200253413-$ or US-20200231370-$ or US-20200189772-$ or US-20170043943-$ or US-20200017288-$ or US-20190047783-$ or US-20180362198-$ or US-20180242776-$ or US-20170361961-$ or US-20170360239-$ or US-20170360057-$ or US-20160311610-$ or US-20160311609-$ or US-20160280453-$).did. or (US-20120090475-$ or US-20160145038-$ or US-20150158609-$ or US-20110117248-$ or US-20210331864-$ or US-20200121115-$ or US-20200047984-$ or US-20190328170-$ or US-20190313835-$ or US-20130129870-$ or US-20150201790-$ or US-20170355514-$ or US-20170319001-$ or US-20170295988-$ or US-20160157666-$ or US-20120100259-$ or US-20150238044-$			

		or US-20110259204-$ or US-20150068405-$ or US-20150056352-$ or US-20150001100-$ or US-20140318381-$ or US-20140305315-$ or US-20140186498-$ or US-20130186282-$ or US-20140318378-$ or US-20140287104-$).did. or (US-20130133522-$ or US-20130118360-$ or US-20050223904-$).did. or (US-8304006-$ or US-8220382-$ or US-8202560-$ or US-8161868-$ or US-8161866-$ or US-8147887-$ or US-7993691-$ or US-7946217-$ or US-7930972-$ or US-7856921-$ or US-7854192-$ or US-7836819-$ or US-7815953-$ or US-7703381-$ or US-7624673-$ or US-7604826-$ or US-7279188-$ or US-5897899-$ or US-5826492-$ or US-5762987-$ or US-5649472-$ or US-5402707-$ or US-5398595-$ or US-5327815-$ or US-4846052-$ or US-5325765-$).did. or (US-6079315-$ or US-6182554-$ or US-6644173-$ or US-7490542-$ or US-4136202-$ or US-7552672-$ or US-8640604-$ or US-8322271-$ or US-7856920-$ or US-6606938-$ or US-8846120-$ or US-6672200-$ or US-6666130-$ or US-6142063-$ or US-6082247-$ or US-3615708-$ or US-2968560-$ or US-9486108-$ or US-11001437-$ or US-11001436-$ or US-11001433-$ or US-10144579-$ or US-9764891-$ or US-5472719-$ or US-5242702-$ or US-9232871-$ or US-9463921-$).did. or (US-6832542-$ or US-8720320-$ or US-8794125-$ or US-7063238-$ or US-8561524-$ or US-7836820-$ or US-5656311-$ or US-9402501-$ or US-11166587-$ or US-8927037-$ or US-7681492-$).did. or (US-2968560-$).did. or (WO-02081337-$ or WO-2010076698-$ or JP-4836776-$ or CA-2765371-$ or CA-2819140-$ or EP-2520202-$ or CA-2811153-$ or EP-2647317-$ or CA-2521063-$ or FR-2993869-$ or WO-2008113779-$ or EP-1864917-$ or WO-2012011053-$ or WO-2008125256-$ or WO-2014041419-$ or WO-2014033339-$ or EP-1992575-$ or EP-1500357-$ or WO-2009050540-$ or EP-2374733-$ or				

		EP-2345602-$ or EP-1364605-$ or WO-2015136433-$ or EP-2612579-$ or WO-2012076135-$ or EP-2409608-$).did. or (WO-2013079814-$ or KR-200450676-$ or CA-2526785-$ or EP-1775234-$ or WO-2006045537-$ or WO-2007114685-$ or WO-2008132571-$ or WO-2008117329-$ or WO-03059778-$ or WO-2004064582-$ or CH-711427-$ or EP-3181484-$ or WO-2015117892-$ or GB-2520492-$ or EP-2966006-$ or GB-2530062-$ or CA-2701826-$ or EP-2868598-$ or EP-2298671-$).did. or (EP-1775234-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2007114685-$ or WO-2006045537-$ or EP-1500357-$).did. or (JP-2000355375-$ or JP-2012005818-$ or JP-2005211659-$ or JP-01310612-$).did. or (EP-1775234-$ or WO-2006030461-$ or JP-2000355375-$ or US-20050084569-$ or GB-2531687-$ or GB-2530680-$ or GB-2530062-$ or WO-2015177591-$ or WO-2015128799-$ or ES-2538740-$ or EP-2886490-$ or WO-2014191044-$ or WO-2014188285-$ or DE-102012223291-$ or WO-2014061045-$ or FR-2993869-$ or EP-2647317-$ or ES-2398277-$ or WO-2012150542-$ or WO-2012123106-$ or WO-2012110323-$ or WO-2012100836-$ or WO-2012100976-$ or WO-2013135937-$ or WO-2012072509-$ or WO-2012042487-$).did. or (WO-2012034819-$ or FR-2962893-$ or WO-2011159162-$ or WO-2011159163-$ or WO-2013060918-$ or EP-2374733-$ or WO-2010137953-$ or WO-2010118543-$ or WO-2009103592-$ or WO-2009084059-$ or WO-2009050540-$ or WO-2008148834-$ or EP-1992575-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2008113779-$ or WO-02081337-$ or WO-2015136433-$ or US-20150374165-$ or WO-2010137947-$ or EP-1500357-$ or US-20140072675-$).did.				

S326	339	S325 and (filter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/11 11:15
S327	4	"16900462"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/11 11:59
S328	386	("0240402" | "0346278" | "0370141" | "0845968" | "1168544" | "1302483" | "2997940" | "3199682" | "3260190" | "3403617" | "3579351" | "3615708" | "3754463" | "3971305" | "4204966" | "4321139" | "4417504" | "4584101" | "4859337" | "4981588").PN. OR ("5325765").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/11 12:08
S329	1,309	"99".clas. and (capsule or cartridge) and (filter)	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/11 12:31
S330	1,309	"99".clas. and (capsule or cartridge) and (filter)	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 12:32
S331	138	"7513192"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 13:02
S332	283	"6645537"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 13:02
S333	28	"12610181"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 13:07
S334	512	"5325765"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 13:08
S335	2	"20070186784"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 13:50
S337	1	"20060107841"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 15:24

S338	2	"20050223904"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 16:12
S339	2	"20070186784"	US-PGPUB; USPAT; USOCR	AND	OFF	2021/11/11 16:48
S340	2	"20070186784"	US-PGPUB; USPAT	AND	OFF	2021/11/11 19:10
S341	6	WO "2008125256"	US-PGPUB; USPAT	AND	OFF	2021/11/11 19:19
S342	51	WO "2008125256"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2021/11/11 19:19
S343	136	((("Rivera") near3 ("Adrian"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/11 19:29
S345	1	"16900462"	US-PGPUB; USPAT	AND	OFF	2021/12/22 10:45
S349	4	"16900462"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2021/12/22 12:23
S358	16	EP "1364605"	US-PGPUB; USPAT	AND	ON	2022/02/17 14:06
S359	65	EP "1364605"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/02/17 14:06
S360	69	"7412921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/02/17 14:08
S361	5	"20100303964"	US-PGPUB; USPAT; USOCR;	AND	ON	2022/02/17 14:11

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S362	53	"7490542"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/02/17 14:12
S363	6	"13744623"	USPAT	ADJ	ON	2022/03/22 10:02
S364	19	"13744623"	US-PGPUB; USPAT	ADJ	ON	2022/03/22 10:02
S365	0	((("KrÃ¼ger") near3 ("Marc"))).INV.	US-PGPUB	OR	ON	2022/03/22 10:04
S366	0	((("KrÃ¼ger") near3 ("Marc"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/03/22 10:05
S367	2	"14411571"	US-PGPUB; USPAT	AND	ON	2022/03/22 10:07
S368	24	((("K-FEE") near3 ("SYSTEM") near3 ("GMBH"))).AS,AANM.	USPAT	OR	ON	2022/03/22 10:10
S369	0	"17547363"	US-PGPUB; USPAT	AND	ON	2022/03/22 10:12
S370	10	"10994923"	US-PGPUB; USPAT	AND	ON	2022/03/22 10:12
S371	419	("0923706" | "1036589" | "1051426" | "1329461" | "1485200" | "1689665" | "20010038204" | "20010047724" | "20010048957" | "20020020659" | "20020048621" | "20020085164" | "20020088807" | "20020104373" | "20020110626" | "20020148356" | "20030005826" | "20030033938" | "20030039731" | "20030121979" | "20030172813" | "20030222089" | "20040005384" | "20040045443" | "20040089158" | "20040089602" | "20040115310" | "20040118295" | "20040142070" | "20040155113" | "20040182250" | "20040188459" | "20050000164" | "20050016383" | "20050045566" | "20050051478" | "20050061478" | "20050150391" | "20050160919" | "20050183581" | "20050235571" | "20050266122" |	US-PGPUB; USPAT; USOCR	OR	ON	2022/03/22 10:44

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"20070283640" | "20080024523" |
"20080026121" | "20080028946" |
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"20150175347" | "20150201790" |
"20150239652" | "20150246741" |
"20150274411" | "20150297021" |
"20150297023" | "20150314954" |
"20150329282" | "20150353275" |
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"20160058234" | "20160066591" |
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"20160332759" | "20160340110" |
"20170020329" | "20170027374" |
"20190359418" | "2732919" |
"2778739" | "2847726" | "3039153" |
"3183096" | "3261129" | "3327428" |
"3363588" | "3416183" | "3473266" |
"3480989" | "3501896" | "3611637" |
"3631793" | "3640727" | "4081880" |
"4136202" | "4325204" | "4389925" |

		"4404770" | "4424605" | "4452014" | "4488387" | "4513535" | "4534985" | "4540595" | "4633614" | "4644151" | "4651469" | "4676482" | "4680828" | "4742645" | "4859337" | "4860645" | "4867993" | "4881346" | "4936049" | "4976179" | "5012629" | "5028769" | "5079872" | "5108768" | "5194553" | "5242702" | "5243164" | "5251758" | "5285041" | "5301468" | "5325765" | "5351442" | "5392986" | "5402707" | "5450693" | "5460078" | "5461829" | "5496573" | "5501945").PN. OR ("5535765" | "5566505" | "5601716" | "5637850" | "5656311" | "5656318" | "5677522" | "5725261" | "5742979" | "5840189" | "5888549" | "5895672" | "5897899" | "5917165" | "5941055" | "5948455" | "5980743" | "5994677" | "6082499" | "6153026" | "6199780" | "6202929" | "6213326" | "6250016" | "6289643" | "6299926" | "6440256" | "6451332" | "6589577" | "6598800" | "6607762" | "6627244" | "6645537" | "6655260" | "6817538" | "6861086" | "6871448" | "6948420" | "6994879" | "7408094" | "7444925" | "7464518" | "7543527" | "7552672" | "7595870" | "7673558" | "7685930" | "7712258" | "7743557" | "7779578" | "7815953" | "7935646" | "7946217" | "7981451" | "8039029" | "8039034" | "8088423" | "8101928" | "8109200" | "8114461" | "8163318" | "8168908" | "8257766" | "8276639" | "8361527" | "8443549" | "8474368" | "8491948" | "8491976" | "8505440" | "8512886" | "8579006" | "8734881" | "8747775" | "8794125" | "8906436" | "8916220" | "8956672" | "9049958" | "9072402" | "9079705" | "9145730" | "9150347" | "9204751" | "9216854" | "9227837" | "9271602" | "9290317" | "9295278" | "9357791" | "9359126" | "9359128" | "9392902" | "9394101" | "9409703" | "9409704" | "9415931" | "9428328" | "9428329" | "9434525" | "9486108" | "9538876" | "9808112" | "9969564").PN. OR ("10994923").URPN.				
S372	2	"11230430"	US-PGPUB; USPAT	AND	ON	2022/03/22 10:51

S373	8	("20020048621" | "20100078480" | "20130129876" | "7444925" | "7856920" | "8087347" | "8695484" | "9320385").PN.	US-PGPUB; USPAT	AND	ON	2022/03/22 10:57
S375	1	"16316200"	US-PGPUB; USPAT	AND	ON	2022/03/22 11:26
S376	5	"10858176"	US-PGPUB; USPAT	AND	ON	2022/03/22 13:52
S377	12	"10858177"	US-PGPUB; USPAT	AND	ON	2022/03/22 14:25
S378	7	"17108175"	US-PGPUB; USPAT	AND	ON	2022/03/22 14:30
S379	1	"20170295988"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:21
S380	1	"20140242239"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:21
S381	2	"20180125288"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:21
S382	0	"17547363"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:28
S383	0	"17670765"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:28
S384	6	"17324182"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:29
S385	2	"11254491"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:29
S386	4	"10870531"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:33
S387	1	"16119166"	US-PGPUB; USPAT	AND	ON	2022/03/22 15:35
S388	623	"99".clas. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/03/22 15:39
S389	1	"20080105131"	US-PGPUB; USPAT	AND	ON	2022/03/22 17:08
S390	2	"20130064937"	US-PGPUB; USPAT	AND	ON	2022/03/23 00:11
S391	0	"17547363"	US-PGPUB; USPAT	AND	ON	2022/03/23 13:50
S392	1	"13877892"	US-PGPUB; USPAT	AND	ON	2022/03/23 17:36
S393	19	"13744623"	US-PGPUB; USPAT	AND	ON	2022/03/23 18:27
S394	19	"15211823"	US-PGPUB; USPAT	AND	ON	2022/03/23 19:34

S395	16	"15646980"	US-PGPUB; USPAT	AND	ON	2022/03/23 19:35
S396	19	"15211823"	US-PGPUB; USPAT	AND	ON	2022/03/23 19:57
S397	19	"13744623"	US-PGPUB; USPAT	AND	ON	2022/03/23 19:58
S398	16	"15646980"	US-PGPUB; USPAT	AND	ON	2022/03/23 19:58
S399	0	"17547363"	US-PGPUB; USPAT	AND	ON	2022/03/23 20:07
S400	38	(US-2778739-$ | US-3183096-$ | US-3501896-$ | US-3521207-$ | US-3631793-$ | US-3640727-$ | US-4136202-$ | US-4389925-$ | US-4534985-$ | US-4540595-$ | US-4644151-$ | US-4676482-$ | US-4742645-$ | US-4846052-$ | US-4859337-$ | US-4860645-$ | US-4867993-$ | US-4976179-$ | US-5012629-$ | US-5028769-$ | US-5108768-$ | US-5194553-$ | US-5242702-$ | US-5243164-$ | US-5251758-$ | US-5285041-$ | US-5325765-$ | US-5402707-$ | US-5460078-$ | US-5496573-$ | US-5501945-$ | US-5535765-$ | US-5601716-$ | US-5637850-$ | US-5656311-$ | US-5656316-$ | US-5656318-$ | US-5677522-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 21:59
S401	38	(US-2778739-$ | US-3183096-$ | US-3501896-$ | US-3521207-$ | US-3631793-$ | US-3640727-$ | US-4136202-$ | US-4389925-$ | US-4534985-$ | US-4540595-$ | US-4644151-$ | US-4676482-$ | US-4742645-$ | US-4846052-$ | US-4859337-$ | US-4860645-$ | US-4867993-$ | US-4976179-$ | US-5012629-$ | US-5028769-$ | US-5108768-$ | US-5194553-$ | US-5242702-$ | US-5243164-$ | US-5251758-$ | US-5285041-$ | US-5325765-$ | US-5402707-$ | US-5460078-$ | US-5496573-$ | US-5501945-$ | US-5535765-$ | US-5601716-$ | US-5637850-$ | US-5656311-$ | US-5656316-$ | US-5656318-$ | US-5677522-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 22:01
S402	40	(US-5725261-$ | US-5840189-$ | US-5888549-$ | US-5895672-$ | US-	US-PGPUB; USPAT	AND	ON	2022/03/23 22:02

		5897899-$ | US-5917165-$ | US-5941055-$ | US-5948455-$ | US-5980743-$ | US-5994677-$ | US-6025000-$ | US-6153026-$ | US-6199780-$ | US-6202929-$ | US-6213326-$ | US-6299926-$ | US-6440256-$ | US-6451332-$ | US-6527181-$ | US-6589577-$ | US-6598800-$ | US-6607762-$ | US-6627244-$ | US-6645537-$ | US-6655260-$ | US-6817538-$ | US-6861086-$ | US-6948420-$ | US-6994879-$ | US-7408094-$ | US-7444925-$ | US-7464518-$ | US-7543527-$ | US-7552672-$ | US-7595870-$ | US-7673558-$ | US-7685930-$ | US-7815953-$ | US-7856920-$ | US-7935646-$).DID.				
S403	56	(US-0005384-$ | US-0005826-$ | US-0020659-$ | US-0033938-$ | US-0038204-$ | US-0039731-$ | US-0045443-$ | US-0047724-$ | US-0048621-$ | US-0048957-$ | US-0085164-$ | US-0088807-$ | US-0089158-$ | US-0089602-$ | US-0110626-$ | US-0121979-$ | US-0148356-$ | US-0172813-$ | US-0181005-$ | US-0222089-$ | US-20010038204-$ | US-20010047724-$ | US-20010048957-$ | US-20010181005-$ | US-20020020659-$ | US-20020048621-$ | US-20020085164-$ | US-20020088807-$ | US-20020110626-$ | US-20020148356-$ | US-20030005826-$ | US-20030033938-$ | US-20030039731-$ | US-20030121979-$ | US-20030172813-$ | US-20030222089-$ | US-20040005384-$ | US-20040045443-$ | US-20040089158-$ | US-20040089602-$ | US-9357791-$ | US-9359126-$ | US-9359128-$ | US-9392902-$ | US-9394101-$ | US-9409703-$ | US-9409704-$ | US-9415931-$ | US-9428328-$ | US-9428329-$ | US-9434525-$ | US-9486108-$ | US-9676538-$ | US-9708086-$ | US-9770129-$ | US-9808112-$ | US-9969564-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 22:04
S404	82	(US-0004343-$ | US-0007793-$ | US-0010744-$ | US-0016383-$ | US-	US-PGPUB; USPAT	AND	ON	2022/03/23 22:15

		0024536-$ | US-0026121-$ | US-0028946-$ | US-0032427-$ | US-0038441-$ | US-0045566-$ | US-0051478-$ | US-0061478-$ | US-0084344-$ | US-0085356-$ | US-0107841-$ | US-0115310-$ | US-0116105-$ | US-0118295-$ | US-0142070-$ | US-0144355-$ | US-0148290-$ | US-0148948-$ | US-0150391-$ | US-0155113-$ | US-0157821-$ | US-0160919-$ | US-0181005-$ | US-0181412-$ | US-0182250-$ | US-0183581-$ | US-0187638-$ | US-0188459-$ | US-0194004-$ | US-0203587-$ | US-0228447-$ | US-0236871-$ | US-0245236-$ | US-0257118-$ | US-0266122-$ | US-0299262-$ | US-0302251-$ | US-20040115310-$ | US-20040118295-$ | US-20040142070-$ | US-20040155113-$ | US-20040182250-$ | US-20040188459-$ | US-20050016383-$ | US-20050045566-$ | US-20050051478-$ | US-20050061478-$ | US-20050150391-$ | US-20050160919-$ | US-20050183581-$ | US-20050266122-$ | US-20060010744-$ | US-20060032427-$ | US-20060084344-$ | US-20060107841-$ | US-20060194004-$ | US-20060228447-$ | US-20060236871-$ | US-20070144355-$ | US-20070148290-$ | US-20070157821-$ | US-20070181005-$ | US-20070181412-$ | US-20070203587-$ | US-20070257118-$ | US-20080024536-$ | US-20080026121-$ | US-20080028946-$ | US-20080038441-$ | US-20080085356-$ | US-20080116105-$ | US-20080148948-$ | US-20080187638-$ | US-20080245236-$ | US-20080299262-$ | US-20080302251-$ | US-20090004343-$ | US-20090007793-$).DID.				
S405	84	(US-0000667-$ | US-0005399-$ | US-0007796-$ | US-0008913-$ | US-0020500-$ | US-0028495-$ | US-0033580-$ | US-0041702-$ | US-0050880-$ | US-0051532-$ | US-0054532-$ | US-	US-PGPUB; USPAT	AND	ON	2022/03/23 22:17

		0072272-$ | US-0078480-$ | US-0092711-$ | US-0108541-$ | US-0126577-$ | US-0132564-$ | US-0136626-$ | US-0147418-$ | US-0147872-$ | US-0172951-$ | US-0181378-$ | US-0196545-$ | US-0211458-$ | US-0211713-$ | US-0223375-$ | US-0239717-$ | US-0239733-$ | US-0239734-$ | US-0249961-$ | US-0260915-$ | US-0263329-$ | US-0264640-$ | US-0288131-$ | US-0288133-$ | US-0289121-$ | US-0291379-$ | US-0303964-$ | US-0308061-$ | US-0324788-$ | US-0324791-$ | US-20090007796-$ | US-20090092711-$ | US-20090126577-$ | US-20090136626-$ | US-20090211458-$ | US-20090211713-$ | US-20090223375-$ | US-20090249961-$ | US-20090289121-$ | US-20090291379-$ | US-20090324788-$ | US-20090324791-$ | US-20100000667-$ | US-20100028495-$ | US-20100050880-$ | US-20100051532-$ | US-20100054532-$ | US-20100072272-$ | US-20100078480-$ | US-20100108541-$ | US-20100132564-$ | US-20100147418-$ | US-20100147872-$ | US-20100172951-$ | US-20100181378-$ | US-20100196545-$ | US-20100239717-$ | US-20100239733-$ | US-20100239734-$ | US-20100260915-$ | US-20100263329-$ | US-20100264640-$ | US-20100288131-$ | US-20100288133-$ | US-20100303964-$ | US-20100308061-$ | US-20110005399-$ | US-20110008913-$ | US-20110020500-$ | US-20110033580-$ | US-20110041702-$ | US-20110064852-$).DID.				
S406	84	(US-0006685-$ | US-0055903-$ | US-0058226-$ | US-0059039-$ | US-0060697-$ | US-0064929-$ | US-0064937-$ | US-0070542-$ | US-0070543-$ | US-0070551-$ | US-0076361-$ | US-0084363-$ | US-0084376-$ | US-0089135-$ | US-0097041-$ | US-0097450-$ | US-0097602-$ | US-0100264-$ | US-	US-PGPUB; USPAT	AND	ON	2022/03/23 22:21

		0101716-$ | US-0121765-$ | US-0122153-$ | US-0123106-$ | US-0125762-$ | US-0126834-$ | US-0142996-$ | US-0183657-$ | US-0189350-$ | US-0189362-$ | US-0195155-$ | US-0201933-$ | US-0207893-$ | US-0207895-$ | US-0212225-$ | US-0250333-$ | US-0250812-$ | US-0251668-$ | US-0251672-$ | US-0258210-$ | US-0295234-$ | US-0303095-$ | US-0308397-$ | US-0308688-$ | US-20110076361-$ | US-20110089135-$ | US-20110097450-$ | US-20110142996-$ | US-20110189350-$ | US-20110189362-$ | US-20110212225-$ | US-20110250333-$ | US-20110250812-$ | US-20110303095-$ | US-20110308397-$ | US-20120006685-$ | US-20120058226-$ | US-20120060697-$ | US-20120070542-$ | US-20120070543-$ | US-20120070551-$ | US-20120097041-$ | US-20120097602-$ | US-20120100264-$ | US-20120121765-$ | US-20120123106-$ | US-20120126834-$ | US-20120183657-$ | US-20120195155-$ | US-20120201933-$ | US-20120207893-$ | US-20120207895-$ | US-20120251668-$ | US-20120251672-$ | US-20120258210-$ | US-20120295234-$ | US-20120308688-$ | US-20130055903-$ | US-20130059039-$ | US-20130064929-$ | US-20130064937-$ | US-20130084363-$ | US-20130084376-$ | US-20130101716-$ | US-20130122153-$ | US-20130125762-$).DID.				
S407	84	(US-0001563-$ | US-0004231-$ | US-0010680-$ | US-0017359-$ | US-0020481-$ | US-0029702-$ | US-0046126-$ | US-0056331-$ | US-0056340-$ | US-0127364-$ | US-0129872-$ | US-0129876-$ | US-0136828-$ | US-0141128-$ | US-0141129-$ | US-0149424-$ | US-0156897-$ | US-0161936-$ | US-0178538-$ | US-0196608-$ | US-0206011-$ | US-0209610-$ | US-0209618-$ | US-0209619-$ | US-	US-PGPUB; USPAT	AND	ON	2022/03/23 22:23

		0209620-$ | US-0209622-$ | US-0216663-$ | US-0220191-$ | US-0224130-$ | US-0230370-$ | US-0230627-$ | US-0243910-$ | US-0263033-$ | US-0272018-$ | US-0287104-$ | US-0287105-$ | US-0302204-$ | US-0312619-$ | US-0327223-$ | US-0346022-$ | US-0348984-$ | US-0370181-$ | US-20130129872-$ | US-20130129876-$ | US-20130136828-$ | US-20130149424-$ | US-20130156897-$ | US-20130206011-$ | US-20130209610-$ | US-20130209618-$ | US-20130209619-$ | US-20130209620-$ | US-20130209622-$ | US-20130216663-$ | US-20130230627-$ | US-20130243910-$ | US-20130312619-$ | US-20130327223-$ | US-20140001563-$ | US-20140004231-$ | US-20140017359-$ | US-20140046126-$ | US-20140127364-$ | US-20140141128-$ | US-20140141129-$ | US-20140161936-$ | US-20140178538-$ | US-20140196608-$ | US-20140220191-$ | US-20140224130-$ | US-20140230370-$ | US-20140263033-$ | US-20140272018-$ | US-20140287104-$ | US-20140287105-$ | US-20140302204-$ | US-20140346022-$ | US-20140348984-$ | US-20140370181-$ | US-20150010680-$ | US-20150020481-$ | US-20150029702-$ | US-20150056331-$ | US-20150056340-$).DID.				
S408	78	(US-0001968-$ | US-0020329-$ | US-0027374-$ | US-0037961-$ | US-0045060-$ | US-0056351-$ | US-0058234-$ | US-0066591-$ | US-0075506-$ | US-0079241-$ | US-0086986-$ | US-0119220-$ | US-0128525-$ | US-0132441-$ | US-0157164-$ | US-0158665-$ | US-0158666-$ | US-0166204-$ | US-0173558-$ | US-0175347-$ | US-0194146-$ | US-0201790-$ | US-0207696-$ | US-0239652-$ | US-0242594-$ | US-0246741-$ | US-0251150-$ | US-0269232-$ | US-0274411-$ | US-0297021-$ | US-	US-PGPUB; USPAT	AND	ON	2022/03/23 22:26

		0297023-$ | US-0314954-$ | US-0325921-$ | US-0329282-$ | US-0332759-$ | US-0340110-$ | US-0353275-$ | US-0359418-$ | US-0375926-$ | US-20150056351-$ | US-20150079241-$ | US-20150119220-$ | US-20150128525-$ | US-20150132441-$ | US-20150157164-$ | US-20150158665-$ | US-20150158666-$ | US-20150166204-$ | US-20150173558-$ | US-20150175347-$ | US-20150201790-$ | US-20150239652-$ | US-20150246741-$ | US-20150274411-$ | US-20150297021-$ | US-20150297023-$ | US-20150314954-$ | US-20150329282-$ | US-20150353275-$ | US-20150375926-$ | US-20160001968-$ | US-20160037961-$ | US-20160045060-$ | US-20160058234-$ | US-20160066591-$ | US-20160075506-$ | US-20160194146-$ | US-20160207696-$ | US-20160242594-$ | US-20160251150-$ | US-20160325921-$ | US-20160332759-$ | US-20160340110-$ | US-20170020329-$ | US-20170027374-$ | US-20190359418-$ | US-20210086986-$ | US-20210269232-$).DID.				
S409	15	(US-0051478-$ | US-0156897-$ | US-2327021-$ | US-2399283-$ | US-2399290-$ | US-2400033-$ | US-2436389-$ | US-2531544-$ | US-2538256-$ | US-2661921-$ | US-2662069-$ | US-2662071-$ | US-2763746-$ | US-2784752-$ | US-2785843-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 22:30
S410	170	"6440256"	US-PGPUB; USPAT	AND	ON	2022/03/23 22:30
S411	162	"6440256"	USPAT	AND	ON	2022/03/23 22:30
S412	165	"6589577"	USPAT	AND	ON	2022/03/23 22:31
S413	338	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2022/03/23 22:32

			DERWENT; IBM_TDB			
S414	338	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:32
S415	432	B65D85/8043.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:33
S416	158	A47J31/3628.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:34
S417	940	A47J31/4492.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:36
S418	228	B65D65/466.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:41
S419	388	B65D2203/06.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:43
S420	374	B65D2203/10.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2022/03/23 22:47

			DERWENT; IBM_TDB			
S421	327	"6607762"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 22:54
S422	272	"6607762"	USPAT	AND	ON	2022/03/23 22:55
S423	260	"6645537"	USPAT	AND	ON	2022/03/23 22:55
S424	31	"6861086"	USPAT	AND	ON	2022/03/23 22:56
S425	84	"7946217"	USPAT	AND	ON	2022/03/23 22:56
S426	2	"20050051478"	US-PGPUB	AND	ON	2022/03/23 22:56
S427	13	"8512886"	USPAT	AND	ON	2022/03/23 22:57
S428	29	"8039029"	USPAT	AND	ON	2022/03/23 22:57
S429	14	"8491948"	USPAT	AND	ON	2022/03/23 22:57
S430	18	"8114461"	USPAT	AND	ON	2022/03/23 22:58
S431	15	"9204751"	USPAT	AND	ON	2022/03/23 23:00
S432	7	"20130156897"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:00
S433	19	"9428328"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:01
S434	160	"8361527"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:01
S435	9	"20140127364"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:01
S436	18	"20140141128"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:02
S437	2	"20150020481"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:02
S438	8	(US-20150157164-$ | US-20150119220-$ | US-9409704-$ | US-9969564-$ | US-20140161936-$ | US-20150353275-$ | US-20160075506-$	US-PGPUB; USPAT	AND	ON	2022/03/23 23:04

		| US-20010181005-$ | US-20110064852-$).DID.				
S439	18	CA "2902231"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:04
S440	10	(US-20150132441-$ | US-6527181-$ | US-20040115310-$ | US-5948455-$ | US-9409703-$ | US-9072402-$ | US-20130209619-$ | US-4860645-$ | US-4846052-$ | US-4676482-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 23:06
S441	49	DE "1207866"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:06
S442	22	DE "1221960"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:07
S443	46	DE "3432339"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:07
S444	31	DE "102006004329"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:08
S445	25	DE "102010027485"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:09

S447	20	DE "102010034206"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:11
S448	114	DE "102011010534"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:11
S449	27	DE "102012110446"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:13
S450	18	DE "102014018470"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:13
S451	23	"202006003115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:14
S452	11	EP "0272432"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:15
S453	8	EP "0272432"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:15
S454	42	EP "0272922"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:15

S455	1,888,664	EP "0334572"	USPAT	OR	ON	2022/03/23 23:19
S456	19	EP "0334572"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:22
S457	34	EP "0455337"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:22
S458	39	EP "0468078"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:23
S459	91	EP "0468079"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:23
S460	152	EP "0512468"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:23
S461	2	EP "0569230"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:23
S462	42	EP "0638486"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:23
S463	14	EP "0656224"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:23
S464	36	EP "0844195"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:24

S465	110	EP "0859467"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:24
S466	4	EP "0923865"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:24
S467	24	EP "1129623"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:25
S468	10	(US-5242702-$ | US-5601716-$ | US-5917165-$ | US-6451332-$ | US-20020088807-$ | US-7543527-$ | US-20020110626-$ | US-7552672-$ | US-20050160919-$ | US-20080148948-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 23:27
S469	36	EP "1273528"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:29
S470	33	"1344724"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:30
S471	27	EP "1344724"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:30
S472	25	EP "1471012"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:30
S473	57	EP "1710173"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:31
S474	17	EP "1772398"	USOCR; FPRS; EPO; JPO;	AND	ON	2022/03/23 23:34

			DERWENT; IBM_TDB			
S475	10	(US-8101928-$ | US-20070148290-$ | US-8109200-$ | US-8088423-$ | US-20090324791-$ | US-7543527-$ | US-20020110626-$ | US-7552672-$ | US-20050160919-$ | US-20080148948-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 23:36
S476	11	(US-8101928-$ | US-20070148290-$ | US-8109200-$ | US-8088423-$ | US-20090324791-$ | US-20080024536-$ | US-20100050880-$ | US-8734881-$ | US-8257766-$ | US-20110041702-$ | US-8956672-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 23:37
S477	23	EP "1772398"	US-PGPUB; USPAT	AND	ON	2022/03/23 23:37
S478	17	EP "1772398"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:37
S479	43	EP "1849718"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:38
S480	66	EP "1859713"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:38
S481	21	EP "1882432"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:38
S482	25	EP "1892199"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:39
S483	30	EP "2012994"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:39
S484	68	EP "2218653"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:39
S485	49	EP "2284102"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:40

S486	32	EP "2412645"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:41
S487	27	EP "2537778"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:41
S488	57	FR "2556323"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:42
S489	29	FR "2912124"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:42
S490	12	GB "1402799"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:45
S491	17	GB "2469874"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/23 23:47
S492	12	(US-20110250333-$ | US-20100172951-$ | US-20130216663-$ | US-20120195155-$ | US-9434525-$ | US-20130064937-$ | US-20210086986-$ | US-20140346022-$ | US-20190359418-$ | US-20210269232-$ | US-5194553-$ | US-20130122153-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 23:50
S493	20	(US-9357791-$ | US-20030172813-$ | US-20030033938-$ | US-20040115310-$ | US-20050150391-$ | US-7408094-$ | US-7673558-$ | US-20100000667-$ | US-20100051532-$ | US-20130206011-$ | US-9277837-$ | US-9049958-$ | US-5460078-$ | US-20100303964-$ | US-20030121979-$ | US-20040089158-$ | US-20050266122-$ | US-20050266122-$ | US-20060228447-$ | US-20070157821-$ | US-20050183581-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/23 23:59
S494	1	JP "02289207"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:00

S495	17	JP "2001017094"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:01
S496	5	JP "2001082699"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:02
S497	5	JP "2001250161"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:02
S498	6	JP "2002274000"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:03
S499	4	JP "2002347852"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:03
S500	11	JP "2003235733"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:04
S501	0	JP H01233688	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:04
S502	1	JP "01233688"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:04
S503	3	JP "0394377"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:05
S504	2	JP "04176311"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:05
S505	5	JP "62130649"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:06
S506	2	JP "62168512"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:07

S507	4	KR "200435370"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:07
S508	0	KR "1020050107747"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:08
S509	0	KR "1020050107747"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:08
S510	118	WO "0228241"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:09
S511	19	WO "2004065258"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:10
S512	62	WO "2005044067"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:10
S513	13	WO "2005047111"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:11
S514	13	WO "2006108578"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:11
S515	12	WO "2007042486"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:11
S516	65	WO "2007114685"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:12
S517	20	WO "2007122144"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:13
S518	17	WO "2007122208"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:14

S519	92	WO "2008132571"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:15
S520	17	WO "2009084061"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:15
S521	15	WO "2009112291"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:15
S522	18	WO "2009153161"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:15
S523	49	WO "2010007633"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:16
S524	17	WO "2010013146"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:16
S525	60	WO "2010026053"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:16
S526	22	WO "2010076048"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:17
S527	12	WO "2010076263"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:17
S528	11	WO "2010076761"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:17
S529	15	WO "2010085824"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:18
S530	19	WO "2010118545"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:18

S531	11	WO "2010125326"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:18
S532	12	WO "2010125329"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:19
S533	24	(US-20120121765-$ | US-9359126-$ | US-20130101716-$ | US-20120100264-$ | US-20120126834-$ | US-20130084376-$ | US-20130149424-$ | US-20130084363-$ | US-9392902-$ | US-9290317-$ | US-20130209622-$ | US-9808112-$ | US-8916220-$ | US-20130327223-$ | US-9415931-$ | US-20140348984-$ | US-20140287104-$ | US-20140220191-$ | US-20140178538-$ | US-20140287105-$ | US-20160037961-$ | US-20150128525-$ | US-20150175347-$ | US-20150158666-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/24 00:23
S534	34	WO "2011047836"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:25
S535	46	WO "2011141532"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:26
S536	14	WO "2012019902"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:26
S537	8	WO "2014004231"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:27
S538	8	WO "2014004564"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:27
S539	8	(US-20150173558-$ | US-20150314954-$ | US-20150329282-$ | US-20150375926-$ | US-20160194146-$ | US-20160251150-$ | US-6025000-$ | US-5895672-$).DID.	US-PGPUB; USPAT	AND	ON	2022/03/24 00:31

S540	19	WO "2015075584"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:32
S541	14	WO "2015107484"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:33
S542	5	WO "2016077916"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:33
S543	5	WO "9851396"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:34
S544	21	WO "9903753"	FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 00:34
S545	2	"16462033"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/03/24 11:38
S546	696	(US-20110030563-$ or US-20100288131-$ or US-20100203208-$ or US-20100186599-$ or US-20100154651-$ or US-20100154647-$ or US-20100129512-$ or US-20100101428-$ or US-20100077928-$ or US-20100064899-$ or US-20100043646-$ or US-20100043645-$ or US-20100043644-$ or US-20100037779-$ or US-20090280219-$ or US-20090255410-$ or US-20090205503-$ or US-20090158938-$ or US-20090126577-$ or US-20090017177-$ or US-20090007796-$ or US-20090007794-$ or US-20080317931-$ or US-20080245236-$ or US-20080216666-$ or US-20080105131-$).did. or (US-20070186784-$ or US-20070084352-$ or US-20070068395-$ or US-20100303964-$ or US-20070224319-$ or US-20060110507-$ or US-20060019000-$ or US-20120258210-$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2022/04/06 19:00

		or US-20140287105-$ or US-20140020565-$ or US-20100147156-$ or US-20140026761-$ or US-20150108011-$ or US-20070144355-$ or US-20150196159-$ or US-20140072676-$ or US-20050051478-$ or US-20190233200-$ or US-20190225414-$ or US-20190225413-$ or US-20190202629-$ or US-20190177079-$ or US-20190177078-$ or US-20190167031-$ or US-20140287099-$ or US-20190100376-$ or US-20190084758-$).did. or (US-20190077588-$ or US-20160009486-$ or US-20150314955-$ or US-20190047771-$ or US-20190055084-$ or US-20190055083-$ or US-20190047782-$ or US-20190016527-$ or US-20130340626-$ or US-20130017303-$ or US-20190002192-$ or US-20180370720-$ or US-20180346239-$ or US-20180332995-$ or US-20180325309-$ or US-20180325301-$ or US-20180319582-$ or US-20180305194-$ or US-20150017293-$ or US-20180303275-$ or US-20180297776-$ or US-20180297775-$ or US-20180297309-$ or US-20180290825-$ or US-20180290824-$ or US-20180273286-$ or US-20180257856-$).did. or (US-20180237217-$ or US-20180220840-$ or US-20170143158-$ or US-20180215533-$ or US-20180206667-$ or US-20180201436-$ or US-20150246741-$ or US-20180178973-$ or US-20180178972-$ or US-20180162634-$ or US-20180148250-$ or US-20160137402-$ or US-20180134485-$ or US-20160198732-$ or US-20150158666-$ or US-20180125288-$ or US-20180116446-$ or US-20150360854-$ or US-20180084941-$ or US-20140272018-$ or US-20180044104-$ or US-20180037402-$ or US-20180029790-$ or US-20180016092-$ or US-20180002104-$ or US-20170362020-$ or US-20150246768-$).did. or (US-20170355515-$ or US-20170334624-$ or US-20170334623-$ or US-20170327308-$ or US-20170326617-$ or US-20170320658-$ or US-				

		20170313496-$ or US-20150245733-$ or US-20170305653-$ or US-20140127364-$ or US-20170280750-$ or US-20170275090-$ or US-20170275089-$ or US-20170275088-$ or US-20170275087-$ or US-20140141128-$ or US-20170258264-$ or US-20170174418-$ or US-20100203198-$ or US-20110189350-$ or US-20150150409-$ or US-20170120203-$ or US-20150344285-$ or US-20170081111-$ or US-20170071395-$ or US-20110303095-$ or US-20170050799-$).did. or (US-20150257580-$ or US-20170042365-$ or US-20170036857-$ or US-20170036854-$ or US-20130236609-$ or US-20160288990-$ or US-20160345769-$ or US-20130059039-$ or US-20130078341-$ or US-20160332805-$ or US-20160325898-$ or US-20160280430-$ or US-20160214787-$ or US-20160206133-$ or US-20160194147-$ or US-20160176624-$ or US-20150201791-$ or US-20160157660-$ or US-20160068334-$ or US-20160145037-$ or US-20160137401-$ or US-20160130076-$ or US-20160120356-$ or US-20160114967-$ or US-20160113435-$ or US-20160107831-$ or US-20160066591-$).did. or (US-20160052706-$ or US-20160016727-$ or US-20160001968-$ or US-20160001903-$ or US-20150368033-$ or US-20150353275-$ or US-20150353272-$ or US-20150336736-$ or US-20150320254-$ or US-20150314954-$ or US-20150307266-$ or US-20150282663-$ or US-20150272379-$ or US-20150251847-$ or US-20150208852-$ or US-20150203285-$ or US-20110283890-$ or US-20150157164-$ or US-20150151903-$ or US-20150140182-$ or US-20150125576-$ or US-20140272016-$ or US-20120070543-$ or US-20150086680-$ or US-20120070551-$ or US-20150072053-$ or US-20150072052-$).did. or (US-20150064324-$ or US-20150056351-$ or US-20150047509-$ or US-20150050391-$ or US-20140170271-$				

		or US-20150021209-$ or US-20150017290-$ or US-20140377413-$ or US-20140373725-$ or US-20120321756-$ or US-20140356484-$ or US-20140342060-$ or US-20140342059-$ or US-20140318380-$ or US-20140318379-$ or US-20140314919-$ or US-20140290494-$ or US-20120251671-$ or US-20140220189-$ or US-20140220190-$ or US-20140205721-$ or US-20140196608-$ or US-20140190863-$ or US-20140178538-$ or US-20140170269-$ or US-20140161940-$ or US-20140161936-$).did. or (US-20090223375-$ or US-20140123859-$ or US-20140120217-$ or US-20140106036-$ or US-20100159109-$ or US-20140090564-$ or US-20140087028-$ or US-20140072677-$ or US-20140072675-$ or US-20140069280-$ or US-20140065269-$ or US-20120121779-$ or US-20140053735-$ or US-20140037802-$ or US-20140017359-$ or US-20140004231-$ or US-20130302476-$ or US-20100303965-$ or US-20130270176-$ or US-20130259983-$ or US-20130247774-$ or US-20130243910-$ or US-20130216663-$ or US-20100132564-$ or US-20100239734-$ or US-20130180409-$ or US-20130164414-$).did. or (US-20130146495-$ or US-20130139700-$ or US-20130139699-$ or US-20130125762-$ or US-20120058226-$ or US-20130122157-$ or US-20130115340-$ or US-20130105340-$ or US-20130095212-$ or US-20130064936-$ or US-20130045307-$ or US-20130040021-$ or US-20130025466-$ or US-20120328739-$ or US-20120308688-$ or US-20120276264-$ or US-20120269933-$ or US-20120251668-$ or US-20120240779-$ or US-20120207896-$ or US-20120207895-$ or US-20120201933-$ or US-20120201932-$ or US-20120196008-$ or US-20100003371-$ or US-20080187638-$ or US-20120171333-$).did. or (US-20120121780-$ or US-20120118166-$ or US-20120097602-$ or US-				

		20120052164-$ or US-20120052163-$ or US-20120015081-$ or US-20120015080-$ or US-20110305801-$ or US-20110297005-$ or US-20110283891-$ or US-20110274794-$ or US-20110142996-$ or US-20110097450-$ or US-20110076361-$ or US-20110073607-$ or US-20110064852-$ or US-20110045144-$ or US-20110041702-$ or US-20110020497-$ or US-20100307930-$ or US-20100297299-$ or US-20100206177-$ or US-20100180774-$ or US-20100178392-$ or US-20060196364-$ or US-20100154644-$ or US-20100108541-$).did. or (US-20050150390-$ or US-20100062127-$ or US-20100047418-$ or US-20100005973-$ or US-20090320693-$ or US-20090320692-$ or US-20090263545-$ or US-20090235827-$ or US-20090211458-$ or US-20090110775-$ or US-20080257165-$ or US-20050115415-$ or US-20070181003-$ or US-20070148290-$ or US-20070062375-$ or US-20060236871-$ or US-20060174769-$ or US-20060065127-$ or US-20030172813-$ or US-20020078831-$ or US-20190208950-$ or US-20110168029-$ or US-20120285330-$ or US-20060107841-$ or US-20020023543-$ or US-20120118880-$ or US-20110274802-$).did. or (US-20110197771-$ or US-20110185910-$ or US-20110100229-$ or US-20090223373-$ or US-20040250686-$ or US-20020152895-$ or US-20020144604-$ or US-20020144603-$ or US-20020144602-$ or US-20150230652-$ or US-20150027318-$ or US-20210261280-$ or US-20210253334-$ or US-20200253413-$ or US-20200231370-$ or US-20200189772-$ or US-20170043943-$ or US-20200017288-$ or US-20190047783-$ or US-20180362198-$ or US-20180242776-$ or US-20170361961-$ or US-20170360239-$ or US-20170360057-$ or US-20160311610-$ or US-20160311609-$ or US-20160280453-$).did. or (US-20120090475-$ or US-20160145038-$				

		or US-20150158609-$ or US-20110117248-$ or US-20210331864-$ or US-20200121115-$ or US-20200047984-$ or US-20190328170-$ or US-20190313835-$ or US-20130129870-$ or US-20150201790-$ or US-20170355514-$ or US-20170319001-$ or US-20170295988-$ or US-20160157666-$ or US-20120100259-$ or US-20150238044-$ or US-20110259204-$ or US-20150068405-$ or US-20150056352-$ or US-20150001100-$ or US-20140318381-$ or US-20140305315-$ or US-20140186498-$ or US-20130186282-$ or US-20140318378-$ or US-20140287104-$).did. or (US-20130133522-$ or US-20130118360-$ or US-20050223904-$ or US-20090183640-$ or US-20090175986-$ or US-20040216616-$ or US-20130129876-$ or US-20100078480-$ or US-20020048621-$ or US-20140242239-$ or US-20190023483-$ or US-20160192807-$ or US-20160176625-$ or US-20160174757-$ or US-20150327717-$ or US-20160051080-$ or US-20160045061-$ or US-20160045059-$ or US-20150297021-$ or US-20150230654-$ or US-20150225169-$ or US-20150183577-$ or US-20150164262-$ or US-20150135967-$ or US-20150135962-$ or US-20150082989-$ or US-20150040769-$).did. or (US-20120285334-$ or US-20140224130-$ or US-20140174300-$ or US-20140130680-$ or US-20140076169-$ or US-20130344206-$ or US-20130312619-$ or US-20130095214-$ or US-20130064937-$ or US-20130014648-$ or US-20120097041-$ or US-20110262601-$ or US-20110189362-$ or US-20100282087-$ or US-20100126354-$ or US-20040005384-$ or US-20020088807-$ or US-20080026121-$ or US-20050266122-$ or US-20050150391-$ or US-20110005399-$ or US-20130055903-$ or US-20120295234-$ or US-20150056340-$ or US-20150056331-$ or US-20150010680-$ or US-20140302204-$).did. or (US-				

		20130327223-$ or US-20130230627-$ or US-20130209618-$ or US-20130136828-$ or US-20130129872-$ or US-20190359418-$ or US-20170020329-$ or US-20160340110-$ or US-20160332759-$ or US-20150175347-$ or US-20160251150-$ or US-20160242594-$ or US-20150239652-$ or US-20160075506-$ or US-20160037961-$ or US-20150329282-$ or US-20200231372-$ or US-20190382191-$ or US-20210147138-$ or US-20180354713-$ or US-20160302613-$ or US-20150072049-$).did. or (US-8304006-$ or US-8220382-$ or US-8202560-$ or US-8161868-$ or US-8161866-$ or US-8147887-$ or US-7993691-$ or US-7946217-$ or US-7930972-$ or US-7856921-$ or US-7854192-$ or US-7836819-$ or US-7815953-$ or US-7703381-$ or US-7624673-$ or US-7604826-$ or US-7279188-$ or US-5897899-$ or US-5826492-$ or US-5762987-$ or US-5649472-$ or US-5402707-$ or US-5398595-$ or US-5327815-$ or US-4846052-$ or US-5325765-$).did. or (US-6079315-$ or US-6182554-$ or US-6644173-$ or US-7490542-$ or US-4136202-$ or US-7552672-$ or US-8640604-$ or US-8322271-$ or US-7856920-$ or US-6606938-$ or US-8846120-$ or US-6672200-$ or US-6666130-$ or US-6142063-$ or US-6082247-$ or US-3615708-$ or US-2968560-$ or US-9486108-$ or US-11001437-$ or US-11001436-$ or US-11001433-$ or US-10144579-$ or US-9764891-$ or US-5472719-$ or US-5242702-$ or US-9232871-$ or US-9463921-$).did. or (US-6832542-$ or US-8720320-$ or US-8794125-$ or US-7063238-$ or US-8561524-$ or US-7836820-$ or US-5656311-$ or US-9402501-$ or US-11166587-$ or US-8927037-$ or US-7681492-$ or US-6189438-$ or US-10994923-$ or US-9320385-$ or US-7444925-$ or US-8087347-$ or US-8695484-$ or US-11254491-$ or US-10870531-$ or US-8424447-$ or US-5460078-$ or US-4867993-$ or US-9428328-$ or US-9415931-$ or				

		US-9409704-$ or US-9392902-$ or US-8512886-$).did. or (US-8039029-$ or US-8491948-$ or US-9434525-$ or US-9277837-$).did. or (US-2968560-$).did. or (WO-02081337-$ or WO-2010076698-$ or JP-4836776-$ or CA-2765371-$ or CA-2819140-$ or EP-2520202-$ or CA-2811153-$ or EP-2647317-$ or CA-2521063-$ or FR-2993869-$ or WO-2008113779-$ or EP-1864917-$ or WO-2012011053-$ or WO-2008125256-$ or WO-2014041419-$ or WO-2014033339-$ or EP-1992575-$ or EP-1500357-$ or WO-2009050540-$ or EP-2374733-$ or EP-2345602-$ or EP-1364605-$ or WO-2015136433-$ or EP-2612579-$ or WO-2012076135-$ or EP-2409608-$).did. or (WO-2013079814-$ or KR-200450676-$ or CA-2526785-$ or EP-1775234-$ or WO-2006045537-$ or WO-2007114685-$ or WO-2008132571-$ or WO-2008117329-$ or WO-03059778-$ or WO-2004064582-$ or CH-711427-$ or EP-3181484-$ or WO-2015117892-$ or GB-2520492-$ or EP-2966006-$ or GB-2530062-$ or CA-2701826-$ or EP-2868598-$ or EP-2298671-$ or GB-2528289-$ or CA-2878097-$ or CA-2927665-$ or DE-102010044251-$ or DE-102012110446-$ or DE-1207866-$ or GB-1402799-$ or WO-2010085824-$).did. or (EP-1775234-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2007114685-$ or WO-2006045537-$ or EP-1500357-$ or DE-3432339-$).did. or (JP-2000355375-$ or JP-2012005818-$ or JP-2005211659-$ or JP-01310612-$ or JP-02289207-$).did. or (EP-1775234-$ or WO-2006030461-$ or JP-2000355375-$ or US-20050084569-$ or GB-2531687-$ or GB-2530680-$ or GB-2530062-$ or WO-2015177591-$ or WO-2015128799-$ or ES-2538740-$ or EP-2886490-$ or WO-2014191044-$ or WO-2014188285-$ or DE-102012223291-$ or WO-2014061045-$ or FR-2993869-$ or EP-2647317-$ or ES-2398277-$ or WO-2012150542-$ or WO-2012123106-$ or WO-2012110323-$				

		or WO-2012100836-$ or WO-2012100976-$ or WO-2013135937-$ or WO-2012072509-$ or WO-2012042487-$).did. or (WO-2012034819-$ or FR-2962893-$ or WO-2011159162-$ or WO-2011159163-$ or WO-2013060918-$ or EP-2374733-$ or WO-2010137953-$ or WO-2010118543-$ or WO-2009103592-$ or WO-2009084059-$ or WO-2009050540-$ or WO-2008148834-$ or EP-1992575-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2008113779-$ or WO-02081337-$ or WO-2015136433-$ or US-20150374165-$ or WO-2010137947-$ or EP-1500357-$ or US-20140072675-$ or WO-2011000725-$ or WO-2011000723-$ or US-20170027374-$ or WO-2015091301-$ or WO-2015055849-$).did. or (DE-102010044251-$ or WO-2011141532-$ or EP-2345351-$ or EP-2345352-$ or WO-2011000724-$ or WO-2014001563-$ or WO-2014001564-$ or GB-2569622-$ or GB-2569624-$ or US-20180354713-$ or WO-2012004133-$ or DE-102010027485-$ or JP-2001250161-$ or JP-2003235733-$ or WO-2015075584-$).did.				
S547	185	S546 and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/06 19:01
S548	32	("2013/0312619").URPN.	USPAT	OR	ON	2022/04/06 19:25
S550	72	(US-2778739-$ | US-3183096-$ | US-3501896-$ | US-3521207-$ | US-3631793-$ | US-3640727-$ | US-4136202-$ | US-4389925-$ | US-4534985-$ | US-4540595-$ | US-4644151-$ | US-4676482-$ | US-4742645-$ | US-4846052-$ | US-4859337-$ | US-4860645-$ | US-4867993-$ | US-4976179-$ | US-5012629-$ | US-5028769-$ | US-5108768-$ | US-5194553-$ | US-5242702-$ | US-5243164-$ | US-5251758-$ | US-5285041-$ | US-5325765-$ | US-5402707-$ | US-5460078-$ | US-5496573-$ | US-5501945-$ | US-5535765-$ | US-	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/06 21:56

		5601716-$ | US-5637850-$ | US-5656311-$ | US-5656316-$ | US-5656318-$).DID.				
S551	169	"5677522"	USPAT	AND	ON	2022/04/06 22:05
S552	44	"5725261"	USPAT	AND	ON	2022/04/06 22:06
S553	335	"5840189"	USPAT	AND	ON	2022/04/06 22:06
S554	32	"5888549"	USPAT	AND	ON	2022/04/06 22:10
S555	35	(US-5895672-$ | US-5897899-$ | US-5917165-$ | US-5941055-$ | US-5948455-$ | US-5980743-$ | US-5994677-$ | US-6025000-$ | US-6153026-$ | US-6199780-$ | US-6202929-$ | US-6213326-$ | US-6299926-$ | US-6440256-$ | US-6451332-$ | US-6527181-$ | US-6589577-$ | US-6598800-$ | US-6607762-$ | US-6627244-$ | US-6645537-$ | US-6655260-$ | US-6817538-$ | US-6861086-$ | US-6948420-$ | US-6861086-$ "6948420" | US-6994879-$ | US-7408094-$ | US-7444925-$ | US-7464518-$ | US-7543527-$ | US-7552672-$ | US-7595870-$ | US-7673558-$ | US-7685930-$ | US-7815953-$).DID.	US-PGPUB; USPAT	AND	ON	2022/04/06 22:18
S556	38	(US-5895672-$ | US-5725261-$ | US-5840189-$ | US-5888549-$ | US-5895672-$ | US-5897899-$ | US-5917165-$ | US-5941055-$ | US-5948455-$ | US-5980743-$ | US-5994677-$ | US-6025000-$ | US-6153026-$ | US-6199780-$ | US-6202929-$ | US-6213326-$ | US-6299926-$ | US-6440256-$ | US-6451332-$ | US-6527181-$ | US-6589577-$ | US-6598800-$ | US-6607762-$ | US-6627244-$ | US-6645537-$ | US-6655260-$ | US-6817538-$ | US-6861086-$ | US-6948420-$ | US-6994879-$ | US-7408094-$ | US-7444925-$ | US-7464518-$ | US-7543527-$ | US-7552672-$ | US-7595870-$ | US-7673558-$ | US-7685930-$ | US-7815953-$).DID.	US-PGPUB; USPAT	AND	ON	2022/04/06 22:31

S557	0	"17547363"	US-PGPUB; USPAT	AND	ON	2022/04/06 23:46
S558	2	"20100203208"	US-PGPUB; USPAT	AND	ON	2022/04/07 12:06
S559	696	(US-20110030563-$ or US-20100288131-$ or US-20100203208-$ or US-20100186599-$ or US-20100154651-$ or US-20100154647-$ or US-20100129512-$ or US-20100101428-$ or US-20100077928-$ or US-20100064899-$ or US-20100043646-$ or US-20100043645-$ or US-20100043644-$ or US-20100037779-$ or US-20090280219-$ or US-20090255410-$ or US-20090205503-$ or US-20090158938-$ or US-20090126577-$ or US-20090017177-$ or US-20090007796-$ or US-20090007794-$ or US-20080317931-$ or US-20080245236-$ or US-20080216666-$ or US-20080105131-$).did. or (US-20070186784-$ or US-20070084352-$ or US-20070068395-$ or US-20100303964-$ or US-20070224319-$ or US-20060110507-$ or US-20060019000-$ or US-20120258210-$ or US-20140287105-$ or US-20140020565-$ or US-20100147156-$ or US-20140026761-$ or US-20150108011-$ or US-20070144355-$ or US-20150196159-$ or US-20140072676-$ or US-20050051478-$ or US-20190233200-$ or US-20190225414-$ or US-20190225413-$ or US-20190202629-$ or US-20190177079-$ or US-20190177078-$ or US-20190167031-$ or US-20140287099-$ or US-20190100376-$ or US-20190084758-$).did. or (US-20190077588-$ or US-20160009486-$ or US-20150314955-$ or US-20190047771-$ or US-20190055084-$ or US-20190055083-$ or US-20190047782-$ or US-20190016527-$ or US-20130340626-$ or US-20130017303-$ or US-20190002192-$ or US-20180370720-$ or US-20180346239-$ or US-20180332995-$ or US-20180325309-$ or US-20180325301-$ or US-20180319582-$ or US-20180305194-$ or US-	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2022/04/07 13:17

		20150017293-$ or US-20180303275-$ or US-20180297776-$ or US-20180297775-$ or US-20180297309-$ or US-20180290825-$ or US-20180290824-$ or US-20180273286-$ or US-20180257856-$).did. or (US-20180237217-$ or US-20180220840-$ or US-20170143158-$ or US-20180215533-$ or US-20180206667-$ or US-20180201436-$ or US-20150246741-$ or US-20180178973-$ or US-20180178972-$ or US-20180162634-$ or US-20180148250-$ or US-20160137402-$ or US-20180134485-$ or US-20160198732-$ or US-20150158666-$ or US-20180125288-$ or US-20180116446-$ or US-20150360854-$ or US-20180084941-$ or US-20140272018-$ or US-20180044104-$ or US-20180037402-$ or US-20180029790-$ or US-20180016092-$ or US-20180002104-$ or US-20170362020-$ or US-20150246768-$).did. or (US-20170355515-$ or US-20170334624-$ or US-20170334623-$ or US-20170327308-$ or US-20170326617-$ or US-20170320658-$ or US-20170313496-$ or US-20150245733-$ or US-20170305653-$ or US-20140127364-$ or US-20170280750-$ or US-20170275090-$ or US-20170275089-$ or US-20170275088-$ or US-20170275087-$ or US-20140141128-$ or US-20170258264-$ or US-20170174418-$ or US-20100203198-$ or US-20110189350-$ or US-20150150409-$ or US-20170120203-$ or US-20150344285-$ or US-20170081111-$ or US-20170071395-$ or US-20110303095-$ or US-20170050799-$).did. or (US-20150257580-$ or US-20170042365-$ or US-20170036857-$ or US-20170036854-$ or US-20130236609-$ or US-20160288990-$ or US-20160345769-$ or US-20130059039-$ or US-20130078341-$ or US-20160332805-$ or US-20160325898-$ or US-20160280430-$ or US-20160214787-$ or US-20160206133-$ or US-20160194147-$ or US-20160176624-$ or US-20150201791-$			

		or US-20160157660-$ or US-20160068334-$ or US-20160145037-$ or US-20160137401-$ or US-20160130076-$ or US-20160120356-$ or US-20160114967-$ or US-20160113435-$ or US-20160107831-$ or US-20160066591-$).did. or (US-20160052706-$ or US-20160016727-$ or US-20160001968-$ or US-20160001903-$ or US-20150368033-$ or US-20150353275-$ or US-20150353272-$ or US-20150336736-$ or US-20150320254-$ or US-20150314954-$ or US-20150307266-$ or US-20150282663-$ or US-20150272379-$ or US-20150251847-$ or US-20150208852-$ or US-20150203285-$ or US-20110283890-$ or US-20150157164-$ or US-20150151903-$ or US-20150140182-$ or US-20150125576-$ or US-20140272016-$ or US-20120070543-$ or US-20150086680-$ or US-20120070551-$ or US-20150072053-$ or US-20150072052-$).did. or (US-20150064324-$ or US-20150056351-$ or US-20150047509-$ or US-20150050391-$ or US-20140170271-$ or US-20150021209-$ or US-20150017290-$ or US-20140377413-$ or US-20140373725-$ or US-20120321756-$ or US-20140356484-$ or US-20140342060-$ or US-20140342059-$ or US-20140318380-$ or US-20140318379-$ or US-20140314919-$ or US-20140290494-$ or US-20120251671-$ or US-20140220189-$ or US-20140220190-$ or US-20140205721-$ or US-20140196608-$ or US-20140190863-$ or US-20140178538-$ or US-20140170269-$ or US-20140161940-$ or US-20140161936-$).did. or (US-20090223375-$ or US-20140123859-$ or US-20140120217-$ or US-20140106036-$ or US-20100159109-$ or US-20140090564-$ or US-20140087028-$ or US-20140072677-$ or US-20140072675-$ or US-20140069280-$ or US-20140065269-$ or US-20120121779-$ or US-20140053735-$ or US-20140037802-$ or US-20140017359-$ or US-				

		20140004231-$ or US-20130302476-$ or US-20100303965-$ or US-20130270176-$ or US-20130259983-$ or US-20130247774-$ or US-20130243910-$ or US-20130216663-$ or US-20100132564-$ or US-20100239734-$ or US-20130180409-$ or US-20130164414-$).did. or (US-20130146495-$ or US-20130139700-$ or US-20130139699-$ or US-20130125762-$ or US-20120058226-$ or US-20130122157-$ or US-20130115340-$ or US-20130105340-$ or US-20130095212-$ or US-20130064936-$ or US-20130045307-$ or US-20130040021-$ or US-20130025466-$ or US-20120328739-$ or US-20120308688-$ or US-20120276264-$ or US-20120269933-$ or US-20120251668-$ or US-20120240779-$ or US-20120207896-$ or US-20120207895-$ or US-20120201933-$ or US-20120201932-$ or US-20120196008-$ or US-20100003371-$ or US-20080187638-$ or US-20120171333-$).did. or (US-20120121780-$ or US-20120118166-$ or US-20120097602-$ or US-20120052164-$ or US-20120052163-$ or US-20120015081-$ or US-20120015080-$ or US-20110305801-$ or US-20110297005-$ or US-20110283891-$ or US-20110274794-$ or US-20110142996-$ or US-20110097450-$ or US-20110076361-$ or US-20110073607-$ or US-20110064852-$ or US-20110045144-$ or US-20110041702-$ or US-20110020497-$ or US-20100307930-$ or US-20100297299-$ or US-20100206177-$ or US-20100180774-$ or US-20100178392-$ or US-20060196364-$ or US-20100154644-$ or US-20100108541-$).did. or (US-20050150390-$ or US-20100062127-$ or US-20100047418-$ or US-20100005973-$ or US-20090320693-$ or US-20090320692-$ or US-20090263545-$ or US-20090235827-$ or US-20090211458-$ or US-20090110775-$ or US-20080257165-$ or US-20050115415-$ or US-20070181003-$ or US-20070148290-$				

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		20160176625-$ or US-20160174757-$ or US-20150327717-$ or US-20160051080-$ or US-20160045061-$ or US-20160045059-$ or US-20150297021-$ or US-20150230654-$ or US-20150225169-$ or US-20150183577-$ or US-20150164262-$ or US-20150135967-$ or US-20150135962-$ or US-20150082989-$ or US-20150040769-$).did. or (US-20120285334-$ or US-20140224130-$ or US-20140174300-$ or US-20140130680-$ or US-20140076169-$ or US-20130344206-$ or US-20130312619-$ or US-20130095214-$ or US-20130064937-$ or US-20130014648-$ or US-20120097041-$ or US-20110262601-$ or US-20110189362-$ or US-20100282087-$ or US-20100126354-$ or US-20040005384-$ or US-20020088807-$ or US-20080026121-$ or US-20050266122-$ or US-20050150391-$ or US-20110005399-$ or US-20130055903-$ or US-20120295234-$ or US-20150056340-$ or US-20150056331-$ or US-20150010680-$ or US-20140302204-$).did. or (US-20130327223-$ or US-20130230627-$ or US-20130209618-$ or US-20130136828-$ or US-20130129872-$ or US-20190359418-$ or US-20170020329-$ or US-20160340110-$ or US-20160332759-$ or US-20150175347-$ or US-20160251150-$ or US-20160242594-$ or US-20150239652-$ or US-20160075506-$ or US-20160037961-$ or US-20150329282-$ or US-20200231372-$ or US-20190382191-$ or US-20210147138-$ or US-20180354713-$ or US-20160302613-$ or US-20150072049-$).did. or (US-8304006-$ or US-8220382-$ or US-8202560-$ or US-8161868-$ or US-8161866-$ or US-8147887-$ or US-7993691-$ or US-7946217-$ or US-7930972-$ or US-7856921-$ or US-7854192-$ or US-7836819-$ or US-7815953-$ or US-7703381-$ or US-7624673-$ or US-7604826-$ or US-7279188-$ or US-5897899-$ or US-5826492-$ or US-5762987-$ or US-5649472-$ or				

		US-5402707-$ or US-5398595-$ or US-5327815-$ or US-4846052-$ or US-5325765-$).did. or (US-6079315-$ or US-6182554-$ or US-6644173-$ or US-7490542-$ or US-4136202-$ or US-7552672-$ or US-8640604-$ or US-8322271-$ or US-7856920-$ or US-6606938-$ or US-8846120-$ or US-6672200-$ or US-6666130-$ or US-6142063-$ or US-6082247-$ or US-3615708-$ or US-2968560-$ or US-9486108-$ or US-11001437-$ or US-11001436-$ or US-11001433-$ or US-10144579-$ or US-9764891-$ or US-5472719-$ or US-5242702-$ or US-9232871-$ or US-9463921-$).did. or (US-6832542-$ or US-8720320-$ or US-8794125-$ or US-7063238-$ or US-8561524-$ or US-7836820-$ or US-5656311-$ or US-9402501-$ or US-11166587-$ or US-8927037-$ or US-7681492-$ or US-6189438-$ or US-10994923-$ or US-9320385-$ or US-7444925-$ or US-8087347-$ or US-8695484-$ or US-11254491-$ or US-10870531-$ or US-8424447-$ or US-5460078-$ or US-4867993-$ or US-9428328-$ or US-9415931-$ or US-9409704-$ or US-9392902-$ or US-8512886-$).did. or (US-8039029-$ or US-8491948-$ or US-9434525-$ or US-9277837-$).did. or (US-2968560-$).did. or (WO-02081337-$ or WO-2010076698-$ or JP-4836776-$ or CA-2765371-$ or CA-2819140-$ or EP-2520202-$ or CA-2811153-$ or EP-2647317-$ or CA-2521063-$ or FR-2993869-$ or WO-2008113779-$ or EP-1864917-$ or WO-2012011053-$ or WO-2008125256-$ or WO-2014041419-$ or WO-2014033339-$ or EP-1992575-$ or EP-1500357-$ or WO-2009050540-$ or EP-2374733-$ or EP-2345602-$ or EP-1364605-$ or WO-2015136433-$ or EP-2612579-$ or WO-2012076135-$ or EP-2409608-$).did. or (WO-2013079814-$ or KR-200450676-$ or CA-2526785-$ or EP-1775234-$ or WO-2006045537-$ or WO-2007114685-$ or WO-2008132571-$ or WO-2008117329-$ or WO-03059778-$ or WO-2004064582-$ or CH-711427-$ or EP-				

		3181484-$ or WO-2015117892-$ or GB-2520492-$ or EP-2966006-$ or GB-2530062-$ or CA-2701826-$ or EP-2868598-$ or EP-2298671-$ or GB-2528289-$ or CA-2878097-$ or CA-2927665-$ or DE-102010044251-$ or DE-102012110446-$ or DE-1207866-$ or GB-1402799-$ or WO-2010085824-$).did. or (EP-1775234-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2007114685-$ or WO-2006045537-$ or EP-1500357-$ or DE-3432339-$).did. or (JP-2000355375-$ or JP-2012005818-$ or JP-2005211659-$ or JP-01310612-$ or JP-02289207-$).did. or (EP-1775234-$ or WO-2006030461-$ or JP-2000355375-$ or US-20050084569-$ or GB-2531687-$ or GB-2530680-$ or GB-2530062-$ or WO-2015177591-$ or WO-2015128799-$ or ES-2538740-$ or EP-2886490-$ or WO-2014191044-$ or WO-2014188285-$ or DE-102012223291-$ or WO-2014061045-$ or FR-2993869-$ or EP-2647317-$ or ES-2398277-$ or WO-2012150542-$ or WO-2012123106-$ or WO-2012110323-$ or WO-2012100836-$ or WO-2012100976-$ or WO-2013135937-$ or WO-2012072509-$ or WO-2012042487-$).did. or (WO-2012034819-$ or FR-2962893-$ or WO-2011159162-$ or WO-2011159163-$ or WO-2013060918-$ or EP-2374733-$ or WO-2010137953-$ or WO-2010118543-$ or WO-2009103592-$ or WO-2009084059-$ or WO-2009050540-$ or WO-2008148834-$ or EP-1992575-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2008113779-$ or WO-02081337-$ or WO-2015136433-$ or US-20150374165-$ or WO-2010137947-$ or EP-1500357-$ or US-20140072675-$ or WO-2011000725-$ or WO-2011000723-$ or US-20170027374-$ or WO-2015091301-$ or WO-2015055849-$).did. or (DE-102010044251-$ or WO-2011141532-$ or EP-2345351-$ or EP-2345352-$ or WO-2011000724-$ or WO-2014001563-$ or WO-				

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S560	118	S559 and (barcode or RFID or identif$4) and ((quantity near (water or liquid)) or (pressure near (water or liquid)) or (temperature near (water or liquid)))	US-PGPUB; USPAT	AND	ON	2022/04/07 13:17
S561	0	"17547363"	US-PGPUB; USPAT	AND	ON	2022/04/07 16:47
S562	103	426/115.ccls. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:35
S563	318	99/286,289R,295,302R,307,323.ccls. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:43
S564	253	B65D85/8043.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:44
S565	511	A47J31/4492.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:44
S566	97	B65D65/466.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:48
S567	125	B65D2203/06.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:49
S568	196	B65D2203/10.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	US-PGPUB; USPAT	AND	ON	2022/04/07 18:50
S570	24	((("K-FEE") near3 ("SYSTEM") near3 ("GMBH"))).AS,AANM.	USPAT	OR	ON	2022/04/07 19:09
S574	59	"219".clas. and (fluorescence near (detect$3 or sens$3))	US-PGPUB; USPAT	AND	ON	2022/04/08 16:12
S575	12	S574 and weld$3	US-PGPUB; USPAT	AND	ON	2022/04/08 16:12
S576	1	"15990408"	US-PGPUB; USPAT	AND	ON	2022/04/08 16:19
S577	5	"20170072466"	US-PGPUB; USPAT	AND	ON	2022/04/08 16:23

S580	0	"99".clas. and (barcode or RFID or identif$4) near (reflective near properties)	US-PGPUB; USPAT	AND	ON	2022/04/09 23:35
S581	0	"219".clas. and (barcode or RFID or identif$4) near (reflective near properties)	US-PGPUB; USPAT	AND	ON	2022/04/09 23:39
S582	17	(barcode or RFID or identif$4) near (reflective near properties)	US-PGPUB; USPAT	AND	ON	2022/04/09 23:39
S583	58	(barcode or RFID or identif$4) near (reflect$4 near properties)	US-PGPUB; USPAT	AND	ON	2022/04/10 00:09
S584	0	"201000784801"	US-PGPUB; USPAT	AND	ON	2022/04/10 00:16
S585	0	"201000784801"	US-PGPUB; USPAT	AND	ON	2022/04/10 00:16
S586	0	"20100784801"	US-PGPUB; USPAT	AND	ON	2022/04/10 00:16
S587	1	"20100078480"	US-PGPUB; USPAT	AND	ON	2022/04/10 00:16
S588	1	"16448212"	US-PGPUB; USPAT	AND	ON	2022/04/11 10:13
S589	18	"6414263"	US-PGPUB; USPAT	AND	ON	2022/04/11 10:14
S590	2	"20050150391"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:35
S591	1	"20130247774"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:35
S592	0	WO "2014061045"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:36
S593	15	WO "2014061045"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 16:36
S594	7	"7930972"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2022/04/11 16:36
S595	14	"7930972"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:37
S596	211	"6079315"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:37
S597	2	"20130236609"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:38

S598	1	"20170071395"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:43
S599	1	"20190055084"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:44
S600	2	"20180325309"	US-PGPUB; USPAT	AND	ON	2022/04/11 16:45
S601	9	"20100129512"	US-PGPUB; USPAT	AND	ON	2022/04/11 19:49

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S141	33	"99".clas. and ((capsule) and (piercing)).clm.	USPAT	OR	OFF	2018/10/17 13:30
S142	74	"99".clas. and ((capsule or cartridge) and (piercing)).clm.	USPAT	OR	OFF	2018/10/17 13:58
S145	33	99/286,289R,295,302R,307,323.ccls. and ((capsule) and (piercing)).clm.	USPAT	AND	ON	2018/10/19 10:49
S146	0	"13326291"	USPAT	AND	ON	2018/10/19 11:13
S344	124	"99".clas. and ((coffee) and (chamber or receptacle) and (spring)).clm.	USPAT	OR	OFF	2021/12/13 13:57
S346	138	"99".clas. and ((coffee) and (chamber or receptacle or holder) and (spring)).clm.	USPAT	OR	OFF	2021/12/22 09:44
S347	46	"4882982"	USPAT	OR	OFF	2021/12/22 10:11
S348	0	"16900462"	USPAT	OR	OFF	2021/12/22 10:45
S549	2	"Term Removed"	USPAT	OR	ON	2022/04/06 19:00

4/11/2022 11:18:37 PM
C:\Users\jchou\Documents\EAST\Workspaces\case91 13326291.wsp

Filed Via EFS @ USTO.Gov on May 25, 2022
Attorney Docket No.: 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012

For: Portion Capsule Having An Identifier

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant submits this statement in accordance with its duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Copies of foreign patent documents and non-patent literature, together with a listing on form PTO/SB/08a are submitted herewith.

This Information Disclosure Statement is being submitted after the mailing of a first Office Action and before a Notice of Allowance. A fee of $260.00 is believed to be due; however, if any additional fee is due with the filing of this paper, please charge the amount to Deposit Account 50-1097.

Date: May 25, 2022

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Customer No. 25215

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

U.S. PATENTS					
Examiner Initials*	Cite No.	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document
	1.	D734,665	S	07/21/2015	Cahen et al.
	2.	3,744,026		07/03/1973	Wolff
	3.	6,079,315	A	06/27/2000	Beaulieu et al.
	4.	7,412,921	B2	08/19/2008	Hu et al.
	5.	9,756,974	B2	09/12/2017	Rivera

U.S. PATENT APPLICATION PUBLICATIONS					
Examiner Initials*	Cite No.	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document
	1.	2002/0144603	A1	10/10/2002	Taylor
	2.	2010/0078480	A1	04/01/2010	Aker
	3.	2010/0129512	A1	05/27/2010	Accursi
	4.	2013/0014648	A1	01/17/2013	Rognon et al.
	5.	2013/0236609	A1	09/12/2013	Magniet et al.
	6.	2014/0242239	A1	08/28/2014	Boggavarapu
	7.	2015/0017293	A1	01/15/2015	Carr et al.
	8.	2015/0047509	A1	02/19/2015	Trombetta et al.
	9.	2015/0225169	A1	08/13/2015	Jarisch
	10.	2015/0368033	A1	12/24/2015	Krug et al.
	11.	2016/0130076	A1	05/12/2016	Jarisch
	12.	2016/0174757	A1	06/23/2016	Rivera
	13.	2017/0071395	A1	03/16/2017	Krüger et al.
	14.	2017/0295988	A1	10/19/2017	Chung
	15.	2018/0325309	A1	11/15/2018	Short et al.
	16.	2019/0055084	A1	02/21/2019	D'Urso

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	T[5]
	1.	2780866	EP	B1	09/24/2014	Jarisch et al.	
	2.	S6415233	JP	A	01/19/1989	Shioyama	Abs.
	3.	2014/191044	WO	A1	12/04/2014	Doglioni	

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Nespresso USA, Inc. Ex. 1002
Page 328 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1.	Nespreso Vertuo Plus User Manual, accessed on April 22, 2022, from: https://www.nespresso.com/shared_res/manuals/vertuoline/www_VERTUOPLUS_C_NESPRESSO_Z1(EN_FR_ES).pdf, and under Document Properties in Adobe includes a 10/6/2016 Created Date and a 10/6/2016 Modified Date.	
	2.	Final Order On Claim Construction, dated March 10, 2022, in Case No. 2:21-cv-03402-GW (AGRx)	
	3.	Non-Final Office Action in US 17/547,363, dated April 04, 2022 (Atty. Docket No. 1859.029USC12)	
	4.	Non-Final Office Action in US 17/670,629, dated April 15, 2022 (Atty. Docket No. 1859.029USC13)	
	5.	Petitioner's Request For Rehearing Of The PTAB's Denial of Inter Partes Review of U.S. Patent No. 10,858,176, filed on February 17, 2022.	
	6.	Petitioner's Request For Rehearing Of The PTAB's Denial of Inter Partes Review of U.S. Patent No. 10,858,177, filed on February 17, 2022.	
	7.	Petitioner's Request For Rehearing Of The PTAB's Denial of Inter Partes Review of U.S. Patent No. 10,870,531, filed on February 17, 2022.	
	8.	Redacted Memorandum Of Points And Authorities In Support Of Nespresso USA, INC.'s Motion For Summary Judgement of Noninfringement, dated April 01, 2022, in Case No. 2:21-cv-03402-GW (AGRx)	
	9.	Redacted Nespresso USA, INC.'S Separate Statement Of Uncontroverted Facts And Conclusions Of Law In Support Of Its Motion For Summary Judgement Of Noninfringement, dated April 01, 2022, in Case No. 2:21-cv-03402-GW (AGRx)	
	10.	Redacted Declaration of Christian Jarisch, dated March 30, 2022, and filed in Case No. 2:21-cv-03402-GW (AGRx) on April 01, 2022.	
	11.	Opposition Appeal Against EP 3023362, dated December 20, 2021, and appended documents.	
	12.	Exhibit 1045 (English Translation of DE 10 2011 010 534.4) filed by Nespresso USA in IPR2021-01223	
	13.	Exhibit 1046 (English Translation of DE 10 2010 031 988.0) filed by Nespresso USA in IPR2021-01223	
	14.	Exhibit 1047 (English Translation of DE 10 2010 044 251.8) filed by Nespresso USA in IPR2021-01223	
	15.	Third Party Observations against EP 19 165 220.5 (3 533 726), filed by Société des Produits Nestle S.A., August 26, 2021	
	16.	Opposition against EP 3 521 209, filed by Société des Produits Nestle S.A., January 22, 2020	

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Nespresso USA, Inc. Ex. 1002
Page 329 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

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.			

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Nespresso USA, Inc. Ex. 1002
Page 330 of 532

Electronic Patent Application Fee Transmittal

Application Number:	17670765
Filing Date:	14-Feb-2022
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Filer:	Paul J. Palinski/BECKY BALLARD
Attorney Docket Number:	1859.029USC14

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**260**

Electronic Acknowledgement Receipt

EFS ID:	45796351
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	25-MAY-2022
Filing Date:	14-FEB-2022
Time Stamp:	11:39:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$260
RAM confirmation Number	E20225OB40193767
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	Supplemental_IDS_1859_029USC14.pdf	169120 dc9711da4c3b51a9618a621890af9650f5be6718	no	4
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	EP2780866B1.pdf	8257743 ba6de29953d7281cfeeb8a3df5a4a7891da7d660	no	31
Warnings:					
Information:					
3	Foreign Reference	JPS6415233A.pdf	400571 3dd969ac9cd9408ab8003a08c55dbd65f94e8b32	no	5
Warnings:					
Information:					
4	Foreign Reference	WO2014191044A1.pdf	4428398 6cf877c01ff8f3914e6630067e412eb05bd63399	no	64
Warnings:					
Information:					
5	Non Patent Literature	1_NespresoVertuoPlusUserManual.pdf	3829446 df632827d319455e8c17c94ec2fb0b6e9db9f7f4	no	60
Warnings:					
Information:					
6	Non Patent Literature	2_FinalOrderOnClaimConstruction.pdf	5314306 a2873b2fa2d51a8de6216883a19bd8813eb46353	no	25
Warnings:					

Information:					
7	Non Patent Literature	3_NFOA_Dated20220404_1859_029USC12.pdf	2278327 02494ef4ba88985fc2402e118ddf2c322998b073	no	45
Warnings:					
Information:					
8	Non Patent Literature	4_NFOA_Dated20220415_1859_029USC13.pdf	2639144 1f6c3b6bb6d884fb68b6f22005a70050d23ee978	no	54
Warnings:					
Information:					
9	Non Patent Literature	5_RequestForRehaeringOf_US10858176.pdf	220433 e24bfa58168c0ecfccd7b419ce4e66972a14eac3	no	21
Warnings:					
Information:					
10	Non Patent Literature	6_RequestForRehaeringOf_US10858177.pdf	221011 a1a01c0e704d9d127f881ead7f55fc20522bee04	no	21
Warnings:					
Information:					
11	Non Patent Literature	7_RequestForRehaeringOf_US10870531.pdf	219974 e5a275dccc208e0ceabe76b31750fd66ed84e21c	no	21
Warnings:					
Information:					
12	Non Patent Literature	8_MemorandumOfPointAndAuthorities.pdf	646075 0cdd5b24dcce1e55033cc31471c71407cba147e9	no	16
Warnings:					
Information:					
13	Non Patent Literature	9_NespressoUSA_INCSSeparateStatemenOfUncontrovertedFacts.pdf	318746 c46b20858fa93e906330240dd70905c99a2356bb	no	6
Warnings:					
Information:					

14	Non Patent Literature	10_DeclarationOfChristianJaris chDatedMarch302022.pdf	1577843 c3fb4649e20e9beca0bd51266403c0e127c d052d	no	10
Warnings:					
Information:					
15	Non Patent Literature	11_OppositionAppealAgainstE P3023362.pdf	7162945 a20115bd3aacf547656d0206cbf5ac5f01e7 4e07	no	121
Warnings:					
Information:					
16	Non Patent Literature	12_Ex_1045_DE102010010534. pdf	619533 47de32d4f05a475dafb249f5b4b4ad55edb a77bb	no	35
Warnings:					
Information:					
17	Non Patent Literature	13_Ex_1046_DE102010031988. pdf	415749 95d0734897f575a03d7091db06030b41764 b5b26	no	41
Warnings:					
Information:					
18	Non Patent Literature	14_Ex_1047_DE102010044251. pdf	299164 5111f2fe30ece906db9580f8af269383e9fd6 13b	no	20
Warnings:					
Information:					
19	Non Patent Literature	15_ThirdPartyObservations.pdf	3043202 ae01571e5d2cdf40d8809172d0796cd9221 9ef37	no	54
Warnings:					
Information:					
20	Non Patent Literature	16_NoticeOfOpposition220120 20.pdf	4560950 4e312e92b6b29a44538996b58669994a36 606556	no	77
Warnings:					
Information:					

21	Fee Worksheet (SB06)	fee-info.pdf	38145 834aee7f49ca9b020a6df051a78a0a647cb5dd41	no	2

Warnings:	
Information:	
Total Files Size (in bytes):	46660825

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/670,765	02/14/2022	Marc Kruger	1859.029USC14

CONFIRMATION NO. 8012

25215
The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

PUBLICATION NOTICE

OC000000134119745

Title:PORTION CAPSULE HAVING AN IDENTIFIER

Publication No.US-2022-0161992-A1
Publication Date:05/26/2022

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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Nespresso USA, Inc. Ex. 1002
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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

25215 7590 07/05/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

EXAMINER	
CHOU, JIMMY	

ART UNIT	PAPER NUMBER
3761	

NOTIFICATION DATE	DELIVERY MODE
07/05/2022	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):

dobrusin_PAIR@firsttofile.com
patmail@patentco.com
rmasquelier@patentco.com

Applicant-Initiated Interview Summary	**Application No.** 17/670,765	**Applicant(s)** Krüger, Marc		
	Examiner JIMMY CHOU	**Art Unit** 3761	**AIA (First Inventor to File) Status** No	**Page** 1 of 2

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
JIMMY CHOU	Primary Examiner	Telephonic
Paul Palinski	Attorney of Record	

Date of Interview: 28 June 2022

Issues Discussed:

35 U.S.C. 112

The applicant agreed to further amend for the ledge claim feature because ledge is part of the sidewall of capsule.

Drawings

Discussed about the drawing objections. The attorney argues that the support can be found on page 6, 23-26, i.e., the invention will be explained herein below with reference to figures 1-18. These explanations do not have a limiting effect on the general concept of the invention; on page 9 lines 8-9, 11 -27, i.e., what has been said in relation to the identifier applies to all other examples ... it is possible as symbolized by the arrow 15, for the barcode to be provided on that side of the peripheral region; on page 12, lines 13-35 and on page 17-19; on page 8 at lines 35-38, i.e., convexities 8 constitutes the identifier. On page 17, claim 7 can be depend on claim 3 so that both identifier features can be added in independent claim. Thus, the drawing objections have been withdrawn.

Non-statutory Double Patenting

The attorney agreed to file terminal disclaimer.

Priority Claim(s)

Discussed about the priority claims. The support can be found in the above drawing objection section.

/JIMMY CHOU/ Primary Examiner, Art Unit 3761	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a

non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/670,765	Filing Date 02/14/2022	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $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).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	07/15/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 12	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/POLIN ANG/
*** 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 number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. 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 12 minutes 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed	PTO/SB/25 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION**
Application Number	17670765
Filing Date	14-Feb-2022
First Named Inventor	Marc Krüger
Attorney Docket Number	1859.029USC14
Title of Invention	PORTION CAPSULE HAVING AN IDENTIFIER

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
K-FEE SYSTEM GMBH	100%

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

17670629 filed on 02/14/2022

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○	I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

○ Small Entity

○ Micro Entity

◉ Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 71080

○ A sole inventor

○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

○ A joint inventor; all of whom are signing this request

Signature	/Paul J. Palinski/
Name	Paul J. Palinski

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	17670765
Filing Date:	14-Feb-2022
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Filer:	Paul J. Palinski/BECKY BALLARD
Attorney Docket Number:	1859.029USC14

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**170**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 17670765

Filing Date: 14-Feb-2022

Applicant/Patent under Reexamination: Krüger

Electronic Terminal Disclaimer filed on July 15, 2022

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	46199116
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	15-JUL-2022
Filing Date:	14-FEB-2022
Time Stamp:	12:53:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$170
RAM confirmation Number	E20227EC53013746
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	43748 afca2da708e0b99891acfcce0376bf29ffa899b1	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38022 818077ed20e006afb62fbc9284992f11ad01dfc8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	81770		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Filed Via EFS @ USTO.Gov on July 15, 2022
Attorney Docket No.: 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012

For: Portion Capsule Having An Identifier

Attorney Docket No.: 1859.029USC14 / KRU0022-WO-US-T15

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE;
AMENDMENT; AND
INTERVIEW SUMMARY

In response to the Office Action mailed April 15, 2022, please amend the above-identified application as follows and consider the following remarks.

AMENDMENTS TO THE CLAIMS

1) – 9) (Cancelled)

10) (Currently Amended) A portion capsule for making a beverage comprising:

a base element having a cavity in which a beverage material is provided, the base element including a wall that is symmetrical about a central longitudinal axis thereof and having an open end and a closed bottom portion, the base element has a first height that is defined between the open end and the closed bottom portion, the wall has an outside surface and an inside surface which faces the beverage material;

a plurality of indentations arranged on the outside surface of the wall, about the central longitudinal axis;

a ledge formed at~~arranged on~~ the inside surface of the wall and projecting towards the central longitudinal axis, the ledge is spaced below the open end of the base element;

a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface;

an optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine;

a barrier layer to prevent moisture or aroma from escaping out of the portion capsule; and

a cover attached to the base element to close the cavity, the cover having a central region and a perimeter, the cover is bowed outwardly ~~upwardly~~ to a second height in the central region

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relative to the perimeter of the cover, the second height of the cover is less than the first height of the base element, the cover includes a piercing region that is configured to be pierced by a mandrel of the beverage machine at a location that is laterally offset from the central longitudinal axis and a sealing region that is configured to be sealed against by a seal of the beverage machine, the sealing region is located between the piercing region and the perimeter of the cover.

11) (Previously Presented) The portion capsule according to claim 10, wherein the base element is made of metal, a biodegradable material, or plastic, the optically detectable individualization identifier is located on the wall of the base element, and the individualization identifier is circumferentially arranged around the central longitudinal axis.

12) (Currently Amended) The portion capsule according to claim 11, wherein the plurality of indentations are vertically oriented, ~~the wall comprises an inside surface defining the cavity,~~ the inside surface of the wall of the base element comprises a plurality of ribs.

13) (Previously Presented) The portion capsule according to claim 11, wherein the cover is connected to the top surface of the rim.

14) (Previously Presented) The portion capsule according to claim 13, wherein the closed bottom portion comprises an indentation.

15) (Previously Presented) The portion capsule according to claim 13, wherein the portion capsule includes a filter inside of the cavity.

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16) (Currently Amended) The portion capsule according to claim 13, wherein the portion capsule ~~includes~~ is free of a filter inside of the cavity.

17) (Currently Amended) A portion capsule for making a beverage comprising:

a base element having a cavity in which a beverage material is provided, the base element including a wall that is symmetrical about a central longitudinal axis thereof and having an open end and a closed bottom portion, the base element has a first height that is defined between the open end and the closed bottom portion, the wall has an outside surface and an inside surface which faces the beverage material;

a plurality of vertically-orientated indentations arranged on the outside surface of the wall;

a plurality of vertically-orientated ribs arranged on the inside surface of the wall;

a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface;

an optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine;

a barrier layer to prevent moisture or aroma from escaping out of the portion capsule; and

a cover sealed to the base element to close the cavity, the cover having a central region and a perimeter, the cover is bowed outwardly ~~upwardly~~ to a second height in the central region relative to the perimeter of the cover, the second height of the cover is less than the first height of the base element, the cover includes a piercing region that is configured to be pierced by a mandrel of the

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beverage machine at a location that is laterally offset from the central longitudinal axis and a sealing region that is configured to be sealed against by a seal of the beverage machine, the sealing region is located between the piercing region and the perimeter of the cover.

18) (Currently Amended) The portion capsule according to claim 17, wherein ~~the portion capsule comprises a ledge arranged on~~ the inside surface of the wall comprises a ledge~~and~~ projecting towards the central longitudinal axis, and the optically detectable individualization identifier is circumferentially arranged around the central longitudinal axis.

19) (Previously Presented) The portion capsule according to claim 18, wherein the optically detectable individualization identifier is located on the wall of the base element, and the base element is made of metal, a biodegradable material, or plastic.

20) (Previously Presented) The portion capsule according to claim 19, wherein the portion capsule includes a filter inside of the cavity, and the wall comprises an electrically conductive section.

21) (Currently Amended) The portion capsule according to claim 19, wherein the portion capsule ~~includes~~ is free of a filter inside of the cavity, and the wall comprises an electrically conductive section.

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REMARKS

Interview Summary

Applicant thanks Examiner Chou for the courtesies extended to Applicant's representative Paul Palinski during the Applicant-initiated telephonic interview conducted on June 28, 2022 and for the Examiner's Interview Summary dated July 05, 2022. Applicant also thanks Examiner Chou for acknowledging that Applicant was in possession of the claimed subject matter in the priority applications and agreeing to withdraw both of the drawing objection and the priority notification in the Office Action. Further details about the Interview are included below.

Priority

It is alleged on pages 2-3 of the Office Action that pending claims in this application are not entitled to the benefit of the claimed priority dates. This allegation is respectfully traversed.

Applicant thanks Examiner Chou for agreeing during the Interview to withdraw this priority notification. As discussed during the Interview, for purposes of entitlement to the priority application filing dates, it is Applicant's belief (particularly in accordance with current case law) that the description of the presently claimed combinations (within the four corners of the priority applications) is sufficient to demonstrate to a skilled person with reasonable clarity that the inventor had possession of the claimed subject matter. It appeared to have been understood by the Examiner that the support need not have been verbatim, and that the drawings taken in connection with the text portion of the specification (including the multiple dependent claims) was to be considered.

More particularly, during the Interview, among other things, Applicant's representative pointed out specifically that the skilled person would have taken into consideration that priority applications each had passages, (examples of which the Examiner identified in his Interview Summary), which made reference to the teachings as applicable to the various embodiments; and the generalized teachings preceding the description of the drawings, found in at least the September 2, 2010 priority application translation) would be applicable to other embodiments and that the Inventor contemplated combinations of features from the various embodiments as reflected, for instance, in the multiple dependent claims found in the priority application.

Also relevant to the present discussion is that each of the various examples pertain to an approach to individualize a beverage-making portion capsule using identifiers. The description

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makes it reasonably clear to a skilled person that the Applicant was not restricting the description of one example to only the features shown in that example, and the examples were not presented as being mutually exclusive. To this end, the incorporation of features from one or more of the respective examples relevant to the present claims into a capsule or system described in another would not have frustrated the purpose or prevented operation. The teachings, as a whole, were drafted open-ended, and without limitation, as stated in the passage preceding the discussion of the examples: "In the following, the invention is explained using figures 1 - 18. These explanations do not restrict the general idea of inventiveness." Thus, in view of the above, a skilled person would immediately have discerned that, at time of filing, the Inventor had possession of a combination that included the single serve capsule and system shown in Fig. 16 and the various identifiers.

As was urged during the Interview, this application is entitled to a filing date of its priority applications, at least as early as September 2, 2010, and retains it continuation status from the Original PCT application No. PCT/EP/2011/003677, in which the subject matter of the present claims also is disclosed (e.g., in the examples, the claims, and the corresponding teachings identified in the September 2, 2010 priority application).

Accordingly, as acknowledged by the Examiner during the Interview, the presently claimed invention is not a continuation-in-part as initially alleged in the Office Action but is a continuation as urged by Applicant.

Further, the withdrawal of the drawing objections and the CIP priority notification is proper and amply supported in the four corners of the priority documents.

The analysis presented herein and the finding of the Examiner is amply supported by the evidence of record and is consistent with the Federal Circuit case law as illustrated in ***Hologic, Inc. v. Smith & Nephew, Inc***., 884 F.3d 1357 (Fed. Cir. 2018); and also recent interpretation of the law by the USPTO Patent Trial and Appeal Board (PTAB), as illustrated abundantly in cases such as ***Ex Parte Borgerding,*** 2022 Pat. App. LEXIS 2557 (PTAB 2022)(routine opinion regarding Application No. 15/862,428); ***3Shape A/S v. Align Technology, Inc.,*** 2022 Pat. App. LEXIS 239 (PTAB 2022)(routine opinion regarding IPR2021-01120; Patent No. 10,750,151); ***Ex Parte Chipchase***, 2021 Pat. App. LEXIS 2283 (PTAB 2021)(routine opinion regarding Application Serial No. 15/131,587); and ***Innovative Intelligent Products, LLC v. National***

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Products, Inc., 2021 Pat. App. LEXIS 6292 (PTAB 2021)(routine opinion regarding IPR2021-00767; Patent No. 10,630,334)[1].

Drawings

The drawings are objected to for the reasons alleged on page 14 of the Office Action. This objection is respectfully traversed.

As discussed during the Interview, the limitations in the pending claims are present in the priority applications. Among other things, Applicant's representative pointed out during the Interview that the skilled person would have taken into consideration that priority applications have sufficient disclosure of the claimed beverage system that includes the capsule and the beverage machine. Applicant also notes that various teachings in the written description and drawing breathe meaning and inherency into claim terms and certain claim features implicitly give rise to the presence of others. By way of example, the skilled person would have readily recognized that the description associated with Figs. 16a and 16b would tacitly have required other features not shown in those drawings but disclosed elsewhere in the application, such as a capsule receptacle that receives the single-serve capsule. This combination is plainly taught within the four corners of at least the September 2010 priority application. Applicant again thanks the Examiner for agreeing to withdraw the drawing objection and recognizing the Inventor was in possession of the claimed combination in the priority applications.

Double Patenting

Claims 10-12 and 14-16 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 10, 16-18 of copending Application No. 17/670,629 in view of Short et al. (US 201 8/0325309) and Magniet et al. (US 201 3/0236609). This rejection is respectfully traversed. Claim 13 is provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 10, 16-18 of copending Application No. 17/670,629 in view of Short et al. (US 2018/0325309) and Magniet et al. (US 201 3/0236609) as applied in claims 10-12 and 14-16 above, and further in view of Accursi (US 2010/0129512). This rejection is respectfully traversed. Claims 17-21 are provisionally rejected on the ground of nonstatutory

[1] The Office Action did not set forth a level of ordinary skill in the art. However, Applicant has assumed *arguendo* (and solely for purposes of this response) that the person of ordinary skill in the art has an engineering education and some years of relevant practical experience.

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double patenting as being unpatentable over claims 10-11 and 16-18 of copending Application No. 17/670,629 in view of Doglioni Majer (WO 201 4/1 91 044) and Magniet et al. (US 201 3/0236609). This rejection is respectfully traversed.

Applicant believes that the present pending claims include numerous distinguishing features that, as a whole, would patentably distinguish over the above-mentioned references and would obviate any such rejection. However, in the interest of streamlining prosecution, narrowing the open issues, and avoiding protracted prosecution, Applicant nevertheless submits the present Terminal Disclaimer. The submission of this Terminal Disclaimer, under no circumstances, should be interpreted or otherwise regarded as an admission that the present claims cover subject matter that is obvious in view of any of the subject matter in the above documents. Applicant expressly reserves the right to argue the differences between the present claims and the provisional rejection claims in the future, in any context in which it may arise. Moreover, by submitting the present Terminal Disclaimer, Applicant specifically disagrees that an Obviousness Type Double Patenting rejection is proper, and that this Terminal Disclaimer is even necessary.

Claim Amendments

By way of the foregoing amendments and the markings to show changes Applicant has amended the claims. No new matter has been added. The foregoing amendments are taken in the interest of expediting prosecution and there is no intention of surrendering any range of equivalents to which Applicant would otherwise be entitled in view of the prior art.

Further, by the present amendment, it does not follow that the amended claims have become so perfect in their description that no one could devise an equivalent. After amendment, as before, limitations in the ability to describe the present invention in language in the patent claims naturally prevent the Applicant from capturing every nuance of the invention or describing with complete precision the range of its novelty or every possible equivalent. Accordingly, the foregoing amendments are made specifically in the interest of expediting prosecution and there is no intention of surrendering any range of equivalents to which Applicant would otherwise be entitled.

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CONCLUSIONS

In view of Applicant's amendments and remarks, the Examiner's rejections are believed to be rendered moot. Accordingly, Applicant submits that the present application is in condition for allowance and requests that the Examiner pass the case to issue at the earliest convenience. Should the Examiner have any questions or wish to further discuss this application, Applicant requests that the Examiner contact the undersigned at (248) 292-2920.

If for some reason Applicant has not requested a sufficient extension and/or has not paid a sufficient fee for this response and/or for the extension necessary to prevent the abandonment of this application, please consider this as a request for an extension for the required time period and/or authorization to charge our Deposit Account No. 50-1097 for any fee which may be due.

Respectfully submitted,

Date: July 15, 2022

/Paul J. Palinski/

Reg. No. 71,080
Attorney for Applicant
The Dobrusin Law Firm, P.C.
29 W. Lawrence Street - Suite 210
Pontiac, MI 48342
(248) 292-2920

Customer No. 25215

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Page 359 of 532

Electronic Acknowledgement Receipt

EFS ID:	46199329
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	15-JUL-2022
Filing Date:	14-FEB-2022
Time Stamp:	12:56:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_1859_029USC14.pdf	203020 6560183c81e9702b0f20c8fc5f3ee16b634b7d10	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Request for Reconsideration-After Non-Final Rejection	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	10
Warnings:			
Information:			
	Total Files Size (in bytes):	203020	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Filed via EFS @ USPTO.gov on July 27, 2022
Practitioner's Docket No. 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012

For: Portion Capsule Having An Identifier

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT AFTER FIRST OFFICE ACTION AND BEFORE NOTICE OF ALLOWANCE STATEMENT UNDER 37 C.F.R. §1.97(E)(2)

Applicant submits this statement in accordance with its duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Nothing in this Submission or in any other Submission should be regarded as a disclaimer of claim scope. No statement by Applicant or related companies in any foreign proceeding should be regarded as a disclaimer or other surrender of claim scope in this proceeding.

Because the various foreign proceedings referred to in this and previous Submission involve different claims and context than those pending in this application, nothing cited in this Submission should constitute an acquiescence or adoption of any position advanced in foreign proceedings.

Copies of foreign patent documents and non-patent literature, together with a listing on form PTO/SB/08a are submitted herewith.

E(2) Certification: 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 undersigned after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

Summary Of Foreign Proceedings

Applicant has been forthcoming in advising the various USPTO Examiners examining the patent

applications in this family that Applicant and an Adverse Party[1] are involved in foreign adversarial proceedings in which the Adverse Party is relying on positions that, upon inquiry, are believed to be consistent with those made in previously cited Information Disclosure Statements, including European opposition proceedings and as to which we update the Office to advise that the Adverse Party filed an appeal from the decision of the European Patent Office Opposition Decision that upheld the European patent.

The Undersigned has also been advised that pending in France and Switzerland are nullity proceedings attacking the validity of the opposed patents in those countries. The Adverse Party has also filed an opposition to a Japanese patent. As understood by the Undersigned, the Adverse party has advanced arguments and grounds in the French, Swiss, and Japanese proceedings that are similar to the prior arguments, papers, and oppositions by that Party, which have been cited to the USPTO in prior Information Disclosure Statements (See e.g., Submission dated February 14, 2022 and May 25, 2022). There are also non-infringement proceedings in Europe that are being defended by the Adverse Party based on similar positions taken in the United States that the accused products do not have a barcode as that term was construed.

Accompanying this Submission at Cite No. 14 is a filing by Nestle Nespresso SA dated June 13, 2022 referring to a contingent counterclaim in Switzerland. In that Submission, there is reference to additional potential prior art on pages 16 and 44-47 of the English translation (capsules for the classic Nespresso System Special Edition). As understood, Nestle Nespresso did not allege that the lines on those capsules perform any function in relation to a beverage making machine.

To the extent that the Examiner desires further information on any of the adversarial proceedings, the Examiner is kindly requested to inform the Undersigned.

Foreign Vindication Proceedings

An Adverse Party has filed proceedings in Germany and Switzerland in which, as understood by the undersigned, allege the Asserted Patents were not conceived by the named inventor, Marc Krüger, and instead were derived from others, including without limitation by individuals at Nespresso's affiliates and/or individuals at Eugster/Frismag AG. To the extent that the Examiner desires further information on any of the adversarial proceedings, the Examiner is kindly requested to inform the Undersigned.

Claim Construction Order

[1] As the Office will be able to glean from the submissions, the Adverse Party is one or more companies having Nespresso and/or Nestle in its name.

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It will be observed from the Claim Construction Order cited in a previous Information Disclosure Statement that certain aspects of foreign proceedings are being relied upon by the Adverse Party in the Capsule Litigation. For purposes of the present examination, Applicant desires that prosecution be conducted providing the broadest reasonable meaning of the claim terms without limiting those claim terms to any features allegedly distinguished in foreign proceedings, and Applicant makes no reliance on any arguments made by representatives of Applicant in any such foreign proceedings. To the extent that the Examiner desires further information, the Examiner is kindly requested to inform the Undersigned.

Preliminary Invalidity Contentions

Preliminary Invalidity Contentions have been filed by the Adverse Party against Applicant's commonly-owned US Patent 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx). The Preliminary Invalidity Contentions allege invalidity of US Patent 11,254,491 under 35 U.S.C. § 102, 103, and 112. The Exhibits and Claim Charts referred to in the Preliminary Invalidity Contentions are included herewith. Moreover, pages 2 and 19-28, for example, relate to issues addressed in the Interview dated June 28, 2022 and as discussed in the Interview Summary and Applicant's response to the Office Acton filed on July 15, 2022.

Request For Patent Cancellation of Korean Patent No 10-2318476, mailed June 20, 2022 (hereafter "Request")

A Request has been filed in the Korean Intellectual Property Office by the Adverse party to Cancel Korean Patent No 10-2318476. Upon inquiry, it is understood that the proceeding advances arguments and grounds that are consistent with the prior arguments, papers, and oppositions, which have been cited to the Office in prior Information Disclosure Statements. Request appears to rely on references including: WO 2005/079638 A1, US 2010/0078480 A1, JP 2003-235733, WO 2005/044067 A1, US 2002/0048621 A1, KR 200435370, WO 01/99047 A1, US 6,645,537 B2, EP 1849718 A1, WO 2010/041179 A1, US 2006/0233921 A1. To the extent that the Examiner desires further information on this proceeding, the Examiner is kindly requested to inform the Undersigned.

Notification Of Reasons for Revocation Of Japanese Patent No. 694164, dated June 22, 2022 (hereafter "Notification")

A Notification has been issued by the Japanese Patent Office against Japanese Patent No. 6941640. Upon inquiry, it is understood that the proceeding advances arguments and grounds that are consistent with the prior arguments, papers, and oppositions, which have been cited to the Office in prior

Information Disclosure Statements. The JP Notification relies on JP 2013-526316, which is understood to be an equivalent of WO2011141532A and US 2013/0064937 A1; WO 02/28241 A; US 2010/0078480; WO 2010/026053 A1; EP 1722398 A1; EP 0455337 A1; US 5,285,041; WO 01/99047 A; WO 01/60712; and JP 2013-530798. To the extent that the Examiner desires further information on this proceeding, the Examiner is kindly requested to inform the Undersigned.

Date: July 27, 2022

/Paul J. Palinski/

Paul J. Palinski

Reg. No. 71,080
Attorney for Applicant
The Dobrusin Law Firm, P.C.
29 W. Lawrence Street - Suite 210
Pontiac, MI 48342
(248) 292-2920

Customer No. 25215

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Nespresso USA, Inc. Ex. 1002
Page 365 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

U.S. PATENTS					
Examiner Initials*	Cite No.	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document
	1.	726,793		04/28/1903	Bezzera
	2.	3,387,553		10/24/1965	Tavera
	3.	3,437,253		04/08/1969	Davis et al.
	4.	5,261,558		11/16/1993	Claydon
	5.	6,142,063		11/07/2000	Beaulieu et al.

U.S. PATENT APPLICATION PUBLICATIONS					
Examiner Initials*	Cite No.	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document
	1.	2002/0078831	A1	06/27/2002	Cai
	2.	2004/0112222	A1	06/17/2004	Fischer
	3.	2006/0233921	A1	10/19/2006	Mock et al.
	4.	2006/0230941	A1	10/19/2006	Ryser et al.
	5.	2008/0105131	A1	05/08/2008	Castellani
	6.	2009/0205747	A1	08/20/2009	Lillard, Jr.
	7.	2011/0265659	A1	11/03/2011	Giua
	8.	2012/0269933	A1	10/25/2012	Rapparini
	9.	2013/0099597	A1	04/25/2013	Perentes

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	T[5]
	1.	2145759	EP	A1	01/20/2010	Geerts et al.	
	2.	2001/060712	WO	A1	08/23/2001	Sweeney et al.	
	3.	2010/034663	WO	A1	04/01/2010	Ozanne et al.	
	4.	2010/099806	WO	A1	09/10/2010	Rossi	

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1.	Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	2.	Appendix A - Obviousness Chart for U.S. Patent No. 11,254,491	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

		referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	3.	Exhibit A-1 Invalidity of U.S. Patent No. 11,254,491 in view of Denisart, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	4.	Exhibit A-2 Invalidity of U.S. Patent No. 11,254,491 in view of Giua, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	5.	Exhibit A-3 Invalidity of U.S. Patent No. 11,254,491 in view of Jarisch, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	6.	Exhibit A-4 Invalidity of U.S. Patent No. 11,254,491 in view of Jarisch 929, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	7.	Exhibit A-5 Invalidity of U.S. Patent No. 11,254,491 in view of Mahlich, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	8.	Exhibit A-6 Invalidity of U.S. Patent No. 11,254,491 in view of Panesar, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	9.	Exhibit A-7 Invalidity of U.S. Patent No. 11,254,491 in view of Rossi, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	10.	Exhibit A-8 Invalidity of U.S. Patent No. 11,254,491 in view of Ruchonnet, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	11.	Exhibit A-9 Invalidity of U.S. Patent No. 11,254,491 in view of Yoakim, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	12.	Espresso Coffee, The Science of Quality, Second Edition, Edited By Andrew Illy and Rinantonio Viani, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S.	

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Nespresso USA, Inc. Ex. 1002
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

		Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	13.	11 - Packaging and the Shelf Like of Coffee, ISBN 9781420078442, Food Packaging and Shelf Life: A Practical Guide (2009), referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	14.	Nestle Nespresso SA reply dated June 13, 2022 to Defendant K-fee System GmbH contingent counterclaim	X
	15.	Applicant statements included in the IDS Transmittal Letter filed on July 27, 2022 relating to: Summary of Foreign Proceedings, Foreign Vindication Proceedings, Claim Construction Order, Preliminary Invalidity Contentions, Request For Patent Cancellation of Korean Patent No 10-2318476, Notification Of Reasons for Revocation Of Japanese Patent No. 694164	

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.			

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 368 of 532

Electronic Acknowledgement Receipt

EFS ID:	46284556
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	27-JUL-2022
Filing Date:	14-FEB-2022
Time Stamp:	15:16:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	Supplemental_IDS_1859_029USC14.pdf	190091 03ceaf480eb051acd53c1cd8f9f42252846d4834	no	7

Warnings:

Information:					
This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	EP2145759A1.pdf	444631 0220eb8fd1de4cc0239cf91487ea71a625d36b55	no	8
Warnings:					
Information:					
3	Foreign Reference	WO0160712A1.pdf	1417682 e48d3c414181da1abc512c3e9afbb380cb5dfe90	no	20
Warnings:					
Information:					
4	Foreign Reference	WO2010034663A1.pdf	765619 72c0a09de4f655e1b9249fe32797481 7d72c5e73	no	14
Warnings:					
Information:					
5	Foreign Reference	WO2010099806A1.pdf	1248118 3d1bba8eebb7ad909d48dc70b99b6b757e745f38	no	21
Warnings:					
Information:					
6	Non Patent Literature	1_NespressosPreliminaryInvalidityContentions.pdf	318942 14526d84869afe01d1506e90cc62c23e02f5a9ab	no	32
Warnings:					
Information:					
7	Non Patent Literature	2_Appendix_A_491_PatentObviousnessChart.pdf	3094247 c53bac45e43a7185f402ad5a809205199b6f9d4f	no	213
Warnings:					
Information:					
8	Non Patent Literature	3_Exhibit_A_1_491PatentDenisart.pdf	562197 08584e351d86c607acf776c10ab0e4802014eb13	no	116
Warnings:					
Information:					

9	Non Patent Literature	4_Exhibit_A_2_491_PatentGiua.pdf	279632 1a4ac666b56217ace71bb1c7736c20cd6dea7696	no	34
Warnings:					
Information:					
10	Non Patent Literature	5_Exhibit_A_3_491_PatentJarisch.pdf	406215 e4b69754a75d893d52d17d0178e744bdf2bfe372	no	41
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Information:					
11	Non Patent Literature	6_Exhibit_A_4_491_PatentJarisch929.pdf	345409 8b35d0f608b886ce78d4c3bb55d8b0e2c4fce8fc	no	42
Warnings:					
Information:					
12	Non Patent Literature	7_Exhibit_A_5_491_PatentMahlich.pdf	336170 1eaa4eadb0f4c1768fbe85327615576f6ac7c85b	no	51
Warnings:					
Information:					
13	Non Patent Literature	8_Exhibit_A_6_491_PatentPanesar.pdf	389455 68bfdc73eb2dd83cbb84cd62824221a3ff4ee54a	no	41
Warnings:					
Information:					
14	Non Patent Literature	9_Exhibit_A_7_491_PatentRossi.pdf	304070 332f4c8cf02ed5a19cfda43a2591cf1d38acd187	no	69
Warnings:					
Information:					
15	Non Patent Literature	10_Exhibit_A_8_491_PatentRuchonnet.pdf	528214 3371a8dee38bfddee1181093bf205c651a678248	no	58
Warnings:					
Information:					

16	Non Patent Literature	11_Exhibit_A_9_491_PatentYoakim.pdf	738313 79a4886d77506c8611f359dbdb94962d0c775464	no	54
Warnings:					
Information:					
17	Non Patent Literature	12_EspressoCoffee_TheScienceofQuality.pdf	859203 119cf0bfc54886518d3c89d44a661d2572808efd	no	8
Warnings:					
Information:					
18	Non Patent Literature	13_11PackagingandtheShelfLifeofCoffee.pdf	5803422 25c4c0fafbc0890fb4a51b27d03eacdf25594cdc	no	16
Warnings:					
Information:					
19	Non Patent Literature	14_NestleSwissResponseJune132022.pdf	17502201 33e28aa7198353091af5889c000158bfa096bcc5	no	91
Warnings:					
Information:					
		Total Files Size (in bytes):	35533831		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

25215 7590 08/11/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

EXAMINER
CHOU, JIMMY

ART UNIT	PAPER NUMBER
3761	

DATE MAILED: 08/11/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

TITLE OF INVENTION: PORTION CAPSULE HAVING AN IDENTIFIER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	11/14/2022

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25215 7590 08/11/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

TITLE OF INVENTION: PORTION CAPSULE HAVING AN IDENTIFIER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	11/14/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHOU, JIMMY	3761	426-115000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 374 of 532

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

25215 7590 08/11/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

EXAMINER	
CHOU, JIMMY	
ART UNIT	PAPER NUMBER
3761	

DATE MAILED: 08/11/2022

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 minutes 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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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 disclosure of these records is required by the Freedom of Information Act.
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 inspection 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.

Notice of Allowability	Application No. 17/670,765	Applicant(s) Krüger, Marc	
	Examiner JIMMY CHOU	Art Unit 3761	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 07/15/2022.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ 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.

3. ☑ The allowed claim(s) is/are 10-21 . As a result of the allowed claim(s), 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.**

4. ☑ 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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☑ Other See Continuation Sheet.

/JIMMY CHOU/
Primary Examiner, Art Unit 3761

Continuation of Attachment(s) 7. Other: 1. bib-data sheet is attached. 2. Search history is attached. 3. amendment to claims filed on 07/15/2022 is attached.

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Reason for Allowance

The following is a statement of reasons for the indication of allowable subject matter: The closest prior art of record are **Jarisch et al.** (US 20130064937) and **Schmed et al.** (US 7,856,920). The prior art of record references neither discloses, or suggests, in combination with the other limitations of independent claim 10, the rim having a top surface and an opposing bottom surface; an optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine.

The prior art of record references neither discloses, or suggests, in combination with the other limitations of independent claim 17, a plurality of vertically-orientated indentations arranged on the outside surface of the wall; a plurality of vertically-orientated ribs arranged on the inside surface of the wall; a rim at the open end of the base element, the rim having a top surface and an opposing bottom surface; an

optically detectable individualization identifier, which is carried by the bottom surface of the rim, the optically detectable individualization identifier includes surface areas having different optically detectable reflective properties, the optically detectable individualization identifier is configured to be read by a sensor/detector of a beverage machine to individualize the portion capsule and to activate a pump of the beverage machine.

Reason for Allowance

(1) As discussed in the interview, the priority is removed and drawing objections is support by original specification so that drawing objections have been withdrawn.

(2) With respect to Double Patenting rejections, The terminal disclaimer filed on 07/15/2022 overcome the Double Patenting rejections. Thus, Double patenting rejections have been withdrawn.

(3) The terminal disclaimer filed on 07/15/2022 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Application No.17670629 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JIMMY CHOU whose telephone number is (571)270-7107. The examiner can normally be reached Mon-Friday.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Helena Kosanovic can be reached on (571) 272-9059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JIMMY CHOU/
Primary Examiner, Art Unit 3761

Notice of References Cited	Application/Control No. 17/670,765	Applicant(s)/Patent Under Reexamination Krüger, Marc	
	Examiner JIMMY CHOU	Art Unit 3761	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7461584-B2	12-2008	Blanc; Jean-Pierre	A47J31/3633	99/289R
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	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.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/670,765	Krüger, Marc
	Examiner	**Art Unit**
	JIMMY CHOU	3761

CPC								
Symbol							**Type**	**Version**
B65D	/	85	/	8061			F	2020-05-01
A47J	/	31	/	4492			I	2013-01-01
B65D	/	85	/	8058			I	2020-05-01
B65D	/	85	/	8043			I	2013-01-01
A47J	/	31	/	407			I	2013-01-01
A47J	/	31	/	3628			I	2013-01-01
A47J	/	31	/	3638			I	2013-01-01
B65D	/	65	/	466			A	2013-01-01
B65D	/	2203	/	06			A	2013-01-01
B65D	/	2203	/	10			A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	12	
/JIMMY CHOU/ Primary Examiner, Art Unit 3761	03 August 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20220803

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 384 of 532

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/670,765	Krüger, Marc
	Examiner	**Art Unit**
	JIMMY CHOU	3761

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65D	/	85	/	804

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
426	115

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
99	295					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	12	
/JIMMY CHOU/ Primary Examiner, Art Unit 3761	03 August 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20220803

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 385 of 532

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/670,765	Krüger, Marc
	Examiner	**Art Unit**
	JIMMY CHOU	3761

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
-	1	1	10	10	19										
-	2	2	11	11	20										
-	3	3	12	12	21										
-	4	4	13												
-	5	5	14												
-	6	6	15												
-	7	7	16												
-	8	8	17												
-	9	9	18												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	12	
/JIMMY CHOU/ Primary Examiner, Art Unit 3761	03 August 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/670,765	Krüger, Marc
	Examiner	Art Unit
	JIMMY CHOU	3761

CPC - Searched*		
Symbol	Date	Examiner
B65D85/8043, A47J31/4492, B65D65/466, B65D2203/06, B65D2203/10	04/11/2022	CHOU

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
99	286,289R,295,302R,307,323	04/11/2022	CHOU

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
inventor name search	04/11/2022	CHOU
updated search	08/03/2022	CHOU

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	see attached for interference search	08/03/2022	CHOU

/JIMMY CHOU/ Primary Examiner, Art Unit 3761	

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 387 of 532

Bibliographic Data

Application No: 17/670,765

Foreign Priority claimed: (•) Yes ( ) No

35 USC 119 (a-d) conditions met: [✓] Yes [ ] No [ ] Met After Allowance

Verified and Acknowledged: /JIMMY CHOU/ (Examiner's Signature) JC (Initials)

Title: PORTION CAPSULE HAVING AN IDENTIFIER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/14/2022	426	3761	1859.029USC14
RULE			

APPLICANTS

K-FEE SYSTEM GMBH, Bergisch Gladbach, GERMANY

INVENTORS

Marc Krüger, Bergisch Gladbach, GERMANY

CONTINUING DATA

This application is a CON of 17670629 02/14/2022

17670629 is a CON of 17547363 12/10/2021

17547363 is a CON of 15646980 07/11/2017

15646980 is a DIV of 15211823 07/15/2016ABN

15211823 is a DIV of 13744623 01/18/2013ABN

13744623 is a CON of PCT/EP2011/003677 07/22/2011

FOREIGN APPLICATIONS

GERMANY DE10 2010 031 988.0 07/22/2010

GERMANY DE10 2010 044 251.8 09/02/2010

GERMANY DE10 2011 010 534.4 02/07/2011

IF REQUIRED, FOREIGN LICENSE GRANTED**

02/17/2022

STATE OR COUNTRY

GERMANY

ADDRESS

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

UNITED STATES

FILING FEE RECEIVED

$6,160

Filed via EFS @ USPTO.gov on July 27, 2022
Practitioner's Docket No. 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012

For: Portion Capsule Having An Identifier

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
AFTER FIRST OFFICE ACTION AND BEFORE NOTICE OF ALLOWANCE
STATEMENT UNDER 37 C.F.R. §1.97(E)(2)

Applicant submits this statement in accordance with its duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Nothing in this Submission or in any other Submission should be regarded as a disclaimer of claim scope. No statement by Applicant or related companies in any foreign proceeding should be regarded as a disclaimer or other surrender of claim scope in this proceeding.

Because the various foreign proceedings referred to in this and previous Submission involve different claims and context than those pending in this application, nothing cited in this Submission should constitute an acquiescence or adoption of any position advanced in foreign proceedings.

Copies of foreign patent documents and non-patent literature, together with a listing on form PTO/SB/08a are submitted herewith.

E(2) Certification: 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 undersigned after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

Summary Of Foreign Proceedings

Applicant has been forthcoming in advising the various USPTO Examiners examining the patent

applications in this family that Applicant and an Adverse Party[1] are involved in foreign adversarial proceedings in which the Adverse Party is relying on positions that, upon inquiry, are believed to be consistent with those made in previously cited Information Disclosure Statements, including European opposition proceedings and as to which we update the Office to advise that the Adverse Party filed an appeal from the decision of the European Patent Office Opposition Decision that upheld the European patent.

The Undersigned has also been advised that pending in France and Switzerland are nullity proceedings attacking the validity of the opposed patents in those countries. The Adverse Party has also filed an opposition to a Japanese patent. As understood by the Undersigned, the Adverse party has advanced arguments and grounds in the French, Swiss, and Japanese proceedings that are similar to the prior arguments, papers, and oppositions by that Party, which have been cited to the USPTO in prior Information Disclosure Statements (See e.g., Submission dated February 14, 2022 and May 25, 2022). There are also non-infringement proceedings in Europe that are being defended by the Adverse Party based on similar positions taken in the United States that the accused products do not have a barcode as that term was construed.

Accompanying this Submission at Cite No. 14 is a filing by Nestle Nespresso SA dated June 13, 2022 referring to a contingent counterclaim in Switzerland. In that Submission, there is reference to additional potential prior art on pages 16 and 44-47 of the English translation (capsules for the classic Nespresso System Special Edition). As understood, Nestle Nespresso did not allege that the lines on those capsules perform any function in relation to a beverage making machine.

To the extent that the Examiner desires further information on any of the adversarial proceedings, the Examiner is kindly requested to inform the Undersigned.

Foreign Vindication Proceedings

An Adverse Party has filed proceedings in Germany and Switzerland in which, as understood by the undersigned, allege the Asserted Patents were not conceived by the named inventor, Marc Krüger, and instead were derived from others, including without limitation by individuals at Nespresso's affiliates and/or individuals at Eugster/Frismag AG. To the extent that the Examiner desires further information on any of the adversarial proceedings, the Examiner is kindly requested to inform the Undersigned.

Claim Construction Order

[1] As the Office will be able to glean from the submissions, the Adverse Party is one or more companies having Nespresso and/or Nestle in its name.

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Nespresso USA, Inc. Ex. 1002
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/ Page 391 of 532

It will be observed from the Claim Construction Order cited in a previous Information Disclosure Statement that certain aspects of foreign proceedings are being relied upon by the Adverse Party in the Capsule Litigation. For purposes of the present examination, Applicant desires that prosecution be conducted providing the broadest reasonable meaning of the claim terms without limiting those claim terms to any features allegedly distinguished in foreign proceedings, and Applicant makes no reliance on any arguments made by representatives of Applicant in any such foreign proceedings. To the extent that the Examiner desires further information, the Examiner is kindly requested to inform the Undersigned.

Preliminary Invalidity Contentions

Preliminary Invalidity Contentions have been filed by the Adverse Party against Applicant's commonly-owned US Patent 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx). The Preliminary Invalidity Contentions allege invalidity of US Patent 11,254,491 under 35 U.S.C. § 102, 103, and 112. The Exhibits and Claim Charts referred to in the Preliminary Invalidity Contentions are included herewith. Moreover, pages 2 and 19-28, for example, relate to issues addressed in the Interview dated June 28, 2022 and as discussed in the Interview Summary and Applicant's response to the Office Acton filed on July 15, 2022.

Request For Patent Cancellation of Korean Patent No 10-2318476, mailed June 20, 2022 (hereafter "Request")

A Request has been filed in the Korean Intellectual Property Office by the Adverse party to Cancel Korean Patent No 10-2318476. Upon inquiry, it is understood that the proceeding advances arguments and grounds that are consistent with the prior arguments, papers, and oppositions, which have been cited to the Office in prior Information Disclosure Statements. Request appears to rely on references including: WO 2005/079638 A1, US 2010/0078480 A1, JP 2003-235733, WO 2005/044067 A1, US 2002/0048621 A1, KR 200435370, WO 01/99047 A1, US 6,645,537 B2, EP 1849718 A1, WO 2010/041179 A1, US 2006/0233921 A1. To the extent that the Examiner desires further information on this proceeding, the Examiner is kindly requested to inform the Undersigned.

Notification Of Reasons for Revocation Of Japanese Patent No. 694164, dated June 22, 2022 (hereafter "Notification")

A Notification has been issued by the Japanese Patent Office against Japanese Patent No. 6941640. Upon inquiry, it is understood that the proceeding advances arguments and grounds that are consistent with the prior arguments, papers, and oppositions, which have been cited to the Office in prior

Information Disclosure Statements. The JP Notification relies on JP 2013-526316, which is understood to be an equivalent of WO2011141532A and US 2013/0064937 A1; WO 02/28241 A; US 2010/0078480; WO 2010/026053 A1; EP 1722398 A1; EP 0455337 A1; US 5,285,041; WO 01/99047 A; WO 01/60712; and JP 2013-530798. To the extent that the Examiner desires further information on this proceeding, the Examiner is kindly requested to inform the Undersigned.

Date: July 27, 2022

/Paul J. Palinski/

Paul J. Palinski

Reg. No. 71,080
Attorney for Applicant
The Dobrusin Law Firm, P.C.
29 W. Lawrence Street - Suite 210
Pontiac, MI 48342
(248) 292-2920

Customer No. 25215

IPR2024-00304
Nespresso USA, Inc. Ex. 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

U.S. PATENTS					
Examiner Initials*	Cite No.	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document
	1.	726,793		04/28/1903	Bezzera
	2.	3,387,553		10/24/1965	Tavera
	3.	3,437,253		04/08/1969	Davis et al.
	4.	5,261,558		11/16/1993	Claydon
	5.	6,142,063		11/07/2000	Beaulieu et al.

U.S. PATENT APPLICATION PUBLICATIONS					
Examiner Initials*	Cite No.	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document
	1.	2002/0078831	A1	06/27/2002	Cai
	2.	2004/0112222	A1	06/17/2004	Fischer
	3.	2006/0233921	A1	10/19/2006	Mock et al.
	4.	2006/0230941	A1	10/19/2006	Ryser et al.
	5.	2008/0105131	A1	05/08/2008	Castellani
	6.	2009/0205747	A1	08/20/2009	Lillard, Jr.
	7.	2011/0265659	A1	11/03/2011	Giua
	8.	2012/0269933	A1	10/25/2012	Rapparini
	9.	2013/0099597	A1	04/25/2013	Perentes

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	T[5]
	1.	2145759	EP	A1	01/20/2010	Geerts et al.	
	2.	2001/060712	WO	A1	08/23/2001	Sweeney et al.	
	3.	2010/034663	WO	A1	04/01/2010	Ozanne et al.	
	4.	2010/099806	WO	A1	09/10/2010	Rossi	

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1.	Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	2.	Appendix A - Obviousness Chart for U.S. Patent No. 11,254,491	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

		referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	3.	Exhibit A-1 Invalidity of U.S. Patent No. 11,254,491 in view of Denisart, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	4.	Exhibit A-2 Invalidity of U.S. Patent No. 11,254,491 in view of Giua, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	5.	Exhibit A-3 Invalidity of U.S. Patent No. 11,254,491 in view of Jarisch, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	6.	Exhibit A-4 Invalidity of U.S. Patent No. 11,254,491 in view of Jarisch 929, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	7.	Exhibit A-5 Invalidity of U.S. Patent No. 11,254,491 in view of Mahlich, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	8.	Exhibit A-6 Invalidity of U.S. Patent No. 11,254,491 in view of Panesar, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	9.	Exhibit A-7 Invalidity of U.S. Patent No. 11,254,491 in view of Rossi, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	10.	Exhibit A-8 Invalidity of U.S. Patent No. 11,254,491 in view of Ruchonnet, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	11.	Exhibit A-9 Invalidity of U.S. Patent No. 11,254,491 in view of Yoakim, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	12.	Espresso Coffee, The Science of Quality, Second Edition, Edited By Andrew Illy and Rinantonio Viani, referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S.	

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Nespresso USA, Inc. Ex. 1002

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

		Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	13.	11 - Packaging and the Shelf Like of Coffee, ISBN 9781420078442, Food Packaging and Shelf Life: A Practical Guide (2009), referred to in Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	14.	Nestle Nespresso SA reply dated June 13, 2022 to Defendant K-fee System GmbH contingent counterclaim	X
	15.	Applicant statements included in the IDS Transmittal Letter filed on July 27, 2022 relating to: Summary of Foreign Proceedings, Foreign Vindication Proceedings, Claim Construction Order, Preliminary Invalidity Contentions, Request For Patent Cancellation of Korean Patent No 10-2318476, Notification Of Reasons for Revocation Of Japanese Patent No. 694164	

EXAMINER SIGNATURE			
Examiner Signature	/JIMMY CHOU/	Date Considered	08/03/2022
*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.			

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/ Page 396 of 532

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	2272	99/286,289R,295,302R,307,323.ccls.	(USPAT)	ADJ	ON	ON	2013/04/30 02:51 PM
L2	206	99/286,289R,295,302R,307,323.ccls. and (capsule)	(USPAT)	ADJ	ON	ON	2013/04/30 02:52 PM
L3	466	99/286,289R,295,302R,307,323.ccls. and (capsule)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2013/04/30 02:52 PM
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L77	982	426/77,78,79,112,433,115.ccls. and (capsule or cartridge)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2014/11/21 03:03 AM
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L81	28	((Guido) near2 (Brandt)).INV.	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2014/11/21 02:47 PM
L82	41	((Ralf) near2 (Kamerbeek)).INV.	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2014/11/21 03:39 PM
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L96	135	A47J31/42.cpc. and ((k adj3 cup) or cartridge or capsule)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2015/03/09 02:37 PM
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L121	18	EP "0507905"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2016/05/12 11:04 AM

L122	1960	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge or tray)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2016/05/12 08:31 PM
L123	800	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge or tray) and (pierc$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2016/05/12 08:31 PM
L124	0	A47J 31/42.cpc. and (capsule or cartridge) and (capsule or cartridge or tray) and (pierc$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2016/05/12 08:32 PM
L125	0	A47J 31/42.cpc. and (capsule or cartridge) and (pierc$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2016/05/12 08:32 PM
L126	0	A47J 31/42.cpc. and (capsule or cartridge)	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2016/05/12 08:32 PM
L127	15	JP "2000355375"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 02:31 PM
L128	1	JP "06015879"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 02:34 PM
L129	1	JP adj "06015879"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 02:38 PM
L130	0	JP adj5 "015879"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 02:38 PM
L131	1	JP near "015879"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 02:38 PM
L132	6230	B65D85/8043.cpc. and (capsule or cartridge)	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 03:15 PM
L133	14	B65D85/8043.cpc. and (capsule or cartridge) and ((pre adj3 cut$4) or (pre adj3 open$2))	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 03:16 PM
L134	537	B65D85/8043.cpc. and (capsule or cartridge) and (perforat$3)	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2017/01/05 03:21 PM
L135	790	426/115,425.ccls. and (capsule or cartridge)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2018/01/05 02:24 PM
L136	1151	426/79,82,112,115,425,	(US-PGPUB; USPAT;	ADJ	ON	ON	2018/01/05

		435.ccls. and (capsule or cartridge)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:27 PM
L137	1	"14994648"	(US-PGPUB; USPAT)	ADJ	ON	ON	2018/01/07 03:49 PM
L138	16	WO "2006126230"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2018/01/08 11:04 AM
L139	7	"7631594"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2018/01/08 12:57 PM
L140	1	"14342722"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2018/01/08 01:40 PM
L143	33	99/286,289R,295,302R, 307,323.ccls. and ((capsule) and (piercing)).clm.	(USPAT)	ADJ	ON	ON	2018/10/19 10:49 AM
L144	2	"13326291"	(US-PGPUB; USPAT)	AND	ON	ON	2018/10/19 11:13 AM
L147	0	"15774789"	(USPAT)	OR	OFF	OFF	2019/02/15 02:38 PM
L148	1	"15774789"	(US-PGPUB; USPAT)	AND	OFF	OFF	2019/02/15 02:38 PM
L149	8	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge or tray) and ((damping or valve) near (control$4 adj5 flow adj5 rate))	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2019/02/15 03:13 PM
L150	3	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge or tray) near (control$4 adj5 flow adj5 rate)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2019/02/15 03:16 PM
L151	3	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge) near (control$4 adj5 flow adj5 rate)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2019/02/15 03:16 PM
L152	37	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge) same(control$4 adj5 flow adj5 rate)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2019/02/15 03:22 PM
L153	37	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge) same (control$4 adj5 flow adj5 rate)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2019/02/15 03:22 PM

L154	10	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge) and ((hermetically or airtight) near (lid or cover))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/15 05:08 PM
L155	7	"2017073153"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/15 09:19 PM
L156	0	"2017073153"	(US-PGPUB; USPAT)	ADJ	ON	ON	2019/02/15 09:19 PM
L157	0	"2017073153"	(US-PGPUB; USPAT)	ADJ	ON	ON	2019/02/15 09:20 PM
L158	0	JP "2017512535"	(US-PGPUB; USPAT)	ADJ	ON	ON	2019/02/15 09:20 PM
L159	3	JP "2017512535"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/15 09:20 PM
L160	15	WO "2015136433"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/15 09:22 PM
L161	2	"20070144355"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/15 09:26 PM
L162	3	"15774789"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/16 05:42 PM
L163	1	"20070144355"	(US-PGPUB; USPAT)	AND	ON	ON	2019/02/16 06:20 PM
L164	56	99/286,289R,295,302R, 307,323.ccls. and ((capsule or cartridge) near (deform or deformable))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/16 07:24 PM
L165	15	WO "2015136433"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2019/02/16 08:06 PM
L166	1004	A47J31/0668.cpc. and (capsule or cartridge)	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2019/02/16 08:19 PM
L167	1083	A47J31/3623.cpc. and (capsule or cartridge)	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2019/02/16 08:19 PM
L168	9008	B65D85/8043.cpc. and (capsule or cartridge)	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2019/02/16 08:19 PM
L169	240	426/77,78,79,112,433,115.ccls. and (capsule or cartridge) and (injecting)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2019/02/16 08:43 PM

L170	8	"8161866"	(USPAT)	AND	OFF	OFF	2021/02/10 02:47 PM
L171	19	"8202560"	(USPAT)	AND	OFF	OFF	2021/02/10 02:47 PM
L172	0	"15531329"	(USPAT)	AND	OFF	OFF	2021/02/10 02:48 PM
L173	2	"15531329"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/02/10 02:48 PM
L174	1	"20200051831"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/02/10 03:01 PM
L175	40	((("WONG") near3 ("Kon") near3 ("Euan") near3 ("Gerard"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/05/13 02:19 PM
L176	14	EP "1775234"	(USPAT)	ADJ	ON	ON	2021/05/13 05:06 PM
L177	42	EP "1775234"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/13 05:06 PM
L178	29	"8220382"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/13 05:15 PM
L179	116	("20030172813" | "20040045443" | "20040188459" | "20050051478" | "20050205601" | "20050287251" | "20060019000" | "20060110507" | "20060174773" | "20060292012" | "20070068395" | "20070084352" | "20070186784" | "20070224319" | "20080095904" | "20080105131" | "20080115674" | "20080134902" | "20080216666" | "20080245236" | "20080317931" | "20090007794" | "20090007796" | "20090017177" | "20090126577" | "20090158938" | "20090205503" | "20090255410" | "20090280219" | "20100024658" | "20100037779" | "20100043644" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/05/13 05:22 PM

		"20100043645" | "20100043646" | "20100064899" | "20100077928" | "20100101428" | "20100129512" | "20100154647" | "20100154651" | "20100186599" | "20100203208" | "20100288131" | "20100303964" | "20110030563" | "3615708" | "4321139" | "4417504" | "4846052" | "4859337" | "5325765" | "5327815" | "5398595" | "5402707" | "5649472" | "5762987" | "5826492" | "5840189" | "5897899" | "6079315" | "6082247" | "6142063" | "6182554" | "6440256" | "6589577" | "6606938" | "6607762" | "6644173" | "6645537" | "6655260" | "6658989" | "6666130" | "6672200" | "6708600" | "7165488" | "7279188" | "7347138" | "7360418" | "7377162" | "7398726" | "7490542" | "7513192" | "7523695" | "7543527" | "7552672" | "7604826" | "7624673" | "7640845" | "7703381" | "7815953" | "7836819" | "7854192" | "7856920" | "7856921" | "7930972" | "7946217" | "7993691" | "8147887" | "8161866" | "8161868" | "8202560" | "8220382" | "8304006" | "D408679" | "D452433" | "D452434" | "D462865" | "D474110" | "D474111" | "D489215").PN. OR ("D502362" | "D513572" | "D544299" | "D554299").PN. OR ("8846120").URPN.				
L180	4062133	WO "2008132571"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/05/13 05:50 PM
L181	17497581	WO "2008132571"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/05/13 05:50 PM

L182	104	WO "2008132571"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/05/13 05:50 PM
L183	104	WO "2008132571"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/14 01:34 AM
L184	236	"6079315"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/14 01:44 AM
L185	14	"8220382"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/14 04:27 PM
L186	2	"20080216666"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/14 04:32 PM
L187	203	"6079315"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/14 04:55 PM
L188	14	WO "2008132571"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/14 04:56 PM
L189	104	WO "2008132571"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/05/14 04:56 PM
L190	169	(US-0007794-$ | US-0007796-$ | US-0017177-$ | US-0019000-$ | US-0024658-$ | US-0030563-$ | US-0037779-$ | US-0043644-$ | US-0043645-$ | US-0043646-$ | US-0045443-$ | US-0051478-$ | US-0064899-$ | US-0068395-$ | US-0077928-$ | US-0084352-$ | US-0095904-$ | US-0101428-$ | US-0105131-$ | US-0110507-$ | US-0115317-$ | US-0115674-$ | US-0125256-$ | US-0126577-$ | US-0129512-$ | US-0134902-$ | US-0154647-$ | US-0154651-$ | US-0158938-$ | US-0172813-$ | US-0174773-$ | US-	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/14 09:10 PM

		0186599-$ | US- 0186784-$ | US- 0188459-$ | US- 0203208-$ | US- 0205503-$ | US- 0205601-$ | US- 0216666-$ | US- 0224319-$ | US- 0245236-$ | US- 0255410-$ | US- 0258210-$ | US- 0280219-$ | US- 0287251-$ | US- 0288131-$ | US- 0292012-$ | US- 0303964-$ | US- 0317931-$ | US- 1125681-$ | US- 1612831-$ | US- 2968560-$ | US- 20030172813-$ | US- 20040045443-$ | US- 20040115317-$ | US- 20040188459-$ | US- 20050051478-$ | US- 20050205601-$ | US- 20050287251-$ | US- 20060019000-$ | US- 20060110507-$ | US- 20060174773-$ | US- 20060292012-$ | US- 20070068395-$ | US- 20070084352-$ | US- 20070186784-$ | US- 20070224319-$ | US- 20080095904-$ | US- 20080105131-$ | US- 20080115674-$ | US- 20080125256-$ | US- 20080134902-$ | US- 20080216666-$ | US- 20080245236-$ | US- 20080317931-$ | US- 20090007794-$ | US- 20090007796-$ | US- 20090017177-$ | US- 20090126577-$ | US- 20090158938-$ | US- 20090205503-$ | US- 20090255410-$ | US- 20090280219-$ | US- 20100024658-$ | US- 20100037779-$ | US- 20100043644-$ | US- 20100043645-$ | US- 20100043646-$ | US- 20100064899-$ | US- 20100077928-$ | US-					

		20100101428-$ | US- 20100129512-$ | US- 20100154647-$ | US- 20100154651-$ | US- 20100186599-$ | US- 20100203208-$ | US- 20100288131-$ | US- 20100303964-$ | US- 20110030563-$ | US- 20120258210-$ | US- 3615708-$ | US- 4136202-$ | US- 4321139-$ | US- 4417504-$ | US- 4846052-$ | US- 4859337-$ | US- 5325765-$ | US- 5327815-$ | US- 5398595-$ | US- 5402707-$ | US- 5649472-$ | US- 5762987-$ | US- 5826492-$ | US- 5840189-$ | US- 5897899-$ | US- 6079315-$ | US- 6082247-$ | US- 6142063-$ | US- 6182554-$ | US- 6440256-$ | US- 6589577-$ | US- 6606938-$ | US- 6607762-$ | US- 6644173-$ | US- 6645537-$ | US- 6655260-$ | US- 6658989-$ | US- 6666130-$ | US- 6672200-$ | US- 6708600-$ | US- 7165488-$ | US- 7279188-$ | US- 7347138-$ | US- 7360418-$ | US- 7377162-$ | US- 7398726-$ | US- 7490542-$ | US- 7513192-$ | US- 7523695-$ | US- 7543527-$ | US- 7552672-$ | US- 7604826-$ | US- 7624673-$ | US- 7640845-$ | US- 7703381-$ | US- 7836819-$ | US- 7854192-$ | US- 7856920-$ | US-					

		7856921-$ | US-7930972-$ | US-7946217-$ | US-7993691-$ | US-8147887-$ | US-8161866-$ | US-8161868-$ | US-8202560-$ | US-8220382-$ | US-8304006-$ | US-8322271-$ | US-D408679-$ | US-D452433-$ | US-D452434-$ | US-D462865-$ | US-D474110-$ | US-D474111-$ | US-D489215-$ | US-D502362-$ | US-D513572-$ | US-D544299-$ | US-D554299-$).DID.					
L191	81	(BI-0507905-$ | AI-02081337-$ | AI-20030172813-$ | AI-20040045443-$ | AI-20040115317-$ | AI-20040188459-$ | AI-20050051478-$ | AI-20050205601-$ | AI-20050287251-$ | AI-20060019000-$ | AI-20060110507-$ | AI-20060174773-$ | AI-20060292012-$ | AI-2006045537-$ | AI-20070068395-$ | AI-20070084352-$ | AI-20070186784-$ | AI-20070224319-$ | AI-2007114685-$ | AI-20080095904-$ | AI-20080105131-$ | AI-20080115674-$ | AI-20080134902-$ | AI-20080216666-$ | AI-20080245236-$ | AI-20080317931-$ | AI-2008117329-$ | AI-2008125256-$ | AI-2008132571-$ | AI-20090007794-$ | AI-20090007796-$ | AI-20090017177-$ | AI-20090126577-$ | AI-20090158938-$ | AI-20090205503-$ | AI-20090255410-$ | AI-	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/05/14 09:22 PM

		20090280219-$ | AI-20100024658-$ | AI-20100037779-$ | AI-20100043644-$ | AI-20100043645-$ | AI-20100043646-$ | AI-20100064899-$ | AI-20100077928-$ | AI-20100101428-$ | AI-20100129512-$ | AI-20100154647-$ | AI-20100154651-$ | AI-20100186599-$ | AI-20100203208-$ | AI-20100288131-$ | AI-20100303964-$ | AI-20110030563-$ | BI-6440256-$ | CN-101048095-$ | CN-101309840-$ | CN-101410041-$ | CN-101421172-$ | CN-1125681-$ | CN-1612831-$ | EP-0507905-$ | EP-1775234-$ | EP-2298671-$ | EP-2367736-$ | GB-1256247-$ | JP-01310612-$ | JP-02231043-$ | JP-06015879-$ | JP-2000336570-$ | JP-2000355375-$ | JP-2004534697-$ | JP-2005211659-$ | JP-62188626-$ | JP-63047890-$ | NL-2009050816-$ | WO-02081337-$ | WO-03059778-$ | WO-2004064582-$ | WO-2006030461-$ | WO-2006045537-$ | WO-2007114685-$ | WO-2008078990-$ | WO-2008117329-$ | WO-2008125256-$ | WO-2008132571-$ | WO-2009006379-$).DID.					
L192	10	RU "2312803"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/05/14 09:37 PM
L193	0	99/286,289R,295,302R,307,323.ccls. and (capsule) and (piercing	(US-PGPUB; USPAT)	AND	ON	ON	2021/05/14 10:39 PM

		and pentrat$3)					
L194	1205	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge) and (coffee)	(US-PGPUB; USPAT)	AND	ON	ON	2021/05/14 10:40 PM
L195	766	L194 and (piercing or pierce or penetrat$3)	(US-PGPUB; USPAT)	AND	ON	ON	2021/05/14 10:41 PM
L196	2465	A47J31/3695.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L197	1292	A47J31/3676.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L198	915	A47J31/368.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L199	466	A47J31/3685.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L200	1788	B65D65/466.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L201	119	B65D77/32.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L202	134	B65D77/38.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L203	11997	B65D85/8043.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L204	1471	B65D85/8046.cpc. and ((capsule or cartridge) and (beverage or coffee))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:46 PM
L205	2516	L203 and (pierc$3 or penetrat$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 10:49 PM
L206	9	"14904186"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/05/14 11:29 PM
L207	2	"20060236871"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	AND	OFF	OFF	2021/05/15 12:40 AM

			JPO; DERWENT; IBM_TDB)				
L208	1	"16355174"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/15 01:06 AM
L209	0	WO "2008125526"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/05/15 01:44 AM
L210	0	WO "2008125526"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/05/15 01:44 AM
L211	50	WO "2008125256"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/15 01:45 AM
L212	91	WO "2008132571"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/15 01:46 AM
L213	77	WO "2008132571"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/05/15 01:47 AM
L214	2	("2017/0275090").URPN.	(USPAT)	OR	OFF	OFF	2021/08/21 01:17 AM
L215	1701	"99".clas. and (pouch or pack or bag or sachet)	(USPAT)	OR	OFF	OFF	2021/08/21 01:32 AM
L216	501	L215 and (inlet and outlet)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/08/21 01:33 AM
L217	274	L216 and (film or flexible)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/08/21 01:36 AM
L218	515	"426".clas. and (pouch or pack or bag or sachet) and (insert)	(USPAT)	OR	OFF	OFF	2021/08/21 01:42 AM
L219	55	(US-20090280219-$ or US-20090017177-$ or US-20070224319-$ or US-20060110507-$ or US-20010052294-$ or US-20120180670-$).did. or (US-8202560-$ or US-7798055-$ or US-5327815-$ or US-5398595-$ or US-5402707-$ or US-5656316-$ or US-7946217-$ or US-7856921-$ or US-7318372-$ or US-7279188-$ or US-6026732-$ or US-5897899-$ or US-5398596-$ or US-5325765-$ or US-5197374-$ or US-4136202-$ or US-	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/10/06 03:49 PM

		5242702-$ or US-6832542-$ or US-9179797-$).did. or (FR-2617389-$ or WO-2005090196-$).did. or (WO-9311841-$ or WO-2005090196-$).did.					
L220	27	"8720320"	(USPAT)	OR	OFF	OFF	2021/10/06 07:39 PM
L221	5	"9795243"	(USPAT)	OR	OFF	OFF	2021/10/06 07:46 PM
L222	2	"10865039"	(USPAT)	OR	OFF	OFF	2021/10/06 07:52 PM
L223	1	"20030222089"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 12:26 AM
L224	1	"20060137532"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 12:27 AM
L225	1	"16342221"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:04 AM
L226	97	"99".clas. and (coffee near (stand or support))	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:09 AM
L227	1	"20040231522"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:50 AM
L228	14	"5055311"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:51 AM
L229	28	"4811657"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:52 AM
L230	35	"4759274"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:52 AM
L231	58	A47J36/24.cpc. and (stand)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:55 AM
L232	1	"20050079339"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 10:58 AM
L233	15	("0076639" | "0931497" | "D365724").PN. OR ("5788196").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:01 AM
L234	3	("D488950").URPN.	(USPAT)	OR	OFF	OFF	2021/10/07 11:02 AM
L235	44	("20090095169" | "20110303104" | "4873921" | "4996410" | "6526875" | "D035501" | "D038924" | "D041716" | "D045601" | "D088156" | "D150157" | "D169166" | "D181298" | "D225169" | "D229733" | "D278403" | "D318975" | "D318976" | "D365724" | "D369507" | "D423278" | "D433272" | "D434268"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:02 AM

		| "D434594" | "D437181" | "D488343" | "D488950" | "D503068" | "D625548" | "D645297" | "D645298" | "D781647" | "D845060").PN. OR ("D891851").URPN.					
L236	62	("1701989" | "20030192525" | "20050076795" | "20050150395" | "20050167381" | "20060090744" | "2731539" | "3361126" | "3377942" | "4122764" | "4176593" | "4759276" | "4838446" | "4873921" | "4899722" | "4908487" | "4920873" | "5119800" | "5203257" | "5211157" | "5241900" | "5381729" | "5453596" | "5467697" | "5819640" | "5977521" | "5979428" | "6157007" | "6234068" | "6468072" | "6593551" | "6872920" | "6941943" | "7090094" | "7708006" | "D146832" | "D168905" | "D181298" | "D192900" | "D213717" | "D401805" | "D434268" | "D468580" | "D488669" | "D548001" | "D626377").PN. OR ("D645297").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:07 AM
L237	40	("3960134" | "4722322" | "4726350" | "4759339" | "4776318" | "5284126" | "5329917" | "5456162" | "5542347" | "5682872" | "5842463").PN. OR ("5979428").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:09 AM
L238	63	("1701989" | "20030192525" | "20050076795" | "20050150395" | "20050167381" | "20060090744" | "2731539" | "3361126" | "3377942" | "4122764" | "4176593" | "4759276" | "4838446" | "4873921" | "4899722" | "4908487" | "4920873" | "5119800" | "5203257" | "5211157" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:10 AM

		"5241900" | "5381729" | "5453596" | "5467697" | "5819640" | "5977521" | "5979428" | "6157007" | "6234068" | "6468072" | "6593551" | "6872920" | "6941943" | "7090094" | "7708006" | "D146832" | "D168905" | "D181298" | "D192900" | "D213717" | "D401805" | "D434268" | "D468580" | "D488669" | "D548001" | "D626377").PN. OR ("D645298").URPN.					
L239	14	("1582541" | "1761137").PN. OR ("4838446").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:14 AM
L240	12	"5788196"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:16 AM
L241	35	"4759274"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:16 AM
L242	2	"20090095169"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:17 AM
L243	37	"5467697"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:18 AM
L244	40	("1547200" | "3361126" | "3364844" | "4920873" | "5119800" | "5287800" | "5293859").PN. OR ("5467697").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:19 AM
L245	12	("D181298").URPN.	(USPAT)	OR	OFF	OFF	2021/10/07 11:22 AM
L246	62	("1701989" | "20030192525" | "20050076795" | "20050150395" | "20050167381" | "20060090744" | "2731539" | "3361126" | "3377942" | "4122764" | "4176593" | "4759276" | "4838446" | "4873921" | "4899722" | "4908487" | "4920873" | "5119800" | "5203257" | "5211157" | "5241900" | "5381729" | "5453596" | "5467697" | "5819640" | "5977521" | "5979428" | "6157007" | "6234068" | "6468072" | "6593551" | "6872920" | "6941943" | "7090094" | "7708006" | "D146832" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:23 AM

		"D168905" | "D181298" | "D192900" | "D213717" | "D401805" | "D434268" | "D468580" | "D488669" | "D548001" | "D626377").PN. OR ("D645297").URPN.					
L247	40	("0399803" | "1063188" | "1189035" | "1345477" | "1604058" | "2154963" | "2325683" | "2325684" | "2906193" | "3107600" | "3153377" | "4074621").PN. OR ("4226175").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:29 AM
L248	2	"20100175563"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 11:39 AM
L249	7	("2010/0175563").URPN.	(USPAT)	OR	OFF	OFF	2021/10/07 11:40 AM
L250	22	"219".clas. and (food near stand)	(USPAT)	OR	OFF	OFF	2021/10/07 11:42 AM
L251	25	"219".clas. and (food near stand)	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07 11:43 AM
L252	0	"99".clas. and (Chafing near Warmer)	(USPAT)	OR	OFF	OFF	2021/10/07 11:46 AM
L253	5	(Chafing near Warmer)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:46 AM
L254	46	"99".clas. and (heat$3 near stand)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:46 AM
L255	0	(circular near heating near stand)	(USPAT)	OR	OFF	OFF	2021/10/07 11:49 AM
L256	0	(circular near heating near stand)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:49 AM
L257	5	"6412448"	(USPAT)	OR	OFF	OFF	2021/10/07 11:51 AM
L258	25	"4759274"	(USPAT)	OR	OFF	OFF	2021/10/07 11:52 AM
L259	32	"5467697"	(USPAT)	OR	OFF	OFF	2021/10/07 11:53 AM
L260	0	"20140311356"	(USPAT)	OR	OFF	OFF	2021/10/07 11:53 AM
L261	1	"20140311356"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:53 AM
L262	5	"219".clas. and (kettle near2 stand)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:56 AM
L263	4	"99".clas. and (kettle near2 stand)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:57 AM
L264	8	"99".clas. and (coffee near stand) and heat$3	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 11:59 AM
L265	0	"99".clas. and (coffee near rack) and heat$3	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 12:00 PM

L266	8	"99".clas. and (beverage near stand) and heat$3	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 12:00 PM
L267	1829945	EP "1500357"	(USPAT)	OR	OFF	OFF	2021/10/07 12:26 PM
L268	77	EP "1500357"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/10/07 12:32 PM
L269	88	"7946217"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/10/07 12:43 PM
L270	95	("20020023543" | "20040112223" | "20050034604" | "2778739" | "3607297" | "5388502" | "5398595" | "5472719" | "5598764" | "5762987" | "5794519" | "6182554" | "6752070" | "7024985").PN. OR ("7946217").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 12:43 PM
L271	9	"9795243"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 01:12 PM
L272	206	("20010043954" | "20020005367" | "20020023543" | "20020035929" | "20020048621" | "20020059870" | "20020078831" | "20020148356" | "20030006185" | "20030041739" | "20030167928" | "20030200872" | "20030213370" | "20030222089" | "20030226449" | "20040020368" | "20040020922" | "20040118290" | "20040182247" | "20040244600" | "20050051478" | "20050160918" | "20050172819" | "20050236323" | "20050257695" | "20050266122" | "20050284303" | "20060019000" | "20060107841" | "20060159815" | "20060174769" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 01:15 PM

		"20060196364" | "20060254428" | "20070175334" | "20070277677" | "20090229471" | "20100083843" | "20100288131" | "20100303964" | "20110209623" | "20110274802" | "20120207895" | "20120207896" | "20120276264" | "20120285330" | "20120285334" | "20130017303" | "20130025466" | "20130156897" | "20140245895" | "20140287105" | "2433815" | "3022411" | "3115822" | "3120170" | "3136241" | "3199682" | "3224360" | "3316388" | "3336857" | "3384004" | "3403617" | "3405630" | "3583308" | "3592126" | "3607297" | "3695168" | "3757670" | "3844206" | "3948157" | "3958502" | "4052318" | "4086848" | "4143590" | "4164644" | "4221670" | "4253385" | "4286515" | "4510853" | "4550024" | "4603621" | "4703687" | "4704954" | "4706555" | "4721835" | "4739697" | "4832845" | "4833979" | "4858523" | "4865737" | "4967648" | "4986172" | "4998463" | "5000082" | "5012059" | "5028328" | "5046409" | "5072660" | "5123335" | "5190653" | "5233914" | "5242702" | "5265517" | "5287797" | "5325765" | "5335589" | "5343799" | "5347916").PN. OR ("5363745" | "5398596" | "5401328" | "5403605" | "5406882" | "5463932" | "5490448" | "5526733" | "5531152" | "5562941" | "5582730" | "5582731" | "5635233" | "5636563" | "5669287" | "5676041" | "5775206" | "5829340"				

		| "5840189" | "5865094" | "5870943" | "5887510" | "5897899" | "5924563" | "5932260" | "6065609" | "6136352" | "6189438" | "6227102" | "6231909" | "6250209" | "6253662" | "6263781" | "6440256" | "6589577" | "6606938" | "6607762" | "6645537" | "6655260" | "6658989" | "6662955" | "6708600" | "6727484" | "6740345" | "6758130" | "6786136" | "6832542" | "6843165" | "6904840" | "6948420" | "6968775" | "7047870" | "7081263" | "7131369" | "7320274" | "7730829" | "7946217" | "8047127" | "8087347" | "D431423" | "D454433" | "D454434" | "D474110" | "D474111" | "D502362" | "RE37173").PN. OR ("9232871").URPN.					
L273	21	"11777831"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 01:45 PM
L274	21	"11777831"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07 02:33 PM
L275	11	"11777831"	(US-PGPUB)	OR	OFF	OFF	2021/10/07 02:35 PM
L276	224	("20020023543"|"6688490"|"6832542"|"7318374"|"20020144604"|"20040182247"|"2407118"|"4152464"|"4164644"|"4510853"|"4858523"|"5072660"|"5401328"|"5932260"|"6231909"|"6662955"|"20100047419"|"20120118880"|"20140124435"|"20020148356"|"3607297"|"5242702"|"5840189"|"6948420"|"20020005367"|"20020035929"|"20020059870"|"20040118290"|"20040244600"|"20060254428"|"2433815"|"3224360"|"3695168"|"3958502"|"4052318"|"4967648"|"5012629"|"5197374"|"5287797"|"5403605"|"5463932"|"5490448"|"5870943"|"6658989"|"8087347"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07 02:51 PM

		|"D474110"|"201201487 09"|"20140004231"|"20 150050391"|"20180116 444"|"9795243"|"31996 82"|"4706555"|"649938 8"|"20030041739"|"200 30213370"|"200400203 68"|"20060019000"|"37 57670"|"4286515"|"455 0024"|"5000082"|"5028 328"|"5046409"|"51906 53"|"5343799"|"564941 2"|"6138551"|"6440256" |"6645537"|"10336531"| "20100303964"|"20110 274802"|"20120207895 "|"20120207896"|"2012 0321748"|"2012032873 9"|"20140008368"|"201 60029833"|"201702582 60"|"8047127"|"200502 66122"|"3136241"|"822 1813"|"20040005384"|" 20050172819"|"200601 07841"|"3316388"|"408 6848"|"4656932"|"4703 687"|"4739697"|"48365 92"|"4848815"|"486573 7"|"4957217"|"5406882" |"6253662"|"6727484"|" 6758130"|"6777007"|"7 081263"|"7461587"|"77 30829"|"RE37173"|"201 20308688"|"201301568 97"|"20140287105"|"20 160206133"|"20170158 422"|"9844292"|"20050 284303"|"20130017303 "|"20130095212"|"2016 0016727"|"6189438"|"6 202542"|"20010043954 "|"20050257695"|"2234 397"|"3022411"|"41435 90"|"4735719"|"483284 5"|"4986172"|"5398596" |"5562941"|"5669287"|" 5865094"|"5887510"|"5 913964"|"6263781"|"D4 31423"|"20090229471"| "10450130"|"10450131" |"20120058226"|"20050 236323"|"6740345"|"20 030167928"|"20060236 871"|"20070151460"|"2 0070277677"|"2242684 "|"2443520"|"2546874"|" 3336857"|"3384004"|"3 592126"|"4221670"|"47					

		21835"|"4833979"|"4995310"|"4998463"|"5123335"|"5171457"|"5265517"|"5347916"|"5363745"|"5635233"|"5775206"|"5895672"|"5897899"|"6227102"|"6250209"|"6273293"|"D474111"|"20120097602"|"20120276264"|"20130025466"|"20140141128"|"20150175347"|"20160068336"|"20030200872"|"20030222089"|"20070175334"|"5325765"|"20020048621"|"20020078831"|"20030006185"|"20050160918"|"3405630"|"5298267"|"5531152"|"5829340"|"6065609"|"6589577"|"6607762"|"6968775"|"7320274"|"D454433"|"20100083843"|"20100288131"|"20130055903"|"20150173555"|"20160311608"|"9149149"|"20040045443"|"20060159815"|"4800089"|"6079315"|"20030226449"|"20040020922"|"20050051478"|"20070148290"|"3403617"|"3948157"|"4603621"|"4676396"|"4704954"|"5012059"|"5097984"|"5120439"|"5233914"|"5526733"|"5582731"|"5636563"|"5924563"|"6786136"|"7377089"|"8327754"|"D502362"|"20120258210"|"20160157660").PN.					
L277	304	"6606938"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07 03:11 PM
L278	1	"09782622"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07 03:18 PM
L279	77	EP "1500357"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/10/07 03:24 PM
L280	5	(US-0336531-$ | US-0450130-$ | US-0450131-$ | US-16900462-$ | US-1844292-$ | US-6900462-$).DID.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07 03:40 PM
L281	2225	"99".clas. and (capsule	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/07

		or cartridge)					03:40 PM
L282	2225	"99".clas. and (capsule or cartridge)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 03:41 PM
L283	12	"7685931"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 04:34 PM
L284	3	"10865039"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 04:40 PM
L285	9	"9795243"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/07 04:43 PM
L286	72	("3292527" | "3374927" | "3385475" | "3470812" | "3584767" | "3628444" | "3752362" | "3754463" | "3926339" | "4259573" | "5472719" | "5709539" | "5723861" | "5773067" | "5801820" | "5897899" | "6606938" | "6810788" | "6955116").PN. OR ("7063238").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 05:00 PM
L287	1	"16900462"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 06:44 PM
L288	9	"9795243"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/07 07:32 PM
L289	41	"8720320"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/28 02:53 PM
L290	21	"11777831"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/28 03:11 PM
L291	6	"15790398"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/28 03:13 PM
L292	9	"9795243"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/10/28 03:13 PM
L293	1	"16355174"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/01 06:20 PM
L294	7	"99".clas. and (capsule) and (internal near (movable or piercing or cutting or protruding))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/01 08:13 PM
L295	0	"99".clas. and (capsule or cartridge) same (piericng)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/01 08:15 PM
L296	12	EP "2298671"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/01 08:17 PM
L297	32	EP "2298671"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/01 08:17 PM
L298	5	"20150157164"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2021/11/10 08:19 AM

			JPO; DERWENT; IBM_TDB)				
L299	7	"20140072675"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/10 08:20 AM
L300	8	"20160157660"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/10 08:20 AM
L301	49	"8291812"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/10 08:21 AM
L302	30	"12620584"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/11/10 08:28 AM
L303	30	"12620584"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/10 08:28 AM
L304	573	"5325765"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/10 08:30 AM
L305	21	"11777831"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/10 08:32 AM
L306	34	"12610181"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/10 08:36 AM
L307	10	("20130017303" | "5325765" | "7836819" | "7946217" | "8561524" | "9402501" | "D255313" | "D407602" | "D688095" | "D694579").PN. OR ("9756974").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/10 08:41 AM
L308	80	("0481547" | "0747290" | "0846473" | "0865776" | "1134661" | "20010032822" | "20020148358" | "20030000887" | "20030209151" | "20030226449" | "20040094039" | "20050236323" | "20070186784" | "20070221069" | "20070259074" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/10 08:42 AM

		"20080196593" | "20090241344" | "20100154651" | "20100176037" | "20100178392" | "20100212509" | "20100224078" | "20100263548" | "20120285330" | "20120285334" | "2464722" | "2570997" | "3592126" | "4080299" | "4374026" | "4882055" | "5266194" | "5853581" | "5902620" | "5910205" | "5988190" | "6026733" | "6079315" | "6192786" | "6202541" | "6244162" | "6260476" | "6453800" | "6880454" | "6912949" | "6960295" | "7150219" | "7219600" | "7231870" | "7464637" | "7836820" | "7870821" | "7891286" | "8033212" | "D560097").PN. OR ("8561524").URPN.					
L309	80	("0481547" | "0747290" | "0846473" | "0865776" | "1134661" | "20010032822" | "20020148358" | "20030000887" | "20030209151" | "20030226449" | "20040094039" | "20050236323" | "20070186784" | "20070221069" | "20070259074" | "20080196593" | "20090241344" | "20100154651" | "20100176037" | "20100178392" | "20100212509" | "20100224078" | "20100263548" | "20120285330" | "20120285334" | "2464722" | "2570997" | "3592126" | "4080299" | "4374026" | "4882055" | "5266194" | "5853581" | "5902620" | "5910205" | "5988190" | "6026733" | "6079315" | "6192786" | "6202541" | "6244162" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/10 08:56 AM

		"6260476" | "6453800" | "6880454" | "6912949" | "6960295" | "7150219" | "7219600" | "7231870" | "7464637" | "7836820" | "7870821" | "7891286" | "8033212" | "D560097").PN. OR ("8561524").URPN.					
L310	29	("5910205" | "7815953" | "8147887" | "D255313" | "D340382" | "D349211" | "D407602" | "D567021" | "D606363" | "D652266" | "D677120").PN. OR ("D688095").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/10 09:13 AM
L311	11	"11777831"	(US-PGPUB)	AND	OFF	OFF	2021/11/10 09:17 AM
L312	0	1139+2893	(US-PGPUB)	AND	OFF	OFF	2021/11/10 09:18 AM
L313	3	"11392893"	(US-PGPUB)	AND	OFF	OFF	2021/11/10 09:18 AM
L314	305	A47J31/20.cpc.	(US-PGPUB)	AND	OFF	OFF	2021/11/10 02:21 PM
L315	703	A47J31/20.cpc.	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 02:21 PM
L316	329	A47J31/4403.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 03:57 PM
L317	216	B65B29/022.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 04:31 PM
L318	81	A47J31/404.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 04:41 PM
L319	1357	A47J31/407.cpc. and (cartridge or capsule) and (bevereage or coffee or brew$3)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 04:54 PM
L320	0	L319 and (needel)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 04:55 PM
L321	444	L319 and (needle)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 04:55 PM
L322	291	99/295.ccls. and (cartridge or capsule) and (bevereage or coffee or brew$3) and (needle)	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/10 05:09 PM
L323	2	"20070186784"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/11

							10:55 AM
L324	1	"20060107841"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/11 11:11 AM
L325	572	(US-20110030563-$ or US-20100288131-$ or US-20100203208-$ or US-20100186599-$ or US-20100154651-$ or US-20100154647-$ or US-20100129512-$ or US-20100101428-$ or US-20100077928-$ or US-20100064899-$ or US-20100043646-$ or US-20100043645-$ or US-20100043644-$ or US-20100037779-$ or US-20090280219-$ or US-20090255410-$ or US-20090205503-$ or US-20090158938-$ or US-20090126577-$ or US-20090017177-$ or US-20090007796-$ or US-20090007794-$ or US-20080317931-$ or US-20080245236-$ or US-20080216666-$ or US-20080105131-$).did. or (US-20070186784-$ or US-20070084352-$ or US-20070068395-$ or US-20100303964-$ or US-20070224319-$ or US-20060110507-$ or US-20060019000-$ or US-20120258210-$ or US-20140287105-$ or US-20140020565-$ or US-20100147156-$ or US-20140026761-$ or US-20150108011-$ or US-20070144355-$ or US-20150196159-$ or US-20140072676-$ or US-20050051478-$ or US-20190233200-$ or US-20190225414-$ or US-20190225413-$ or US-20190202629-$ or US-20190177079-$ or US-20190177078-$ or US-20190167031-$ or US-20140287099-$ or US-20190100376-$ or US-20190084758-$).did. or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/11/11 11:14 AM

		(US-20190077588-$ or US-20160009486-$ or US-20150314955-$ or US-20190047771-$ or US-20190055084-$ or US-20190055083-$ or US-20190047782-$ or US-20190016527-$ or US-20130340626-$ or US-20130017303-$ or US-20190002192-$ or US-20180370720-$ or US-20180346239-$ or US-20180332995-$ or US-20180325309-$ or US-20180325301-$ or US-20180319582-$ or US-20180305194-$ or US-20150017293-$ or US-20180303275-$ or US-20180297776-$ or US-20180297775-$ or US-20180297309-$ or US-20180290825-$ or US-20180290824-$ or US-20180273286-$ or US-20180257856-$).did. or (US-20180237217-$ or US-20180220840-$ or US-20170143158-$ or US-20180215533-$ or US-20180206667-$ or US-20180201436-$ or US-20150246741-$ or US-20180178973-$ or US-20180178972-$ or US-20180162634-$ or US-20180148250-$ or US-20160137402-$ or US-20180134485-$ or US-20160198732-$ or US-20150158666-$ or US-20180125288-$ or US-20180116446-$ or US-20150360854-$ or US-20180084941-$ or US-20140272018-$ or US-20180044104-$ or US-20180037402-$ or US-20180029790-$ or US-20180016092-$ or US-20180002104-$ or US-20170362020-$ or US-20150246768-$).did. or (US-20170355515-$ or US-20170334624-$ or US-20170334623-$ or					

		US-20170327308-$ or US-20170326617-$ or US-20170320658-$ or US-20170313496-$ or US-20150245733-$ or US-20170305653-$ or US-20140127364-$ or US-20170280750-$ or US-20170275090-$ or US-20170275089-$ or US-20170275088-$ or US-20170275087-$ or US-20140141128-$ or US-20170258264-$ or US-20170174418-$ or US-20100203198-$ or US-20110189350-$ or US-20150150409-$ or US-20170120203-$ or US-20150344285-$ or US-20170081111-$ or US-20170071395-$ or US-20110303095-$ or US-20170050799-$).did. or (US-20150257580-$ or US-20170042365-$ or US-20170036857-$ or US-20170036854-$ or US-20130236609-$ or US-20160288990-$ or US-20160345769-$ or US-20130059039-$ or US-20130078341-$ or US-20160332805-$ or US-20160325898-$ or US-20160280430-$ or US-20160214787-$ or US-20160206133-$ or US-20160194147-$ or US-20160176624-$ or US-20150201791-$ or US-20160157660-$ or US-20160068334-$ or US-20160145037-$ or US-20160137401-$ or US-20160130076-$ or US-20160120356-$ or US-20160114967-$ or US-20160113435-$ or US-20160107831-$ or US-20160066591-$).did. or (US-20160052706-$ or US-20160016727-$ or US-20160001968-$ or US-20160001903-$ or US-20150368033-$ or US-20150353275-$ or					

		US-20150353272-$ or US-20150336736-$ or US-20150320254-$ or US-20150314954-$ or US-20150307266-$ or US-20150282663-$ or US-20150272379-$ or US-20150251847-$ or US-20150208852-$ or US-20150203285-$ or US-20110283890-$ or US-20150157164-$ or US-20150151903-$ or US-20150140182-$ or US-20150125576-$ or US-20140272016-$ or US-20120070543-$ or US-20150086680-$ or US-20120070551-$ or US-20150072053-$ or US-20150072052-$).did. or (US-20150064324-$ or US-20150056351-$ or US-20150047509-$ or US-20150050391-$ or US-20140170271-$ or US-20150021209-$ or US-20150017290-$ or US-20140377413-$ or US-20140373725-$ or US-20120321756-$ or US-20140356484-$ or US-20140342060-$ or US-20140342059-$ or US-20140318380-$ or US-20140318379-$ or US-20140314919-$ or US-20140290494-$ or US-20120251671-$ or US-20140220189-$ or US-20140220190-$ or US-20140205721-$ or US-20140196608-$ or US-20140190863-$ or US-20140178538-$ or US-20140170269-$ or US-20140161940-$ or US-20140161936-$).did. or (US-20090223375-$ or US-20140123859-$ or US-20140120217-$ or US-20140106036-$ or US-20100159109-$ or US-20140090564-$ or US-20140087028-$ or US-20140072677-$ or US-20140072675-$ or					

		US-20140069280-$ or US-20140065269-$ or US-20120121779-$ or US-20140053735-$ or US-20140037802-$ or US-20140017359-$ or US-20140004231-$ or US-20130302476-$ or US-20100303965-$ or US-20130270176-$ or US-20130259983-$ or US-20130247774-$ or US-20130243910-$ or US-20130216663-$ or US-20100132564-$ or US-20100239734-$ or US-20130180409-$ or US-20130164414-$).did. or (US-20130146495-$ or US-20130139700-$ or US-20130139699-$ or US-20130125762-$ or US-20120058226-$ or US-20130122157-$ or US-20130115340-$ or US-20130105340-$ or US-20130095212-$ or US-20130064936-$ or US-20130045307-$ or US-20130040021-$ or US-20130025466-$ or US-20120328739-$ or US-20120308688-$ or US-20120276264-$ or US-20120269933-$ or US-20120251668-$ or US-20120240779-$ or US-20120207896-$ or US-20120207895-$ or US-20120201933-$ or US-20120201932-$ or US-20120196008-$ or US-20100003371-$ or US-20080187638-$ or US-20120171333-$).did. or (US-20120121780-$ or US-20120118166-$ or US-20120097602-$ or US-20120052164-$ or US-20120052163-$ or US-20120015081-$ or US-20120015080-$ or US-20110305801-$ or US-20110297005-$ or US-20110283891-$ or US-20110274794-$ or US-20110142996-$ or					

		US-20110097450-$ or US-20110076361-$ or US-20110073607-$ or US-20110064852-$ or US-20110045144-$ or US-20110041702-$ or US-20110020497-$ or US-20100307930-$ or US-20100297299-$ or US-20100206177-$ or US-20100180774-$ or US-20100178392-$ or US-20060196364-$ or US-20100154644-$ or US-20100108541-$).did. or (US-20050150390-$ or US-20100062127-$ or US-20100047418-$ or US-20100005973-$ or US-20090320693-$ or US-20090320692-$ or US-20090263545-$ or US-20090235827-$ or US-20090211458-$ or US-20090110775-$ or US-20080257165-$ or US-20050115415-$ or US-20070181003-$ or US-20070148290-$ or US-20070062375-$ or US-20060236871-$ or US-20060174769-$ or US-20060065127-$ or US-20030172813-$ or US-20020078831-$ or US-20190208950-$ or US-20110168029-$ or US-20120285330-$ or US-20060107841-$ or US-20020023543-$ or US-20120118880-$ or US-20110274802-$).did. or (US-20110197771-$ or US-20110185910-$ or US-20110100229-$ or US-20090223373-$ or US-20040250686-$ or US-20020152895-$ or US-20020144604-$ or US-20020144603-$ or US-20020144602-$ or US-20150230652-$ or US-20150027318-$ or US-20210261280-$ or US-20210253334-$ or US-20200253413-$ or US-20200231370-$ or						

		US-20200189772-$ or US-20170043943-$ or US-20200017288-$ or US-20190047783-$ or US-20180362198-$ or US-20180242776-$ or US-20170361961-$ or US-20170360239-$ or US-20170360057-$ or US-20160311610-$ or US-20160311609-$ or US-20160280453-$).did. or (US-20120090475-$ or US-20160145038-$ or US-20150158609-$ or US-20110117248-$ or US-20210331864-$ or US-20200121115-$ or US-20200047984-$ or US-20190328170-$ or US-20190313835-$ or US-20130129870-$ or US-20150201790-$ or US-20170355514-$ or US-20170319001-$ or US-20170295988-$ or US-20160157666-$ or US-20120100259-$ or US-20150238044-$ or US-20110259204-$ or US-20150068405-$ or US-20150056352-$ or US-20150001100-$ or US-20140318381-$ or US-20140305315-$ or US-20140186498-$ or US-20130186282-$ or US-20140318378-$ or US-20140287104-$).did. or (US-20130133522-$ or US-20130118360-$ or US-20050223904-$).did. or (US-8304006-$ or US-8220382-$ or US-8202560-$ or US-8161868-$ or US-8161866-$ or US-8147887-$ or US-7993691-$ or US-7946217-$ or US-7930972-$ or US-7856921-$ or US-7854192-$ or US-7836819-$ or US-7815953-$ or US-7703381-$ or US-7624673-$ or US-					

		7604826-$ or US-7279188-$ or US-5897899-$ or US-5826492-$ or US-5762987-$ or US-5649472-$ or US-5402707-$ or US-5398595-$ or US-5327815-$ or US-4846052-$ or US-5325765-$).did. or (US-6079315-$ or US-6182554-$ or US-6644173-$ or US-7490542-$ or US-4136202-$ or US-7552672-$ or US-8640604-$ or US-8322271-$ or US-7856920-$ or US-6606938-$ or US-8846120-$ or US-6672200-$ or US-6666130-$ or US-6142063-$ or US-6082247-$ or US-3615708-$ or US-2968560-$ or US-9486108-$ or US-11001437-$ or US-11001436-$ or US-11001433-$ or US-10144579-$ or US-9764891-$ or US-5472719-$ or US-5242702-$ or US-9232871-$ or US-9463921-$).did. or (US-6832542-$ or US-8720320-$ or US-8794125-$ or US-7063238-$ or US-8561524-$ or US-7836820-$ or US-5656311-$ or US-9402501-$ or US-11166587-$ or US-8927037-$ or US-7681492-$).did. or (US-2968560-$).did. or (WO-02081337-$ or WO-2010076698-$ or JP-4836776-$ or CA-2765371-$ or CA-2819140-$ or EP-2520202-$ or CA-2811153-$ or EP-2647317-$ or CA-					

		2521063-$ or FR-2993869-$ or WO-2008113779-$ or EP-1864917-$ or WO-2012011053-$ or WO-2008125256-$ or WO-2014041419-$ or WO-2014033339-$ or EP-1992575-$ or EP-1500357-$ or WO-2009050540-$ or EP-2374733-$ or EP-2345602-$ or EP-1364605-$ or WO-2015136433-$ or EP-2612579-$ or WO-2012076135-$ or EP-2409608-$).did. or (WO-2013079814-$ or KR-200450676-$ or CA-2526785-$ or EP-1775234-$ or WO-2006045537-$ or WO-2007114685-$ or WO-2008132571-$ or WO-2008117329-$ or WO-03059778-$ or WO-2004064582-$ or CH-711427-$ or EP-3181484-$ or WO-2015117892-$ or GB-2520492-$ or EP-2966006-$ or GB-2530062-$ or CA-2701826-$ or EP-2868598-$ or EP-2298671-$).did. or (EP-1775234-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2007114685-$ or WO-2006045537-$ or EP-1500357-$).did. or (JP-2000355375-$ or JP-2012005818-$ or JP-2005211659-$ or JP-01310612-$).did. or (EP-1775234-$ or WO-2006030461-$ or JP-2000355375-$ or US-20050084569-$ or GB-2531687-$ or GB-2530680-$ or GB-2530062-$ or WO-2015177591-$ or WO-2015128799-$ or ES-2538740-$ or EP-2886490-$ or WO-					

		2014191044-$ or WO-2014188285-$ or DE-102012223291-$ or WO-2014061045-$ or FR-2993869-$ or EP-2647317-$ or ES-2398277-$ or WO-2012150542-$ or WO-2012123106-$ or WO-2012110323-$ or WO-2012100836-$ or WO-2012100976-$ or WO-2013135937-$ or WO-2012072509-$ or WO-2012042487-$).did. or (WO-2012034819-$ or FR-2962893-$ or WO-2011159162-$ or WO-2011159163-$ or WO-2013060918-$ or EP-2374733-$ or WO-2010137953-$ or WO-2010118543-$ or WO-2009103592-$ or WO-2009084059-$ or WO-2009050540-$ or WO-2008148834-$ or EP-1992575-$ or WO-2008132571-$ or WO-2008125256-$ or WO-2008113779-$ or WO-02081337-$ or WO-2015136433-$ or US-20150374165-$ or WO-2010137947-$ or EP-1500357-$ or US-20140072675-$).did.					
L326	339	L325 and (filter)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/11 11:15 AM
L327	4	"16900462"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/11 11:59 AM
L328	386	("0240402" | "0346278" | "0370141" | "0845968" | "1168544" | "1302483" | "2997940" | "3199682" | "3260190" | "3403617" | "3579351" | "3615708" | "3754463" | "3971305" | "4204966" | "4321139" | "4417504" | "4584101" | "4859337" | "4981588").PN. OR ("5325765").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/11 12:08 PM

L329	1309	"99".clas. and (capsule or cartridge) and (filter)	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/11 12:31 PM
L330	1309	"99".clas. and (capsule or cartridge) and (filter)	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 12:32 PM
L331	138	"7513192"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 01:02 PM
L332	283	"6645537"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 01:02 PM
L333	28	"12610181"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 01:07 PM
L334	512	"5325765"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 01:08 PM
L335	2	"20070186784"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 01:50 PM
L336	0	TW "201136537"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 02:19 PM
L337	1	"20060107841"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 03:24 PM
L338	2	"20050223904"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 04:12 PM
L339	2	"20070186784"	(US-PGPUB; USPAT; USOCR)	AND	OFF	OFF	2021/11/11 04:48 PM
L340	2	"20070186784"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/11 07:10 PM
L341	6	WO "2008125256"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/11/11 07:19 PM
L342	51	WO "2008125256"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	OFF	OFF	2021/11/11 07:19 PM
L343	136	((("Rivera") near3 ("Adrian"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/11 07:29 PM
L345	1	"16900462"	(US-PGPUB; USPAT)	AND	OFF	OFF	2021/12/22 10:45 AM
L349	4	"16900462"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2021/12/22 12:23 PM
L350	2	"16219262"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:13 PM
L351	0	"13724658"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:25 PM
L352	2	"16219262"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:27 PM
L353	2	"16181740"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:34 PM
L354	2	"16058206"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:39 PM
L355	3	"16058216"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:41 PM

L356	2	"16233337"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:47 PM
L357	2	"16019352"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 01:48 PM
L358	16	EP "1364605"	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/17 02:06 PM
L359	65	EP "1364605"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/02/17 02:06 PM
L360	69	"7412921"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/02/17 02:08 PM
L361	5	"20100303964"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/02/17 02:11 PM
L362	53	"7490542"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/02/17 02:12 PM
L363	6	"13744623"	(USPAT)	ADJ	ON	ON	2022/03/22 10:02 AM
L364	19	"13744623"	(US-PGPUB; USPAT)	ADJ	ON	ON	2022/03/22 10:02 AM
L365	0	((("Krger") near3 ("Marc"))).INV.	(US-PGPUB)	OR	ON	ON	2022/03/22 10:04 AM
L366	0	((("Krger") near3 ("Marc"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 10:05 AM
L367	2	"14411571"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 10:07 AM
L368	24	((("K-FEE") near3 ("SYSTEM") near3 ("GMBH"))).AS,AANM.	(USPAT)	OR	ON	ON	2022/03/22 10:10 AM
L369	0	"17547363"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 10:12 AM
L370	10	"10994923"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 10:12 AM
L371	419	("0923706" | "1036589" | "1051426" | "1329461" | "1485200" | "1689665" | "20010038204" | "20010047724" | "20010048957" | "20020020659" | "20020048621" | "20020085164" | "20020088807" | "20020104373" | "20020110626" | "20020148356" | "20030005826" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 10:44 AM

		"20030033938" | "20030039731" | "20030121979" | "20030172813" | "20030222089" | "20040005384" | "20040045443" | "20040089158" | "20040089602" | "20040115310" | "20040118295" | "20040142070" | "20040155113" | "20040182250" | "20040188459" | "20050000164" | "20050016383" | "20050045566" | "20050051478" | "20050061478" | "20050150391" | "20050160919" | "20050183581" | "20050235571" | "20050266122" | "20060010744" | "20060010784" | "20060032427" | "20060084344" | "20060107841" | "20060194004" | "20060215978" | "20060228447" | "20060236871" | "20070144355" | "20070148290" | "20070157821" | "20070181005" | "20070181412" | "20070203587" | "20070257118" | "20070283640" | "20080024523" | "20080026121" | "20080028946" | "20080038441" | "20080085356" | "20080116105" | "20080122217" | "20080148948" | "20080187638" | "20080245236" | "20080299262" | "20080302251" | "20090004343" | "20090007793" | "20090007796" | "20090092711" |				

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		"20140287104" | "20140287105" | "20140302204" | "20140346022" | "20140348984" | "20140370181" | "20150010680" | "20150020481" | "20150029702" | "20150056331" | "20150056340" | "20150056351" | "20150079241" | "20150119220" | "20150128525" | "20150132441" | "20150157164" | "20150158665" | "20150158666" | "20150166204" | "20150173558" | "20150175347" | "20150201790" | "20150239652" | "20150246741" | "20150274411" | "20150297021" | "20150297023" | "20150314954" | "20150329282" | "20150353275" | "20150375926" | "20160001968" | "20160037961" | "20160045060" | "20160058234" | "20160066591" | "20160075506" | "20160194146" | "20160207696" | "20160242594" | "20160251150" | "20160325921" | "20160332759" | "20160340110" | "20170020329" | "20170027374" | "20190359418" | "2732919" | "2778739" | "2847726" | "3039153" | "3183096" | "3261129" | "3327428" | "3363588" | "3416183" | "3473266" | "3480989" | "3501896" | "3611637" | "3631793" | "3640727" | "4081880" | "4136202" | "4325204" | "4389925" | "4404770" |				

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L372	2	"11230430"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 10:51 AM
L373	8	("20020048621"|"20100078480"|"20130129876"|"7444925"|"7856920"|"8087347"|"8695484"|"9320385").PN.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 10:57 AM
L374	1	((("Faiss") near3 ("Markus"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/22 11:11 AM
L375	1	"16316200"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 11:26 AM
L376	5	"10858176"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 01:52 PM
L377	12	"10858177"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 02:25 PM
L378	7	"17108175"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 02:30 PM
L379	1	"20170295988"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:21 PM
L380	1	"20140242239"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:21 PM
L381	2	"20180125288"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:21 PM
L382	0	"17547363"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:28 PM
L383	0	"17670765"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:28 PM
L384	6	"17324182"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:29 PM
L385	2	"11254491"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:29 PM
L386	4	"10870531"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:33 PM
L387	1	"16119166"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:35 PM
L388	623	"99".clas. and (capsule or cartridge) and	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 03:39 PM

		(barcode or RFID or identif$4)					
L389	1	"20080105131"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/22 05:08 PM
L390	2	"20130064937"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 12:11 AM
L391	0	"17547363"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 01:50 PM
L392	1	"13877892"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 05:36 PM
L393	19	"13744623"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 06:27 PM
L394	19	"15211823"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 07:34 PM
L395	16	"15646980"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 07:35 PM
L396	19	"15211823"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 07:57 PM
L397	19	"13744623"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 07:58 PM
L398	16	"15646980"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 07:58 PM
L399	0	"17547363"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 08:07 PM
L400	38	(US-2778739-$ | US-3183096-$ | US-3501896-$ | US-3521207-$ | US-3631793-$ | US-3640727-$ | US-4136202-$ | US-4389925-$ | US-4534985-$ | US-4540595-$ | US-4644151-$ | US-4676482-$ | US-4742645-$ | US-4846052-$ | US-4859337-$ | US-4860645-$ | US-4867993-$ | US-4976179-$ | US-5012629-$ | US-5028769-$ | US-5108768-$ | US-5194553-$ | US-5242702-$ | US-5243164-$ | US-5251758-$ | US-5285041-$ | US-5325765-$ | US-5402707-$ | US-5460078-$ | US-5496573-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 09:59 PM

		5501945-$ | US- 5535765-$ | US- 5601716-$ | US- 5637850-$ | US- 5656311-$ | US- 5656316-$ | US- 5656318-$ | US- 5677522-$).DID.					
L401	38	(US-2778739-$ | US- 3183096-$ | US- 3501896-$ | US- 3521207-$ | US- 3631793-$ | US- 3640727-$ | US- 4136202-$ | US- 4389925-$ | US- 4534985-$ | US- 4540595-$ | US- 4644151-$ | US- 4676482-$ | US- 4742645-$ | US- 4846052-$ | US- 4859337-$ | US- 4860645-$ | US- 4867993-$ | US- 4976179-$ | US- 5012629-$ | US- 5028769-$ | US- 5108768-$ | US- 5194553-$ | US- 5242702-$ | US- 5243164-$ | US- 5251758-$ | US- 5285041-$ | US- 5325765-$ | US- 5402707-$ | US- 5460078-$ | US- 5496573-$ | US- 5501945-$ | US- 5535765-$ | US- 5601716-$ | US- 5637850-$ | US- 5656311-$ | US- 5656316-$ | US- 5656318-$ | US- 5677522-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:01 PM
L402	40	(US-5725261-$ | US- 5840189-$ | US- 5888549-$ | US- 5895672-$ | US- 5897899-$ | US- 5917165-$ | US- 5941055-$ | US- 5948455-$ | US- 5980743-$ | US- 5994677-$ | US- 6025000-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:02 PM

		6153026-$ | US- 6199780-$ | US- 6202929-$ | US- 6213326-$ | US- 6299926-$ | US- 6440256-$ | US- 6451332-$ | US- 6527181-$ | US- 6589577-$ | US- 6598800-$ | US- 6607762-$ | US- 6627244-$ | US- 6645537-$ | US- 6655260-$ | US- 6817538-$ | US- 6861086-$ | US- 6948420-$ | US- 6994879-$ | US- 7408094-$ | US- 7444925-$ | US- 7464518-$ | US- 7543527-$ | US- 7552672-$ | US- 7595870-$ | US- 7673558-$ | US- 7685930-$ | US- 7815953-$ | US- 7856920-$ | US- 7935646-$).DID.					
L403	56	(US-0005384-$ | US- 0005826-$ | US- 0020659-$ | US- 0033938-$ | US- 0038204-$ | US- 0039731-$ | US- 0045443-$ | US- 0047724-$ | US- 0048621-$ | US- 0048957-$ | US- 0085164-$ | US- 0088807-$ | US- 0089158-$ | US- 0089602-$ | US- 0110626-$ | US- 0121979-$ | US- 0148356-$ | US- 0172813-$ | US- 0181005-$ | US- 0222089-$ | US- 20010038204-$ | US- 20010047724-$ | US- 20010048957-$ | US- 20010181005-$ | US- 20020020659-$ | US- 20020048621-$ | US- 20020085164-$ | US- 20020088807-$ | US- 20020110626-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:04 PM

		20020148356-$ | US- 20030005826-$ | US- 20030033938-$ | US- 20030039731-$ | US- 20030121979-$ | US- 20030172813-$ | US- 20030222089-$ | US- 20040005384-$ | US- 20040045443-$ | US- 20040089158-$ | US- 20040089602-$ | US- 9357791-$ | US- 9359126-$ | US- 9359128-$ | US- 9392902-$ | US- 9394101-$ | US- 9409703-$ | US- 9409704-$ | US- 9415931-$ | US- 9428328-$ | US- 9428329-$ | US- 9434525-$ | US- 9486108-$ | US- 9676538-$ | US- 9708086-$ | US- 9770129-$ | US- 9808112-$ | US- 9969564-$).DID.					
L404	82	(US-0004343-$ | US- 0007793-$ | US- 0010744-$ | US- 0016383-$ | US- 0024536-$ | US- 0026121-$ | US- 0028946-$ | US- 0032427-$ | US- 0038441-$ | US- 0045566-$ | US- 0051478-$ | US- 0061478-$ | US- 0084344-$ | US- 0085356-$ | US- 0107841-$ | US- 0115310-$ | US- 0116105-$ | US- 0118295-$ | US- 0142070-$ | US- 0144355-$ | US- 0148290-$ | US- 0148948-$ | US- 0150391-$ | US- 0155113-$ | US- 0157821-$ | US- 0160919-$ | US- 0181005-$ | US- 0181412-$ | US- 0182250-$ | US- 0183581-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:15 PM

		0187638-$ | US- 0188459-$ | US- 0194004-$ | US- 0203587-$ | US- 0228447-$ | US- 0236871-$ | US- 0245236-$ | US- 0257118-$ | US- 0266122-$ | US- 0299262-$ | US- 0302251-$ | US- 20040115310-$ | US- 20040118295-$ | US- 20040142070-$ | US- 20040155113-$ | US- 20040182250-$ | US- 20040188459-$ | US- 20050016383-$ | US- 20050045566-$ | US- 20050051478-$ | US- 20050061478-$ | US- 20050150391-$ | US- 20050160919-$ | US- 20050183581-$ | US- 20050266122-$ | US- 20060010744-$ | US- 20060032427-$ | US- 20060084344-$ | US- 20060107841-$ | US- 20060194004-$ | US- 20060228447-$ | US- 20060236871-$ | US- 20070144355-$ | US- 20070148290-$ | US- 20070157821-$ | US- 20070181005-$ | US- 20070181412-$ | US- 20070203587-$ | US- 20070257118-$ | US- 20080024536-$ | US- 20080026121-$ | US- 20080028946-$ | US- 20080038441-$ | US- 20080085356-$ | US- 20080116105-$ | US- 20080148948-$ | US- 20080187638-$ | US- 20080245236-$ | US- 20080299262-$ | US- 20080302251-$ | US- 20090004343-$ | US- 20090007793-$).DID.					
L405	84	(US-0000667-$ | US- 0005399-$ | US- 0007796-$ | US- 0008913-$ | US- 0020500-$ | US- 0028495-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:17 PM

		0033580-$ | US- 0041702-$ | US- 0050880-$ | US- 0051532-$ | US- 0054532-$ | US- 0064852-$ | US- 0072272-$ | US- 0078480-$ | US- 0092711-$ | US- 0108541-$ | US- 0126577-$ | US- 0132564-$ | US- 0136626-$ | US- 0147418-$ | US- 0147872-$ | US- 0172951-$ | US- 0181378-$ | US- 0196545-$ | US- 0211458-$ | US- 0211713-$ | US- 0223375-$ | US- 0239717-$ | US- 0239733-$ | US- 0239734-$ | US- 0249961-$ | US- 0260915-$ | US- 0263329-$ | US- 0264640-$ | US- 0288131-$ | US- 0288133-$ | US- 0289121-$ | US- 0291379-$ | US- 0303964-$ | US- 0308061-$ | US- 0324788-$ | US- 0324791-$ | US- 20090007796-$ | US- 20090092711-$ | US- 20090126577-$ | US- 20090136626-$ | US- 20090211458-$ | US- 20090211713-$ | US- 20090223375-$ | US- 20090249961-$ | US- 20090289121-$ | US- 20090291379-$ | US- 20090324788-$ | US- 20090324791-$ | US- 20100000667-$ | US- 20100028495-$ | US- 20100050880-$ | US- 20100051532-$ | US- 20100054532-$ | US- 20100072272-$ | US- 20100078480-$ | US- 20100108541-$ | US- 20100132564-$ | US- 20100147418-$ | US-					

		20100147872-$ | US- 20100172951-$ | US- 20100181378-$ | US- 20100196545-$ | US- 20100239717-$ | US- 20100239733-$ | US- 20100239734-$ | US- 20100260915-$ | US- 20100263329-$ | US- 20100264640-$ | US- 20100288131-$ | US- 20100288133-$ | US- 20100303964-$ | US- 20100308061-$ | US- 20110005399-$ | US- 20110008913-$ | US- 20110020500-$ | US- 20110033580-$ | US- 20110041702-$ | US- 20110064852-$).DID.					
L406	84	(US-0006685-$ | US- 0055903-$ | US- 0058226-$ | US- 0059039-$ | US- 0060697-$ | US- 0064929-$ | US- 0064937-$ | US- 0070542-$ | US- 0070543-$ | US- 0070551-$ | US- 0076361-$ | US- 0084363-$ | US- 0084376-$ | US- 0089135-$ | US- 0097041-$ | US- 0097450-$ | US- 0097602-$ | US- 0100264-$ | US- 0101716-$ | US- 0121765-$ | US- 0122153-$ | US- 0123106-$ | US- 0125762-$ | US- 0126834-$ | US- 0142996-$ | US- 0183657-$ | US- 0189350-$ | US- 0189362-$ | US- 0195155-$ | US- 0201933-$ | US- 0207893-$ | US- 0207895-$ | US- 0212225-$ | US- 0250333-$ | US- 0250812-$ | US- 0251668-$ | US- 0251672-$ | US- 0258210-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:21 PM

		0295234-$ | US- 0303095-$ | US- 0308397-$ | US- 0308688-$ | US- 20110076361-$ | US- 20110089135-$ | US- 20110097450-$ | US- 20110142996-$ | US- 20110189350-$ | US- 20110189362-$ | US- 20110212225-$ | US- 20110250333-$ | US- 20110250812-$ | US- 20110303095-$ | US- 20110308397-$ | US- 20120006685-$ | US- 20120058226-$ | US- 20120060697-$ | US- 20120070542-$ | US- 20120070543-$ | US- 20120070551-$ | US- 20120097041-$ | US- 20120097602-$ | US- 20120100264-$ | US- 20120121765-$ | US- 20120123106-$ | US- 20120126834-$ | US- 20120183657-$ | US- 20120195155-$ | US- 20120201933-$ | US- 20120207893-$ | US- 20120207895-$ | US- 20120251668-$ | US- 20120251672-$ | US- 20120258210-$ | US- 20120295234-$ | US- 20120308688-$ | US- 20130055903-$ | US- 20130059039-$ | US- 20130064929-$ | US- 20130064937-$ | US- 20130084363-$ | US- 20130084376-$ | US- 20130101716-$ | US- 20130122153-$ | US- 20130125762-$).DID.					
L407	84	(US-0001563-$ | US- 0004231-$ | US- 0010680-$ | US- 0017359-$ | US- 0020481-$ | US- 0029702-$ | US- 0046126-$ | US- 0056331-$ | US- 0056340-$ | US- 0127364-$ | US- 0129872-$ | US- 0129876-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:23 PM

		0136828-$ | US- 0141128-$ | US- 0141129-$ | US- 0149424-$ | US- 0156897-$ | US- 0161936-$ | US- 0178538-$ | US- 0196608-$ | US- 0206011-$ | US- 0209610-$ | US- 0209618-$ | US- 0209619-$ | US- 0209620-$ | US- 0209622-$ | US- 0216663-$ | US- 0220191-$ | US- 0224130-$ | US- 0230370-$ | US- 0230627-$ | US- 0243910-$ | US- 0263033-$ | US- 0272018-$ | US- 0287104-$ | US- 0287105-$ | US- 0302204-$ | US- 0312619-$ | US- 0327223-$ | US- 0346022-$ | US- 0348984-$ | US- 0370181-$ | US- 20130129872-$ | US- 20130129876-$ | US- 20130136828-$ | US- 20130149424-$ | US- 20130156897-$ | US- 20130206011-$ | US- 20130209610-$ | US- 20130209618-$ | US- 20130209619-$ | US- 20130209620-$ | US- 20130209622-$ | US- 20130216663-$ | US- 20130230627-$ | US- 20130243910-$ | US- 20130312619-$ | US- 20130327223-$ | US- 20140001563-$ | US- 20140004231-$ | US- 20140017359-$ | US- 20140046126-$ | US- 20140127364-$ | US- 20140141128-$ | US- 20140141129-$ | US- 20140161936-$ | US- 20140178538-$ | US- 20140196608-$ | US- 20140220191-$ | US- 20140224130-$ | US-					

		20140230370-$ | US- 20140263033-$ | US- 20140272018-$ | US- 20140287104-$ | US- 20140287105-$ | US- 20140302204-$ | US- 20140346022-$ | US- 20140348984-$ | US- 20140370181-$ | US- 20150010680-$ | US- 20150020481-$ | US- 20150029702-$ | US- 20150056331-$ | US- 20150056340-$).DID.					
L408	78	(US-0001968-$ | US- 0020329-$ | US- 0027374-$ | US- 0037961-$ | US- 0045060-$ | US- 0056351-$ | US- 0058234-$ | US- 0066591-$ | US- 0075506-$ | US- 0079241-$ | US- 0086986-$ | US- 0119220-$ | US- 0128525-$ | US- 0132441-$ | US- 0157164-$ | US- 0158665-$ | US- 0158666-$ | US- 0166204-$ | US- 0173558-$ | US- 0175347-$ | US- 0194146-$ | US- 0201790-$ | US- 0207696-$ | US- 0239652-$ | US- 0242594-$ | US- 0246741-$ | US- 0251150-$ | US- 0269232-$ | US- 0274411-$ | US- 0297021-$ | US- 0297023-$ | US- 0314954-$ | US- 0325921-$ | US- 0329282-$ | US- 0332759-$ | US- 0340110-$ | US- 0353275-$ | US- 0359418-$ | US- 0375926-$ | US- 20150056351-$ | US- 20150079241-$ | US- 20150119220-$ | US- 20150128525-$ | US- 20150132441-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:26 PM

		20150157164-$ | US-20150158665-$ | US-20150158666-$ | US-20150166204-$ | US-20150173558-$ | US-20150175347-$ | US-20150201790-$ | US-20150239652-$ | US-20150246741-$ | US-20150274411-$ | US-20150297021-$ | US-20150297023-$ | US-20150314954-$ | US-20150329282-$ | US-20150353275-$ | US-20150375926-$ | US-20160001968-$ | US-20160037961-$ | US-20160045060-$ | US-20160058234-$ | US-20160066591-$ | US-20160075506-$ | US-20160194146-$ | US-20160207696-$ | US-20160242594-$ | US-20160251150-$ | US-20160325921-$ | US-20160332759-$ | US-20160340110-$ | US-20170020329-$ | US-20170027374-$ | US-20190359418-$ | US-20210086986-$ | US-20210269232-$).DID.					
L409	15	(US-0051478-$ | US-0156897-$ | US-2327021-$ | US-2399283-$ | US-2399290-$ | US-2400033-$ | US-2436389-$ | US-2531544-$ | US-2538256-$ | US-2661921-$ | US-2662069-$ | US-2662071-$ | US-2763746-$ | US-2784752-$ | US-2785843-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:30 PM
L410	170	"6440256"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 10:30 PM
L411	162	"6440256"	(USPAT)	AND	ON	ON	2022/03/23 10:30 PM
L412	165	"6589577"	(USPAT)	AND	ON	ON	2022/03/23 10:31 PM
L413	338	99/286,289R,295,302R,	(US-PGPUB; USPAT;	ADJ	ON	ON	2022/03/23

		307,323.ccls. and (capsule or cartridge) and (barcode or RFID or identif$4)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				10:32 PM
L414	338	99/286,289R,295,302R, 307,323.ccls. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:32 PM
L415	432	B65D85/8043.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:33 PM
L416	158	A47J31/3628.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:34 PM
L417	940	A47J31/4492.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:36 PM
L418	228	B65D65/466.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:41 PM
L419	388	B65D2203/06.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:43 PM
L420	374	B65D2203/10.cpc. and (capsule or cartridge) and (barcode or RFID or identif$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:47 PM
L421	327	"6607762"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 10:54 PM
L422	272	"6607762"	(USPAT)	AND	ON	ON	2022/03/23 10:55 PM
L423	260	"6645537"	(USPAT)	AND	ON	ON	2022/03/23 10:55 PM
L424	31	"6861086"	(USPAT)	AND	ON	ON	2022/03/23 10:56 PM
L425	84	"7946217"	(USPAT)	AND	ON	ON	2022/03/23 10:56 PM
L426	2	"20050051478"	(US-PGPUB)	AND	ON	ON	2022/03/23 10:56 PM
L427	13	"8512886"	(USPAT)	AND	ON	ON	2022/03/23 10:57 PM
L428	29	"8039029"	(USPAT)	AND	ON	ON	2022/03/23 10:57 PM
L429	14	"8491948"	(USPAT)	AND	ON	ON	2022/03/23 10:57 PM

L430	18	"8114461"	(USPAT)	AND	ON	ON	2022/03/23 10:58 PM
L431	15	"9204751"	(USPAT)	AND	ON	ON	2022/03/23 11:00 PM
L432	7	"20130156897"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:00 PM
L433	19	"9428328"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:01 PM
L434	160	"8361527"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:01 PM
L435	9	"20140127364"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:01 PM
L436	18	"20140141128"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:02 PM
L437	2	"20150020481"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:02 PM
L438	8	(US-20150157164-$ | US-20150119220-$ | US-9409704-$ | US-9969564-$ | US-20140161936-$ | US-20150353275-$ | US-20160075506-$ | US-20010181005-$ | US-20110064852-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:04 PM
L439	18	CA "2902231"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:04 PM
L440	10	(US-20150132441-$ | US-6527181-$ | US-20040115310-$ | US-5948455-$ | US-9409703-$ | US-9072402-$ | US-20130209619-$ | US-4860645-$ | US-4846052-$ | US-4676482-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:06 PM
L441	49	DE "1207866"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:06 PM
L442	22	DE "1221960"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:07 PM
L443	46	DE "3432339"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:07 PM
L444	31	DE "102006004329"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	AND	ON	ON	2022/03/23 11:08 PM

			JPO; DERWENT; IBM_TDB)				
L445	25	DE "102010027485"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:09 PM
L446	0	(DE-102010034206-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:10 PM
L447	20	DE "102010034206"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:11 PM
L448	114	DE "102011010534"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:11 PM
L449	27	DE "102012110446"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:13 PM
L450	18	DE "102014018470"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:13 PM
L451	23	"202006003115"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:14 PM
L452	11	EP "0272432"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:15 PM
L453	8	EP "0272432"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:15 PM
L454	42	EP "0272922"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:15 PM
L455	1888664	EP "0334572"	(USPAT)	OR	ON	ON	2022/03/23 11:19 PM
L456	19	EP "0334572"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:22 PM
L457	34	EP "0455337"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:22 PM
L458	39	EP "0468078"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:23 PM
L459	91	EP "0468079"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:23 PM
L460	152	EP "0512468"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:23 PM

L461	2	EP "0569230"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:23 PM
L462	42	EP "0638486"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:23 PM
L463	14	EP "0656224"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:23 PM
L464	36	EP "0844195"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:24 PM
L465	110	EP "0859467"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:24 PM
L466	4	EP "0923865"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:24 PM
L467	24	EP "1129623"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:25 PM
L468	10	(US-5242702-$ | US-5601716-$ | US-5917165-$ | US-6451332-$ | US-20020088807-$ | US-7543527-$ | US-20020110626-$ | US-7552672-$ | US-20050160919-$ | US-20080148948-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:27 PM
L469	36	EP "1273528"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:29 PM
L470	33	"1344724"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:30 PM
L471	27	EP "1344724"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:30 PM
L472	25	EP "1471012"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:30 PM
L473	57	EP "1710173"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:31 PM
L474	17	EP "1772398"	(USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:34 PM
L475	10	(US-8101928-$ | US-20070148290-$ | US-8109200-$ | US-8088423-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:36 PM

		20090324791-$ | US-7543527-$ | US-20020110626-$ | US-7552672-$ | US-20050160919-$ | US-20080148948-$).DID.					
L476	11	(US-8101928-$ | US-20070148290-$ | US-8109200-$ | US-8088423-$ | US-20090324791-$ | US-20080024536-$ | US-20100050880-$ | US-8734881-$ | US-8257766-$ | US-20110041702-$ | US-8956672-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:37 PM
L477	23	EP "1772398"	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:37 PM
L478	17	EP "1772398"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:37 PM
L479	43	EP "1849718"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:38 PM
L480	66	EP "1859713"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:38 PM
L481	21	EP "1882432"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:38 PM
L482	25	EP "1892199"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:39 PM
L483	30	EP "2012994"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:39 PM
L484	68	EP "2218653"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:39 PM
L485	49	EP "2284102"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:40 PM
L486	32	EP "2412645"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:41 PM
L487	27	EP "2537778"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:41 PM
L488	57	FR "2556323"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:42 PM
L489	29	FR "2912124"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:42 PM
L490	12	GB "1402799"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:45 PM
L491	17	GB "2469874"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/23 11:47 PM
L492	12	(US-20110250333-$ | US-20100172951-$ | US-20130216663-$ | US-20120195155-$ | US-9434525-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:50 PM

		20130064937-$ | US-20210086986-$ | US-20140346022-$ | US-20190359418-$ | US-20210269232-$ | US-5194553-$ | US-20130122153-$).DID.					
L493	20	(US-9357791-$ | US-20030172813-$ | US-20030033938-$ | US-20040115310-$ | US-20050150391-$ | US-7408094-$ | US-7673558-$ | US-20100000667-$ | US-20100051532-$ | US-20130206011-$ | US-9277837-$ | US-9049958-$ | US-5460078-$ | US-20100303964-$ | US-20030121979-$ | US-20040089158-$ | US-20050266122-$ | US-20050266122-$ | US-20060228447-$ | US-20070157821-$ | US-20050183581-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/23 11:59 PM
L494	1	JP "02289207"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:00 AM
L495	17	JP "2001017094"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:01 AM
L496	5	JP "2001082699"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:02 AM
L497	5	JP "2001250161"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:02 AM
L498	6	JP "2002274000"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:03 AM
L499	4	JP "2002347852"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:03 AM
L500	11	JP "2003235733"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:04 AM
L501	0	JP H01233688	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:04 AM
L502	1	JP "01233688"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:04 AM
L503	3	JP "0394377"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:05 AM
L504	2	JP "04176311"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:05 AM
L505	5	JP "62130649"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:06 AM
L506	2	JP "62168512"	(FPRS; EPO; JPO;	AND	ON	ON	2022/03/24

			DERWENT; IBM_TDB)				12:07 AM
L507	4	KR "200435370"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:07 AM
L508	0	KR "1020050107747"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:08 AM
L509	0	KR "1020050107747"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:08 AM
L510	118	WO "0228241"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:09 AM
L511	19	WO "2004065258"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:10 AM
L512	62	WO "2005044067"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:10 AM
L513	13	WO "2005047111"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:11 AM
L514	13	WO "2006108578"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:11 AM
L515	12	WO "2007042486"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:11 AM
L516	65	WO "2007114685"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:12 AM
L517	20	WO "2007122144"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:13 AM
L518	17	WO "2007122208"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:14 AM
L519	92	WO "2008132571"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:15 AM
L520	17	WO "2009084061"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:15 AM
L521	15	WO "2009112291"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:15 AM
L522	18	WO "2009153161"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:15 AM
L523	49	WO "2010007633"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:16 AM
L524	17	WO "2010013146"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:16 AM
L525	60	WO "2010026053"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:16 AM
L526	22	WO "2010076048"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:17 AM
L527	12	WO "2010076263"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:17 AM
L528	11	WO "2010076761"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:17 AM
L529	15	WO "2010085824"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:18 AM
L530	19	WO "2010118545"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:18 AM

L531	11	WO "2010125326"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:18 AM
L532	12	WO "2010125329"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:19 AM
L533	24	(US-20120121765-$ | US-9359126-$ | US-20130101716-$ | US-20120100264-$ | US-20120126834-$ | US-20130084376-$ | US-20130149424-$ | US-20130084363-$ | US-9392902-$ | US-9290317-$ | US-20130209622-$ | US-9808112-$ | US-8916220-$ | US-20130327223-$ | US-9415931-$ | US-20140348984-$ | US-20140287104-$ | US-20140220191-$ | US-20140178538-$ | US-20140287105-$ | US-20160037961-$ | US-20150128525-$ | US-20150175347-$ | US-20150158666-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/24 12:23 AM
L534	34	WO "2011047836"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:25 AM
L535	46	WO "2011141532"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:26 AM
L536	14	WO "2012019902"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:26 AM
L537	8	WO "2014004231"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:27 AM
L538	8	WO "2014004564"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:27 AM
L539	8	(US-20150173558-$ | US-20150314954-$ | US-20150329282-$ | US-20150375926-$ | US-20160194146-$ | US-20160251150-$ | US-6025000-$ | US-5895672-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/03/24 12:31 AM
L540	19	WO "2015075584"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:32 AM
L541	14	WO "2015107484"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:33 AM
L542	5	WO "2016077916"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:33 AM
L543	5	WO "9851396"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:34 AM

L544	21	WO "9903753"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/03/24 12:34 AM
L545	3	"10960453"	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/28 11:12 PM
L546	4216623	WO "2014184651"	(US-PGPUB; USPAT)	OR	ON	ON	2022/04/28 11:12 PM
L547	14137152	WO "2014184651"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/04/28 11:12 PM
L548	8	WO "2014184651"	(FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/04/28 11:13 PM
L549	4	"10273076"	(US-PGPUB; USPAT)	AND	ON	ON	2022/04/28 11:14 PM
L550	15	EP "2284101"	(US-PGPUB; USPAT)	AND	ON	ON	2022/04/28 11:14 PM
L551	7	EP "2284101"	(EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/04/28 11:15 PM
L552	2	WO "2015104171"	(EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/04/28 11:15 PM
L553	2	WO "2010066705"	(EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/04/28 11:16 PM
L554	3	"10131018"	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/02 11:38 AM
L555	1	"20090007794"	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/07 04:48 PM
L556	1	"20150250353"	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/07 04:51 PM
L557	2	"20150056352"	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/07 04:52 PM
L558	2	"20140057033"	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/07 04:52 PM
L559	1	"14152478"	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/07 04:53 PM
L560	691	((US-20110030563-A9 OR US-20100288131-A1 OR US-20100203208-A1 OR US-20100186599-A1 OR US-20100154651-A1 OR US-20100154647-A1 OR US-20100129512-A1 OR US-20100101428-A1 OR US-20100077928-A1 OR US-20100064899-A1 OR US-20100043646-A1 OR US-20100043645-A1 OR US-20100043644-A1 OR US-20100037779-A1 OR US-20090280219-A1 OR US-20090255410-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	2022/07/07 04:55 PM

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		OR US-20160157666-A1 OR US-20120100259-A1 OR US-20150238044-A1 OR US-20110259204-A1 OR US-20150068405-A1 OR US-20150056352-A1 OR US-20150001100-A1 OR US-20140318381-A1 OR US-20140305315-A1 OR US-20140186498-A1 OR US-20130186282-A1 OR US-20140318378-A1 OR US-20140287104-A1 OR US-20130133522-A1 OR US-20130118360-A1 OR US-20050223904-A1 OR US-20090183640-A1 OR US-20090175986-A1 OR US-20040216616-A1 OR US-20130129876-A1 OR US-20100078480-A1 OR US-20020048621-A1 OR US-20140242239-A1 OR US-20190023483-A1 OR US-20160192807-A1 OR US-20160176625-A1 OR US-20160174757-A1 OR US-20150327717-A1 OR US-20160051080-A1 OR US-20160045061-A1 OR US-20160045059-A1 OR US-20150297021-A1 OR US-20150230654-A1 OR US-20150225169-A1 OR US-20150183577-A1 OR US-20150164262-A1 OR US-20150135967-A1 OR US-20150135962-A1 OR US-20150082989-A1 OR US-20150040769-A1 OR US-20120285334-A1 OR US-20140224130-A1 OR US-20140174300-A1 OR US-					

		20140130680-A1 OR US-20140076169-A1 OR US-20130344206-A1 OR US-20130312619-A1 OR US-20130095214-A1 OR US-20130064937-A1 OR US-20130014648-A1 OR US-20120097041-A1 OR US-20110262601-A1 OR US-20110189362-A1 OR US-20100282087-A1 OR US-20100126354-A1 OR US-20040005384-A1 OR US-20020088807-A1 OR US-20080026121-A1 OR US-20050266122-A1 OR US-20050150391-A1 OR US-20110005399-A1 OR US-20130055903-A1 OR US-20120295234-A1 OR US-20150056340-A1 OR US-20150056331-A1 OR US-20150010680-A9 OR US-20140302204-A1 OR US-20130327223-A1 OR US-20130230627-A1 OR US-20130209618-A1 OR US-20130136828-A1 OR US-20130129872-A1 OR US-20190359418-A1 OR US-20170020329-A1 OR US-20160340110-A1 OR US-20160332759-A1 OR US-20150175347-A1 OR US-20160251150-A1 OR US-20160242594-A1 OR US-20150239652-A1 OR US-20160075506-A1 OR US-20160037961-A1 OR US-20150329282-A1 OR US-20200231372-A1 OR US-20190382191-A1 OR US-20210147138-A1 OR US-20180354713-A1					

		OR US-20160302613-A1 OR US-20150072049-A1).did. AND PGPB.dbnm.) OR ((US-8304006-B2 OR US-8220382-B2 OR US-8202560-B2 OR US-8161868-B2 OR US-8161866-B2 OR US-8147887-B2 OR US-7993691-B2 OR US-7946217-B2 OR US-7930972-B2 OR US-7856921-B2 OR US-7854192-B2 OR US-7836819-B2 OR US-7815953-B2 OR US-7703381-B2 OR US-7624673-B2 OR US-7604826-B2 OR US-7279188-B2 OR US-5897899-A OR US-5826492-A OR US-5762987-A OR US-5649472-A OR US-5402707-A OR US-5398595-A OR US-5327815-A OR US-4846052-A OR US-5325765-A OR US-6079315-A OR US-6182554-B1 OR US-6644173-B2 OR US-7490542-B2 OR US-4136202-A OR US-7552672-B2 OR US-8640604-B2 OR US-8322271-B2 OR US-7856920-B2 OR US-6606938-B2 OR US-8846120-B2 OR US-6672200-B2 OR US-6666130-B2 OR US-6142063-A OR US-6082247-A OR US-3615708-A OR US-2968560-A OR US-9486108-B1 OR US-11001437-B2 OR US-11001436-B2 OR US-11001433-B2 OR US-10144579-B2 OR US-9764891-B1 OR US-5472719-A OR US-5242702-A OR US-9232871-B2 OR US-9463921-B2 OR US-6832542-B2 OR US-					

		8720320-B1 OR US-8794125-B1 OR US-7063238-B2 OR US-8561524-B2 OR US-7836820-B2 OR US-5656311-A OR US-9402501-B1 OR US-11166587-B2 OR US-8927037-B2 OR US-7681492-B2 OR US-6189438-B1 OR US-5473973-A OR US-4882982-A OR US-10994923-B2 OR US-9320385-B2 OR US-7444925-B2 OR US-8087347-B2 OR US-8695484-B2 OR US-11254491-B2 OR US-10870531-B2 OR US-8424447-B2 OR US-5460078-A OR US-4867993-A OR US-9428328-B2 OR US-9415931-B2 OR US-9409704-B2 OR US-9392902-B2 OR US-8512886-B2 OR US-8039029-B2 OR US-8491948-B2 OR US-9434525-B2 OR US-9277837-B2 OR US-10960453-B2 OR US-D889970-S OR US-D889265-S OR US-10273076-B2 OR US-11198557-B2 OR US-10926946-B2 OR US-10835074-B2 OR US-10730691-B2 OR US-10143330-B2 OR US-9783361-B2 OR US-9540167-B2 OR US-9072402-B2).did. AND USPT.dbnm.) OR ((WO-02081337-A1 OR WO-2010076698-A1 OR JP-4836776-B2 OR CA-2765371-A1 OR CA-2819140-A1 OR EP-2520202-A1 OR CA-2811153-A1 OR EP-2647317-A1 OR CA-2521063-A1 OR FR-2993869-A1 OR WO-2008113779-A2 OR EP-1864917-A1 OR WO-2012011053-A1					

		OR WO-2008125256-A1 OR WO-2014041419-A1 OR WO-2014033339-A1 OR EP-1992575-A1 OR EP-1500357-A1 OR WO-2009050540-A1 OR EP-2374733-A1 OR EP-2345602-A1 OR EP-1364605-A1 OR WO-2015136433-A1 OR EP-2612579-A1 OR WO-2012076135-A1 OR EP-2409608-A1 OR WO-2013079814-A1 OR KR-200450676-Y1 OR CA-2526785-A1 OR EP-1775234-A1 OR WO-2006045537-A1 OR WO-2007114685-A1 OR WO-2008132571-A1 OR WO-2008117329-A1 OR WO-03059778-A2 OR WO-2004064582-A2 OR CH-711427-A2 OR EP-3181484-A1 OR WO-2015117892-A1 OR GB-2520492-A OR EP-2966006-A1 OR GB-2530062-A OR CA-2701826-C OR EP-2868598-A1 OR EP-2298671-A1 OR GB-2528289-A OR CA-2878097-A1 OR CA-2927665-A1 OR DE-102010044251-A1 OR DE-102012110446-A1 OR DE-1207866-B OR GB-1402799-A OR WO-2010085824-A1).did. AND FPRS.dbnm.) OR ((EP-1775234-A1 OR WO-2006030461-A1 OR JP-2000355375-A OR US-20050084569-A1 OR GB-2531687-A OR GB-2530680-A OR GB-2530062-A OR WO-2015177591-A2 OR WO-2015128799-A1 OR ES-2538740-A1 OR EP-2886490-A1 OR WO-2014191044-A1 OR WO-2014188285-A1 OR DE-					

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		GB-2569622-A OR GB-2569624-A OR US-20180354713-A1 OR WO-2012004133-A1 OR DE-102010027485-A1 OR JP-2001250161-A OR JP-2003235733-A OR WO-2015075584-A1 OR WO-2014184651-A1 OR EP-2284101-A1 OR WO-2015104171-A1 OR WO-2010066705-A1).did. AND DWPI.dbnm.) OR ((US-2968560-A).did. AND USOC.dbnm.) OR ((EP-1775234-A1 OR WO-2008132571-A1 OR WO-2008125256-A1 OR WO-2007114685-A1 OR WO-2006045537-A1 OR EP-1500357-A1 OR DE-3432339-A1 OR WO-2010066705-A1).did. AND EPAB.dbnm.) OR ((JP-2000355375-A OR JP-2012005818-A OR JP-2005211659-A OR JP-01310612-A OR JP-02289207-A).did. AND JPAB.dbnm.)					
L561	46	"7028604"	(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	2022/07/07 04:56 PM
L562	45	("2968560" | "3403617" | "3408921" | "3596588" | "3607297" | "5472719" | "5762987").pn. OR ("7028604").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 04:57 PM

L563	9	"7946271"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:02 PM
L564	3	"9248955"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:02 PM
L565	2	"14939621"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:03 PM
L566	2	"20050129809"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:04 PM
L567	10	"7883733"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:04 PM
L568	1	"9144341"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:04 PM
L569	0	"201302239820"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:05 PM
L570	0	"20132239820"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:05 PM
L571	0	"2013239820"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:05 PM
L572	2	"20110274794"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/07 05:05 PM
L573	698	((US-20110030563-A9 OR US-20100288131-A1 OR US-20100203208-A1 OR US-20100186599-A1 OR US-20100154651-A1 OR US-20100154647-A1 OR US-20100129512-A1 OR US-20100101428-A1 OR US-20100077928-A1 OR US-20100064899-A1 OR US-20100043646-A1 OR US-20100043645-A1 OR US-20100043644-A1 OR US-20100037779-A1 OR US-20090280219-A1 OR US-20090255410-A1 OR US-20090205503-A1 OR US-20090158938-A1 OR US-20090126577-A1 OR US-20090017177-A1 OR US-20090007796-A1 OR US-20090007794-A1 OR US-20080317931-A1 OR US-20080245236-A1 OR US-20080216666-A1 OR US-20080105131-A1 OR US-	(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	2022/07/07 05:07 PM

		20070186784-A1 OR US-20070084352-A1 OR US-20070068395-A1 OR US-20100303964-A1 OR US-20070224319-A1 OR US-20060110507-A1 OR US-20060019000-A1 OR US-20120258210-A1 OR US-20140287105-A1 OR US-20140020565-A1 OR US-20100147156-A1 OR US-20140026761-A1 OR US-20150108011-A1 OR US-20070144355-A1 OR US-20150196159-A1 OR US-20140072676-A1 OR US-20050051478-A1 OR US-20190233200-A1 OR US-20190225414-A1 OR US-20190225413-A1 OR US-20190202629-A1 OR US-20190177079-A1 OR US-20190177078-A1 OR US-20190167031-A1 OR US-20140287099-A1 OR US-20190100376-A1 OR US-20190084758-A1 OR US-20190077588-A1 OR US-20160009486-A1 OR US-20150314955-A1 OR US-20190047771-A1 OR US-20190055084-A1 OR US-20190055083-A1 OR US-20190047782-A1 OR US-20190016527-A1 OR US-20130340626-A1 OR US-20130017303-A1 OR US-20190002192-A1 OR US-20180370720-A1 OR US-20180346239-A1 OR US-20180332995-A1 OR US-20180325309-A1 OR US-20180325301-A1 OR US-20180319582-A1					

		OR US-20180305194-A1 OR US-20150017293-A1 OR US-20180303275-A1 OR US-20180297776-A1 OR US-20180297775-A1 OR US-20180297309-A1 OR US-20180290825-A1 OR US-20180290824-A1 OR US-20180273286-A1 OR US-20180257856-A1 OR US-20180237217-A1 OR US-20180220840-A1 OR US-20170143158-A1 OR US-20180215533-A1 OR US-20180206667-A1 OR US-20180201436-A1 OR US-20150246741-A1 OR US-20180178973-A1 OR US-20180178972-A1 OR US-20180162634-A1 OR US-20180148250-A1 OR US-20160137402-A1 OR US-20180134485-A1 OR US-20160198732-A1 OR US-20150158666-A1 OR US-20180125288-A1 OR US-20180116446-A1 OR US-20150360854-A1 OR US-20180084941-A1 OR US-20140272018-A1 OR US-20180044104-A1 OR US-20180037402-A1 OR US-20180029790-A1 OR US-20180016092-A1 OR US-20180002104-A1 OR US-20170362020-A1 OR US-20150246768-A1 OR US-20170355515-A1 OR US-20170334624-A1 OR US-20170334623-A1 OR US-20170327308-A1 OR US-20170326617-A1 OR US-20170320658-A1 OR US-					

		20170313496-A1 OR US-20150245733-A1 OR US-20170305653-A1 OR US-20140127364-A1 OR US-20170280750-A1 OR US-20170275090-A1 OR US-20170275089-A1 OR US-20170275088-A1 OR US-20170275087-A1 OR US-20140141128-A1 OR US-20170258264-A1 OR US-20170174418-A1 OR US-20100203198-A1 OR US-20110189350-A1 OR US-20150150409-A1 OR US-20170120203-A1 OR US-20150344285-A1 OR US-20170081111-A1 OR US-20170071395-A1 OR US-20110303095-A1 OR US-20170050799-A1 OR US-20150257580-A1 OR US-20170042365-A1 OR US-20170036857-A1 OR US-20170036854-A1 OR US-20130236609-A1 OR US-20160288990-A1 OR US-20160345769-A1 OR US-20130059039-A1 OR US-20130078341-A1 OR US-20160332805-A1 OR US-20160325898-A1 OR US-20160280430-A1 OR US-20160214787-A1 OR US-20160206133-A1 OR US-20160194147-A1 OR US-20160176624-A1 OR US-20150201791-A1 OR US-20160157660-A1 OR US-20160068334-A1 OR US-20160145037-A1 OR US-20160137401-A1 OR US-20160130076-A1 OR US-20160120356-A1					

		OR US-20160114967-A1 OR US-20160113435-A1 OR US-20160107831-A1 OR US-20160066591-A1 OR US-20160052706-A1 OR US-20160016727-A1 OR US-20160001968-A1 OR US-20160001903-A1 OR US-20150368033-A1 OR US-20150353275-A1 OR US-20150353272-A1 OR US-20150336736-A1 OR US-20150320254-A1 OR US-20150314954-A1 OR US-20150307266-A1 OR US-20150282663-A1 OR US-20150272379-A1 OR US-20150251847-A1 OR US-20150208852-A1 OR US-20150203285-A1 OR US-20110283890-A1 OR US-20150157164-A1 OR US-20150151903-A1 OR US-20150140182-A1 OR US-20150125576-A1 OR US-20140272016-A1 OR US-20120070543-A1 OR US-20150086680-A1 OR US-20120070551-A1 OR US-20150072053-A1 OR US-20150072052-A1 OR US-20150064324-A1 OR US-20150056351-A1 OR US-20150047509-A1 OR US-20150050391-A1 OR US-20140170271-A1 OR US-20150021209-A1 OR US-20150017290-A1 OR US-20140377413-A1 OR US-20140373725-A1 OR US-20120321756-A1 OR US-20140356484-A1 OR US-20140342060-A1 OR US-					

		20140342059-A1 OR US-20140318380-A1 OR US-20140318379-A1 OR US-20140314919-A1 OR US-20140290494-A1 OR US-20120251671-A1 OR US-20140220189-A1 OR US-20140220190-A1 OR US-20140205721-A1 OR US-20140196608-A1 OR US-20140190863-A1 OR US-20140178538-A1 OR US-20140170269-A1 OR US-20140161940-A1 OR US-20140161936-A1 OR US-20090223375-A1 OR US-20140123859-A1 OR US-20140120217-A1 OR US-20140106036-A1 OR US-20100159109-A1 OR US-20140090564-A1 OR US-20140087028-A1 OR US-20140072677-A1 OR US-20140072675-A1 OR US-20140069280-A1 OR US-20140065269-A1 OR US-20120121779-A1 OR US-20140053735-A1 OR US-20140037802-A1 OR US-20140017359-A1 OR US-20140004231-A1 OR US-20130302476-A1 OR US-20100303965-A1 OR US-20130270176-A1 OR US-20130259983-A1 OR US-20130247774-A1 OR US-20130243910-A1 OR US-20130216663-A1 OR US-20100132564-A1 OR US-20100239734-A1 OR US-20130180409-A1 OR US-20130164414-A1 OR US-20130146495-A1 OR US-20130139700-A1					

		OR US-20130139699-A1 OR US-20130125762-A1 OR US-20120058226-A1 OR US-20130122157-A1 OR US-20130115340-A1 OR US-20130105340-A1 OR US-20130095212-A1 OR US-20130064936-A1 OR US-20130045307-A1 OR US-20130040021-A1 OR US-20130025466-A1 OR US-20120328739-A1 OR US-20120308688-A1 OR US-20120276264-A1 OR US-20120269933-A1 OR US-20120251668-A1 OR US-20120240779-A1 OR US-20120207896-A1 OR US-20120207895-A1 OR US-20120201933-A1 OR US-20120201932-A1 OR US-20120196008-A1 OR US-20100003371-A1 OR US-20080187638-A1 OR US-20120171333-A1 OR US-20120121780-A1 OR US-20120118166-A1 OR US-20120097602-A1 OR US-20120052164-A1 OR US-20120052163-A1 OR US-20120015081-A1 OR US-20120015080-A1 OR US-20110305801-A1 OR US-20110297005-A1 OR US-20110283891-A1 OR US-20110274794-A1 OR US-20110142996-A1 OR US-20110097450-A1 OR US-20110076361-A1 OR US-20110073607-A1 OR US-20110064852-A1 OR US-20110045144-A1 OR US-20110041702-A1 OR US-					

		20110020497-A1 OR US-20100307930-A1 OR US-20100297299-A1 OR US-20100206177-A1 OR US-20100180774-A1 OR US-20100178392-A1 OR US-20060196364-A1 OR US-20100154644-A1 OR US-20100108541-A1 OR US-20050150390-A1 OR US-20100062127-A1 OR US-20100047418-A1 OR US-20100005973-A1 OR US-20090320693-A1 OR US-20090320692-A1 OR US-20090263545-A1 OR US-20090235827-A1 OR US-20090211458-A1 OR US-20090110775-A1 OR US-20080257165-A1 OR US-20050115415-A1 OR US-20070181003-A1 OR US-20070148290-A1 OR US-20070062375-A1 OR US-20060236871-A1 OR US-20060174769-A1 OR US-20060065127-A1 OR US-20030172813-A1 OR US-20020078831-A1 OR US-20190208950-A1 OR US-20110168029-A1 OR US-20120285330-A1 OR US-20060107841-A1 OR US-20020023543-A1 OR US-20120118880-A1 OR US-20110274802-A1 OR US-20110197771-A1 OR US-20110185910-A1 OR US-20110100229-A1 OR US-20090223373-A1 OR US-20040250686-A1 OR US-20020152895-A1 OR US-20020144604-A1 OR US-20020144603-A1					

		OR US-20020144602-A1 OR US-20150230652-A1 OR US-20150027318-A1 OR US-20210261280-A1 OR US-20210253334-A1 OR US-20200253413-A1 OR US-20200231370-A1 OR US-20200189772-A1 OR US-20170043943-A1 OR US-20200017288-A1 OR US-20190047783-A1 OR US-20180362198-A1 OR US-20180242776-A1 OR US-20170361961-A1 OR US-20170360239-A1 OR US-20170360057-A1 OR US-20160311610-A1 OR US-20160311609-A1 OR US-20160280453-A1 OR US-20120090475-A1 OR US-20160145038-A1 OR US-20150158609-A1 OR US-20110117248-A1 OR US-20210331864-A1 OR US-20200121115-A1 OR US-20200047984-A1 OR US-20190328170-A1 OR US-20190313835-A1 OR US-20130129870-A1 OR US-20150201790-A1 OR US-20170355514-A1 OR US-20170319001-A1 OR US-20170295988-A1 OR US-20160157666-A1 OR US-20120100259-A1 OR US-20150238044-A1 OR US-20110259204-A1 OR US-20150068405-A1 OR US-20150056352-A1 OR US-20150001100-A1 OR US-20140318381-A1 OR US-20140305315-A1 OR US-20140186498-A1 OR US-					

		20130186282-A1 OR US-20140318378-A1 OR US-20140287104-A1 OR US-20130133522-A1 OR US-20130118360-A1 OR US-20050223904-A1 OR US-20090183640-A1 OR US-20090175986-A1 OR US-20040216616-A1 OR US-20130129876-A1 OR US-20100078480-A1 OR US-20020048621-A1 OR US-20140242239-A1 OR US-20190023483-A1 OR US-20160192807-A1 OR US-20160176625-A1 OR US-20160174757-A1 OR US-20150327717-A1 OR US-20160051080-A1 OR US-20160045061-A1 OR US-20160045059-A1 OR US-20150297021-A1 OR US-20150230654-A1 OR US-20150225169-A1 OR US-20150183577-A1 OR US-20150164262-A1 OR US-20150135967-A1 OR US-20150135962-A1 OR US-20150082989-A1 OR US-20150040769-A1 OR US-20120285334-A1 OR US-20140224130-A1 OR US-20140174300-A1 OR US-20140130680-A1 OR US-20140076169-A1 OR US-20130344206-A1 OR US-20130312619-A1 OR US-20130095214-A1 OR US-20130064937-A1 OR US-20130014648-A1 OR US-20120097041-A1 OR US-20110262601-A1 OR US-20110189362-A1 OR US-20100282087-A1					

		OR US-20100126354-A1 OR US-20040005384-A1 OR US-20020088807-A1 OR US-20080026121-A1 OR US-20050266122-A1 OR US-20050150391-A1 OR US-20110005399-A1 OR US-20130055903-A1 OR US-20120295234-A1 OR US-20150056340-A1 OR US-20150056331-A1 OR US-20150010680-A9 OR US-20140302204-A1 OR US-20130327223-A1 OR US-20130230627-A1 OR US-20130209618-A1 OR US-20130136828-A1 OR US-20130129872-A1 OR US-20190359418-A1 OR US-20170020329-A1 OR US-20160340110-A1 OR US-20160332759-A1 OR US-20150175347-A1 OR US-20160251150-A1 OR US-20160242594-A1 OR US-20150239652-A1 OR US-20160075506-A1 OR US-20160037961-A1 OR US-20150329282-A1 OR US-20200231372-A1 OR US-20190382191-A1 OR US-20210147138-A1 OR US-20180354713-A1 OR US-20160302613-A1 OR US-20150072049-A1 OR US-20170135516-A1 OR US-20050129809-A1).did. AND PGPB.dbnm.) OR ((US-8304006-B2 OR US-8220382-B2 OR US-8202560-B2 OR US-8161868-B2 OR US-8161866-B2 OR US-8147887-B2 OR US-7993691-B2 OR US-					

		7946217-B2 OR US- 7930972-B2 OR US- 7856921-B2 OR US- 7854192-B2 OR US- 7836819-B2 OR US- 7815953-B2 OR US- 7703381-B2 OR US- 7624673-B2 OR US- 7604826-B2 OR US- 7279188-B2 OR US- 5897899-A OR US- 5826492-A OR US- 5762987-A OR US- 5649472-A OR US- 5402707-A OR US- 5398595-A OR US- 5327815-A OR US- 4846052-A OR US- 5325765-A OR US- 6079315-A OR US- 6182554-B1 OR US- 6644173-B2 OR US- 7490542-B2 OR US- 4136202-A OR US- 7552672-B2 OR US- 8640604-B2 OR US- 8322271-B2 OR US- 7856920-B2 OR US- 6606938-B2 OR US- 8846120-B2 OR US- 6672200-B2 OR US- 6666130-B2 OR US- 6142063-A OR US- 6082247-A OR US- 3615708-A OR US- 2968560-A OR US- 9486108-B1 OR US- 11001437-B2 OR US- 11001436-B2 OR US- 11001433-B2 OR US- 10144579-B2 OR US- 9764891-B1 OR US- 5472719-A OR US- 5242702-A OR US- 9232871-B2 OR US- 9463921-B2 OR US- 6832542-B2 OR US- 8720320-B1 OR US- 8794125-B1 OR US- 7063238-B2 OR US- 8561524-B2 OR US- 7836820-B2 OR US- 5656311-A OR US- 9402501-B1 OR US- 11166587-B2 OR US- 8927037-B2 OR US- 7681492-B2 OR US- 6189438-B1 OR US-					

		5473973-A OR US-4882982-A OR US-10994923-B2 OR US-9320385-B2 OR US-7444925-B2 OR US-8087347-B2 OR US-8695484-B2 OR US-11254491-B2 OR US-10870531-B2 OR US-8424447-B2 OR US-5460078-A OR US-4867993-A OR US-9428328-B2 OR US-9415931-B2 OR US-9409704-B2 OR US-9392902-B2 OR US-8512886-B2 OR US-8039029-B2 OR US-8491948-B2 OR US-9434525-B2 OR US-9277837-B2 OR US-10960453-B2 OR US-D889970-S OR US-D889265-S OR US-10273076-B2 OR US-11198557-B2 OR US-10926946-B2 OR US-10835074-B2 OR US-10730691-B2 OR US-10143330-B2 OR US-9783361-B2 OR US-9540167-B2 OR US-9072402-B2 OR US-7028604-B2 OR US-9248955-B2 OR US-7883733-B2 OR US-9144341-B2).did. AND USPT.dbnm.) OR ((WO-02081337-A1 OR WO-2010076698-A1 OR JP-4836776-B2 OR CA-2765371-A1 OR CA-2819140-A1 OR EP-2520202-A1 OR CA-2811153-A1 OR EP-2647317-A1 OR CA-2521063-A1 OR FR-2993869-A1 OR WO-2008113779-A2 OR EP-1864917-A1 OR WO-2012011053-A1 OR WO-2008125256-A1 OR WO-2014041419-A1 OR WO-2014033339-A1 OR EP-1992575-A1 OR EP-1500357-A1 OR WO-2009050540-A1					

		OR EP-2374733-A1 OR EP-2345602-A1 OR EP-1364605-A1 OR WO-2015136433-A1 OR EP-2612579-A1 OR WO-2012076135-A1 OR EP-2409608-A1 OR WO-2013079814-A1 OR KR-200450676-Y1 OR CA-2526785-A1 OR EP-1775234-A1 OR WO-2006045537-A1 OR WO-2007114685-A1 OR WO-2008132571-A1 OR WO-2008117329-A1 OR WO-03059778-A2 OR WO-2004064582-A2 OR CH-711427-A2 OR EP-3181484-A1 OR WO-2015117892-A1 OR GB-2520492-A OR EP-2966006-A1 OR GB-2530062-A OR CA-2701826-C OR EP-2868598-A1 OR EP-2298671-A1 OR GB-2528289-A OR CA-2878097-A1 OR CA-2927665-A1 OR DE-102010044251-A1 OR DE-102012110446-A1 OR DE-1207866-B OR GB-1402799-A OR WO-2010085824-A1).did. AND FPRS.dbnm.) OR ((EP-1775234-A1 OR WO-2006030461-A1 OR JP-2000355375-A OR US-20050084569-A1 OR GB-2531687-A OR GB-2530680-A OR GB-2530062-A OR WO-2015177591-A2 OR WO-2015128799-A1 OR ES-2538740-A1 OR EP-2886490-A1 OR WO-2014191044-A1 OR WO-2014188285-A1 OR DE-102012223291-A1 OR WO-2014061045-A1 OR FR-2993869-A1 OR EP-2647317-A1 OR ES-2398277-A1 OR WO-2012150542-A1 OR WO-2012123106-					

		A1 OR WO-2012110323-A1 OR WO-2012100836-A1 OR WO-2012100976-A1 OR WO-2013135937-A2 OR WO-2012072509-A1 OR WO-2012042487-A1 OR WO-2012034819-A1 OR FR-2962893-A1 OR WO-2011159162-A1 OR WO-2011159163-A1 OR WO-2013060918-A1 OR EP-2374733-A1 OR WO-2010137953-A1 OR WO-2010118543-A1 OR WO-2009103592-A1 OR WO-2009084059-A1 OR WO-2009050540-A1 OR WO-2008148834-A1 OR EP-1992575-A1 OR WO-2008132571-A1 OR WO-2008125256-A1 OR WO-2008113779-A2 OR WO-02081337-A1 OR WO-2015136433-A1 OR US-20150374165-A1 OR WO-2010137947-A1 OR EP-1500357-A1 OR US-20140072675-A1 OR WO-2011000725-A1 OR WO-2011000723-A2 OR US-20170027374-A1 OR WO-2015091301-A1 OR WO-2015055849-A1 OR DE-102010044251-A1 OR WO-2011141532-A1 OR EP-2345351-A1 OR EP-2345352-A1 OR WO-2011000724-A1 OR WO-2014001563-A1 OR WO-2014001564-A1 OR GB-2569622-A OR GB-2569624-A OR US-20180354713-A1 OR WO-2012004133-A1 OR DE-102010027485-A1 OR JP-2001250161-A OR JP-2003235733-					

		A OR WO-2015075584-A1 OR WO-2014184651-A1 OR EP-2284101-A1 OR WO-2015104171-A1 OR WO-2010066705-A1 OR EP-1295554-A1).did. AND DWPI.dbnm.) OR ((US-2968560-A).did. AND USOC.dbnm.) OR ((EP-1775234-A1 OR WO-2008132571-A1 OR WO-2008125256-A1 OR WO-2007114685-A1 OR WO-2006045537-A1 OR EP-1500357-A1 OR DE-3432339-A1 OR WO-2010066705-A1).did. AND EPAB.dbnm.) OR ((JP-2000355375-A OR JP-2012005818-A OR JP-2005211659-A OR JP-01310612-A OR JP-02289207-A).did. AND JPAB.dbnm.)					
L574	36	99/286,289R,295,302R,307,323.ccls. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 10:36 AM
L575	20	B65D85/8061.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 10:43 AM
L576	35	B65D85/8058.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 10:55 AM
L577	27	A47J31/3628.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode)	(USPAT)	ADJ	ON	ON	2022/07/11 10:56 AM

		AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)					
L578	26	A47J31/3638.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 10:57 AM
L579	134	A47J31/407.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 10:58 AM
L580	8	("6698333" | "7210401" | "7578230" | "7640845" | "8459179" | "8919240" | "9198533" | "20020048621").pn. OR ("10076208").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 11:11 AM
L581	48	B65D85/8043.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 11:13 AM
L582	20	B65D2203/06.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(USPAT)	ADJ	ON	ON	2022/07/11 11:17 AM
L583	76	("4207989" | "4215797" | "4557414" | "4969965" | "4977772" | "5242630" | "5284435" | "5405675" | "5651235" | "5685189" | "5722319" | "5840189" | "5887470" | "6217811" | "6440530" | "6540497" | "6739500" | "6761848" | "6981177" | "7121420" | "7140812" | "7235197" | "7510675" | "7832188"	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 11:17 AM

		| "8012521" | "8220704" | "8282382" | "8322177" | "8459087" | "8535743" | "8613879" | "20030185947" | "20030235660" | "20040010998" | "20040012109" | "20040058129" | "20040146602" | "20040185152" | "20040185154" | "20040185155" | "20040185156" | "20040262255" | "20050035011" | "20050123724" | "20050151300" | "20050209076" | "20050247713" | "20070039433" | "20070062396" | "20070241473" | "20080057312" | "20080072536" | "20080118720" | "20090041626" | "20090109518" | "20090134547" | "20090165876" | "20090166562" | "20100001014" | "20100078480" | "20100116775" | "20100200449" | "20100213193" | "20100287893" | "20110024310" | "20110028293" | "20120045554" | "20120064293" | "20120225171" | "20120305584" | "20130062364" | "20130071589" | "20130139190" | "20130202826" | "20130333575" | "20150041470").pn. OR ("11142379").urpn. AND (PGPB | USPT | USOC).dbnm.					
L584	40	B65D2203/10.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/07/11 11:22 AM

		AND (seal OR (O adj3 ring) OR gasket)					
L585	0	"17547363"	(USPAT)	ADJ	ON	ON	2022/07/11 01:07 PM
L586	3	"17547363"	(US-PGPUB; USPAT)	ADJ	ON	ON	2022/07/11 01:08 PM
L587	101	99/286,289R,295,302R, 307,323.ccls. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:12 PM
L588	67	B65D85/8061.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:12 PM
L589	100	B65D85/8058.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:13 PM
L590	76	A47J31/3628.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:14 PM
L591	68	A47J31/3638.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:17 PM
L592	371	A47J31/407.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:17 PM

L593	256	A47J31/4492.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:35 PM
L594	134	B65D85/8043.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:45 PM
L595	50	B65D65/466.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:46 PM
L596	62	B65D2203/06.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:48 PM
L597	102	B65D2203/10.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner) AND (seal OR (O adj3 ring) OR gasket)	(US-PGPUB; USPAT; USOCR)	ADJ	ON	ON	2022/07/11 01:49 PM
L598	11	D734665	(US-PGPUB; USPAT)	OR	ON	ON	2022/08/03 11:04 AM
L599	25	"3744026"	(US-PGPUB; USPAT)	OR	ON	ON	2022/08/03 11:05 AM
L600	214	"6079315"	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 11:06 AM
L601	60	"7412921"	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 11:06 AM
L602	5	"9756974"	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 11:17 AM
L603	6	("20100288131"|"20130064937"|"20160242594"|"6079315"|"7412921"|"7856920").PN.	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 11:18 AM

L604	39	(US-0014648-$ | US-0017293-$ | US-0047509-$ | US-0055084-$ | US-0071395-$ | US-0078480-$ | US-0129512-$ | US-0130076-$ | US-0144603-$ | US-0174757-$ | US-0225169-$ | US-0236609-$ | US-0242239-$ | US-0295988-$ | US-0325309-$ | US-0368033-$ | US-20020144603-$ | US-20100078480-$ | US-20100129512-$ | US-20130014648-$ | US-20130236609-$ | US-20140242239-$ | US-20150017293-$ | US-20150047509-$ | US-20150225169-$ | US-20150368033-$ | US-20160130076-$ | US-20160174757-$ | US-20170071395-$ | US-20170295988-$ | US-20180325309-$ | US-20190055084-$ | US-2780866-$ | US-3744026-$ | US-6079315-$ | US-6415233-$ | US-7412921-$ | US-9756974-$ | US-D734665-$).DID.	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 11:19 AM
L605	4	WO "2004065258"	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 11:25 AM
L606	25	WO "2004065258"	(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)	AND	ON	ON	2022/08/03 11:25 AM

L607	3	"20090324791"	(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)	AND	ON	ON	2022/08/03 11:26 AM
L608	25	"11254491"	(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)	AND	ON	ON	2022/08/03 11:53 AM
L609	154	"726793"	(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)	AND	ON	ON	2022/08/03 12:02 PM
L610	47	"726793"	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 12:02 PM
L611	1	"0726793"	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 12:03 PM
L612	24	(US-0078831-$ | US-0099597-$ | US-0105131-$ | US-0112222-$ | US-	(US-PGPUB; USPAT)	AND	ON	ON	2022/08/03 12:03 PM

		0205747-$ | US-0230941-$ | US-0233921-$ | US-0265659-$ | US-0269933-$ | US-11254491-$ | US-20020078831-$ | US-20040112222-$ | US-20060230941-$ | US-20060233921-$ | US-20080105131-$ | US-20090205747-$ | US-20110265659-$ | US-20120269933-$ | US-20130099597-$ | US-2145759-$ | US-3387553-$ | US-3437253-$ | US-5261558-$ | US-6142063-$).DID.					
L613	4	426/115.ccls. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:05 PM
L614	48	99/295.ccls. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:13 PM
L615	26	B65D85/8061.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:20 PM
L616	68	B65D85/8058.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:21 PM
L617	32	A47J31/3628.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:21 PM
L618	31	A47J31/3638.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:22 PM

L619	194	A47J31/407.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:22 PM
L620	171	A47J31/4492.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 12:22 PM
L621	171	A47J31/4492.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	AND	ON	ON	2022/08/03 12:22 PM
L622	15	B65D65/466.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	AND	ON	ON	2022/08/03 12:26 PM
L623	32	B65D2203/06.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	AND	ON	ON	2022/08/03 12:26 PM
L624	62	B65D2203/10.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	AND	ON	ON	2022/08/03 12:28 PM
L625	4	426/115.ccls. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 04:45 PM
L626	56	B65D85/8043.cpc. AND (capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)	(USPAT)	ADJ	ON	ON	2022/08/03 04:46 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N141	33	"99".clas. and ((capsule) and	(USPAT)	OR	OFF	OFF	2018/10/17 01:30 PM

		(piercing)).clm.					
N142	74	"99".clas. and ((capsule or cartridge) and (piercing)).clm.	(USPAT)	OR	OFF	OFF	2018/10/17 01:58 PM
N145	33	99/286,289R,295,302R, 307,323.ccls. and ((capsule) and (piercing)).clm.	(USPAT)	AND	ON	ON	2018/10/19 10:49 AM
N146	0	"13326291"	(USPAT)	AND	ON	ON	2018/10/19 11:13 AM
N344	124	"99".clas. and ((coffee) and (chamber or receptacle) and (spring)).clm.	(USPAT)	OR	OFF	OFF	2021/12/13 01:57 PM
N346	138	"99".clas. and ((coffee) and (chamber or receptacle or holder) and (spring)).clm.	(USPAT)	OR	OFF	OFF	2021/12/22 09:44 AM
N347	46	"4882982"	(USPAT)	OR	OFF	OFF	2021/12/22 10:11 AM
N348	0	"16900462"	(USPAT)	OR	OFF	OFF	2021/12/22 10:45 AM
N349	12	99$.clas. AND ((capsule OR cartridge OR pod) AND (identif$4 OR RFID OR barcode) AND (sensor OR detector OR scanner)).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2022/08/03 12:29 PM

Filed Via EFS @ USTO.Gov on May 25, 2022
Attorney Docket No.: 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012
For: Portion Capsule Having An Identifier	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant submits this statement in accordance with its duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Copies of foreign patent documents and non-patent literature, together with a listing on form PTO/SB/08a are submitted herewith.

This Information Disclosure Statement is being submitted after the mailing of a first Office Action and before a Notice of Allowance. A fee of $260.00 is believed to be due; however, if any additional fee is due with the filing of this paper, please charge the amount to Deposit Account 50-1097.

Date: May 25, 2022

/Paul J. Palinski/

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Attorney for Applicant
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29 W. Lawrence Street - Suite 210
Pontiac, MI 48342
(248) 292-2920

Customer No. 25215

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

U.S. PATENTS					
Examiner Initials*	Cite No.	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document
	1.	D734,665	S	07/21/2015	Cahen et al.
	2.	3,744,026		07/03/1973	Wolff
	3.	6,079,315	A	06/27/2000	Beaulieu et al.
	4.	7,412,921	B2	08/19/2008	Hu et al.
	5.	9,756,974	B2	09/12/2017	Rivera

U.S. PATENT APPLICATION PUBLICATIONS					
Examiner Initials*	Cite No.	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document
	1.	2002/0144603	A1	10/10/2002	Taylor
	2.	2010/0078480	A1	04/01/2010	Aker
	3.	2010/0129512	A1	05/27/2010	Accursi
	4.	2013/0014648	A1	01/17/2013	Rognon et al.
	5.	2013/0236609	A1	09/12/2013	Magniet et al.
	6.	2014/0242239	A1	08/28/2014	Boggavarapu
	7.	2015/0017293	A1	01/15/2015	Carr et al.
	8.	2015/0047509	A1	02/19/2015	Trombetta et al.
	9.	2015/0225169	A1	08/13/2015	Jarisch
	10.	2015/0368033	A1	12/24/2015	Krug et al.
	11.	2016/0130076	A1	05/12/2016	Jarisch
	12.	2016/0174757	A1	06/23/2016	Rivera
	13.	2017/0071395	A1	03/16/2017	Krüger et al.
	14.	2017/0295988	A1	10/19/2017	Chung
	15.	2018/0325309	A1	11/15/2018	Short et al.
	16.	2019/0055084	A1	02/21/2019	D'Urso

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	T[5]
	1.	2780866	EP	B1	09/24/2014	Jarisch et al.	
	2.	S6415233	JP	A	01/19/1989	Shioyama	Abs.
	3.	2014/191044	WO	A1	12/04/2014	Doglioni	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 508 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1.	Nespreso Vertuo Plus User Manual, accessed on April 22, 2022, from: https://www.nespresso.com/shared_res/manuals/vertuoline/www_VERTUOPLUS_C_NESPRESSO_Z1(EN_FR_ES).pdf, and under Document Properties in Adobe includes a 10/6/2016 Created Date and a 10/6/2016 Modified Date.	
	2.	Final Order On Claim Construction, dated March 10, 2022, in Case No. 2:21-cv-03402-GW (AGRx)	
	3.	Non-Final Office Action in US 17/547,363, dated April 04, 2022 (Atty. Docket No. 1859.029USC12)	
	4.	Non-Final Office Action in US 17/670,629, dated April 15, 2022 (Atty. Docket No. 1859.029USC13)	
	5.	Petitioner's Request For Rehearing Of The PTAB's Denial of Inter Partes Review of U.S. Patent No. 10,858,176, filed on February 17, 2022.	
	6.	Petitioner's Request For Rehearing Of The PTAB's Denial of Inter Partes Review of U.S. Patent No. 10,858,177, filed on February 17, 2022.	
	7.	Petitioner's Request For Rehearing Of The PTAB's Denial of Inter Partes Review of U.S. Patent No. 10,870,531, filed on February 17, 2022.	
	8.	Redacted Memorandum Of Points And Authorities In Support Of Nespresso USA, INC.'s Motion For Summary Judgement of Noninfringement, dated April 01, 2022, in Case No. 2:21-cv-03402-GW (AGRx)	
	9.	Redacted Nespresso USA, INC.'S Separate Statement Of Uncontroverted Facts And Conclusions Of Law In Support Of Its Motion For Summary Judgement Of Noninfringement, dated April 01, 2022, in Case No. 2:21-cv-03402-GW (AGRx)	
	10.	Redacted Declaration of Christian Jarisch, dated March 30, 2022, and filed in Case No. 2:21-cv-03402-GW (AGRx) on April 01, 2022.	
	11.	Opposition Appeal Against EP 3023362, dated December 20, 2021, and appended documents.	
	12.	Exhibit 1045 (English Translation of DE 10 2011 010 534.4) filed by Nespresso USA in IPR2021-01223	
	13.	Exhibit 1046 (English Translation of DE 10 2010 031 988.0) filed by Nespresso USA in IPR2021-01223	
	14.	Exhibit 1047 (English Translation of DE 10 2010 044 251.8) filed by Nespresso USA in IPR2021-01223	
	15.	Third Party Observations against EP 19 165 220.5 (3 533 726), filed by Société des Produits Nestle S.A., August 26, 2021	
	16.	Opposition against EP 3 521 209, filed by Société des Produits Nestle S.A., January 22, 2020	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

EXAMINER SIGNATURE			
Examiner Signature	/JIMMY CHOU/	Date Considered	08/03/2022
*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.			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 510 of 532

Filed via EFS @ USPTO.gov on March 30, 2022
Attorney Docket No. 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012
For: Portion Capsule Having An Identifier	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Under 37 C.F.R. 1.97 (e)(2) AFTER FINAL – Fee Required

Applicant submits this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Copies of foreign patent documents and non-patent literature together with a listing on form PTO/SB/08a are submitted herewith. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

I, the person signing below, state 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 my knowledge, after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. *37 C.F.R. § 1.97(e)(2).*

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 511 of 532

This Information Disclosure Statement is being submitted prior to the payment of the issue fee. A fee of $260.00 is believed to be due, however, if any additional fee is due with the filing of this paper, please charge the amount to deposit account 50-1097.

Date: August 30, 2022

/Paul J. Palinski/

Paul J. Palinski

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Attorney/Agent for Applicant
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29 W. Lawrence Street - Suite 210
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(248) 292-2920

Customer No. 25215

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 512 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T^5
	1.	Notice of References cited by the USPTO Examiner in US Application No. 17/844,372 (Atty Docket No. 1859.029USC15), dated August 11, 2022.	

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.			

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
Page 513 of 532

Electronic Patent Application Fee Transmittal

Application Number:	17670765
Filing Date:	14-Feb-2022
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Filer:	Paul J. Palinski/BECKY BALLARD
Attorney Docket Number:	1859.029USC14

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**260**

Electronic Acknowledgement Receipt

EFS ID:	46511654
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	30-AUG-2022
Filing Date:	14-FEB-2022
Time Stamp:	12:01:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$260
RAM confirmation Number	E20228TC02051880
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	Supplemental_IDS_1859_029USC14.pdf	183174 8e0943270fcd4978a212ab8575ccc6769cfdf399	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	Non Patent Literature	NoticeOfReferences.pdf	2322274 d8fd428d395607b7146f6bf24246e7cbddf686e3	no	45
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38152 ed6ab8b27163bd09940be43d580d442e2ddec374	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2543600		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25215 7590 08/11/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

Becky Ballard	(Typed or printed name)
/Becky Ballard/	(Signature)
August 30, 2022	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

TITLE OF INVENTION: PORTION CAPSULE HAVING AN IDENTIFIER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	11/14/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHOU, JIMMY	3761	426-115000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 The Dobrusin Law Firm, P.C.
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: K-FEE SYSTEM GMBH

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Bergisch Gladbach, Germany

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-1097

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Paul J. Palinski/ Date August 30, 2022

Typed or printed name Paul J. Palinski Registration No. 71,080

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Nespresso USA, Inc. Ex. 1002
Page 518 of 532

Electronic Patent Application Fee Transmittal

Application Number:	17670765
Filing Date:	14-Feb-2022
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Filer:	Paul J. Palinski/BECKY BALLARD
Attorney Docket Number:	1859.029USC14

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1200**

Electronic Acknowledgement Receipt

EFS ID:	46511660
Application Number:	17670765
International Application Number:	
Confirmation Number:	8012
Title of Invention:	PORTION CAPSULE HAVING AN IDENTIFIER
First Named Inventor/Applicant Name:	Marc Krüger
Customer Number:	25215
Filer:	Paul J. Palinski/BECKY BALLARD
Filer Authorized By:	Paul J. Palinski
Attorney Docket Number:	1859.029USC14
Receipt Date:	30-AUG-2022
Filing Date:	14-FEB-2022
Time Stamp:	12:07:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1200
RAM confirmation Number	E20228TC08141936
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IssueFee_1859_029USC14.pdf	122642 0807a9e81c0cfec6622cf4d62b8eec3cf3a5710e	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38034 38cc65d11f0f5612fe6a5f070b0418ca5defedf5	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	160676		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/670,765	02/14/2022	Marc Krüger	1859.029USC14	8012

25215 7590 09/09/2022

The Dobrusin Law Firm P.C.
29 W. Lawrence Street
Suite 210
Pontiac, MI 48342

EXAMINER	
CHOU, JIMMY	

ART UNIT	PAPER NUMBER
3761	

NOTIFICATION DATE	DELIVERY MODE
09/09/2022	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):

dobrusin_PAIR@firsttofile.com
patmail@patentco.com
rmasquelier@patentco.com

Corrected ***Notice of Allowability***	**Application No.** 17/670,765	**Applicant(s)** Krüger, Marc	
	Examiner JIMMY CHOU	**Art Unit** 3761	**AIA (FITF) Status** No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 08/30/2022.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ 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.

3. ☑ The allowed claim(s) is/are 10-21 . As a result of the allowed claim(s), 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.**

4. ☑ 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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JIMMY CHOU/
Primary Examiner, Art Unit 3761

Filed via EFS @ USPTO.gov on March 30, 2022
Attorney Docket No. 1859.029USC14 / KRU0022-WO-US-T15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Marc Krüger	Art Unit: 3761
Application No.: 17/670,765	Examiner: Chou, Jimmy
Filed: February 14, 2022	Conf. No.: 8012
For: Portion Capsule Having An Identifier	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Under 37 C.F.R. 1.97 (e)(2) AFTER FINAL – Fee Required

Applicant submits this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

Copies of foreign patent documents and non-patent literature together with a listing on form PTO/SB/08a are submitted herewith. Applicant respectfully solicits the Examiner's consideration of the cited references and entry thereof into the record of this application.

I, the person signing below, state 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 my knowledge, after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. *37 C.F.R. § 1.97(e)(2).*

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This Information Disclosure Statement is being submitted prior to the payment of the issue fee. A fee of $260.00 is believed to be due, however, if any additional fee is due with the filing of this paper, please charge the amount to deposit account 50-1097.

Date: August 30, 2022

/Paul J. Palinski/

Paul J. Palinski
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/ Page 526 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy
	Attorney Docket Number	1859.029USC14

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T^5
	1.	Notice of References cited by the USPTO Examiner in US Application No. 17/844,372 (Atty Docket No. 1859.029USC15), dated August 11, 2022.	

EXAMINER SIGNATURE			
Examiner Signature	/JIMMY CHOU/	Date Considered	09/06/2022
*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.			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/670,765
	Filing Date	February 14, 2022
	First Named Inventor	Marc Krüger
	Art Unit	3761
	Examiner Name	Chou, Jimmy /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14

U.S. PATENTS					
Examiner Initials*	Cite No.	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document
	1.	726,793		04/28/1903	Bezzera
	2.	3,387,553 06/1968		~~10/24/1965~~	Tavera
	3.	3,437,253		04/08/1969	Davis et al.
	4.	5,261,558		11/16/1993	Claydon
	5.	6,142,063		11/07/2000	Beaulieu et al.

Change(s) ~~applied~~ to document, /M.E.G./ 8/16/2022

U.S. PATENT APPLICATION PUBLICATIONS					
Examiner Initials*	Cite No.	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document
	1.	2002/0078831	A1	06/27/2002	Cai
	2.	2004/0112222	A1	06/17/2004	Fischer
	3.	2006/0233921	A1	10/19/2006	Mock et al.
	4.	2006/0230941	A1	10/19/2006	Ryser et al.
	5.	2008/0105131	A1	05/08/2008	Castellani
	6.	2009/0205747	A1	08/20/2009	Lillard, Jr.
	7.	2011/0265659	A1	11/03/2011	Giua
	8.	2012/0269933	A1	10/25/2012	Rapparini
	9.	2013/0099597	A1	04/25/2013	Perentes

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document	T[5]
	1.	2145759	EP	A1	01/20/2010	Geerts et al.	
	2.	2001/060712	WO	A1	08/23/2001	Sweeney et al.	
	3.	2010/034663	WO	A1	04/01/2010	Ozanne et al.	
	4.	2010/099806	WO	A1	09/10/2010	Rossi	

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initial*	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1.	Nespresso's Preliminary Invalidity Contentions dated July 06, 2022, against U.S. Patent No. 11,254,491, in Case No. 2:22-cv-00525-GW (AGRx).	
	2.	Appendix A - Obviousness Chart for U.S. Patent No. 11,254,491	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

	114	9,271,602	B2	03/01/2016	Beaulieu et al.
	115	9,290,317	B2	03/22/2016	Quinn et al.
	116	9,295,278	B2	03/29/2016	Nowak
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	131	9,708,086	B2	07/18/2017	Bianchi
	132	9,770,129 09/2017	B2	~~09/220176~~	Remo et al.
	133	9,808,112	B2	11/07/2017	Favero et al.
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Change(s) ~~applied~~ to document, /M.E.G./ 8/16/2022

U.S. PATENT APPLICATION PUBLICATIONS					
Examiner Initials*	Cite No.	Publication Number	Kind Code	Publication Date	Name of Patentee or Applicant of cited Document
	1.	2001/0038204	A1	11/08/2001	Nojima et al
	2.	2001/0047724	A1	12/06/2001	Lazaris
	3.	2001/0048957	A1	12/06/2001	Lazaris et al.
	4.	2001/0181005	A1	08/09/2007	Kirschner et al.
	5.	2002/0020659	A1	02/21/2002	Sweeney
	6.	2002/0048621	A1	04/25/2002	Boyd et al.
	7.	2002/0085164	A1	07/04/2002	Stanford-Clark
	8.	2002/0088807	A1	07/11/2002	Perkovic et al.
	9.	2002/0110626	A1	08/15/2002	Buckingham et al.
	10.	2002/0148356	A1	10/17/2002	Lazaris et al.
	11.	2003/0005826	A1	01/09/2003	Sargent et al.
	12.	2003/0033938	A1	02/20/2003	Halliday et al.
	13.	2003/0039731	A1	02/27/2003	Dalton et al.
	14.	2003/0121979	A1	07/03/2003	Haens et al.
	15.	2003/0172813	A1	09/18/2003	Schifferle

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/ Page 529 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC13 (KRU0022-WO-US-T14)

	38.	5,677,522	A	10/14/1997	Rice et al.
	39.	5,725,261	A	03/10/1998	Rahn
	40.	5,840,189	A	11/24/1998	Sylvan et al.
	41.	5,888,549	A	03/30/1999	Buchholz et al.
	42.	5,895,672	A	04/20/1999	Cooper
	43.	5,897,899	A	04/27/1999	Fond
	44.	5,917,165	A	06/29/1999	Platt et al.
	45.	5,941,055	A	08/24/1999	Coates
	46.	5,948,455	A	09/07/1999	Schaeffer et al
	47.	5,980,743	A	11/09/1999	Bairischer
	48.	5,994,677	A	11/30/1999	Akerlind
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	65.	6,861,086	B2	03/01/2005	Buckingham et al.
	66.	6,948,420	B2	09/27/2005	Kirschner et al.
	67.	6,994,879	B2	02/07/2006	Cirigliano et al.
	68.	7,408,094	B2	08/05/2008	Little et al.
	69.	7,444,925 11/2008	B2	~~02/07/2006~~	~~Cirigli~~ Mahlich
	70.	7,464,518	B2	12/16/2008	Ansinn
	71.	7,543,527	B2	06/09/2009	Schmed
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	74.	7,673,558	B2	03/09/2010	Panesar et al.
	75.	7,685,930	B2	03/30/2010	Mandralis et al.
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Change(s) applied to document, /M.E.G./ 8/16/2022

IPR2024-00304
Nespresso USA, Inc. Ex. 1002
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/ Page 530 of 532

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	TBA
	Filing Date	Herewith
	First Named Inventor	Marc Krüger
	Art Unit	TBA
	Examiner Name	TBA /JIMMY CHOU/
	Attorney Docket Number	1859.029USC14 (KRU0022-WO-US-T15)

U.S. PATENTS					
Examiner Initials*	Cite No.	Patent Number	Kind Code	Issue Date	Name of Patentee or Applicant of cited Document
	1.	2,778,739		01/22/1957	Rodth
	2.	3,183,096		05/11/1965	Hiscock
	3.	3,501,896	A	03/24/1970	Stoeser et al.
	4.	3,521,207		07/21/1970	Britton et al.
Change(s) applied to document, /M.E.G./ 8/16/2022	5.	3,631,793 01/1972		~~06/23/1969~~	Bednartz
	6.	3,640,727		02/08/1972	Heusinkveld
	7.	4,136,202		01/23/1979	Favre
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	9.	4,534,985		08/13/1985	Gasau
	10.	4,540,595		09/10/1985	Acitelli et al.
	11.	4,644,151	A	05/12/1987	Piet
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	15.	4,859,337		08/22/1989	Woltermann
	16.	4,860,645	A	08/29/1989	Van Der Lijn et al.
	17.	4,867,993		09/19/1989	Nordskog
	18.	4,976,179		12/11/1990	Lacrouts-Cazenave
	19.	5,012,629		05/07/1991	Rehman et al.
	20.	5,028,769	A	07/02/1991	Claypool et al.
	21.	5,108,768	A	04/28/1992	So
	22.	5,194,553	A	03/16/1993	Freeburne et al.
	23.	5,242,702	A	09/07/1993	Fond
	24.	5,243,164	A	09/07/1993	Erickson et al.
	25.	5,251,758	A	10/12/1993	Kolacek
	26.	5,285,041	A	02/08/1994	Wright
	27.	5,325,765 07/1994	A	~~07/16/1996~~	~~Takashima~~ Sylvan, et al.
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.C/

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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

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